

# Confidential Release

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Part 27

MCI Exhibits  
1-48

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| C:\123R24\LCATR071 SPAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Bellcore®                                                                                                      |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------|----------------|--|---------|------|---------|----|--------------|------|------------|---------|--------------|--------|-------------|-------|---------|---------|-------------------|--|
| INPUT - PLANT_CHAR<br>Sheet 1 / 5<br><br>COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         | LOOP FACILITY INPUT<br>LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 1 - RESIDENCE LINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | LCAT Rel: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 04-Dec-95<br>TIME: 14:40 |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| <b>FLAT RATE BASIS DATA WITHOUT COST BANDS<br/>FOR A NETWORK CIRCUIT CASE STUDY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| <b>LOOP TOPOLOGY</b><br>Loop FEEDER Network Configuration Is (S)tar Or (R)ing<br>Average Number Of Hubs In Each Ring<br>Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us<br><br><b>SPAN LENGTHS</b><br>① Average Distance From the Central Office to the Service Access Point<br>② Average Distance From the Serving Area Interface to the Service Access Point<br>③ Average Distance From the Remote Terminal to the Serving Area Interface<br>④ Average Distance From the Central Office to the Fiber Hub or S.A.I.<br>⑤ Average Distance From the Fiber Hub to the Remote Terminal |         | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">ACTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td>PRIMARY</td> <td>STAR</td> </tr> <tr> <td>PRIMARY</td> <td>NA</td> </tr> <tr> <td>DISTRIBUTION</td> <td>STAR</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>TOTAL LOOP</td> <td>17226.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td>2346.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td>300.0</td> </tr> <tr> <td>PRIMARY</td> <td>14580.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </tbody> </table> |  |                                                                                                                | ACTION SEGMENT |  | PRIMARY | STAR | PRIMARY | NA | DISTRIBUTION | STAR | TOTAL LOOP | 17226.0 | DISTRIBUTION | 2346.0 | SUB-PRIMARY | 300.0 | PRIMARY | 14580.0 | PRIMARY-EXTENSION |  |
| ACTION SEGMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | STAR    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NA      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | STAR    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| TOTAL LOOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 17226.0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2346.0  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| SUB-PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 300.0   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 14580.0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| PRIMARY-EXTENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| <b>LOOP LENGTH AT EACH COST BAND</b><br>BAND 1 <input type="text"/><br>BAND 2 <input type="text"/><br>BAND 3 <input type="text"/><br>BAND 4 <input type="text"/><br>BAND 5 <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                 |         | <b>DISTRIBUTION OF COST BANDS IN THE NETWORK</b><br>BAND 1 <input type="text"/><br>BAND 2 <input type="text"/><br>BAND 3 <input type="text"/><br>BAND 4 <input type="text"/><br>BAND 5 <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| LAST <input type="text" value="17226.0"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | LAST <input type="text" value="1.0000"/> <input type="text" value="1.0000 Hint"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                |                |  |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |

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| C:\123R24\LCATR071\SPAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | <b>LOOP COST ANALYSIS TOOL</b>                                                              |  | <b>Bellcore</b> (R)                                                                                                  |
| INPUT - PLANT_CHAR.<br>Sheet 1 / 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | LOOP FACILITY INPUT<br>LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS<br>FOR              |  | LCAT Rel : 1.0.4<br>Issued : 07/31/95<br>STUDY YR : 1996<br>TEST CASE : 1<br>LAST UPDATE : 04-Dec-96<br>TIME : 14:40 |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | INVESTMENT YEAR : 1996<br>LOOP STUDY YEAR : 1996<br>SERVICE CLASS : BAND 1 - RESIDENCE LINE |  |                                                                                                                      |
| <u>FLAT RATE BASIS DATA WITHOUT COST BANDS<br/>FOR A NETWORK CIRCUIT CASE STUDY</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                             |  |                                                                                                                      |
| <div style="text-align: center; margin-bottom: 10px;"> <b>LOOP LENGTH</b><br/> <span style="border: 1px solid black; display: inline-block; width: 100px; height: 10px; margin: 0 auto;"></span> <b>17226 FEET</b> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 15%;">NETWORK<br/>INTERFACE</div> <div style="width: 15%;">SERVICE<br/>ACCESS<br/>POINT</div> <div style="width: 15%;">SERVING<br/>AREA<br/>INTERFACE</div> <div style="width: 30%;">REMOTE TERMINAL<br/>(LOOP MULTIPLEX INTERFACE)<br/>REMOTE NODE<br/>(LOOP TRANSFER)</div> <div style="width: 15%;">FIBER<br/>HUB</div> <div style="width: 10%;">END OFFICE</div> </div> |  |                                                                                             |  |                                                                                                                      |

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**LOOP COST ANALYSIS TOOL****Bellcore<sup>®</sup>**INPUT - PLANT\_CHAR.  
Sheet 1 of 2LOOP FACILITY INPUT  
HELP SCREENLCAT Rel : 1.0.4  
Issued : 07/31/95**AVERAGE NETWORK STUDY -**

This mode of LCAT is used where the cost study may be broad in scope and lack sufficient detail data to use the Loop OSP cost calculators on Sheets 2, 3, and 4. Instead, it relies on table data from the FACILITY file, representing jurisdictional average value mixes or proportions. Input for these values is placed on Sheet 1.

**INDIVIDUAL CIRCUIT STUDY -**

This mode of LCAT is used to cost study circuit specifics on an individual Circuit Basis for Request For Proposals, Special Constructions, and CENTREX-like Services. Data input is usually actual per the circuit configuration's span by span requirements as detailed by Product Management. This mode will require the use of the Loop OSP calculators on Sheets 2, 3, and 4.

**DATA SAMPLE NETWORK STUDY -**

This mode of LCAT functions well with the Loop OSP cost calculators on Sheets 2, 3, and 4. The data samples are inputted on the sheets cumulatively and cost calculated directly. Then the weightings formulae are applied to create an average weighted Loop cost per pair foot.

**BANDWIDTH AVERAGING -**

This feature of LCAT permits study level weighting of fiber multiplexer bandwidth transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the mix of multiplexers develops a more precise unit investment to the feeder calculations.

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*  
\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION \*\*\*\*\*

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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| C:\123R24\LCAT\0711\SPAN                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LOOP COST ANALYSIS TOOL |  | Bellcore (R)                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--|-------------------------------------|--|
| INPUT = PLANT_CHAR<br>Sheet 2 of 2                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HELP SCREEN             |  | LCAT Rel: 1.0.4<br>Issued: 07/31/95 |  |
| COST DETAILS                                                                                                                                                                   | <p>When the Loop Study is specified as <u>DISTANCE SENSITIVE</u>, the data required is inputted as part of STUDY SETUP input and the ROUTE TO AIR RATIO [ B ] on WORKSHEET F and the resultant Rate Band delimiters are copied into the RATE BANDS field on SCREEN 1 by the System. The SPAN LENGTHS data is input by the User.</p> <p>When the Loop Study is specified as <u>FLAT RATE</u>, then ALL the data required is input on SCREEN 1 in the COST BANDS field and/or SPAN LENGTHS field by the User.</p>                                                           |                         |  |                                     |  |
| LOOP TOPOLOGY                                                                                                                                                                  | <p>When the Loop Topology ( circuit layout format ) for the Feeder Layer is specified as <u>STAR</u>, the Primary Feeder ( C.O. to HUB ) is variable and the Feeder Extension ( HUB to R.T. ) is held as an average length link. When the Loop Topology is specified as <u>RING</u>, the Primary Feeder is held as an average length link and the Feeder Extension is variable. This Input Sheet is adjusted to each possibility. The SPAN LENGTHS input cells are rearranged to support the Topology specified and only request the necessary data that is required.</p> |                         |  |                                     |  |
| <p>***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****<br/>           ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |  |                                     |  |
| <p>PRESS 'ENTER' TO RETURN TO THE MAIN MENU</p>                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |  |                                     |  |

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| C:\123R24\LCATR071 SPAN                                                                    |                 | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                                        |                                                          |                                                     |                                                          | Bellcore (A)                                                                                                   |                                                          |
|--------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| INPUT - PLANT CHAR.<br>Sheet 2a / 5<br><br>COMPANY: 0<br>CITY / AREA: 0<br>STATE / PROJ: 0 |                 | LOOP FACILITY INPUT<br>FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 1 - RESIDENCE LINE |                                                          |                                                     |                                                          | LCAT Ref: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 04-Dec-96<br>TIME: 14:40 |                                                          |
| <b>NETWORK CIRCUIT LAYOUT STUDIES</b>                                                      |                 |                                                                                                                                                                                       |                                                          | <b>WORKSHEET A</b>                                  |                                                          |                                                                                                                |                                                          |
|                                                                                            |                 | AERIAL FIBER                                                                                                                                                                          |                                                          | BURIED FIBER                                        |                                                          | UNDERGROUND FIBER                                                                                              |                                                          |
|                                                                                            | CAPACITY<br>[C] | CUMULATIVE<br>FEEDER<br>LENGTH<br>[D <sub>A</sub> ]                                                                                                                                   | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT<br>[E <sub>A</sub> ] | CUMULATIVE<br>FEEDER<br>LENGTH<br>[D <sub>B</sub> ] | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT<br>[E <sub>B</sub> ] | CUMULATIVE<br>FEEDER<br>LENGTH<br>[D <sub>U</sub> ]                                                            | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT<br>[E <sub>U</sub> ] |
| 4 FIBER CABLE                                                                              | 2 pr            |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 6 FIBER CABLE                                                                              | 3 pr            |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 12 FIBER CABLE                                                                             | 6 pr            |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 18 FIBER CABLE                                                                             | 9 pr            |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 24 FIBER CABLE                                                                             | 12 pr           |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 36 FIBER CABLE                                                                             | 18 pr           |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 48 FIBER CABLE                                                                             | 24 pr           |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 60 FIBER CABLE                                                                             | 30 pr           |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 72 FIBER CABLE                                                                             | 36 pr           |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 84 FIBER CABLE                                                                             | 42 pr           |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 96 FIBER CABLE                                                                             | 48 pr           |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 144 FIBER CABLE                                                                            | 72 pr           |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 192 FIBER CABLE                                                                            | 96 pr           |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| 216 FIBER CABLE                                                                            | 108 pr          |                                                                                                                                                                                       | 0.0                                                      |                                                     | 0.0                                                      |                                                                                                                | 0.0                                                      |
| CUMULATIVE LENGTHS OF FEEDER:                                                              |                 |                                                                                                                                                                                       |                                                          | EFFECTIVE CABLE LENGTHS BY CABLE PAIR FOOT:         |                                                          |                                                                                                                |                                                          |
| AERIAL FIBER SUBTOTAL                                                                      |                 | 0                                                                                                                                                                                     |                                                          | AERIAL FIBER SUBTOTAL                               |                                                          | 0.0                                                                                                            |                                                          |
| BURIED FIBER SUBTOTAL                                                                      |                 | 0                                                                                                                                                                                     |                                                          | BURIED FIBER SUBTOTAL                               |                                                          | 0.0                                                                                                            |                                                          |
| UNDGRD FIBER SUBTOTAL                                                                      |                 | 0                                                                                                                                                                                     |                                                          | UNDGRD FIBER SUBTOTAL                               |                                                          | 0.0                                                                                                            |                                                          |
| FIBER SUBTOTAL                                                                             |                 | 0                                                                                                                                                                                     |                                                          | FIBER SUBTOTAL                                      |                                                          | 0.0                                                                                                            |                                                          |

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| C:\123R24\LCATR071\SPAN                                                                                                                                                      |             | <b>LOOP COST ANALYSIS TOOL</b>                                                       |     |              |         | Bellcore (R)                          |         |                   |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------|-----|--------------|---------|---------------------------------------|---------|-------------------|---------|
| PLANT CHAR - WORKSHEET 2B<br>Sheet 2b / 5                                                                                                                                    |             | LOOP FACILITY INPUT<br>FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER<br>FOR |     |              |         | LCAT Rel : 1.0.4<br>Issued : 07/31/95 |         |                   |         |
| COMPANY: CINCINNATI BELL TEL.                                                                                                                                                |             | INVESTMENT YEAR: 1996                                                                |     |              |         | STUDY YR : 1996                       |         |                   |         |
| CITY / AREA: CINCINNATI                                                                                                                                                      |             | LOOP STUDY YEAR: 1996                                                                |     |              |         | TEST CASE : 1                         |         |                   |         |
| STATE: OHIO                                                                                                                                                                  |             | SERVICE CLASS: BAND 1 - RESIDENCE LINE                                               |     |              |         | LAST UPDATE: 04-Dec-96                |         |                   |         |
| <b>NETWORK CIRCUIT LAYOUT STUDIES</b>                                                                                                                                        |             | <b>WORKSHEET B</b>                                                                   |     |              |         | TIME : 14:40                          |         |                   |         |
| <p>EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E]WKSH A / [F]WKSH C</p> <p>CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A] * [C] * UNIT INV FACILITY WKSH B</p> |             |                                                                                      |     |              |         |                                       |         |                   |         |
| For these sizes ...                                                                                                                                                          |             | CAPACITY<br>[C]                                                                      | idx | AERIAL FIBER |         | BURIED FIBER                          |         | UNDERGROUND FIBER |         |
|                                                                                                                                                                              |             |                                                                                      |     | [A]          | [B]     | [A]                                   | [B]     | [A]               | [B]     |
| 4                                                                                                                                                                            | FIBER CABLE | 2 pr                                                                                 |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 6                                                                                                                                                                            | FIBER CABLE | 3 pr                                                                                 |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 12                                                                                                                                                                           | FIBER CABLE | 6 pr                                                                                 |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 18                                                                                                                                                                           | FIBER CABLE | 9 pr                                                                                 |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 24                                                                                                                                                                           | FIBER CABLE | 12 pr                                                                                |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 36                                                                                                                                                                           | FIBER CABLE | 18 pr                                                                                |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 48                                                                                                                                                                           | FIBER CABLE | 24 pr                                                                                |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 60                                                                                                                                                                           | FIBER CABLE | 30 pr                                                                                |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 72                                                                                                                                                                           | FIBER CABLE | 36 pr                                                                                |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 84                                                                                                                                                                           | FIBER CABLE | 42 pr                                                                                |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 96                                                                                                                                                                           | FIBER CABLE | 48 pr                                                                                |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 144                                                                                                                                                                          | FIBER CABLE | 72 pr                                                                                |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 192                                                                                                                                                                          | FIBER CABLE | 96 pr                                                                                |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| 216                                                                                                                                                                          | FIBER CABLE | 108 pr                                                                               |     | 0.000        | \$ 0.00 | 0.000                                 | \$ 0.00 | 0.000             | \$ 0.00 |
| SUBTOTAL                                                                                                                                                                     |             |                                                                                      |     | \$ 0.00      |         | \$ 0.00                               |         | \$ 0.00           |         |

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| C:\123R24\LCATR071\SPAN                                                 |         | LOOP COST ANALYSIS TOOL                                                         |        |        |        |        |        | Bellcore                                                                |        |        |        |
|-------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------|--------|--------|--------|
| PLAN CHAR - WORKSHEET 3B<br>Sheet 3b / 5                                |         | LOOP FACILITY INPUT<br>COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER<br>FOR |        |        |        |        |        | LCAT Ref: 1.0.4<br>Issued: 07/31/95                                     |        |        |        |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE: OHIO |         | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996                                  |        |        |        |        |        | STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 04-Dec-96<br>TIME: 14:40 |        |        |        |
| NETWORK CIRCUIT LAYOUT STUDIES                                          |         | WORKSHEET B                                                                     |        |        |        |        |        | SERVICE CLASS: BAND 1 - RESIDEN                                         |        |        |        |
| CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT                              |         |                                                                                 |        |        |        |        |        |                                                                         |        |        |        |
| CABLE SHEATH SIZES                                                      |         | CAPACITY                                                                        | 26 GA. |        |        | 24 GA. |        |                                                                         | 22 GA. |        |        |
|                                                                         | idx     |                                                                                 | AERIAL | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD                                                                  | AERIAL | BURIED | UNDGRD |
| 40 COPPER CABLE                                                         | 20 pr   | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 50 COPPER CABLE                                                         | 25 pr   | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 80 COPPER CABLE                                                         | 40 pr   | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 100 COPPER CABLE                                                        | 50 pr   | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 140 COPPER CABLE                                                        | 70 pr   | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 200 COPPER CABLE                                                        | 100 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 400 COPPER CABLE                                                        | 200 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 600 COPPER CABLE                                                        | 300 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 800 COPPER CABLE                                                        | 400 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 1200 COPPER CABLE                                                       | 600 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 1800 COPPER CABLE                                                       | 900 pr  | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 2400 COPPER CABLE                                                       | 1200 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 3000 COPPER CABLE                                                       | 1500 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 3600 COPPER CABLE                                                       | 1800 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 4200 COPPER CABLE                                                       | 2100 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 4800 COPPER CABLE                                                       | 2400 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 5400 COPPER CABLE                                                       | 2700 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 6000 COPPER CABLE                                                       | 3000 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 7200 COPPER CABLE                                                       | 3600 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| 8400 COPPER CABLE                                                       | 4200 pr | \$                                                                              | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| AERIAL CABLE SUBTOTAL                                                   |         |                                                                                 | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                    | 0.00   | 0.00   | 0.00   |
| BURIED CABLE SUBTOTAL                                                   |         |                                                                                 |        |        |        |        |        |                                                                         |        |        |        |
| UNDGRD CABLE SUBTOTAL                                                   |         |                                                                                 |        |        |        |        |        |                                                                         |        |        |        |

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| C:\123R24\LCATR071 SPAN                                                 |         |                 | LOOP COST ANALYSIS TOOL                                                                    |        |        |        |        |        | Bellcore                                                                                                       |        |        |
|-------------------------------------------------------------------------|---------|-----------------|--------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|----------------------------------------------------------------------------------------------------------------|--------|--------|
| INPUT - PLANT_CHAR<br>Sheet 4a / 5                                      |         |                 | LOOP FACILITY INPUT<br>COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER<br>FOR |        |        |        |        |        | LCAT Rel: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 04-Dec-96<br>TIME: 14:40 |        |        |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE: OHIO |         |                 | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 1 - RESIDENC         |        |        |        |        |        |                                                                                                                |        |        |
| NETWORK CIRCUIT LAYOUT STUDIES                                          |         |                 | WORKSHEET A<br>CUMULATIVE LENGTHS BY CABLE PAIR FOOT                                       |        |        |        |        |        |                                                                                                                |        |        |
| CABLE SHEATH SIZES                                                      |         | CAPACITY<br>ICX | 26 GA.                                                                                     |        |        | 24 GA. |        |        | 22 GA.                                                                                                         |        |        |
|                                                                         |         |                 | AERIAL                                                                                     | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD | AERIAL                                                                                                         | BURIED | UNDGRD |
| 40 COPPER CABLE                                                         | 20 pr   |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 50 COPPER CABLE                                                         | 25 pr   |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 80 COPPER CABLE                                                         | 40 pr   |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 100 COPPER CABLE                                                        | 50 pr   |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 140 COPPER CABLE                                                        | 70 pr   |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 200 COPPER CABLE                                                        | 100 pr  |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 400 COPPER CABLE                                                        | 200 pr  |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 600 COPPER CABLE                                                        | 300 pr  |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 800 COPPER CABLE                                                        | 400 pr  |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 1200 COPPER CABLE                                                       | 600 pr  |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 1800 COPPER CABLE                                                       | 900 pr  |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 2400 COPPER CABLE                                                       | 1200 pr |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 3000 COPPER CABLE                                                       | 1500 pr |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 3600 COPPER CABLE                                                       | 1800 pr |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 4200 COPPER CABLE                                                       | 2100 pr |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 4800 COPPER CABLE                                                       | 2400 pr |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 5400 COPPER CABLE                                                       | 2700 pr |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 6000 COPPER CABLE                                                       | 3000 pr |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 7200 COPPER CABLE                                                       | 3600 pr |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| 8400 COPPER CABLE                                                       | 4200 pr |                 |                                                                                            |        |        |        |        |        |                                                                                                                |        |        |
| SUB TOTALS                                                              |         |                 | 0.0                                                                                        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                                                                                                            | 0.0    | 0.0    |
| TOTALS                                                                  |         |                 |                                                                                            |        | 0.0    |        |        |        |                                                                                                                |        | 0.0    |

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| C:\123R24\LCATR071\SPAN                                  |         | LOOP COST ANALYSIS TOOL                                                               |        |             |        |        |        | Bellcore                              |        |        |        |
|----------------------------------------------------------|---------|---------------------------------------------------------------------------------------|--------|-------------|--------|--------|--------|---------------------------------------|--------|--------|--------|
| PLANT CHAR - WORKSHEET 4B<br>Sheet 4b / 5                |         | LOOP FACILITY INPUT<br>COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER<br>FOR |        |             |        |        |        | LCAT Rev: 1.0.4<br>Issued: 07/31/95   |        |        |        |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI |         | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996                                        |        |             |        |        |        | STUDY YR: 1996<br>TEST CASE: 1        |        |        |        |
| STATE: OHIO                                              |         | SERVICE CLASS: BAND 1 - RESIDENC                                                      |        |             |        |        |        | LAST UPDATE: 04-Dec-96<br>TIME: 14:40 |        |        |        |
| NETWORK CIRCUIT LAYOUT STUDIES                           |         |                                                                                       |        | WORKSHEET B |        |        |        |                                       |        |        |        |
| CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT               |         |                                                                                       |        |             |        |        |        |                                       |        |        |        |
| CABLE SHEATH SIZES                                       |         | CAPACITY                                                                              | 26 GA. |             |        | 24 GA. |        |                                       | 22 GA. |        |        |
|                                                          |         | idx                                                                                   | AERIAL | BURIED      | UNDGRD | AERIAL | BURIED | UNDGRD                                | AERIAL | BURIED | UNDGRD |
| 40 COPPER CABLE                                          | 20 pr   | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 50 COPPER CABLE                                          | 25 pr   | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 80 COPPER CABLE                                          | 40 pr   | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 100 COPPER CABLE                                         | 50 pr   | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 140 COPPER CABLE                                         | 70 pr   | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 200 COPPER CABLE                                         | 100 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 400 COPPER CABLE                                         | 200 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 600 COPPER CABLE                                         | 300 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 800 COPPER CABLE                                         | 400 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 1200 COPPER CABLE                                        | 600 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 1800 COPPER CABLE                                        | 900 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 2400 COPPER CABLE                                        | 1200 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 3000 COPPER CABLE                                        | 1500 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 3600 COPPER CABLE                                        | 1800 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 4200 COPPER CABLE                                        | 2100 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 4800 COPPER CABLE                                        | 2400 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 5400 COPPER CABLE                                        | 2700 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 6000 COPPER CABLE                                        | 3000 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 7200 COPPER CABLE                                        | 3600 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 8400 COPPER CABLE                                        | 4200 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| AERIAL CABLE SUBTOTAL                                    |         |                                                                                       | 0.00   |             |        | 0.00   |        |                                       | 0.00   |        |        |
| BURIED CABLE SUBTOTAL                                    |         |                                                                                       |        | 0.00        |        |        | 0.00   |                                       |        | 0.00   |        |
| UNDGRD CABLE SUBTOTAL                                    |         |                                                                                       |        |             | 0.00   |        |        | 0.00                                  |        |        | 0.00   |

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| C:\123R24\LCATR071\SPAN                                                                                                                                                                                                                                                                           |  | LOOP COST ANALYSIS TOOL                                                           |         |          |          |        |        |        | Bellcore <sup>®</sup>               |            |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|---------|----------|----------|--------|--------|--------|-------------------------------------|------------|-------------|
| INPUT - PLANT_CHAR.<br>Sheet 5 / 5                                                                                                                                                                                                                                                                |  | LOOP FACILITY INPUT<br>DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX<br>FOR |         |          |          |        |        |        | LCAT Rel: 1.0.4<br>Issued: 07/31/95 |            |             |
| COMPANY: CINCINNATI BELL TEL                                                                                                                                                                                                                                                                      |  | INVESTMENT YEAR: 1996                                                             |         |          |          |        |        |        | STUDY YR: 1996                      |            |             |
| CITY / AREA: CINCINNATI                                                                                                                                                                                                                                                                           |  | LOOP STUDY YEAR: 1996                                                             |         |          |          |        |        |        | TEST CASE: 1                        |            |             |
| STATE / PROV: OHIO                                                                                                                                                                                                                                                                                |  | SERVICE CLASS: BAND 1 - RESIDENCE LINE                                            |         |          |          |        |        |        | LAST UPDATE: 04-Dec-96              |            |             |
|                                                                                                                                                                                                                                                                                                   |  |                                                                                   |         |          |          |        |        |        | TIME: 14:40                         |            |             |
| FIBER BANDWIDTH                                                                                                                                                                                                                                                                                   |  |                                                                                   |         |          |          |        |        |        |                                     |            |             |
| TRANSMISSION FLOW IS: <input checked="" type="checkbox"/> UNIDIRECTIONAL<br><input type="checkbox"/> BIDIRECTIONAL                                                                                                                                                                                |  |                                                                                   |         |          |          |        |        |        |                                     |            |             |
| LEVEL OF SERVICE: <u>NARBAND</u>                                                                                                                                                                                                                                                                  |  |                                                                                   |         |          |          |        |        |        |                                     |            |             |
| BITRATE INDEX                                                                                                                                                                                                                                                                                     |  | 1                                                                                 | 2       | 3        | 4        | 5      | 6      | 7      | SERVICE                             | PROTECTION | WEIGHTED    |
| FIBER BANDWIDTH                                                                                                                                                                                                                                                                                   |  | 45 Mbps                                                                           | 90 Mbps | 155 Mbps | 180 Mbps | 0      | 0      | 0      | LEVEL                               |            | EQUIVALENT  |
| MUX DS3 MULTIPLIER                                                                                                                                                                                                                                                                                |  | 1                                                                                 | 2       | 3        | 4        | 0      | 0      | 0      | MULTIPLE                            | n: 1       | CHANNELS    |
| VOICE GRADE CHANNELS                                                                                                                                                                                                                                                                              |  | 672                                                                               | 1344    | 2016     | 2688     | 0      | 0      | 0      | [SLM]                               | [E]        | PER FO PAIR |
|                                                                                                                                                                                                                                                                                                   |  |                                                                                   |         |          |          |        |        |        |                                     |            | [F]         |
| FEEDER - PRIMARY                                                                                                                                                                                                                                                                                  |  | 0.0000                                                                            | 0.1370  | 0.7810   | 0.0820   | 0.0000 | 0.0000 | 0.0000 | 2                                   | 1          | 1979.04     |
| FEEDER - EXTENSION                                                                                                                                                                                                                                                                                |  | 0.0000                                                                            | 0.1370  | 0.7810   | 0.0820   | 0.0000 | 0.0000 | 0.0000 | 2                                   | 1          | 1979.04     |
|                                                                                                                                                                                                                                                                                                   |  |                                                                                   |         |          |          |        |        |        |                                     |            |             |
|                                                                                                                                                                                                                                                                                                   |  |                                                                                   |         |          |          |        |        |        |                                     |            |             |
|                                                                                                                                                                                                                                                                                                   |  |                                                                                   |         |          |          |        |        |        |                                     |            |             |
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| <b>FOOTNOTES</b><br>1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 for Bidirectional}.<br>2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BR1 -> 7} DIVIDED BY {The [SLM]} TIMES 4 PLUS OVER PROT [SLM] |  |                                                                                   |         |          |          |        |        |        |                                     |            |             |

PLANT\_CHAR. - WORKSHEET F  
Sheet 1 of 1

## LOOP LENGTH DEVELOPMENT WORKSHEET

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR.: 1996

TEST CASE: 1

LAST UPDATE: 04-Dec-96

TIME: 14:40

COMPANY: CINCINNATI BELL TEL.  
CITY/AREA: CINCINNATI  
STATE: OHIO

INVESTMENT YEAR: 1996  
LOOP STUDY YEAR: 1996  
SERVICE CLASS: BAND 1 - RESIDENCE  
WORKSHEET F

| DISTANCE INCREMENTS: |                                       | 0 / 4 MILE BETWEEN BANDS              |                                   | ROUTE TO AIR RATIO: 1.539947                   |                                          |
|----------------------|---------------------------------------|---------------------------------------|-----------------------------------|------------------------------------------------|------------------------------------------|
| NUMBER OF BANDS:     |                                       | 0 TO BE CARRIED INTO THE STUDY        |                                   | UNIT MILE / FEET CONSTANT: 1320                |                                          |
| BAND<br>NUMBER       | TOTAL<br>WORKING<br>FEET<br>[D=input] | TOTAL<br>WORKING<br>FEET<br>[E=(B*D)] | TOTAL<br>AIR<br>FEET<br>[F=A*C*K] | LOOP<br>LENGTH<br>@ MIDPOINT<br>[G (see note)] | WORKING<br>FEET<br>@ MIDPOINT<br>[H=G*R] |
| [C]                  |                                       |                                       |                                   |                                                |                                          |
| 1                    |                                       | 0                                     |                                   | 0                                              | 0                                        |
| 2                    |                                       | 0                                     |                                   | 0                                              | 0                                        |
| 3                    |                                       | 0                                     |                                   | 0                                              | 0                                        |
| 4                    |                                       | 0                                     |                                   | 0                                              | 0                                        |
| 5                    |                                       | 0                                     |                                   | 0                                              | 0                                        |

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NOTE - SPAN MIDPOINT [G] equals the  $\text{SQRT}((F_{\text{CURR}}^2/2) + (F_{\text{PREV}}^2/2))$

ERROR MESSAG 0

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| LOOP COST ANALYSIS TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 16000 | 16000 | 16500 | 17000 | 17500 | 18000 | 18500 | 19000 | 19500 | 20000 | 20500 | 21000 | 21000 | 21500 | 22000 | 22500 | 23000 | 23500 | 24000 | 24500 | 25000 | 25500 | 26000 | 26000 | 26500 | 27000 | 27500 | 28000 | 28500 | 29000 | 29500 | 30000 | 30500 | 31000 | 31000 | 31500 | 32000 | 32500 | 33000 | 33500 | 34000 | 34500 | 35000 | 35500 | 36000 | 36000 | 36500 | 37000 | 37500 | 38000 | 38500 | 39000 | 39500 | 40000 | 40500 | 41000 | 41000 | 41500 | 42000 | 42500 | 43000 | 43500 | 44000 | 44500 | 45000 | 45500 | 46000 | 46000 | 46500 | 47000 | 47500 | 48000 | 48500 | 49000 | 49500 | 50000 | 50500 | 51000 | 51000 | 51500 | 52000 | 52500 | 53000 | 53500 | 54000 | 54500 | 55000 | 55500 | 56000 | 56000 | 56500 | 57000 | 57500 | 58000 | 58500 | 59000 | 59500 | 60000 | 60500 | 61000 | 61000 | 61500 | 62000 | 62500 | 63000 | 63500 | 64000 | 64500 | 65000 | 65500 | 66000 | 66000 | 66500 | 67000 | 67500 | 68000 | 68500 | 69000 | 69500 | 70000 | 70500 | 71000 | 71000 | 71500 | 72000 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**OHIO ONLY  
3 Geographic Areas**

07/26/96  
Revised

**Band 1**

|   |                 |
|---|-----------------|
| 1 | 0-12,000        |
| 2 | # Of Entries    |
| 3 | 12,001-INFINITY |
| 4 | # Of Entries    |
| 5 | Ratio           |
| 6 | 0-12,000        |
| 7 | 12,001-INFINITY |

| Residence         |                   |              | Business          |                   |              |
|-------------------|-------------------|--------------|-------------------|-------------------|--------------|
| Average F1 Length | Average F2 Length | Average Loop | Average F1 Length | Average F2 Length | Average Loop |
| A                 | B                 | C            | D                 | E                 | F            |
| 6,081             | 1,103             | 7,184        | 5,765             | 638               | 6,403        |
| 107               |                   |              | 255               |                   |              |
| 14,881            | 2,346             | 17,226       | 13,630            | 2,046             | 15,677       |
| 53                |                   |              | 38                |                   |              |
| 0.5744            |                   |              | 0.7433            |                   |              |
| 0.4256            |                   |              | 0.2567            |                   |              |
| 1.0000            |                   |              | 1.0000            |                   |              |

**Band 2**

|    |                 |
|----|-----------------|
| 8  | 0-14,000        |
| 9  | # Of Entries    |
| 10 | 14,001-INFINITY |
| 11 | # Of Entries    |
| 12 | Ratio           |
| 13 | 0-14,000        |
| 14 | 14,001-INFINITY |

|        |       |        |        |       |        |
|--------|-------|--------|--------|-------|--------|
| 6,697  | 1,836 | 8,534  | 5,698  | 1,013 | 6,711  |
| 69     |       |        | 90     |       |        |
| 19,582 | 2,699 | 22,282 | 21,785 | 1,989 | 23,774 |
| 70     |       |        | 74     |       |        |
| 0.4964 |       |        | 0.5488 |       |        |
| 0.5036 |       |        | 0.4512 |       |        |
| 1.0000 |       |        | 1.0000 |       |        |

**Band 3**

|    |                 |
|----|-----------------|
| 15 | 0-18,000        |
| 16 | # Of Entries    |
| 17 | 18,001-INFINITY |
| 18 | # Of Entries    |
| 19 | Ratio           |
| 20 | 0-18,000        |
| 21 | 18,001-INFINITY |

|        |       |        |        |       |        |
|--------|-------|--------|--------|-------|--------|
| 4,845  | 1,981 | 6,825  | 4,512  | 1,095 | 5,608  |
| 46     |       |        | 41     |       |        |
| 23,301 | 4,826 | 28,127 | 23,881 | 3,479 | 27,360 |
| 56     |       |        | 30     |       |        |
| 0.4510 |       |        | 0.5775 |       |        |
| 0.5490 |       |        | 0.4225 |       |        |
| 1.0000 |       |        | 1.0000 |       |        |

OHIO ONLY  
REVISED JAN 1997 VERSION  
BAND 2  
RESIDENCE LINE  
UNBUNDLED

MCI Depo.  
Ex. No. 43  
DJH 11-26-97



# INDEX

## BAND 2

### Residence Line

|                              |                     |       |
|------------------------------|---------------------|-------|
| Copper Study -               | Results.....        | Tab 1 |
|                              | Outputs.....        | Tab 2 |
|                              | Inputs.....         | Tab 3 |
|                              | Miscellaneous ..... | Tab 4 |
| Digital Loop Carrier Study - | Results .....       | Tab 5 |
|                              | Outputs.....        | Tab 6 |
|                              | Inputs.....         | Tab 7 |
|                              | Miscellaneous ..... | Tab 8 |

|                              |  |                                       |  |  |  |  |                         |  |
|------------------------------|--|---------------------------------------|--|--|--|--|-------------------------|--|
| C:\123R24\LCATR072\RESULTS1  |  | LOOP COST ANALYSIS TOOL               |  |  |  |  | Bellcore <sup>(R)</sup> |  |
| OUTPUT - REPORT D            |  | PROSPECTIVE INVESTMENT SUMMARY REPORT |  |  |  |  | LCAT Rel: 1.0.4         |  |
| SHEET 1 of 1                 |  |                                       |  |  |  |  | Issued: 7/31/95         |  |
| COMPANY: CINCINNATI BELL TEL |  | CIRCUIT DESIGN: TOTAL TECHNOLOGIES    |  |  |  |  | STUDY YR: 1996          |  |
| CITY / AREA: CINCINNATI      |  | LOOP SPAN DIVISION: ALL LOOP SPANS    |  |  |  |  | TEST CASE: 1            |  |
| STATE / PROV: OHIO           |  | SERVICE CLASS: BAND 2 - RESIDENCE LIN |  |  |  |  | RUN DATE: 27-Jan-97     |  |
| JOB IDENT: CINCINNATI        |  | TOTAL LOOP LENGTH: 8534 FEET          |  |  |  |  | TIME: 08:13             |  |

|                            |      |                                                                     |         |                      |         |           |           |                     |  |
|----------------------------|------|---------------------------------------------------------------------|---------|----------------------|---------|-----------|-----------|---------------------|--|
| Loop Span Set Weighting: 1 |      | UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |         |                      |         |           |           | WEIGHTED TOTAL LOOP |  |
| PLANT NAME                 |      | FEEDER                                                              |         | DISTRIBUTION NETWORK |         |           |           |                     |  |
| SEG. NAME                  |      | PRIMARY EXTENSION                                                   |         | SUB-                 |         | INTERFACE |           |                     |  |
| EQPT CODE                  |      |                                                                     |         |                      |         |           |           |                     |  |
| PLANT                      |      |                                                                     |         |                      |         |           |           |                     |  |
| ITEM DESCRIPTION           |      | SEG.LGTH.                                                           |         |                      |         |           |           |                     |  |
| <u>SHARED RESOURCES</u>    |      |                                                                     |         |                      |         |           |           |                     |  |
| LAND                       | 20C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| BUILDING                   | 10C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| BLDG ENTRANCE CABLE        | 12C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| INTRABLDG CABLE            | 52C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| AERIAL CABLE (COPPER)      | 22C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| BURIED CABLE (COPPER)      | 45C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| UNDERGROUND (CU) CA.       | 5C   | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CO EQPT - LOW CAP TERM     | 257C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CO EQPT - LOW CAP CHAN     | 257C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CO EQPT - HI CAP TERM      | 857C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CO EQPT - HI CAP CHAN      | 857C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CO EQPT - ANALOG SW        | 77C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CO EQPT - DIGITAL SW       | 377C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| AERIAL CABLE (FIBER)       | 822C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| BURIED CABLE (FIBER)       | 845C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| UNDERGROUND (FO) CA.       | 85C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CONNECTORS                 | 57C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| MISC. COM EQP & PWR        | 57C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| POLE LINE                  | 1C   | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CONDUIT                    | 4C   | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| <u>DIRECT RESOURCES</u>    |      |                                                                     |         |                      |         |           |           |                     |  |
| LAND                       | 20C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| BUILDING                   | 10C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| BLDG ENTRANCE CABLE        | 12C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 2.40   | \$ 2.3950 |                     |  |
| INTRABLDG CABLE            | 52C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| AERIAL CABLE (COPPER)      | 22C  | \$ 0.00                                                             | \$ 0.00 | \$ 1.27              | \$ 4.55 | \$ 0.00   | \$ 5.8200 |                     |  |
| BURIED CABLE (COPPER)      | 45C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.13              | \$ 3.25 | \$ 0.00   | \$ 3.3800 |                     |  |
| UNDERGROUND (CU) CA.       | 5C   | \$ 0.00                                                             | \$ 0.00 | \$ 2.52              | \$ 0.45 | \$ 0.00   | \$ 2.9700 |                     |  |
| CO EQPT - LOW CAP TERM     | 257C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CO EQPT - LOW CAP CHAN     | 257C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CO EQPT - HI CAP TERM      | 857C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CO EQPT - HI CAP CHAN      | 857C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CO EQPT - ANALOG SW        | 77C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CO EQPT - DIGITAL SW       | 377C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| AERIAL CABLE (FIBER)       | 822C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| BURIED CABLE (FIBER)       | 845C | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| UNDERGROUND (FO) CA.       | 85C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| CONNECTORS                 | 57C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| MISC. COM EQP & PWR        | 57C  | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.0000 |                     |  |
| POLE LINE                  | 1C   | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 1.09 | \$ 0.00   | \$ 1.3900 |                     |  |
| CONDUIT                    | 4C   | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.46 | \$ 0.00   | \$ 1.0500 |                     |  |
| SPAN SUMMARY               |      | \$ 0.00                                                             | \$ 0.00 | \$ 6.11              | \$ 9.50 | \$ 2.40   | \$ 17.01  |                     |  |
|                            |      |                                                                     |         |                      |         |           | \$ 17.01  |                     |  |

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C:\123R24\LCATR072\RESULTS1  
OUTPUT - COST\_REPORTS

**Belcore<sup>(R)</sup>**  
LCAT  
Release: 1.0.4  
Issued: 7/31/95

## LOOP COST ANALYSIS TOOL

### COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 0 ~ 14000 FEET IN

CURRENT TEST PLAN :

|                               |           |           |         |           |
|-------------------------------|-----------|-----------|---------|-----------|
| CURRENT JOB IDENT. CINCINNATI |           |           |         |           |
| BASIS                         | NETWORK   | TEST CASE | 1       | LAST SAVE |
| FR / DS                       | FLAT RATE | #BANDS    | 0       | 20-Jan-97 |
| SVC LEVEL                     | NARBAND   | #CKTS     | 1       | 13:12     |
| CST METH                      | UN INCR   | INV LEVEL | ANNCOST | TIME      |

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GC:\123R24\LCATR072\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 1 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellicore<sup>®</sup>LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:13COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 1 CDLC  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 8534 FEET

| Circuit Design Mix : 1.0000 |                                         | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |                     |         |                                   |         | TOTAL<br>LOOP | WEIGHTED<br>TOTAL<br>LOOP |
|-----------------------------|-----------------------------------------|------------------------------------------------------------|---------------------|---------|-----------------------------------|---------|---------------|---------------------------|
| PLANT                       | PLANT NAME<br>SEG. NAME<br>EQPT<br>CODE | PRIMARY                                                    | FEEDER<br>EXTENSION | SUB-    | DISTRIBUTION NETWORK<br>INTERFACE |         |               |                           |
| ITEM DESCRIPTION            |                                         |                                                            |                     |         |                                   |         |               |                           |
| <b>SHARED RESOURCES</b>     |                                         |                                                            |                     |         |                                   |         |               |                           |
| LAND                        | 20C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| BUILDING                    | 10C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| BLDG ENTRANCE CABLE         | 12C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| INTRABLDG CABLE             | 52C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| AERIAL CABLE (COPPER)       | 22C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| BURIED CABLE (COPPER)       | 45C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| UNDERGROUND (CU) CA.        | 5C                                      | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CO EQPT - LOW CAP TERM      | 257C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CO EQPT - LOW CAP CHAN      | 257C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CO EQPT - HI CAP TERM       | 857C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CO EQPT - HI CAP CHAN       | 857C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CO EQPT - ANALOG SW         | 77C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CO EQPT - DIGITAL SW        | 377C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| AERIAL CABLE (FIBER)        | 822C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| BURIED CABLE (FIBER)        | 845C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| UNDERGROUND (FO) CA.        | 85C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CONNECTORS                  | 57C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| MISC. COM EQP & PWR         | 57C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| POLE LINE                   | 1C                                      | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CONDUIT                     | 4C                                      | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| <b>DIRECT RESOURCES</b>     |                                         |                                                            |                     |         |                                   |         |               |                           |
| LAND                        | 20C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| BUILDING                    | 10C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| BLDG ENTRANCE CABLE         | 12C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 2.40 | \$ 2.40       |                           |
| INTRABLDG CABLE             | 52C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| AERIAL CABLE (COPPER)       | 22C                                     | \$ 0.00                                                    |                     | \$ 1.27 | \$ 4.55                           | \$ 5.82 | \$ 5.82       |                           |
| BURIED CABLE (COPPER)       | 45C                                     | \$ 0.00                                                    |                     | \$ 0.13 | \$ 3.25                           | \$ 3.38 | \$ 3.38       |                           |
| UNDERGROUND (CU) CA.        | 5C                                      | \$ 0.00                                                    |                     | \$ 2.52 | \$ 0.45                           | \$ 2.97 | \$ 2.97       |                           |
| CO EQPT - LOW CAP TERM      | 257C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CO EQPT - LOW CAP CHAN      | 257C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CO EQPT - HI CAP TERM       | 857C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CO EQPT - HI CAP CHAN       | 857C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CO EQPT - ANALOG SW         | 77C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CO EQPT - DIGITAL SW        | 377C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| AERIAL CABLE (FIBER)        | 822C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| BURIED CABLE (FIBER)        | 845C                                    | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| UNDERGROUND (FO) CA.        | 85C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| CONNECTORS                  | 57C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| MISC. COM EQP & PWR         | 57C                                     | \$ 0.00                                                    |                     | \$ 0.00 | \$ 0.00                           | \$ 0.00 | \$ 0.00       |                           |
| POLE LINE                   | 1C                                      | \$ 0.00                                                    |                     | \$ 0.30 | \$ 1.09                           | \$ 1.39 | \$ 1.39       |                           |
| CONDUIT                     | 4C                                      | \$ 0.00                                                    |                     | \$ 0.89 | \$ 0.16                           | \$ 1.05 | \$ 1.05       |                           |
| SPAN SUMMARY                |                                         | \$ 0.00                                                    | \$ 0.00             | \$ 5.13 | \$ 9.50                           | \$ 2.40 | \$ 17.01      |                           |
| CIRCUIT DESIGN SUMMARY      |                                         |                                                            |                     |         |                                   |         | \$ 17.01      |                           |

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OUTPUT - WORKSHEET D  
SHEET 2 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Belcore

LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
DATE: 27-Jan-97  
TIME: 08:13COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 2 CDLC  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 8534 FEET

| Circuit Design Mix : 0.0000 |           | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |        |           |      |                      |           |            |                     |
|-----------------------------|-----------|------------------------------------------------------------|--------|-----------|------|----------------------|-----------|------------|---------------------|
| PLANT NAME                  | SEG. NAME | PRIMARY                                                    | FEEDER | EXTENSION | SUB- | DISTRIBUTION NETWORK | INTERFACE | TOTAL LOOP | WEIGHTED TOTAL LOOP |
| PLANT                       | EQPT CODE |                                                            |        |           |      |                      |           |            |                     |
| ITEM DESCRIPTION            |           |                                                            |        |           |      |                      |           |            |                     |
| <b>SHARED RESOURCES</b>     |           |                                                            |        |           |      |                      |           |            |                     |
| LAND                        | 20C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| BUILDING                    | 10C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| BLDG ENTRANCE CABLE         | 12C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| INTRABLDG CABLE             | 52C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| AERIAL CABLE (COPPER)       | 22C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| BURIED CABLE (COPPER)       | 45C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| UNDERGROUND (CU) CA.        | 5C        |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - LOW CAP TERM      | 257C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - LOW CAP CHAN      | 257C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - HI CAP TERM       | 857C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - HI CAP CHAN       | 857C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - ANALOG SW         | 77C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - DIGITAL SW        | 377C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| AERIAL CABLE (FIBER)        | 822C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| BURIED CABLE (FIBER)        | 845C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| UNDERGROUND (FO) CA.        | 85C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CONNECTORS                  | 57C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| MISC. COM EQP & PWR         | 57C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| POLE LINE                   | 1C        |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CONDUIT                     | 4C        |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| <b>DIRECT RESOURCES</b>     |           |                                                            |        |           |      |                      |           |            |                     |
| LAND                        | 20C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| BUILDING                    | 10C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| BLDG ENTRANCE CABLE         | 12C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| INTRABLDG CABLE             | 52C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| AERIAL CABLE (COPPER)       | 22C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| BURIED CABLE (COPPER)       | 45C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| UNDERGROUND (CU) CA.        | 5C        |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - P GAIN TERM       | 257C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - P GAIN CHAN       | 257C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - FO MUX TERM       | 857C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - FO MUX CHAN       | 857C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - ANALOG SW         | 77C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CO EQPT - DIGITAL SW        | 377C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| AERIAL CABLE (FIBER)        | 822C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| BURIED CABLE (FIBER)        | 845C      |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| UNDERGROUND (FO) CA.        | 85C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CONNECTORS                  | 57C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| MISC. COM EQP & PWR         | 57C       |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| POLE LINE                   | 1C        |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CONDUIT                     | 4C        |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| SPAN SUMMARY                |           |                                                            |        |           |      |                      |           | \$ 0       | \$ C                |
| CIRCUIT DESIGN SUMMARY      |           |                                                            |        |           |      |                      |           | \$ 0       |                     |

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| A<br>B<br>C<br>D<br>E<br>F<br>G<br>H<br>I<br>J<br>K<br>L<br>M<br>N<br>O<br>P<br>Q<br>R<br>S<br>T<br>U<br>V<br>W<br>X<br>Y<br>Z<br>AA<br>AB<br>AC<br>AD<br>AE<br>AF<br>AG<br>AH<br>AI<br>AJ<br>AK<br>AL<br>AM<br>AN<br>AO<br>AP<br>AQ<br>AR<br>AS<br>AT<br>AU<br>AV<br>AW<br>AX<br>AY<br>AZ<br>BA<br>BB<br>BC<br>BD<br>BE<br>BF<br>BG<br>BH<br>BI<br>BJ<br>BK<br>BL<br>BM<br>BN<br>BO<br>BP<br>BQ<br>BR<br>BS<br>BT<br>BU<br>BV<br>BW<br>BX<br>BY<br>BZ<br>CA<br>CB<br>CC<br>CD<br>CE<br>CF<br>CG<br>CH<br>CI<br>CJ<br>CK<br>CL<br>CM<br>CN<br>CO<br>CP<br>CQ<br>CR<br>CS<br>CT<br>CU<br>CV<br>CW<br>CX<br>CY<br>CZ<br>DA<br>DB<br>DC<br>DD<br>DE<br>DF<br>DG<br>DH<br>DI<br>DJ<br>DK<br>DL<br>DM<br>DN<br>DO<br>DP<br>DQ<br>DR<br>DS<br>DT<br>DU<br>DV<br>DW<br>DX<br>DY<br>DZ<br>EA<br>EB<br>EC<br>ED<br>EE<br>EF<br>EG<br>EH<br>EI<br>EJ<br>EK<br>EL<br>EM<br>EN<br>EO<br>EP<br>EQ<br>ER<br>ES<br>ET<br>EU<br>EV<br>EW<br>EX<br>EY<br>EZ<br>FA<br>FB<br>FC<br>FD<br>FE<br>FF<br>FG<br>FH<br>FI<br>FJ<br>FK<br>FL<br>FM<br>FN<br>FO<br>FP<br>FQ<br>FR<br>FS<br>FT<br>FU<br>FV<br>FW<br>FX<br>FY<br>FZ<br>GA<br>GB<br>GC<br>GD<br>GE<br>GF<br>GG<br>GH<br>GI<br>GJ<br>GK<br>GL<br>GM<br>GN<br>GO<br>GP<br>GQ<br>GR<br>GS<br>GT<br>GU<br>GV<br>GW<br>GX<br>GY<br>GZ<br>HA<br>HB<br>HC<br>HD<br>HE<br>HF<br>HG<br>HH<br>HI<br>HJ<br>HK<br>HL<br>HM<br>HN<br>HO<br>HP<br>HQ<br>HR<br>HS<br>HT<br>HU<br>HV<br>HW<br>HX<br>HY<br>HZ<br>IA<br>IB<br>IC<br>ID<br>IE<br>IF<br>IG<br>IH<br>II<br>IJ<br>IK<br>IL<br>IM<br>IN<br>IO<br>IP<br>IQ<br>IR<br>IS<br>IT<br>IU<br>IV<br>IW<br>IX<br>IY<br>IZ<br>JA<br>JB<br>JC<br>JD<br>JE<br>JF<br>JG<br>JH<br>JI<br>JJ<br>JK<br>JL<br>JM<br>JN<br>JO<br>JP<br>JQ<br>JR<br>JS<br>JT<br>JU<br>JV<br>JW<br>JX<br>JY<br>JZ<br>KA<br>KB<br>KC<br>KD<br>KE<br>KF<br>KG<br>KH<br>KI<br>KJ<br>KK<br>KL<br>KM<br>KN<br>KO<br>KP<br>KQ<br>KR<br>KS<br>KT<br>KU<br>KV<br>KW<br>KX<br>KY<br>KZ<br>LA<br>LB<br>LC<br>LD<br>LE<br>LF<br>LG<br>LH<br>LI<br>LJ<br>LK<br>LL<br>LM<br>LN<br>LO<br>LP<br>LQ<br>LR<br>LS<br>LT<br>LU<br>LV<br>LW<br>LX<br>LY<br>LZ<br>MA<br>MB<br>MC<br>MD<br>ME<br>MF<br>MG<br>MH<br>MI<br>MJ<br>MK<br>ML<br>MN<br>MO<br>MP<br>MQ<br>MR<br>MS<br>MT<br>MU<br>MV<br>MW<br>MX<br>MY<br>MZ<br>NA<br>NB<br>NC<br>ND<br>NE<br>NF<br>NG<br>NH<br>NI<br>NJ<br>NK<br>NL<br>NM<br>NO<br>NP<br>NQ<br>NR<br>NS<br>NT<br>NU<br>NV<br>NW<br>NX<br>NY<br>NZ<br>OA<br>OB<br>OC<br>OD<br>OE<br>OF<br>OG<br>OH<br>OI<br>OJ<br>OK<br>OL<br>OM<br>ON<br>OO<br>OP<br>OQ<br>OR<br>OS<br>OT<br>OU<br>OV<br>OW<br>OX<br>OY<br>OZ<br>PA<br>PB<br>PC<br>PD<br>PE<br>PF<br>PG<br>PH<br>PI<br>PJ<br>PK<br>PL<br>PM<br>PN<br>PO<br>PP<br>PQ<br>PR<br>PS<br>PT<br>PU<br>PV<br>PW<br>PX<br>PY<br>PZ<br>QA<br>QB<br>QC<br>QD<br>QE<br>QF<br>QG<br>QH<br>QI<br>QJ<br>QK<br>QL<br>QM<br>QN<br>QO<br>QP<br>QQ<br>QR<br>QS<br>QT<br>QU<br>QV<br>QW<br>QX<br>QY<br>QZ<br>RA<br>RB<br>RC<br>RD<br>RE<br>RF<br>RG<br>RH<br>RI<br>RJ<br>RK<br>RL<br>RM<br>RN<br>RO<br>RP<br>RQ<br>RR<br>RS<br>RT<br>RU<br>RV<br>RW<br>RX<br>RY<br>RZ<br>SA<br>SB<br>SC<br>SD<br>SE<br>SF<br>SG<br>SH<br>SI<br>SJ<br>SK<br>SL<br>SM<br>SN<br>SO<br>SP<br>SQ<br>SR<br>SS<br>ST<br>SU<br>SV<br>SW<br>SX<br>SY<br>SZ<br>TA<br>TB<br>TC<br>TD<br>TE<br>TF<br>TG<br>TH<br>TI<br>TJ<br>TK<br>TL<br>TM<br>TN<br>TO<br>TP<br>TQ<br>TR<br>TS<br>TT<br>TU<br>TV<br>TW<br>TX<br>TY<br>TZ<br>UA<br>UB<br>UC<br>UD<br>UE<br>UF<br>UG<br>UH<br>UI<br>UJ<br>UK<br>UL<br>UM<br>UN<br>UO<br>UP<br>UQ<br>UR<br>US<br>UT<br>UU<br>UV<br>UW<br>UX<br>UY<br>UZ<br>VA<br>VB<br>VC<br>VD<br>VE<br>VF<br>VG<br>VH<br>VI<br>VJ<br>VK<br>VL<br>VM<br>VN<br>VO<br>VP<br>VQ<br>VR<br>VS<br>VT<br>VU<br>VV<br>VW<br>VX<br>VY<br>VZ<br>WA<br>WB<br>WC<br>WD<br>WE<br>WF<br>WG<br>WH<br>WI<br>WJ<br>WK<br>WL<br>WM<br>WN<br>WO<br>WP<br>WQ<br>WR<br>WS<br>WT<br>WU<br>WV<br>WW<br>WX<br>WY<br>WZ<br>XA<br>XB<br>XC<br>XD<br>XE<br>XF<br>XG<br>XH<br>XI<br>XJ<br>XK<br>XL<br>XM<br>XN<br>XO<br>XP<br>XQ<br>XR<br>XS<br>XT<br>XU<br>XV<br>XW<br>XX<br>XY<br>XZ<br>YA<br>YB<br>YC<br>YD<br>YE<br>YF<br>YG<br>YH<br>YI<br>YJ<br>YK<br>YL<br>YM<br>YN<br>YO<br>YP<br>YQ<br>YR<br>YS<br>YT<br>YU<br>YV<br>YW<br>YX<br>YZ<br>ZA<br>ZB<br>ZC<br>ZD<br>ZE<br>ZF<br>ZG<br>ZH<br>ZI<br>ZJ<br>ZK<br>ZL<br>ZM<br>ZN<br>ZO<br>ZP<br>ZQ<br>ZR<br>ZS<br>ZT<br>ZU<br>ZV<br>ZW<br>ZX<br>ZY<br>ZZ | Technology Type Mix: 0.0000 | UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY | PLANT NAME | SEG. NAME | EQPT | CODE | PRIMARY | FEEDER  | EXTENSION | SUB-    | DISTRIBUTION NETWORK | INTERFACE | TOTAL LOOP | WEIGHTED TOTAL LOOP |
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| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ITEM DESCRIPTION            |                                                                     |            |           |      |      |         |         |           |         |                      |           |            |                     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>SHARED RESOURCES</b>     |                                                                     |            |           |      |      |         |         |           |         |                      |           |            |                     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | LAND                        | 20C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BUILDING                    | 10C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BLDG ENTRANCE CABLE         | 12C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | INTRABLDG CABLE             | 52C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AERIAL CABLE (COPPER)       | 22C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BURIED CABLE (COPPER)       | 45C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UNDERGROUND (CU) CA.        | 5C                                                                  |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - LOW CAP TERM      | 257C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - LOW CAP CHAN      | 257C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - HI CAP TERM       | 857C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - HI CAP CHAN       | 857C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - ANALOG SW         | 77C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - DIGITAL SW        | 377C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AERIAL CABLE (FIBER)        | 822C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BURIED CABLE (FIBER)        | 845C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UNDERGROUND (FO) CA.        | 85C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CONNECTORS                  | 57C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MISC. COM EQP & PWR         | 57C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | POLE LINE                   | 1C                                                                  |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CONDUIT                     | 4C                                                                  |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                                                     |            |           |      |      |         |         |           |         |                      |           |            |                     |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>DIRECT RESOURCES</b>     |                                                                     |            |           |      |      |         |         |           |         |                      |           |            |                     |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LAND                        | 20C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BUILDING                    | 10C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BLDG ENTRANCE CABLE         | 12C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 2.40   | \$ 2.40    | \$ 0.0000           |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | INTRABLDG CABLE             | 52C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AERIAL CABLE (COPPER)       | 22C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 1.27   | \$ 4.55 | \$ 0.00              | \$ 5.82   | \$ 0.0000  | \$ 0.0000           |
| 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BURIED CABLE (COPPER)       | 45C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.13   | \$ 3.25 | \$ 0.00              | \$ 3.38   | \$ 0.0000  | \$ 0.0000           |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UNDERGROUND (CU) CA.        | 5C                                                                  |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 2.52   | \$ 0.45 | \$ 0.00              | \$ 2.97   | \$ 0.0000  | \$ 0.0000           |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - P GAIN TERM       | 257C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - P GAIN CHAN       | 257C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - FO MUX TERM       | 857C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - FO MUX CHAN       | 857C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - ANALOG SW         | 77C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CO EQPT - DIGITAL SW        | 377C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AERIAL CABLE (FIBER)        | 822C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BURIED CABLE (FIBER)        | 845C                                                                |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UNDERGROUND (FO) CA.        | 85C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CONNECTORS                  | 57C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MISC. COM EQP & PWR         | 57C                                                                 |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000           |
| 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | POLE LINE                   | 1C                                                                  |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 1.39    | \$ 0.0000           |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CONDUIT                     | 4C                                                                  |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 0.89   | \$ 0.16 | \$ 0.00              | \$ 1.05   | \$ 0.00    | \$ 0.0000           |
| 47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                                                     |            |           |      |      |         |         |           |         |                      |           |            |                     |
| 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SPAN SUMMARY                |                                                                     |            |           |      |      | \$ 0.00 | \$ 0.00 | \$ 5.50   | \$ 9.50 | \$ 2.40              | \$ 17.01  | \$ 0.00    | \$ 0.00             |
| 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TECHNOLOGY DESIGN SUMMARY   |                                                                     |            |           |      |      |         |         |           |         |                      |           | \$ 17.01   |                     |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                                                     |            |           |      |      |         |         |           |         |                      |           |            |                     |
| 51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                                                     |            |           |      |      |         |         |           |         |                      |           |            |                     |
| 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                                                     |            |           |      |      |         |         |           |         |                      |           |            |                     |
| 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                                                     |            |           |      |      |         |         |           |         |                      |           |            |                     |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                                                     |            |           |      |      |         |         |           |         |                      |           |            |                     |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                                                     |            |           |      |      |         |         |           |         |                      |           |            |                     |

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| LOOP COST ANALYSIS TOOL                  |  |  |  |  |  |  |  |  |  | Belcore®                                                   |     |
|------------------------------------------|--|--|--|--|--|--|--|--|--|------------------------------------------------------------|-----|
| PROSPECTIVE INVESTMENT WORKSHEET SUMMARY |  |  |  |  |  |  |  |  |  | LCAT Rel: 1.0.4                                            |     |
| C:\123R24\LCATR072\RESULTS1              |  |  |  |  |  |  |  |  |  | Issued: 7/31/95                                            |     |
| OUTPLT - WORKSHEET D                     |  |  |  |  |  |  |  |  |  | STUDY YR: 1996                                             |     |
| SHEET 4 of 10                            |  |  |  |  |  |  |  |  |  | TEST CASE: 1                                               |     |
| COMPANY: CINCINNATI BELL TEL             |  |  |  |  |  |  |  |  |  | RUN DATE: 27-Jan-97                                        |     |
| CITY / AREA: CINCINNATI                  |  |  |  |  |  |  |  |  |  | TIME: 08:13                                                |     |
| STATE / PROV: OHIO                       |  |  |  |  |  |  |  |  |  |                                                            |     |
| JOB IDENT: CINCINNATI                    |  |  |  |  |  |  |  |  |  |                                                            |     |
| CIRCUIT DESIGN: 1 FOMUX                  |  |  |  |  |  |  |  |  |  |                                                            |     |
| LOOP SPAN DIVISION: ALL LOOP SPANS       |  |  |  |  |  |  |  |  |  |                                                            |     |
| SERVICE CLASS: BAND 2 - RESIDENCE LIN    |  |  |  |  |  |  |  |  |  |                                                            |     |
| TOTAL LOOP LENGTH: 8534 FEET             |  |  |  |  |  |  |  |  |  |                                                            |     |
| Circuit Design Mix: 0.0000               |  |  |  |  |  |  |  |  |  | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |     |
| PLANT NAME                               |  |  |  |  |  |  |  |  |  | TOTAL                                                      |     |
| SEG. NAME                                |  |  |  |  |  |  |  |  |  | WEIGHTED                                                   |     |
| EQPT                                     |  |  |  |  |  |  |  |  |  | TOTAL                                                      |     |
| PLANT                                    |  |  |  |  |  |  |  |  |  | LOOP                                                       |     |
| CODE                                     |  |  |  |  |  |  |  |  |  | LOOP                                                       |     |
| ITEM DESCRIPTION                         |  |  |  |  |  |  |  |  |  |                                                            |     |
| <b>SHARED RESOURCES</b>                  |  |  |  |  |  |  |  |  |  |                                                            |     |
| LAND                                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| BUILDING                                 |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| BLDG ENTRANCE CABLE                      |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| INTRABLDG CABLE                          |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| AERIAL CABLE (COPPER)                    |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| BURIED CABLE (COPPER)                    |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| UNDERGROUND (CU) CA.                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - LOW CAP TERM                   |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - LOW CAP CHAN                   |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - HI CAP TERM                    |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - HI CAP CHAN                    |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - ANALOG SW                      |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - DIGITAL SW                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| AERIAL CABLE (FIBER)                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| BURIED CABLE (FIBER)                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| UNDERGROUND (FO) CA.                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CONNECTORS                               |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| MISC. COM EQP & PWR                      |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| POLE LINE                                |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CONDUIT                                  |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| <b>DIRECT RESOURCES</b>                  |  |  |  |  |  |  |  |  |  |                                                            |     |
| LAND                                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| BUILDING                                 |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| BLDG ENTRANCE CABLE                      |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| INTRABLDG CABLE                          |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| AERIAL CABLE (COPPER)                    |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| BURIED CABLE (COPPER)                    |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| UNDERGROUND (CU) CA.                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - LOW CAP TERM                   |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - LOW CAP CHAN                   |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - HI CAP TERM                    |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - HI CAP CHAN                    |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - ANALOG SW                      |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CO EQPT - DIGITAL SW                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| AERIAL CABLE (FIBER)                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| BURIED CABLE (FIBER)                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| UNDERGROUND (FO) CA.                     |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CONNECTORS                               |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| MISC. COM EQP & PWR                      |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| POLE LINE                                |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| CONDUIT                                  |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
| SPAN SUMMARY                             |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
|                                          |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |
|                                          |  |  |  |  |  |  |  |  |  | \$0                                                        | \$0 |

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GC:\123R24\LCATR072\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 6 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Bellicore**LCAT Rel: 1.0.4  
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 3 FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 8534 FEETSTUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:13

| Circuit Design Mix : 1.00001 |      | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |           |         |                      |         | TOTAL    | WEIGHTED |
|------------------------------|------|------------------------------------------------------------|-----------|---------|----------------------|---------|----------|----------|
| PLANT NAME                   |      | FEEDER                                                     |           |         | DISTRIBUTION NETWORK |         | LOOP     | TOTAL    |
| SEG. NAME                    |      | PRIMARY                                                    | EXTENSION | SUB-    | INTERFACE            |         | LOOP     | LOOP     |
| EQPT                         |      |                                                            |           |         |                      |         |          |          |
| CODE                         |      |                                                            |           |         |                      |         |          |          |
| PLANT                        |      |                                                            |           |         |                      |         |          |          |
| ITEM DESCRIPTION             |      |                                                            |           |         |                      |         |          |          |
| SHARED RESOURCES             |      |                                                            |           |         |                      |         |          |          |
| LAND                         | 20C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| BUILDING                     | 10C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| BLDG ENTRANCE CABLE          | 12C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| INTRABLDG CABLE              | 52C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| AERIAL CABLE (COPPER)        | 22C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| BURIED CABLE (COPPER)        | 45C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| UNDERGROUND (CU) CA.         | 5C   | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CO EQPT - LOW CAP TERM       | 257C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CO EQPT - LOW CAP CHAN       | 257C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CO EQPT - HI CAP TERM        | 857C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CO EQPT - HI CAP CHAN        | 857C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CO EQPT - ANALOG SW          | 77C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CO EQPT - DIGITAL SW         | 377C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| AERIAL CABLE (FIBER)         | 822C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| BURIED CABLE (FIBER)         | 845C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| UNDERGROUND (FO) CA.         | 85C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CONNECTORS                   | 57C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| MISC. COM EQP & PWR          | 57C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| POLE LINE                    | 1C   | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CONDUIT                      | 4C   | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
|                              |      |                                                            |           |         |                      |         |          |          |
| DIRECT RESOURCES             |      |                                                            |           |         |                      |         |          |          |
| LAND                         | 20C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| BUILDING                     | 10C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| BLDG ENTRANCE CABLE          | 12C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              | \$ 2.40 | \$ 2.40  | \$ 2.40  |
| INTRABLDG CABLE              | 52C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| AERIAL CABLE (COPPER)        | 22C  | \$ 0.00                                                    |           | \$ 1.27 | \$ 4.55              |         | \$ 5.82  | \$ 5.82  |
| BURIED CABLE (COPPER)        | 45C  | \$ 0.00                                                    |           | \$ 0.13 | \$ 3.25              |         | \$ 3.38  | \$ 3.38  |
| UNDERGROUND (CU) CA.         | 5C   | \$ 0.00                                                    |           | \$ 2.52 | \$ 0.45              |         | \$ 2.97  | \$ 2.97  |
| CO EQPT - LOW CAP TERM       | 257C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CO EQPT - LOW CAP CHAN       | 257C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CO EQPT - HI CAP TERM        | 857C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CO EQPT - HI CAP CHAN        | 857C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CO EQPT - ANALOG SW          | 77C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CO EQPT - DIGITAL SW         | 377C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| AERIAL CABLE (FIBER)         | 822C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| BURIED CABLE (FIBER)         | 845C | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| UNDERGROUND (FO) CA.         | 85C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| CONNECTORS                   | 57C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| MISC. COM EQP & PWR          | 57C  | \$ 0.00                                                    |           | \$ 0.00 | \$ 0.00              |         | \$ 0.00  | \$ 0.00  |
| POLE LINE                    | 1C   | \$ 0.00                                                    |           | \$ 0.30 | \$ 1.09              |         | \$ 1.39  | \$ 1.39  |
| CONDUIT                      | 4C   | \$ 0.00                                                    |           | \$ 0.89 | \$ 0.16              |         | \$ 1.05  | \$ 1.05  |
|                              |      |                                                            |           |         |                      |         |          |          |
| SPAN SUMMARY                 |      | \$ 0.00                                                    | \$ 0.00   | \$ 5.11 | \$ 9.50              | \$ 2.40 | \$ 17.01 | \$ 17.01 |
|                              |      |                                                            |           |         |                      |         | \$ 17.01 |          |

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| GTR/CB/C |  | CIN123R24\LCATR072\RESULTS1<br>OUTPUT - WORKSHEET D<br>SHEET 7 of 10                  |         | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE INVESTMENT WORKSHEET SUMMARY |      |                     |          | Bellcore <sup>®</sup><br>LCAT Rel: 1.0.4<br>Issued: 7/31/95 |     |
|----------|--|---------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------|------|---------------------|----------|-------------------------------------------------------------|-----|
|          |  | COMPANY: CINCINNATI BELL TEL                                                          |         | CIRCUIT DESIGN: 4 FOMUX                                             |      | STUDY YR: 1996      |          |                                                             |     |
|          |  | CITY / AREA: CINCINNATI                                                               |         | LOOP SPAN DIVISION: ALL LOOP SPANS                                  |      | TEST CASE: 1        |          |                                                             |     |
|          |  | STATE / PROV: OHIO                                                                    |         | SERVICE CLASS: BAND 2 - RESIDENCE LIN                               |      | RUN DATE: 27-Jan-97 |          |                                                             |     |
|          |  | JOB IDENT: CINCINNATI                                                                 |         | TOTAL LOOP LENGTH: 8534 FEET                                        |      | TIME: 08:13         |          |                                                             |     |
| 0        |  | Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |         |                                                                     |      |                     |          |                                                             |     |
| 1        |  | PLANT NAME                                                                            | FEEDER  | DISTRIBUTION NETWORK                                                |      | TOTAL               | WEIGHTED |                                                             |     |
| 2        |  | SEG. NAME                                                                             | PRIMARY | EXTENSION                                                           | SUB- | LOOP                | TOTAL    |                                                             |     |
| 3        |  | EQPT                                                                                  |         |                                                                     |      |                     | LOOP     |                                                             |     |
| 4        |  | CODE                                                                                  |         |                                                                     |      |                     | LOOP     |                                                             |     |
| 5        |  | PLANT                                                                                 |         |                                                                     |      |                     | LOOP     |                                                             |     |
| 6        |  | ITEM DESCRIPTION                                                                      |         |                                                                     |      |                     | LOOP     |                                                             |     |
| 7        |  | <u>SHARED RESOURCES</u>                                                               |         |                                                                     |      |                     |          |                                                             |     |
| 8        |  | LAND                                                                                  | 20C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 9        |  | BUILDING                                                                              | 10C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 10       |  | BLDG ENTRANCE CABLE                                                                   | 12C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 11       |  | INTRABLDG CABLE                                                                       | 52C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 12       |  | AERIAL CABLE (COPPER)                                                                 | 22C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 13       |  | BURIED CABLE (COPPER)                                                                 | 45C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 14       |  | UNDERGROUND (CU) CA.                                                                  | 5C      |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 15       |  | CO EQPT - LOW CAP TERM                                                                | 257C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 16       |  | CO EQPT - LOW CAP CHAN                                                                | 257C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 17       |  | CO EQPT - HI CAP TERM                                                                 | 857C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 18       |  | CO EQPT - HI CAP CHAN                                                                 | 857C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 19       |  | CO EQPT - ANALOG SW                                                                   | 77C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 20       |  | CO EQPT - DIGITAL SW                                                                  | 377C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 21       |  | AERIAL CABLE (FIBER)                                                                  | 822C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 22       |  | BURIED CABLE (FIBER)                                                                  | 845C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 23       |  | UNDERGROUND (FO) CA.                                                                  | 85C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 24       |  | CONNECTORS                                                                            | 57C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 25       |  | MISC. COM EQP & PWR                                                                   | 57C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 26       |  | POLE LINE                                                                             | 1C      |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 27       |  | CONDUIT                                                                               | 4C      |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 28       |  |                                                                                       |         |                                                                     |      |                     |          |                                                             |     |
| 29       |  | <u>DIRECT RESOURCES</u>                                                               |         |                                                                     |      |                     |          |                                                             |     |
| 30       |  | LAND                                                                                  | 20C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 31       |  | BUILDING                                                                              | 10C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 32       |  | BLDG ENTRANCE CABLE                                                                   | 12C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 33       |  | INTRABLDG CABLE                                                                       | 52C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 34       |  | AERIAL CABLE (COPPER)                                                                 | 22C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 35       |  | BURIED CABLE (COPPER)                                                                 | 45C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 36       |  | UNDERGROUND (CU) CA.                                                                  | 5C      |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 37       |  | CO EQPT - LOW CAP TERM                                                                | 257C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 38       |  | CO EQPT - LOW CAP CHAN                                                                | 257C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 39       |  | CO EQPT - HI CAP TERM                                                                 | 857C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 40       |  | CO EQPT - HI CAP CHAN                                                                 | 857C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 41       |  | CO EQPT - ANALOG SW                                                                   | 77C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 42       |  | CO EQPT - DIGITAL SW                                                                  | 377C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 43       |  | AERIAL CABLE (FIBER)                                                                  | 822C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 44       |  | BURIED CABLE (FIBER)                                                                  | 845C    |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 45       |  | UNDERGROUND (FO) CA.                                                                  | 85C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 46       |  | CONNECTORS                                                                            | 57C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 47       |  | MISC. COM EQP & PWR                                                                   | 57C     |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 48       |  | POLE LINE                                                                             | 1C      |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 49       |  | CONDUIT                                                                               | 4C      |                                                                     |      | \$0                 | \$C      |                                                             |     |
| 50       |  |                                                                                       |         |                                                                     |      |                     |          |                                                             |     |
| 51       |  | SPAN SUMMARY                                                                          |         | \$0                                                                 | \$0  | \$0                 | \$0      | \$0                                                         | \$C |
| 52       |  |                                                                                       |         |                                                                     |      |                     |          |                                                             |     |
| 53       |  |                                                                                       |         |                                                                     |      |                     |          |                                                             |     |
| 54       |  |                                                                                       |         |                                                                     |      |                     |          |                                                             |     |
| 55       |  |                                                                                       |         |                                                                     |      |                     |          |                                                             |     |

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GC:\123R24\LCATR072\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 8 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore

LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE:  
RUN DATE: 27-Jan-97  
TIME: 08:12COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 5 FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 8534 FEET

| Circuit Design Mix: 0.0000 |           | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |        |           |       |                                   | TOTAL<br>LOOP | WEIGHTED<br>TOTAL<br>LOOP |
|----------------------------|-----------|------------------------------------------------------------|--------|-----------|-------|-----------------------------------|---------------|---------------------------|
| PLANT NAME                 | SEG. NAME | PRIMARY                                                    | FEEDER | EXTENSION | SUB-- | DISTRIBUTION NETWORK<br>INTERFACE |               |                           |
| EQPT                       | CODE      |                                                            |        |           |       |                                   |               |                           |
| PLANT                      |           |                                                            |        |           |       |                                   |               |                           |
| ITEM DESCRIPTION           |           |                                                            |        |           |       |                                   |               |                           |
| <b>7 SHARED RESOURCES</b>  |           |                                                            |        |           |       |                                   |               |                           |
| 8 LAND                     | 20C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 9 BUILDING                 | 10C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 10 BLDG ENTRANCE CABLE     | 12C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 11 INTRABLDG CABLE         | 52C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 12 AERIAL CABLE (COPPER)   | 22C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 13 BURIED CABLE (COPPER)   | 45C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 14 UNDERGROUND (CU) CA.    | 5C        |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 15 CO EQPT - LOW CAP TERM  | 257C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 16 CO EQPT - LOW CAP CHAN  | 257C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 17 CO EQPT - HI CAP TERM   | 857C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 18 CO EQPT - HI CAP CHAN   | 857C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 19 CO EQPT - ANALOG SW     | 77C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 20 CO EQPT - DIGITAL SW    | 377C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 21 AERIAL CABLE (FIBER)    | 822C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 22 BURIED CABLE (FIBER)    | 845C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 23 UNDERGROUND (FO) CA.    | 85C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 24 CONNECTORS              | 57C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 25 MISC. COM EQP & PWR     | 57C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 26 POLE LINE               | 1C        |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 27 CONDUIT                 | 4C        |                                                            |        |           |       |                                   | \$0           | \$0                       |
| <b>29 DIRECT RESOURCES</b> |           |                                                            |        |           |       |                                   |               |                           |
| 30 LAND                    | 20C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 31 BUILDING                | 10C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 32 BLDG ENTRANCE CABLE     | 12C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 33 INTRABLDG CABLE         | 52C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 34 AERIAL CABLE (COPPER)   | 22C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 35 BURIED CABLE (COPPER)   | 45C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 36 UNDERGROUND (CU) CA.    | 5C        |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 37 CO EQPT - LOW CAP TERM  | 257C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 38 CO EQPT - LOW CAP CHAN  | 257C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 39 CO EQPT - HI CAP TERM   | 857C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 40 CO EQPT - HI CAP CHAN   | 857C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 41 CO EQPT - ANALOG SW     | 77C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 42 CO EQPT - DIGITAL SW    | 377C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 43 AERIAL CABLE (FIBER)    | 822C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 44 BURIED CABLE (FIBER)    | 845C      |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 45 UNDERGROUND (FO) CA.    | 85C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 46 CONNECTORS              | 57C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 47 MISC. COM EQP & PWR     | 57C       |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 48 POLE LINE               | 1C        |                                                            |        |           |       |                                   | \$0           | \$0                       |
| 49 CONDUIT                 | 4C        |                                                            |        |           |       |                                   | \$0           | \$0                       |
| SPAN SUMMARY               |           | \$0                                                        | \$0    | \$0       | \$0   | \$0                               | \$0           | \$0                       |
|                            |           |                                                            |        |           |       |                                   | \$0           | \$0                       |

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| A B C D E F G |  | CA123R24\LCAT072\RESULTS1<br>OUTPUT - WORKSHEET D<br>SHEET 9 of 10                    |         | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE INVESTMENT WORKSHEET SUMMARY |      |                     |          | Bellcore <sup>®</sup><br>LCAT Rel: 1.0.4<br>Issued: 7/31/95 |  |
|---------------|--|---------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------|------|---------------------|----------|-------------------------------------------------------------|--|
|               |  | COMPANY: CINCINNATI BELL TEL.                                                         |         | CIRCUIT DESIGN: 6 FOMUX                                             |      | STUDY YR: 1996      |          |                                                             |  |
|               |  | CITY / AREA: CINCINNATI                                                               |         | LOOP SPAN DIVISION: ALL LOOP SPANS                                  |      | TEST CASE: 1        |          |                                                             |  |
|               |  | STATE / PROV: OHIO                                                                    |         | SERVICE CLASS: BAND 2 - RESIDENCE LIN                               |      | RUN DATE: 27-Jan-97 |          |                                                             |  |
|               |  | JOB IDENT: CINCINNATI                                                                 |         | TOTAL LOOP LENGTH: 8534 FEET                                        |      | TIME: 08:13         |          |                                                             |  |
| 0             |  | Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |         |                                                                     |      |                     |          |                                                             |  |
| 1             |  | PLANT NAME                                                                            | FEEDER  | DISTRIBUTION NETWORK                                                |      | TOTAL               | WEIGHTED |                                                             |  |
| 2             |  | SEG. NAME                                                                             | PRIMARY | EXTENSION                                                           | SUB- | INTERFACE           | LOOP     | TOTAL                                                       |  |
| 3             |  | EQPT                                                                                  |         |                                                                     |      |                     |          | LOOP                                                        |  |
| 4             |  | CODE                                                                                  |         |                                                                     |      |                     |          |                                                             |  |
| 5             |  | PLANT                                                                                 |         |                                                                     |      |                     |          |                                                             |  |
| 6             |  | ITEM DESCRIPTION                                                                      |         |                                                                     |      |                     |          |                                                             |  |
| 7             |  | <b>SHARED RESOURCES</b>                                                               |         |                                                                     |      |                     |          |                                                             |  |
| 8             |  | LAND                                                                                  | 20C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 9             |  | BUILDING                                                                              | 10C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 10            |  | BLDG ENTRANCE CABLE                                                                   | 12C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 11            |  | INTRABLDG CABLE                                                                       | 52C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 12            |  | AERIAL CABLE (COPPER)                                                                 | 22C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 13            |  | BURIED CABLE (COPPER)                                                                 | 45C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 14            |  | UNDERGROUND (CU) CA.                                                                  | 5C      |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 15            |  | CO EQPT - LOW CAP TERM                                                                | 257C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 16            |  | CO EQPT - LOW CAP CHAN                                                                | 257C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 17            |  | CO EQPT - HI CAP TERM                                                                 | 857C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 18            |  | CO EQPT - HI CAP CHAN                                                                 | 857C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 19            |  | CO EQPT - ANALOG SW                                                                   | 77C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 20            |  | CO EQPT - DIGITAL SW                                                                  | 377C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 21            |  | AERIAL CABLE (FIBER)                                                                  | 822C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 22            |  | BURIED CABLE (FIBER)                                                                  | 845C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 23            |  | UNDERGROUND (FO) CA.                                                                  | 85C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 24            |  | CONNECTORS                                                                            | 57C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 25            |  | MISC. COM EQP & PWR                                                                   | 57C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 26            |  | POLE LINE                                                                             | 1C      |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 27            |  | CONDUIT                                                                               | 4C      |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 28            |  |                                                                                       |         |                                                                     |      |                     |          |                                                             |  |
| 29            |  | <b>DIRECT RESOURCES</b>                                                               |         |                                                                     |      |                     |          |                                                             |  |
| 30            |  | LAND                                                                                  | 20C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 31            |  | BUILDING                                                                              | 10C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 32            |  | BLDG ENTRANCE CABLE                                                                   | 12C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 33            |  | INTRABLDG CABLE                                                                       | 52C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 34            |  | AERIAL CABLE (COPPER)                                                                 | 22C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 35            |  | BURIED CABLE (COPPER)                                                                 | 45C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 36            |  | UNDERGROUND (CU) CA.                                                                  | 5C      |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 37            |  | CO EQPT - LOW CAP TERM                                                                | 257C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 38            |  | CO EQPT - LOW CAP CHAN                                                                | 257C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 39            |  | CO EQPT - HI CAP TERM                                                                 | 857C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 40            |  | CO EQPT - HI CAP CHAN                                                                 | 857C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 41            |  | CO EQPT - ANALOG SW                                                                   | 77C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 42            |  | CO EQPT - DIGITAL SW                                                                  | 377C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 43            |  | AERIAL CABLE (FIBER)                                                                  | 822C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 44            |  | BURIED CABLE (FIBER)                                                                  | 845C    |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 45            |  | UNDERGROUND (FO) CA.                                                                  | 85C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 46            |  | CONNECTORS                                                                            | 57C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 47            |  | MISC. COM EQP & PWR                                                                   | 57C     |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 48            |  | POLE LINE                                                                             | 1C      |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 49            |  | CONDUIT                                                                               | 4C      |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 50            |  |                                                                                       |         |                                                                     |      |                     |          |                                                             |  |
| 51            |  | SPAN SUMMARY                                                                          |         | \$0                                                                 | \$0  | \$0                 | \$0      | \$0                                                         |  |
| 52            |  |                                                                                       |         |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 53            |  |                                                                                       |         |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 54            |  |                                                                                       |         |                                                                     |      |                     | \$0      | \$0                                                         |  |
| 55            |  |                                                                                       |         |                                                                     |      |                     | \$0      | \$0                                                         |  |

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A  
B  
C  
D  
E  
F  
GC:\123R24\LCATR072\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 10 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore

LCAT Ref: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:13COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELDED FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 8534 FEET

| Technology Type Mix: 1.0000 |            | UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |           |                      |         |           |            | TECHNOLOGY |
|-----------------------------|------------|---------------------------------------------------------------------|-----------|----------------------|---------|-----------|------------|------------|
|                             |            | FEEDER                                                              |           | DISTRIBUTION NETWORK |         | INTERFACE |            | WEIGHTED   |
| PLANT                       | PLANT NAME | PRIMARY                                                             | EXTENSION | SUB-                 |         |           | TOTAL LOOP | TOTAL LOOP |
| ITEM DESCRIPTION            | EQPT CODE  |                                                                     |           |                      |         |           |            |            |
| <b>SHARED RESOURCES</b>     |            |                                                                     |           |                      |         |           |            |            |
| LAND                        | 20C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| BUILDING                    | 10C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| BLDG ENTRANCE CABLE         | 12C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| INTRABLDG CABLE             | 52C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| AERIAL CABLE (COPPER)       | 22C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| BURIED CABLE (COPPER)       | 45C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| UNDERGROUND (CU) CA.        | 5C         | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CO EQPT - LOW CAP TERM      | 257C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CO EQPT - LOW CAP CHAN      | 257C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CO EQPT - HI CAP TERM       | 857C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CO EQPT - HI CAP CHAN       | 857C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CO EQPT - ANALOG SW         | 77C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CO EQPT - DIGITAL SW        | 377C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| AERIAL CABLE (FIBER)        | 822C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| BURIED CABLE (FIBER)        | 845C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| UNDERGROUND (FO) CA.        | 85C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CONNECTORS                  | 57C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| MISC. COM EQP & PWR         | 57C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| POLE LINE                   | 1C         | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CONDUIT                     | 4C         | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| <b>DIRECT RESOURCES</b>     |            |                                                                     |           |                      |         |           |            |            |
| LAND                        | 20C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| BUILDING                    | 10C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| BLDG ENTRANCE CABLE         | 12C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 2.40   | \$ 2.40    | \$ 2.3950  |
| INTRABLDG CABLE             | 52C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| AERIAL CABLE (COPPER)       | 22C        | \$ 0.00                                                             | \$ 0.00   | \$ 1.27              | \$ 4.55 | \$ 0.00   | \$ 5.82    | \$ 5.8200  |
| BURIED CABLE (COPPER)       | 45C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.13              | \$ 3.25 | \$ 0.00   | \$ 3.38    | \$ 3.3800  |
| UNDERGROUND (CU) CA.        | 5C         | \$ 0.00                                                             | \$ 0.00   | \$ 2.52              | \$ 0.45 | \$ 0.00   | \$ 2.97    | \$ 2.9700  |
| CO EQPT - LOW CAP TERM      | 257C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CO EQPT - LOW CAP CHAN      | 257C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CO EQPT - HI CAP TERM       | 857C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CO EQPT - HI CAP CHAN       | 857C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CO EQPT - ANALOG SW         | 77C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CO EQPT - DIGITAL SW        | 377C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| AERIAL CABLE (FIBER)        | 822C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| BURIED CABLE (FIBER)        | 845C       | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| UNDERGROUND (FO) CA.        | 85C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| CONNECTORS                  | 57C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| MISC. COM EQP & PWR         | 57C        | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 0.00    | \$ 0.0000  |
| POLE LINE                   | 1C         | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00 | \$ 0.00   | \$ 1.39    | \$ 1.3900  |
| CONDUIT                     | 4C         | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.16 | \$ 0.00   | \$ 1.05    | \$ 1.0500  |
| SPAN SUMMARY                |            | \$ 0.00                                                             | \$ 0.00   | \$ 5.50              | \$ 9.50 | \$ 2.40   | \$ 17.01   | \$ 17.01   |
|                             |            |                                                                     |           |                      |         |           | \$ 17.01   |            |

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RUN - DIST PLNT

LCAT

LAST UPDATE

## LOOP COST ANALYSIS TOOL

Release: 1.0.4

27-Jan-97

Issued: 8/31/95

07:37

## DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 0 - 1

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

|           |           |           |          |
|-----------|-----------|-----------|----------|
| BASIS     | NETWORK   | TEST CASE | 1        |
| FR / DS   | FLAT RATE | #BANDS    | 0        |
| SVC LEVEL | NARBAND   | #CKTS     | 1        |
| CST METH  | UN INCR   | INV LEVEL | ANN COST |

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| LOOP COST ANALYSIS TOOL                                                                    |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               | Bellcore            |  |
|--------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-----------------------------------------------|---------------------|--|
| BASIC INVESTMENT WORKSHEET                                                                 |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               | LCAT Release: 1.0.4 |  |
| SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL                       |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               | Issue Date: 8/31/95 |  |
| FACILITY TYPE: COPPER CABLE                                                                |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               | STUDY YR: 1996      |  |
| CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC.)                                 |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               | TEST CASE: 1        |  |
| SERVICE CLASS: BAND 2 - RESIDENCE LINE                                                     |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               | RUN DATE: 27-Jan-97 |  |
|                                                                                            |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               | TIME: 08:07         |  |
| COMPANY: CINCINNATI BELL TEL.                                                              |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| CITY / AREA: CINCINNATI                                                                    |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| STATE / PROV: OHIO                                                                         |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| SEGMENT LENGTH<br>IN FEET                                                                  | TYPE OF<br>CABLE<br>PLANT | FROM<br>- TABLE 2 -<br>RELATIVE<br>MIX OF<br>TYPE OF<br>CA. PLANT<br>[B] | LENGTH<br>SUBSET<br>BY TYPE<br>OF PLANT<br>[C=A*B] | FROM<br>- TABLE 4 -<br>CABLE<br>INVESTMENT<br>PER<br>PAIR FOOT<br>[D] | CABLE<br>INVESTMENT<br>PER PAIR<br>[E=C*D] | (NOTE 4)<br>WEIGHTED<br>TERMINAL<br>INVESTMENT<br>[F=E*fctr] | AIR DRYER<br>INVESTMENT<br>PER PAIR<br>[F=E*fctr] | DROP WIRE<br>ADJUSTMENT<br>PER PAIR<br>[F=E*fctr] | (NOTE 4)<br>WEIGHTED<br>DROPPED<br>INVESTMENT |                     |  |
| 1836.0                                                                                     | AERIAL                    | 0.620000                                                                 | 1138.3                                             | 0.042600                                                              | 48.49                                      |                                                              | 0.00                                              | 0.00                                              |                                               |                     |  |
| CONSIDERS:                                                                                 | BURIED                    | 0.330000                                                                 | 605.9                                              | 0.066800                                                              | 40.47                                      |                                                              | 0.00                                              | 0.00                                              |                                               |                     |  |
| MELDED                                                                                     |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| COPPER                                                                                     | UNDERGRND                 | 0.050000                                                                 | 91.8                                               | 0.058000                                                              | 5.32                                       |                                                              | 0.00                                              | 0.00                                              |                                               |                     |  |
| CABLE                                                                                      |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| Check =                                                                                    |                           | 1.000000                                                                 | 1836.0                                             |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| OUTSIDE PLANT LOADINGS (NOTE 4)                                                            |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| DROP WIRE ADJUSTMENT:                                                                      |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| AERIAL CA. =                                                                               | 0.0000                    | AIR DRYER LOADINGS:                                                      |                                                    | AERIAL CA. =                                                          |                                            | 0.0000                                                       |                                                   |                                                   |                                               |                     |  |
| BURIED CA. =                                                                               | 0.0000                    | BURIED CA. =                                                             |                                                    | 0.0000                                                                |                                            | 0.0000                                                       |                                                   |                                                   |                                               |                     |  |
| UNDERGRND =                                                                                | 0.0000                    | UNDERGRND =                                                              |                                                    | 0.0000                                                                |                                            | 0.0000                                                       |                                                   |                                                   |                                               |                     |  |
| OTHER INVESTMENT                                                                           |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| inv / unit lgth: inv rfrn fctr:                                                            |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| POLE LINE FACTOR (PLF) =                                                                   | 0.0000                    |                                                                          | 0.2530                                             |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =                                         | \$ 35.05                  |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| UG CONDUIT FACTOR (UCF) =                                                                  | 0.0000                    |                                                                          | 0.5165                                             |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) =                                            | \$ 7.86                   |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| FOOTNOTES                                                                                  |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.                              |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A.                                      |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO  |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |
| (SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET)                                        |                           |                                                                          |                                                    |                                                                       |                                            |                                                              |                                                   |                                                   |                                               |                     |  |

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GM123R24/LCATCALC/DIST  
DIST. PLNT - WORKSHEET A  
Sheet 2 of 3

**LOOP COST ANALYSIS TOOL**  
ACCOUNT INVESTMENT WORKSHEET  
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL  
FACILITY TYPE : COPPER CABLE  
CIRCUIT SEGMENT : DISTRIBUTION PLANT (NON-DLC/NON-COLLOC)  
SERVICE CLASS : BAND 2 - RESIDENCE LINE

COMPANY: CINCINNATI BELL TEL.  
CITY/AREA: CINCINNATI  
STATE/PROV: OHIO

LCAT Release: 1.0.4  
Issue Date: 8/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:07

| PLANT ITEM                                                                                           | PLANT ACCT CODE | CAT. FIXED VAR | RESOURCE ALLOCATION | 1996 UNIT INVESTMENT BY ACCOUNT | CIRCUIT QUANTITY [G] | 1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION |                           | ADMIN. UTIL. LINE FILL [J] | 1996 UNIT LOOP INVESTMENT INCL. UTILIZATION |                            |
|------------------------------------------------------------------------------------------------------|-----------------|----------------|---------------------|---------------------------------|----------------------|---------------------------------------------|---------------------------|----------------------------|---------------------------------------------|----------------------------|
|                                                                                                      |                 |                |                     | COST EQUATION [F]               |                      | SHARED RESOURCES [H=F*G]                    | DIRECT RESOURCES [H'=F*G] |                            | SHARED RESOURCES [K=H/J]                    | DIRECT RESOURCES [K'=H'/J] |
| 8 LAND                                                                                               | 20C             | F              | SHARED              |                                 |                      |                                             |                           | 1.0000                     |                                             |                            |
| 9 BUILDING                                                                                           | 10C             | F              | SHARED              |                                 |                      |                                             |                           | 1.0000                     |                                             |                            |
| 10 BLDG ENTRANCE CABLE                                                                               | 12C             | V              | DIRECT              |                                 |                      |                                             |                           | 1.0000                     |                                             |                            |
| 11 INTRABLDG CABLE                                                                                   | 52C             | V              | DIRECT              |                                 |                      |                                             |                           | 0.3500                     |                                             |                            |
| 12 AERIAL CABLE (COPPER)                                                                             | 22C             | V              | DIRECT              | 48.49                           | 1                    |                                             | \$ 48                     | 0.3500                     |                                             | \$ 139                     |
| 13 BURIED CABLE (COPPER)                                                                             | 45C             | V              | DIRECT              | 40.47                           | 1                    |                                             | \$ 40                     | 0.3500                     |                                             | \$ 116                     |
| 14 UNDERGROUND (CU) CA.                                                                              | 5C              | V              | DIRECT              | 5.32                            | 1                    |                                             | \$ 5                      | 0.3500                     |                                             | \$ 15                      |
| 15 CO EQPT - P GAIN TERM                                                                             | 257C            | F              | DIRECT              |                                 |                      |                                             |                           | 0.7000                     |                                             |                            |
| 16 CO EQPT - P GAIN CHAN                                                                             | 257C            | V              | DIRECT              |                                 |                      |                                             |                           | 0.7000                     |                                             |                            |
| 17 CO EQPT - FO MUX TERM                                                                             | 857C            | F              | DIRECT              |                                 |                      |                                             |                           | 1.0000                     |                                             |                            |
| 18 CO EQPT - FO MUX CHAN                                                                             | 857C            | F              | DIRECT              |                                 |                      |                                             |                           | 1.0000                     |                                             |                            |
| 19 CO EQPT - ANALOG SW                                                                               | 77C             | V              | DIRECT              |                                 |                      |                                             |                           | 1.0000                     |                                             |                            |
| 20 CO EQPT - DIGITAL SW                                                                              | 377C            | V              | DIRECT              |                                 |                      |                                             |                           | 1.0000                     |                                             |                            |
| 21 AERIAL CABLE (FIBER)                                                                              | 822C            | F              | DIRECT              |                                 |                      |                                             |                           | 0.0000                     |                                             |                            |
| 22 BURIED CABLE (FIBER)                                                                              | 845C            | F              | DIRECT              |                                 |                      |                                             |                           | 0.0000                     |                                             |                            |
| 23 UNDERGROUND (FO) CA.                                                                              | 85C             | F              | DIRECT              |                                 |                      |                                             |                           | 0.0000                     |                                             |                            |
| 24 CONNECTORS                                                                                        | 57C             | V              | DIRECT              |                                 |                      |                                             |                           | 1.0000                     |                                             |                            |
| 25 MISC. COM EQP & PWR                                                                               | 57C             | V              | SHARED              |                                 |                      |                                             |                           | 1.0000                     |                                             |                            |
| 26 POLE LINE                                                                                         | 1C              | F              | DIRECT              | 35.05                           | 1                    |                                             | \$ 35                     | 1.0000                     |                                             | \$ 35                      |
| 27 CONDUIT                                                                                           | 4C              | F              | DIRECT              | 7.86                            | 1                    |                                             | \$ 8                      | 1.0000                     |                                             | \$ 8                       |
| 28                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 29                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 30                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 31                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 32                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 33                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 34                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 35                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 36                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 37                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 38                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 39                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 40                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 41                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 42                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 43                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 44                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 45                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 46                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 47                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 48                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 49 FOOTNOTES                                                                                         |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 50 NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F') AND H(H') ARE CAUSED BY COMPUTER ROUNDING. |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 51 NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.                                                           |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 52 AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;                           |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 53 CO EQPT - ESS = CONNECTORS + MISC. CP&E.                                                          |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 54                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |
| 55                                                                                                   |                 |                |                     |                                 |                      |                                             |                           |                            |                                             |                            |

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| LOOP COST ANALYSIS TOOL                                                        |                 |                      |                                                          |                            |                                                                   |                                   |                                                               |                                              |                             | Belcore (R)         |  |
|--------------------------------------------------------------------------------|-----------------|----------------------|----------------------------------------------------------|----------------------------|-------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------|----------------------------------------------|-----------------------------|---------------------|--|
| PROSPECTIVE AND ANNUAL COSTS WORKSHEET                                         |                 |                      |                                                          |                            |                                                                   |                                   |                                                               |                                              |                             | LCAT Release: 1.0.4 |  |
| SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL           |                 |                      |                                                          |                            |                                                                   |                                   |                                                               |                                              |                             | Issue Date: 8/31/95 |  |
| FACILITY TYPE: COPPER CABLE                                                    |                 |                      |                                                          |                            |                                                                   |                                   |                                                               |                                              |                             | STUDY YR: 1996      |  |
| CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)                      |                 |                      |                                                          |                            |                                                                   |                                   |                                                               |                                              |                             | TEST CASE: 1        |  |
| SERVICE CLASS: BAND 2 - RESIDENCE LINE                                         |                 |                      |                                                          |                            |                                                                   |                                   |                                                               |                                              |                             | RUN DATE: 27-Jan-97 |  |
|                                                                                |                 |                      |                                                          |                            |                                                                   |                                   |                                                               |                                              |                             | TIME: 06:07         |  |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                 |                      |                                                          |                            |                                                                   |                                   |                                                               |                                              |                             |                     |  |
| PLANT ITEM                                                                     | PLANT ACCT CODE | 1996 TO 1996 TPI [L] | 1996 UNIT LOOP INVESTMENT BY ACCOUNT                     |                            | ANNUAL COST FACTOR [N]                                            | 1996 UNIT ANNUAL COSTS BY ACCOUNT |                                                               | 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT |                             |                     |  |
|                                                                                |                 |                      | SHARED RESOURCES [M=K*L]                                 | DIRECT RESOURCES [M'=K'*L] |                                                                   | SHARED RESOURCES [P=M*N]          | DIRECT RESOURCES [P'=M'*N]                                    | SHARED RESOURCES [R=P/12]                    | DIRECT RESOURCES [R'=P'/12] |                     |  |
| LAND                                                                           | 20C             | 1.0000               |                                                          |                            | 0.2232                                                            |                                   |                                                               |                                              |                             |                     |  |
| BUILDING                                                                       | 10C             | 1.0000               |                                                          |                            | 0.2847                                                            |                                   |                                                               |                                              |                             |                     |  |
| BLDG ENTRANCE CABLE                                                            | 12C             | 1.0000               |                                                          |                            | 0.3832                                                            |                                   |                                                               |                                              |                             |                     |  |
| INTRABLDG CABLE                                                                | 52C             | 1.0000               |                                                          |                            | 0.3832                                                            |                                   |                                                               |                                              |                             |                     |  |
| AERIAL CABLE (COPPER)                                                          | 22C             | 1.0000               |                                                          | \$ 139                     | 0.3943                                                            |                                   | \$ 54.83                                                      |                                              | \$ 4.55                     |                     |  |
| BURIED CABLE (COPPER)                                                          | 45C             | 1.0000               |                                                          | \$ 116                     | 0.3377                                                            |                                   | \$ 39.05                                                      |                                              | \$ 3.25                     |                     |  |
| UNDERGROUND (CU) CA.                                                           | 5C              | 1.0000               |                                                          | \$ 15                      | 0.3573                                                            |                                   | \$ 5.44                                                       |                                              | \$ 0.45                     |                     |  |
| CO EQPT - P GAIN TERM                                                          | 257C            | 1.0000               |                                                          |                            | 0.3791                                                            |                                   |                                                               |                                              |                             |                     |  |
| CO EQPT - P GAIN CHAN                                                          | 257C            | 1.0000               |                                                          |                            | 0.3791                                                            |                                   |                                                               |                                              |                             |                     |  |
| CO EQPT - FO MUX TERM                                                          | 857C            | 1.0000               |                                                          |                            | 0.3791                                                            |                                   |                                                               |                                              |                             |                     |  |
| CO EQPT - FO MUX CHAN                                                          | 857C            | 1.0000               |                                                          |                            | 0.3791                                                            |                                   |                                                               |                                              |                             |                     |  |
| CO EQPT - ANALOG SW                                                            | 77C             | 1.0000               |                                                          |                            | 0.0000                                                            |                                   |                                                               |                                              |                             |                     |  |
| CO EQPT - DIGITAL SW                                                           | 377C            | 1.0000               |                                                          |                            | 0.3368                                                            |                                   |                                                               |                                              |                             |                     |  |
| AERIAL CABLE (FIBER)                                                           | 822C            | 1.0000               |                                                          |                            | 0.2893                                                            |                                   |                                                               |                                              |                             |                     |  |
| BURIED CABLE (FIBER)                                                           | 845C            | 1.0000               |                                                          |                            | 0.2634                                                            |                                   |                                                               |                                              |                             |                     |  |
| UNDERGROUND (FO) CA.                                                           | 85C             | 1.0000               |                                                          |                            | 0.2599                                                            |                                   |                                                               |                                              |                             |                     |  |
| CONNECTORS                                                                     | 57C             | 1.0000               |                                                          |                            | 0.3791                                                            |                                   |                                                               |                                              |                             |                     |  |
| MISC. COM EQP & PWR                                                            | 57C             | 1.0000               |                                                          |                            | 0.3791                                                            |                                   |                                                               |                                              |                             |                     |  |
| POLE LINE                                                                      | 1C              | 1.0000               |                                                          | \$ 35                      | 0.3717                                                            |                                   | \$ 3.03                                                       |                                              | \$ 1.09                     |                     |  |
| CONDUIT                                                                        | 4C              | 1.0000               |                                                          | \$ 8                       | 0.2431                                                            |                                   | \$ 1.91                                                       |                                              | \$ 0.16                     |                     |  |
| TOTALS                                                                         |                 |                      | \$ 0      \$ 312<br>\$ 312<br>distshrinv      distdirinv |                            | \$ 0.00      \$ 114.06<br>\$ 114.06<br>distshrinv      distdirinv |                                   | \$ 0.00      \$ 9.50<br>\$ 9.50<br>distshrinv      distdirinv |                                              |                             |                     |  |

FOOTNOTES  
 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.  
 NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION, THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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DIST\_PLNT - WORKSHEET B  
Sheet 1 of 3

# LOOP COST ANALYSIS TOOL BASIC INVESTMENT WORKSHEET

Belcore (R)

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - RESIDENCE LINE

Release: 1.0.4  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:07

| TYPE OF PLANT<br>ITEM | UNIT<br>PLANT<br>INVEST.<br>[A] | PROB.<br>OF<br>OCCURANCE<br>[B] | WEIGHTED<br>TERMINAL<br>INVESTMENT<br>[C=A*B] |
|-----------------------|---------------------------------|---------------------------------|-----------------------------------------------|
| INTRABLDG CABLE       | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| BLDG ENTRANCE CABLE   | \$ 75.00                        | 1.0000                          | \$ 75.00                                      |
| AERIAL TERMINAL       | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| BURIED TERMINAL       | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| AERIAL DROP WIRE      | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| BURIED DROP WIRE      | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| COAXIAL DROP          | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |

POLE LINE FACTOR (PLF) =

from length: 0.0000  
from invest.: 0.2530

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00

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## FOOTNOTES

NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.

NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS

C:\123R24\LCATCALC\DIST  
DIST\_PLNT - WORKSHEET B  
Sheet 2 of 3

### LOOP COST ANALYSIS TOOL

#### ACCOUNT INVESTMENT WORKSHEET

Bellcore

LCAT

Release: 1.0.4

STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:07

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS  
SERVICE CLASS: BAND 2 - RESIDENCE LINE

| PLANT ITEM            | PLANT ACCT CODE | CAT. FIXED RESOURCE VARI | ALLOCATION | 1996 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F] | CIRCUIT QUANTITY [G] | 1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION |                            | ADMIN. UTIL. LINE FILL [J] | 1996 UNIT LOOP INVESTMENT INCL. UTILIZATION |                            |
|-----------------------|-----------------|--------------------------|------------|---------------------------------------------------|----------------------|---------------------------------------------|----------------------------|----------------------------|---------------------------------------------|----------------------------|
|                       |                 |                          |            |                                                   |                      | SHARED RESOURCES [H=F*G]                    | DIRECT RESOURCES [H'=F'*G] |                            | SHARED RESOURCES [K=H/J]                    | DIRECT RESOURCES [K'=H'/J] |
| LAND                  | 20C             | F                        | SHARED     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| BUILDING              | 10C             | F                        | SHARED     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| BLDG ENTRANCE CABLE   | 12C             | V                        | DIRECT     | 75.00                                             | 1                    |                                             | \$ 75                      | 1.0000                     |                                             | \$ 75                      |
| INTRABLDG CABLE       | 52C             | V                        | DIRECT     | 0.00                                              |                      |                                             |                            | 0.3500                     |                                             |                            |
| AERIAL CABLE (COPPER) | 22C             | V                        | DIRECT     | 0.00                                              |                      |                                             |                            | 0.3500                     |                                             |                            |
| BURIED CABLE (COPPER) | 45C             | V                        | DIRECT     | 0.00                                              |                      |                                             |                            | 0.3500                     |                                             |                            |
| UNDERGROUND (CU) CA.  | 5C              | V                        | DIRECT     |                                                   |                      |                                             |                            | 0.3500                     |                                             |                            |
| CO EQPT - P GAIN TERM | 257C            | F                        | DIRECT     |                                                   |                      |                                             |                            | 0.7000                     |                                             |                            |
| CO EQPT - P GAIN CHAN | 257C            | V                        | DIRECT     |                                                   |                      |                                             |                            | 0.7000                     |                                             |                            |
| CO EQPT - FO MUX TERM | 857C            | F                        | DIRECT     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| CO EQPT - FO MUX CHAN | 857C            | F                        | DIRECT     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| CO EQPT - ANALOG SW   | 77C             | V                        | DIRECT     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| CO EQPT - DIGITAL SW  | 377C            | V                        | DIRECT     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| AERIAL CABLE (FIBER)  | 822C            | F                        | DIRECT     |                                                   |                      |                                             |                            | 0.0000                     |                                             |                            |
| BURIED CABLE (FIBER)  | 845C            | F                        | DIRECT     |                                                   |                      |                                             |                            | 0.0000                     |                                             |                            |
| UNDERGROUND (FO) CA.  | 85C             | F                        | DIRECT     |                                                   |                      |                                             |                            | 0.0000                     |                                             |                            |
| CONNECTORS            | 57C             | V                        | DIRECT     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| MISC. COM EQP & PWR   | 57C             | V                        | SHARED     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |
| POLE LINE             | 1C              | F                        | DIRECT     | 0.00                                              |                      |                                             |                            | 1.0000                     |                                             |                            |
| CONDUIT               | 4C              | F                        | DIRECT     |                                                   |                      |                                             |                            | 1.0000                     |                                             |                            |

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## FOOTNOTES

NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F) AND H(H') ARE CAUSED BY COMPUTER ROUNDING.

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;  
CO EQPT - ESS = CONNECTORS + MISC. CP&E.



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DIST\_PLNT - WORKSHEET B  
Sheet 1 of 3

# LOOP COST ANALYSIS TOOL

## BASIC INVESTMENT WORKSHEET

Bellcore®

LCAT

Release: 1.0.4

1996

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - RESIDENCE LINE

STUDY YR: 1996  
TEST CASE:  
RUN DATE: 27-Jan-97  
TIME: 08:08

| TYPE OF PLANT<br>ITEM | UNIT<br>PLANT<br>INVEST.<br>[A] | PROB.<br>OF<br>OCCURANCE<br>[B] | WEIGHTED<br>TERMINAL<br>INVESTMENT<br>[C=A*B] |
|-----------------------|---------------------------------|---------------------------------|-----------------------------------------------|
| INTRABLDG CABLE       | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| BLDG ENTRANCE CABLE   | \$ 75.00                        | 1.0000                          | \$ 75.00                                      |
| AERIAL TERMINAL       | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| BURIED TERMINAL       | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| AERIAL DROP WIRE      | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| BURIED DROP WIRE      | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| COAXIAL DROP          | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |

POLE LINE FACTOR (PLF) =

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =

from invest  
\$ 0.00

\$ 0.00

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## FOOTNOTES

NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.

NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS

C:\123R24\LCATCALC\DIST  
DIST\_PLINT - WORKSHEET B  
Sheet 2 of 3

**LOOP COST ANALYSIS TOOL**  
ACCOUNT INVESTMENT WORKSHEET

Bellcore<sup>®</sup>

LCAT

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 27-Jan-97

TIME: 08:08

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - RESIDENCE LINE

| PLANT ITEM            | PLANT<br>ACCT<br>CODE | CAT.<br>FIXED RESOURCE<br>VARI ALLOCATION | 1996 UNIT<br>INVESTMENT<br>BY ACCOUNT<br>COST<br>EQUATION<br>[F] | CIRCUIT<br>QUANTITY<br>[G] | 1996 UNIT<br>LOOP INVESTMENT<br>EXCL. UTILIZATION |                                  | ADMIN.<br>UTIL.<br>LINE<br>FILL<br>[J] | 1996 UNIT<br>LOOP INVESTMENT<br>INCL. UTILIZATION |                                  |
|-----------------------|-----------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------|---------------------------------------------------|----------------------------------|----------------------------------------|---------------------------------------------------|----------------------------------|
|                       |                       |                                           |                                                                  |                            | SHARED<br>RESOURCES<br>[H=F*G]                    | DIRECT<br>RESOURCES<br>[H'=F'*G] |                                        | SHARED<br>RESOURCES<br>[K=H/J]                    | DIRECT<br>RESOURCES<br>[K'=H'/J] |
| LAND                  | 20C                   | F                                         | SHARED                                                           |                            |                                                   |                                  | 1.0000                                 |                                                   |                                  |
| BUILDING              | 10C                   | F                                         | SHARED                                                           |                            |                                                   |                                  | 1.0000                                 |                                                   |                                  |
| BLDG ENTRANCE CABLE   | 12C                   | V                                         | DIRECT                                                           | 75.00                      | 1                                                 | \$ 75                            | 1.0000                                 |                                                   | \$ 75                            |
| INTRABLDG CABLE       | 52C                   | V                                         | DIRECT                                                           | 0.00                       |                                                   |                                  | 0.3500                                 |                                                   |                                  |
| AERIAL CABLE (COPPER) | 22C                   | V                                         | DIRECT                                                           | 0.00                       |                                                   |                                  | 0.3500                                 |                                                   |                                  |
| BURIED CABLE (COPPER) | 45C                   | V                                         | DIRECT                                                           | 0.00                       |                                                   |                                  | 0.3500                                 |                                                   |                                  |
| UNDERGROUND (CU) CA.  | 5C                    | V                                         | DIRECT                                                           |                            |                                                   |                                  | 0.3500                                 |                                                   |                                  |
| CO EQPT - P GAIN TERM | 257C                  | F                                         | DIRECT                                                           |                            |                                                   |                                  | 0.7000                                 |                                                   |                                  |
| CO EQPT - P GAIN CHAN | 257C                  | V                                         | DIRECT                                                           |                            |                                                   |                                  | 0.7000                                 |                                                   |                                  |
| CO EQPT - FO MUX TERM | 857C                  | F                                         | DIRECT                                                           |                            |                                                   |                                  | 1.0000                                 |                                                   |                                  |
| CO EQPT - FO MUX CHAN | 857C                  | F                                         | DIRECT                                                           |                            |                                                   |                                  | 1.0000                                 |                                                   |                                  |
| CO EQPT - ANALOG SW   | 77C                   | V                                         | DIRECT                                                           |                            |                                                   |                                  | 1.0000                                 |                                                   |                                  |
| CO EQPT - DIGITAL SW  | 377C                  | V                                         | DIRECT                                                           |                            |                                                   |                                  | 1.0000                                 |                                                   |                                  |
| AERIAL CABLE (FIBER)  | 822C                  | F                                         | DIRECT                                                           |                            |                                                   |                                  | 0.0000                                 |                                                   |                                  |
| BURIED CABLE (FIBER)  | 845C                  | F                                         | DIRECT                                                           |                            |                                                   |                                  | 0.0000                                 |                                                   |                                  |
| UNDERGROUND (FO) CA.  | 85C                   | F                                         | DIRECT                                                           |                            |                                                   |                                  | 0.0000                                 |                                                   |                                  |
| CONNECTORS            | 57C                   | V                                         | DIRECT                                                           |                            |                                                   |                                  | 1.0000                                 |                                                   |                                  |
| MISC. COM EQP & PWR   | 57C                   | V                                         | SHARED                                                           |                            |                                                   |                                  | 1.0000                                 |                                                   |                                  |
| POLE LINE             | 1C                    | F                                         | DIRECT                                                           | 0.00                       |                                                   |                                  | 1.0000                                 |                                                   |                                  |
| CONDUIT               | 4C                    | F                                         | DIRECT                                                           |                            |                                                   |                                  | 1.0000                                 |                                                   |                                  |

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\$ 0 \$ 75  
\$ 75  
activity

## FOOTNOTES

NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F') AND H(H') ARE CAUSED BY COMPUTER ROUNDING.

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;

CO EQPT - ESS = CONNECTORS + MISC. CP&amp;E.

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DIST\_PLNT - WORKSHEET B  
Sheet 3 of 3

# LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Belcore (R)

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS  
SERVICE CLASS: BAND 2 - RESIDENCE LINE

Release: 1.0.4  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:08

| PLANT ITEM            | PLANT ACCT CODE | 1996 TO 1996 TPI | 1996 UNIT LOOP INVESTMENT BY ACCOUNT |                            | ANNUAL COST FACTOR [N] | 1996 UNIT ANNUAL COSTS BY ACCOUNT |                            | 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT |                             |
|-----------------------|-----------------|------------------|--------------------------------------|----------------------------|------------------------|-----------------------------------|----------------------------|----------------------------------------------|-----------------------------|
|                       |                 |                  | SHARED RESOURCES [M=K*L]             | DIRECT RESOURCES [M'=K'*L] |                        | SHARED RESOURCES [P=M*N]          | DIRECT RESOURCES [P'=M'*N] | SHARED RESOURCES [R=P/12]                    | DIRECT RESOURCES [R'=P'/12] |
| LAND                  | 20C             | 1.0000           |                                      |                            | 0.2232                 |                                   |                            |                                              |                             |
| BUILDING              | 10C             | 1.0000           |                                      |                            | 0.2847                 |                                   |                            |                                              |                             |
| BLDG ENTRANCE CABLE   | 12C             | 1.0000           |                                      | \$ 75                      | 0.3832                 |                                   | \$ 28.74                   |                                              | \$ 2.40                     |
| INTRABLDG CABLE       | 52C             | 1.0000           |                                      |                            | 0.3832                 |                                   |                            |                                              |                             |
| AERIAL CABLE (COPPER) | 22C             | 1.0000           |                                      |                            | 0.3943                 |                                   |                            |                                              |                             |
| BURIED CABLE (COPPER) | 45C             | 1.0000           |                                      |                            | 0.3377                 |                                   |                            |                                              |                             |
| UNDERGROUND (CU) CA.  | 5C              | 1.0000           |                                      |                            | 0.3573                 |                                   |                            |                                              |                             |
| CO EQPT - P GAIN TERM | 257C            | 1.0000           |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| CO EQPT - P GAIN CHAN | 257C            | 1.0000           |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| CO EQPT - FO MUX TERM | 857C            | 1.0000           |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| CO EQPT - FO MUX CHAN | 857C            | 1.0000           |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| CO EQPT - ANALOG SW   | 77C             | 1.0000           |                                      |                            | 0.0000                 |                                   |                            |                                              |                             |
| CO EQPT - DIGITAL SW  | 377C            | 1.0000           |                                      |                            | 0.3368                 |                                   |                            |                                              |                             |
| AERIAL CABLE (FIBER)  | 822C            | 1.0000           |                                      |                            | 0.2893                 |                                   |                            |                                              |                             |
| BURIED CABLE (FIBER)  | 845C            | 1.0000           |                                      |                            | 0.2634                 |                                   |                            |                                              |                             |
| UNDERGROUND (FO) CA.  | 85C             | 1.0000           |                                      |                            | 0.2599                 |                                   |                            |                                              |                             |
| CONNECTORS            | 57C             | 1.0000           |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| MISC. COM EQP & PWR   | 57C             | 1.0000           |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| POLE LINE             | 1C              | 1.0000           |                                      |                            | 0.3717                 |                                   |                            |                                              |                             |
| CONDUIT               | 4C              | 1.0000           |                                      |                            | 0.2451                 |                                   |                            |                                              |                             |
| TOTALS                |                 |                  | \$ 0                                 | \$ 75                      |                        | \$ 0.00                           | \$ 28.74                   | \$ 0.00                                      | \$ 2.40                     |
|                       |                 |                  |                                      | \$ 75                      |                        |                                   | \$ 28.74                   |                                              | \$ 2.40                     |

## FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.  
NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION.  
THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

| LOOP COST ANALYSIS TOOL                                      |                       |       |         | Bellicore <sup>®</sup> |         |
|--------------------------------------------------------------|-----------------------|-------|---------|------------------------|---------|
| PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                     |                       |       |         | LCAT Release: 1.0.4    |         |
| COMPANY: CINCINNATI BELL TEL                                 |                       |       |         | Issue Date: 8/31/95    |         |
| CITY / AREA: CINCINNATI                                      |                       |       |         | STUDY YR: 1996         |         |
| STATE / PROV: OHIO                                           |                       |       |         | TEST CASE: 1           |         |
| FACILITY TYPE: COPPER CABLE                                  |                       |       |         | RUN DATE: 27-Jan-97    |         |
| CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DIG, NON-COLLO)     |                       |       |         | TIME: 08:08            |         |
| SERVICE CLASS: BAND 2 - RESIDENCE LINE                       |                       |       |         |                        |         |
| 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT                  |                       |       |         | (See Note)             |         |
|                                                              | PLANT                 | BAND  |         | TOTAL                  |         |
|                                                              | ACCT                  | MIX   | 1.0000  | AVG. WEIGHTED          |         |
|                                                              | CODE                  | AVG.  | 8534    | INVESTMENT             |         |
|                                                              | SEG. LGTH.            | LGTH. | 1836.0  |                        | 1836    |
| <b>SHARED RESOURCES</b>                                      |                       |       |         |                        |         |
| 7                                                            | LAND                  | 20C   |         |                        | \$ 0.00 |
| 8                                                            | BUILDING              | 10C   |         |                        | \$ 0.00 |
| 9                                                            | BLDG ENTRANCE CABLE   | 12C   |         |                        | \$ 0.00 |
| 10                                                           | INTRABLDG CABLE       | 52C   |         |                        | \$ 0.00 |
| 11                                                           | AERIAL CABLE (COPPER) | 22C   |         |                        | \$ 0.00 |
| 12                                                           | BURIED CABLE (COPPER) | 45C   |         |                        | \$ 0.00 |
| 13                                                           | UNDERGROUND (CU) CA.  | 5C    |         |                        | \$ 0.00 |
| 14                                                           | CO EQPT - P GAIN TERM | 257C  |         |                        | \$ 0.00 |
| 15                                                           | CO EQPT - P GAIN CHAN | 257C  |         |                        | \$ 0.00 |
| 16                                                           | CO EQPT - FO MUX TERM | 857C  |         |                        | \$ 0.00 |
| 17                                                           | CO EQPT - FO MUX CHAN | 857C  |         |                        | \$ 0.00 |
| 18                                                           | CO EQPT - ANALOG SW   | 77C   |         |                        | \$ 0.00 |
| 19                                                           | CO EQPT - DIGITAL SW  | 377C  |         |                        | \$ 0.00 |
| 20                                                           | AERIAL CABLE (FIBER)  | 822C  |         |                        | \$ 0.00 |
| 21                                                           | BURIED CABLE (FIBER)  | 845C  |         |                        | \$ 0.00 |
| 22                                                           | UNDERGROUND (FO) CA.  | 85C   |         |                        | \$ 0.00 |
| 23                                                           | CONNECTORS            | 57C   |         |                        | \$ 0.00 |
| 24                                                           | MISC. COM EQP & PWR   | 57C   |         |                        | \$ 0.00 |
| 25                                                           | POLE LINE             | 1C    |         |                        | \$ 0.00 |
| 26                                                           | CONDUIT               | 4C    |         |                        | \$ 0.00 |
| <b>DIRECT RESOURCES</b>                                      |                       |       |         |                        |         |
| 29                                                           | LAND                  | 20C   |         |                        | \$ 0.00 |
| 30                                                           | BUILDING              | 10C   |         |                        | \$ 0.00 |
| 31                                                           | BLDG ENTRANCE CABLE   | 12C   |         |                        | \$ 0.00 |
| 32                                                           | INTRABLDG CABLE       | 52C   |         |                        | \$ 0.00 |
| 33                                                           | AERIAL CABLE (COPPER) | 22C   | \$ 4.55 |                        | \$ 4.55 |
| 34                                                           | BURIED CABLE (COPPER) | 45C   | \$ 3.25 |                        | \$ 3.25 |
| 35                                                           | UNDERGROUND (CU) CA.  | 5C    | \$ 0.45 |                        | \$ 0.45 |
| 36                                                           | CO EQPT - P GAIN TERM | 257C  |         |                        | \$ 0.00 |
| 37                                                           | CO EQPT - P GAIN CHAN | 257C  |         |                        | \$ 0.00 |
| 38                                                           | CO EQPT - FO MUX TERM | 857C  |         |                        | \$ 0.00 |
| 39                                                           | CO EQPT - FO MUX CHAN | 857C  |         |                        | \$ 0.00 |
| 40                                                           | CO EQPT - ANALOG SW   | 77C   |         |                        | \$ 0.00 |
| 41                                                           | CO EQPT - DIGITAL SW  | 377C  |         |                        | \$ 0.00 |
| 42                                                           | AERIAL CABLE (FIBER)  | 822C  |         |                        | \$ 0.00 |
| 43                                                           | BURIED CABLE (FIBER)  | 845C  |         |                        | \$ 0.00 |
| 44                                                           | UNDERGROUND (FO) CA.  | 85C   |         |                        | \$ 0.00 |
| 45                                                           | CONNECTORS            | 57C   |         |                        | \$ 0.00 |
| 46                                                           | MISC. COM EQP & PWR   | 57C   |         |                        | \$ 0.00 |
| 47                                                           | POLE LINE             | 1C    | \$ 1.09 |                        | \$ 1.09 |
| 48                                                           | CONDUIT               | 4C    | \$ 0.16 |                        | \$ 0.16 |
| SPAN SUMMARY                                                 |                       |       |         | \$ 9.50                | \$ 0.00 |
| AVG. WTD. SPAN SUMMARY                                       |                       |       |         | \$ 9.50                | \$ 0.00 |
| NOTE: [sum(INV <sub>ACCT</sub> BAND * MIX <sub>BAND</sub> )] |                       |       |         |                        | \$ 9.50 |

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DIST PLNT - REPORT 14B

Sheet 1 of 1

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

# LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - RESIDENCE LINE

Bellcore®

LCAT

Release: 1.0.4

STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:08

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

ALL

| PLANT ITEM | PLANT<br>ACCT<br>CODE | BAND<br>MIX<br>AVG.<br>LGTH. |
|------------|-----------------------|------------------------------|
|------------|-----------------------|------------------------------|

## SHARED RESOURCES

|    |                       |      |
|----|-----------------------|------|
| 7  | LAND                  | 20C  |
| 8  | BUILDING              | 10C  |
| 9  | BLDG ENTRANCE CABLE   | 12C  |
| 10 | INTRABLDG CABLE       | 52C  |
| 11 | AERIAL CABLE (COPPER) | 22C  |
| 12 | BURIED CABLE (COPPER) | 45C  |
| 13 | UNDERGROUND (CU) CA.  | 5C   |
| 14 | CO EQPT - P GAIN TERM | 257C |
| 15 | CO EQPT - P GAIN CHAN | 257C |
| 16 | CO EQPT - FO MUX TERM | 857C |
| 17 | CO EQPT - FO MUX CHAN | 857C |
| 18 | CO EQPT - ANALOG SW   | 77C  |
| 19 | CO EQPT - DIGITAL SW  | 377C |
| 20 | AERIAL CABLE (FIBER)  | 822C |
| 21 | BURIED CABLE (FIBER)  | 845C |
| 22 | UNDERGROUND (FO) CA.  | 85C  |
| 23 | CONNECTORS            | 57C  |
| 24 | MISC. COM EQP & PWR   | 57C  |
| 25 | POLE LINE             | 1C   |
| 26 | CONDUIT               | 4C   |

## DIRECT RESOURCES

|    |                       |      |
|----|-----------------------|------|
| 29 | LAND                  | 20C  |
| 30 | BUILDING              | 10C  |
| 31 | BLDG ENTRANCE CABLE   | 12C  |
| 32 | INTRABLDG CABLE       | 52C  |
| 33 | AERIAL CABLE (COPPER) | 22C  |
| 34 | BURIED CABLE (COPPER) | 45C  |
| 35 | UNDERGROUND (CU) CA.  | 5C   |
| 36 | CO EQPT - P GAIN TERM | 257C |
| 37 | CO EQPT - P GAIN CHAN | 257C |
| 38 | CO EQPT - FO MUX TERM | 857C |
| 39 | CO EQPT - FO MUX CHAN | 857C |
| 40 | CO EQPT - ANALOG SW   | 77C  |
| 41 | CO EQPT - DIGITAL SW  | 377C |
| 42 | AERIAL CABLE (FIBER)  | 822C |
| 43 | BURIED CABLE (FIBER)  | 845C |
| 44 | UNDERGROUND (FO) CA.  | 85C  |
| 45 | CONNECTORS            | 57C  |
| 46 | MISC. COM EQP & PWR   | 57C  |
| 47 | POLE LINE             | 1C   |
| 48 | CONDUIT               | 4C   |

SPAN TOTAL

2.40

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RUN - SUB PRI

Bellcore (R)

LCAT

Release: 1.0.4

Issued: 7/31/95

LAST UPDATE

27-Jan-97

07:38

## LOOP COST ANALYSIS TOOL

## FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 0 - 14

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

|           |           |           |          |
|-----------|-----------|-----------|----------|
| BASIS     | NETWORK   | TEST CASE | 1        |
| FR / DS   | FLAT RATE | # BANDS   | 0        |
| SVC LEVEL | NAR BAND  | # CKTS    | 1        |
| CST METH  | UN INSR   | INV LEVEL | ANN COST |

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SUB\_PRI - WORKSHEET

Sheet 1 of 3

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

## LOOP COST ANALYSIS TOOL

## BASIC INVESTMENT WORKSHEET

CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

FACILITY TYPE: COPPER CABLE

CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY

Bellcore (A)

LCAT Release: 1.0.4

Issue Date: 7/31/95

STUDY YR: 1995

TEST CASE: 1

RUN DATE: 27-Jan-97

TIME: 08:09

SERVICE CLASS: BAND 2 - RESIDENCE LINE

| SEGMENT<br>LENGTH<br>IN FEET | TYPE OF<br>CABLE<br>PLANT | FROM<br>TABLE 2 --<br>RELATIVE<br>MIX OF<br>TYPE OF<br>CA. PLANT |         | FROM<br>TABLE 4 --<br>M/D CABLE<br>DESIGN<br>INVEST. PER<br>PAIR FOOT |       | CABLE COMPONENTS                               |                                     |                                                 |                                                             |
|------------------------------|---------------------------|------------------------------------------------------------------|---------|-----------------------------------------------------------------------|-------|------------------------------------------------|-------------------------------------|-------------------------------------------------|-------------------------------------------------------------|
|                              |                           | [B]                                                              |         | [D]                                                                   |       | WEIGHTED<br>TERMINAL<br>INVESTMENT<br>[UI*DTG] | AIR DRYER<br>INVESTMENT<br>PER PAIR | DROP WIRE<br>ADJUSTMENT<br>PER PAIR<br>[E*fcfr] | WEIGHTED<br>DROP WIRE<br>ADJUSTMENT<br>PER PAIR<br>[UI*DTG] |
| [A]                          |                           |                                                                  | [C=A*B] |                                                                       |       |                                                |                                     |                                                 |                                                             |
| 6698                         | AERIAL                    | 0.290000                                                         | 1942.42 | 0.011900                                                              | 23.11 |                                                | 0.00                                | 0.00                                            |                                                             |
| MELDED GAUGE/S/<br>COPPER    | BURIED                    | 0.020000                                                         | 133.96  | 0.020500                                                              | 2.75  |                                                | 0.00                                | 0.00                                            |                                                             |
| CABLE                        | UNDERGRD                  | 0.690000                                                         | 4621.62 | 0.011000                                                              | 50.84 |                                                | 0.00                                | 0.00                                            |                                                             |
| CHECK =                      |                           | 1.000000                                                         |         |                                                                       |       |                                                |                                     |                                                 |                                                             |

## ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS

INVESTMENT PER CIRCUIT TERMINATION

(CO CONN) CONNECTORS (col77c) =

\$ 0.00

inv / unit lgh: inv rtrn fcfr:

0.000000 0.253000

POLE LINE FACTOR =

\$ 9.75

POLE LINE INVESTMENT =

(UTIL AERIAL INVEST x PL)

UG CONDUIT FACTOR =

0.000000 0.516500

CONDUIT INVESTMENT =

\$ 43.76

(UTIL UNDGRD INVEST x UC)

MISC. COMMON EQPT. &amp; POWER FACTOR =

0.112700

MCE&amp;P INVESTMENT (CO CONN x FACTOR) =

\$ 0.00

LAND FACTOR =

0.00560

LAND INVST (CO CONN + MCE&amp;P) x FACTOR =

\$ 0.00

BUILDING FACTOR =

0.13160

BLDG INVST (CO CONN + MCEP) x FACTOR =

\$ 0.00

PERCENT OF CO CONN AT DIGITAL SWITCHES

100.0000

PERCENT OF CO CONN AT ANALOG SWITCHES

0.0000

## FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING.

NOTE 2: E \* fcfr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB)

NOTE 3: UI \* DTG = UNIT INVESTMENT x PROBABILITY OF OCCURRENCE.

NOTE 4: MATRIX 2 &amp; 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5, #6).

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SUB\_PRI - WORKSHEET  
Sheet 2 of 3

## LOOP COST ANALYSIS TOOL

Bellcore (R)

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

ACCOUNT INVESTMENT WORKSHEET  
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS  
FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY

LCAT Release: 1.0.4  
Issue Date: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 06:09

SERVICE CLASS: BAND 2 - RESIDENCE LINE

| PLANT ITEM                | PLANT ACCT CODE | FIXED VARI CAT. | RESOURCE ALLOCATION T | 1996 UNIT INVESTMENT BY ACCOUNT |  | CIRCUIT QUANTITY [G] | 1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION |                            | ADMIN. UTIL. LINE FILL [J] | 1996 UNIT LOOP INVESTMENT INCL. UTILIZATION |                            |
|---------------------------|-----------------|-----------------|-----------------------|---------------------------------|--|----------------------|---------------------------------------------|----------------------------|----------------------------|---------------------------------------------|----------------------------|
|                           |                 |                 |                       | COST EQUATION [F]               |  |                      | SHARED RESOURCES [H=F*G]                    | DIRECT RESOURCES [H'=F'*G] |                            | SHARED RESOURCES [K=H/J]                    | DIRECT RESOURCES [K'=H'/J] |
| 8 LAND                    | 20C             | F               | SHARED                | 0.00                            |  |                      |                                             |                            | 1.0000                     |                                             |                            |
| 9 BUILDING                | 10C             | F               | SHARED                | 0.00                            |  |                      |                                             |                            | 1.0000                     |                                             |                            |
| 10 BLDG ENTRANCE CABLE    | 12C             | V               | DIRECT                |                                 |  |                      |                                             |                            | 1.0000                     |                                             |                            |
| 11 INTRABLDG CABLE        | 52C             | V               | DIRECT                |                                 |  |                      |                                             |                            | 0.3500                     |                                             |                            |
| 12 AERIAL CABLE (COPPER)  | 22C             | V               | DIRECT                | 23.11                           |  | 1                    |                                             | \$ 23                      | 0.6000                     |                                             | \$ 39                      |
| 13 BURIED CABLE (COPPER)  | 45C             | V               | DIRECT                | 2.75                            |  | 1                    |                                             | \$ 3                       | 0.6000                     |                                             | \$ 5                       |
| 4 UNDERGROUND (CU) CA.    | 5C              | V               | DIRECT                | 50.84                           |  | 1                    |                                             | \$ 51                      | 0.6000                     |                                             | \$ 85                      |
| 15 CO EQPT - LOW CAP TERM | 257C            | F               | DIRECT                |                                 |  |                      |                                             |                            | 0.7000                     |                                             |                            |
| 16 CO EQPT - LOW CAP CHAN | 257C            | V               | DIRECT                |                                 |  |                      |                                             |                            | 0.7000                     |                                             |                            |
| 17 CO EQPT - HI CAP TERM  | 857C            | F               | DIRECT                |                                 |  |                      |                                             |                            | 1.0000                     |                                             |                            |
| 18 CO EQPT - HI CAP CHAN  | 857C            | F               | DIRECT                |                                 |  |                      |                                             |                            | 1.0000                     |                                             |                            |
| 19 CO EQPT - ANALOG SW    | 77C             | V               | DIRECT                | 0.00                            |  |                      |                                             |                            | 1.0000                     |                                             |                            |
| 20 CO EQPT - DIGITAL SW   | 377C            | V               | DIRECT                | 0.00                            |  |                      |                                             |                            | 1.0000                     |                                             |                            |
| 21 AERIAL CABLE (FIBER)   | 822C            | F               | DIRECT                |                                 |  |                      |                                             |                            | 0.3300                     |                                             |                            |
| 22 BURIED CABLE (FIBER)   | 845C            | F               | DIRECT                |                                 |  |                      |                                             |                            | 0.3300                     |                                             |                            |
| 23 UNDERGROUND (FO) CA.   | 85C             | F               | DIRECT                |                                 |  |                      |                                             |                            | 0.3300                     |                                             |                            |
| 24 CONNECTORS             | 57C             | V               | DIRECT                |                                 |  |                      |                                             |                            | 1.0000                     |                                             |                            |
| 25 MISC. COM EQP & PWR    | 57C             | V               | SHARED                | 0.00                            |  |                      |                                             |                            | 1.0000                     |                                             |                            |
| 26 POLE LINE              | 1C              | F               | DIRECT                | 9.75                            |  | 1                    |                                             | \$ 10                      | 1.0000                     |                                             | \$ 10                      |
| 27 CONDUIT                | 4C              | F               | DIRECT                | 43.76                           |  | 1                    |                                             | \$ 44                      | 1.0000                     |                                             | \$ 44                      |
| 28                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 29                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            | \$ 0                                        | \$ 181                     |
| 30                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 31                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 32                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 33                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 34                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 35                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 36                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 37                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 38                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 39                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 40                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 41                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 42                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 43                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 44                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 45                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 46                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 47                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 48                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 49                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 50                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 51                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 52                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 53                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 54                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |
| 55                        |                 |                 |                       |                                 |  |                      |                                             |                            |                            |                                             |                            |

TOTALS

\$ 0 \$ 181  
\$ 181  
culpmvty

## FOOTNOTES

- NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F AND H (H') ARE CAUSED BY COMPUTER ROUNDING.  
NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY OF CABLE COMPONENTS:  
AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE ADJ; BURIED CABLE, ... ETC;  
CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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| CA123R24\LCATCALC\OUTECH<br>SUB_PRI - WORKSHEET<br>Sheet 1 of 3                |                 |                      | <b>LOOP COST ANALYSIS TOOL</b><br>PROSPECTIVE AND ANNUAL COSTS WORKSHEET<br>CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS<br>FACILITY TYPE: COPPER CABLE<br>CIRCUIT SEGMENT: <u>MELDED GAUGE/S/ SUB-PRIMARY</u> |                            |                        |                                   |                            |                                              | <b>Bellcore (R)</b><br>LCAT Release: 1.0.4<br>Issue Date: 7/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>RUN DATE: 27-Jan-97<br>TIME: 06:09 |  |
|--------------------------------------------------------------------------------|-----------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------|-----------------------------------|----------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                 |                      | SERVICE CLASS: BAND 2 - RESIDENCE LINE                                                                                                                                                                                   |                            |                        |                                   |                            |                                              |                                                                                                                                           |  |
| PLANT ITEM                                                                     | PLANT ACCT CODE | 1996 TO 1996 TPI [L] | 1996 UNIT LOOP INVESTMENTS BY ACCOUNT                                                                                                                                                                                    |                            | ANNUAL COST FACTOR [N] | 1996 UNIT ANNUAL COSTS BY ACCOUNT |                            | 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT |                                                                                                                                           |  |
|                                                                                |                 |                      | SHARED RESOURCES [M=K*L]                                                                                                                                                                                                 | DIRECT RESOURCES [M'=K'*L] |                        | SHARED RESOURCES [P=M*N]          | DIRECT RESOURCES [P'=M'*N] | SHARED RESOURCES [R=P/12]                    | DIRECT RESOURCES [R'=P'/12]                                                                                                               |  |
| LAND                                                                           | 20C             | 1.0000               |                                                                                                                                                                                                                          |                            | 0.2232                 |                                   |                            |                                              |                                                                                                                                           |  |
| BUILDING                                                                       | 10C             | 1.0000               |                                                                                                                                                                                                                          |                            | 0.2847                 |                                   |                            |                                              |                                                                                                                                           |  |
| BLDG ENTRANCE CABLE                                                            | 12C             | 1.0000               |                                                                                                                                                                                                                          |                            | 0.3832                 |                                   |                            |                                              |                                                                                                                                           |  |
| INTRABLDG CABLE                                                                | 52C             | 1.0000               |                                                                                                                                                                                                                          |                            | 0.3832                 |                                   |                            |                                              |                                                                                                                                           |  |
| AERIAL CABLE (COPPER)                                                          | 22C             | 1.0000               |                                                                                                                                                                                                                          | \$ 39                      | 0.3943                 |                                   | \$ 15.19                   |                                              | \$ 1.27                                                                                                                                   |  |
| BURIED CABLE (COPPER)                                                          | 45C             | 1.0000               |                                                                                                                                                                                                                          | \$ 5                       | 0.3377                 |                                   | \$ 1.55                    |                                              | \$ 0.13                                                                                                                                   |  |
| UNDERGROUND (CU) CA.                                                           | 5C              | 1.0000               |                                                                                                                                                                                                                          | \$ 85                      | 0.3573                 |                                   | \$ 30.27                   |                                              | \$ 2.52                                                                                                                                   |  |
| CO EQPT - LOW CAP TERM                                                         | 257C            | 1.0000               |                                                                                                                                                                                                                          |                            | 0.3791                 |                                   |                            |                                              |                                                                                                                                           |  |
| CO EQPT - LOW CAP CHAN                                                         | 257C            | 1.0000               |                                                                                                                                                                                                                          |                            | 0.3791                 |                                   |                            |                                              |                                                                                                                                           |  |
| CO EQPT - HI CAP TERM                                                          | 857C            | 1.0000               |                                                                                                                                                                                                                          |                            | 0.3791                 |                                   |                            |                                              |                                                                                                                                           |  |
| CO EQPT - HI CAP CHAN                                                          | 857C            | 1.0000               |                                                                                                                                                                                                                          |                            | 0.3791                 |                                   |                            |                                              |                                                                                                                                           |  |
| CO EQPT - ANALOG SW                                                            | 77C             | 1.0000               |                                                                                                                                                                                                                          |                            | 0.0000                 |                                   |                            |                                              |                                                                                                                                           |  |
| CO EQPT - DIGITAL SW                                                           | 377C            | 1.0000               |                                                                                                                                                                                                                          |                            | 0.3368                 |                                   |                            |                                              |                                                                                                                                           |  |
| AERIAL CABLE (FIBER)                                                           | 822C            | 1.0000               |                                                                                                                                                                                                                          |                            | 0.2893                 |                                   |                            |                                              |                                                                                                                                           |  |
| BURIED CABLE (FIBER)                                                           | 845C            | 1.0000               |                                                                                                                                                                                                                          |                            | 0.2634                 |                                   |                            |                                              |                                                                                                                                           |  |
| UNDERGROUND (FO) CA.                                                           | 85C             | 1.0000               |                                                                                                                                                                                                                          |                            | 0.2599                 |                                   |                            |                                              |                                                                                                                                           |  |
| CONNECTORS                                                                     | 57C             | 1.0000               |                                                                                                                                                                                                                          |                            | 0.3791                 |                                   |                            |                                              |                                                                                                                                           |  |
| MISC. COM EQP & PWR                                                            | 57C             | 1.0000               |                                                                                                                                                                                                                          |                            | 0.3791                 |                                   |                            |                                              |                                                                                                                                           |  |
| POLE LINE                                                                      | 1C              | 1.0000               |                                                                                                                                                                                                                          | \$ 10                      | 0.3717                 |                                   | \$ 3.62                    |                                              | \$ 0.30                                                                                                                                   |  |
| CONDUIT                                                                        | 4C              | 1.0000               |                                                                                                                                                                                                                          | \$ 44                      | 0.2431                 |                                   | \$ 10.69                   |                                              | \$ 0.89                                                                                                                                   |  |
| SUBTOTALS                                                                      |                 |                      | \$ 0                                                                                                                                                                                                                     | \$ 181                     |                        | \$ 0                              | \$ 61.27                   | \$ 0.00                                      | \$ 5.11                                                                                                                                   |  |
| TOTALS                                                                         |                 |                      |                                                                                                                                                                                                                          | \$ 181                     |                        |                                   | \$ 61.27                   |                                              | \$ 5.11                                                                                                                                   |  |
|                                                                                |                 |                      |                                                                                                                                                                                                                          | culpinvsy                  |                        |                                   | culpac                     |                                              | culpmrc                                                                                                                                   |  |

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**FOOTNOTES**  
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.  
NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION. THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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| CA123R24LCATCALC:GUTCH                                                  |                        | LOOP COST ANALYSIS TOOL                  |      |                                        |         | Bellcore®            |               |
|-------------------------------------------------------------------------|------------------------|------------------------------------------|------|----------------------------------------|---------|----------------------|---------------|
| SUB_PRI - REPORT 14                                                     |                        | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY |      |                                        |         | LCAT Release : 1.0.4 |               |
| Sheet 1 of 1                                                            |                        | COMPANY: CINCINNATI BELL TEL             |      | FACILITY SEGMENT : SUB-PRIMARY PLANT   |         | Issue Date : 7/31/95 |               |
| CITY : AREA: CINCINNATI                                                 |                        | STATE : PROV: OHIO                       |      | SERVICE CLASS: BAND 2 - RESIDENCE LINE |         | STUDY YR: 1996       |               |
|                                                                         |                        |                                          |      |                                        |         | TEST CASE: 1         |               |
|                                                                         |                        |                                          |      |                                        |         | RUN DATE: 27-Jan-97  |               |
|                                                                         |                        |                                          |      |                                        |         | TIME: 09:09          |               |
| 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT                             |                        |                                          |      |                                        |         |                      |               |
| PLANT ITEM                                                              |                        | BAND                                     | MIX  | AVG.                                   | LGTH    | (SEE NOTE)           |               |
|                                                                         |                        | ACCT                                     | CODE | SEG                                    | LGTH    | TOTAL                | AVG. WEIGHTED |
|                                                                         |                        |                                          |      |                                        |         | 6698                 | 6698          |
| <b>SHARED RESOURCES</b>                                                 |                        |                                          |      |                                        |         |                      |               |
| 7                                                                       | LAND                   | 20C                                      |      |                                        |         | \$ 0.00              |               |
| 8                                                                       | BUILDING               | 10C                                      |      |                                        |         | \$ 0.00              |               |
| 9                                                                       | BLDG ENTRANCE CABLE    | 12C                                      |      |                                        |         | \$ 0.00              |               |
| 10                                                                      | INTRABLDG CABLE        | 52C                                      |      |                                        |         | \$ 0.00              |               |
| 11                                                                      | AERIAL CABLE (COPPER)  | 22C                                      |      |                                        |         | \$ 0.00              |               |
| 12                                                                      | BURIED CABLE (COPPER)  | 45C                                      |      |                                        |         | \$ 0.00              |               |
| 13                                                                      | UNDERGROUND (CU) CA.   | 5C                                       |      |                                        |         | \$ 0.00              |               |
| 14                                                                      | CO EQPT - P GAIN TERM  | 257C                                     |      |                                        |         | \$ 0.00              |               |
| 15                                                                      | CO EQPT - P GAIN CHAN  | 257C                                     |      |                                        |         | \$ 0.00              |               |
| 16                                                                      | CO EQPT - FO MUX TERM  | 857C                                     |      |                                        |         | \$ 0.00              |               |
| 17                                                                      | CO EQPT - FO MUX CHAN  | 857C                                     |      |                                        |         | \$ 0.00              |               |
| 18                                                                      | CO EQPT - ANALOG SW    | 77C                                      |      |                                        |         | \$ 0.00              |               |
| 19                                                                      | CO EQPT - DIGITAL SW   | 377C                                     |      |                                        |         | \$ 0.00              |               |
| 20                                                                      | AERIAL CABLE (FIBER)   | 822C                                     |      |                                        |         | \$ 0.00              |               |
| 21                                                                      | BURIED CABLE (FIBER)   | 845C                                     |      |                                        |         | \$ 0.00              |               |
| 22                                                                      | UNDERGROUND (FO) CA.   | 85C                                      |      |                                        |         | \$ 0.00              |               |
| 23                                                                      | CONNECTORS             | 57C                                      |      |                                        |         | \$ 0.00              |               |
| 24                                                                      | MISC. COM EQP & PWR    | 57C                                      |      |                                        |         | \$ 0.00              |               |
| 25                                                                      | POLE LINE              | 1C                                       |      |                                        |         | \$ 0.00              |               |
| 26                                                                      | CONDUIT                | 4C                                       |      |                                        |         | \$ 0.00              |               |
| <b>DIRECT RESOURCES</b>                                                 |                        |                                          |      |                                        |         |                      |               |
| 29                                                                      | LAND                   | 20C                                      |      |                                        |         | \$ 0.00              |               |
| 30                                                                      | BUILDING               | 10C                                      |      |                                        |         | \$ 0.00              |               |
| 31                                                                      | BLDG ENTRANCE CABLE    | 12C                                      |      |                                        |         | \$ 0.00              |               |
| 32                                                                      | INTRABLDG CABLE        | 52C                                      |      |                                        |         | \$ 0.00              |               |
| 33                                                                      | AERIAL CABLE (COPPER)  | 22C                                      |      | \$ 1.27                                |         | \$ 1.27              |               |
| 34                                                                      | BURIED CABLE (COPPER)  | 45C                                      |      | \$ 0.13                                |         | \$ 0.13              |               |
| 35                                                                      | UNDERGROUND (CU) CA.   | 5C                                       |      | \$ 2.52                                |         | \$ 2.52              |               |
| 36                                                                      | CO EQPT - P GAIN TERM  | 257C                                     |      |                                        |         | \$ 0.00              |               |
| 37                                                                      | CO EQPT - P GAIN CHAN  | 257C                                     |      |                                        |         | \$ 0.00              |               |
| 38                                                                      | CO EQPT - FO MUX TERM  | 857C                                     |      |                                        |         | \$ 0.00              |               |
| 39                                                                      | CO EQPT - FO MUX CHAN  | 857C                                     |      |                                        |         | \$ 0.00              |               |
| 40                                                                      | CO EQPT - ANALOG SW    | 77C                                      |      |                                        |         | \$ 0.00              |               |
| 41                                                                      | CO EQPT - DIGITAL SW   | 377C                                     |      |                                        |         | \$ 0.00              |               |
| 42                                                                      | AERIAL CABLE (FIBER)   | 822C                                     |      |                                        |         | \$ 0.00              |               |
| 43                                                                      | BURIED CABLE (FIBER)   | 845C                                     |      |                                        |         | \$ 0.00              |               |
| 44                                                                      | UNDERGROUND (FO) CA.   | 85C                                      |      |                                        |         | \$ 0.00              |               |
| 45                                                                      | CONNECTORS             | 57C                                      |      |                                        |         | \$ 0.00              |               |
| 46                                                                      | MISC. COM EQP & PWR    | 57C                                      |      |                                        |         | \$ 0.00              |               |
| 47                                                                      | POLE LINE              | 1C                                       | 0.3  | \$ 0.30                                |         | \$ 0.30              |               |
| 48                                                                      | CONDUIT                | 4C                                       | 0.8  | \$ 0.89                                |         | \$ 0.89              |               |
| 50                                                                      | SPAN SUMMARY           |                                          |      | \$ 5.11                                | \$ 0.00 | \$ 0.00              | \$ 5.11       |
| 52                                                                      | AVG. WTD. SPAN SUMMARY |                                          |      | \$ 5.11                                | \$ 0.00 | \$ 0.00              | \$ 5.11       |
| NOTE: [sum(INV <sub>ACCT</sub> <sup>BAND</sup> * MIX <sup>BAND</sup> )] |                        |                                          |      |                                        |         |                      |               |

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RUN - CDLC PLANT

|             |
|-------------|
| LAST UPDATE |
| 27-Jan-97   |
| 07:39       |

## LOOP COST ANALYSIS TOOL

**Belcore** (R)  
LCAT  
Release: 1.0.4  
Issued: 8/31/95

### FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 0 - 14000 FEET INTR

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

|           |           |           |          |
|-----------|-----------|-----------|----------|
| BASIS     | NETWORK   | TEST CASE | 1        |
| FR / DS   | FLAT RATE | #BANDS    | 1        |
| SVC LEVEL | NARBAND   | #CKTS     | 1        |
| CST METH  | UN INCR   | INV LEVEL | ANN COST |

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| LOOP COST ANALYSIS TOOL                                                                         |  |  |  |  |  |  |  |  |  | Bellcore            |  |
|-------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|---------------------|--|
| BASIC INVESTMENT WORKSHEET                                                                      |  |  |  |  |  |  |  |  |  | LCAT Release: 1.0.4 |  |
| CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET                                   |  |  |  |  |  |  |  |  |  | Issue Date: 6/31/85 |  |
| FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY                                             |  |  |  |  |  |  |  |  |  | STUDY YR: 1996      |  |
| FACILITY TYPE: COPPER DIG LOOP CXR                                                              |  |  |  |  |  |  |  |  |  | TEST CASE: 1        |  |
| CIRCUIT DESIGN: T C                                                                             |  |  |  |  |  |  |  |  |  | DATE: 27-Jan-97     |  |
| SERVICE CLASS: BAND 2 - RESIDENCE LINE                                                          |  |  |  |  |  |  |  |  |  | TIME: 08:10 AM      |  |
| COMPANY: CINCINNATI BELL TEL                                                                    |  |  |  |  |  |  |  |  |  |                     |  |
| CITY / AREA: OHIO                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| STATE / PROV: CINCINNATI                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| 8534 cur lgth                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |
| 6698 cursidr - lgth                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| 1 = 0.125 pgfactor                                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| CABLE COMPONENTS (NOTE 5)                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| (NOTE 4)                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| (NOTE 5)                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| CABLE WEIGHTED AIR DRYER DROP WIRE DROP WIRE                                                    |  |  |  |  |  |  |  |  |  |                     |  |
| INVESTMENT TERMINAL INVESTMENT ADJUSTMENT INVESTMENT                                            |  |  |  |  |  |  |  |  |  |                     |  |
| PER CHAN INVESTMENT PER PAR PER PAR PER PAR PER PAR                                             |  |  |  |  |  |  |  |  |  |                     |  |
| [E=C*D] [U1*DTC] [E*fcfr] [E*fcfr] [U1*DTC]                                                     |  |  |  |  |  |  |  |  |  |                     |  |
| [A]                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| [B] [C=A*B*F] [D]                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| 0.023800                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 0.00                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 0.00                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| \$ 0.00                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| 24.00 GA. FACILITIES                                                                            |  |  |  |  |  |  |  |  |  |                     |  |
| 0.690000                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| 1.000000                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| OUTSIDE PLANT LOADINGS (NOTE 5):                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| ADJUST. / LOAD FACTORS TO AERIAL PFI                                                            |  |  |  |  |  |  |  |  |  |                     |  |
| ADJUST. / LOAD FACTORS TO BURIED PFI                                                            |  |  |  |  |  |  |  |  |  |                     |  |
| ADJUST. / LOAD FACTORS TO UGD PFI                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| DLC EQUIPMENT INVEST. (NOTE 2):                                                                 |  |  |  |  |  |  |  |  |  |                     |  |
| INT DLC EQUIP INVEST. (CU COMUX) =                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| INT DLC EQUIP INVEST. (CU RTMUX) =                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| UNIV DLC EQUIP INVEST. (CU COMUX) =                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| UNIV DLC EQUIP INVEST. (CU RTMUX) =                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| DLC EQUIP INVEST. (CU LINE) =                                                                   |  |  |  |  |  |  |  |  |  |                     |  |
| CONDUIT INVEST. FOR DLC CEV FACILITIES =                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| OTHER INVESTMENT                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| POLE LINE FACTOR (PLF) =                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =                                              |  |  |  |  |  |  |  |  |  |                     |  |
| UGD CONDUIT FACTOR (UCF) =                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| CONDUIT INVESTMENT (UTIL UNDRGRD INVEST x UCF) =                                                |  |  |  |  |  |  |  |  |  |                     |  |
| EQUIPMENT INVESTMENT LOADINGS                                                                   |  |  |  |  |  |  |  |  |  |                     |  |
| INVEST. PER CHAN. FOR DLC TERM (co conn) =                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) =                                                 |  |  |  |  |  |  |  |  |  |                     |  |
| MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) =                                                |  |  |  |  |  |  |  |  |  |                     |  |
| MCE&P INVEST. (CU REMMUX x MCEP) =                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| MCE&P INVEST. (CDLCMUX x MCEP) =                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| MCE&P INVEST. (CO CONN x MCEP) =                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| OTHER INVESTMENT                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| LAND FACTOR FOR DLC (LANDf_rem) =                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| LAND FACTOR FOR DLC (LANDf_c.o.) =                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| LAND INVEST. (CU COMUX + MCEP) x LANDf =                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| LAND INVEST. ((CO CONN + MCEP) x LANDf) =                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| BUILDING FACTOR FOR DLC (BLDGf_rem) =                                                           |  |  |  |  |  |  |  |  |  |                     |  |
| BUILDING FACTOR FOR DLC (BLDGf_c.o.) =                                                          |  |  |  |  |  |  |  |  |  |                     |  |
| BLDG INVEST. (CDLCMUX + MCEP) x BLDGf =                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| BLDG INVEST. ((CO CONN + MCEP) x BLDGf) =                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| LOOP TOPOLOGY                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |
| AVERAGE NUMBER OF HUBS                                                                          |  |  |  |  |  |  |  |  |  |                     |  |
| ADDITIONAL LENGTH OF RING CABLE REQUIRED                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF CENT. OFC. ANALOG INTFC                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF CENT. OFC. DIGITAL INTFC                                                                 |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF UNIVERSAL DLC INTFC                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF INTEGRATED DIGITAL INTFC                                                                 |  |  |  |  |  |  |  |  |  |                     |  |
| FOOTNOTES                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.                                   |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED                         |  |  |  |  |  |  |  |  |  |                     |  |
| OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.                        |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2. |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.                                 |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT   |  |  |  |  |  |  |  |  |  |                     |  |
| ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.                |  |  |  |  |  |  |  |  |  |                     |  |

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| LOOP COST ANALYSIS TOOL                                       |                 |                 |                     |                                                    |                      |                                                                     |                           |                            |                                                                     | Bellcore                   |  |
|---------------------------------------------------------------|-----------------|-----------------|---------------------|----------------------------------------------------|----------------------|---------------------------------------------------------------------|---------------------------|----------------------------|---------------------------------------------------------------------|----------------------------|--|
| ACCOUNT INVESTMENT WORKSHEET                                  |                 |                 |                     |                                                    |                      |                                                                     |                           |                            |                                                                     | LCAT Release: 1.0.4        |  |
| CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET |                 |                 |                     |                                                    |                      |                                                                     |                           |                            |                                                                     | Issue Date: 6/31/95        |  |
| FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY           |                 |                 |                     |                                                    |                      |                                                                     |                           |                            |                                                                     | STUDY YR: 1996             |  |
| FACILITY TYPE: COPPER DIG LOOP CXR                            |                 |                 |                     |                                                    |                      |                                                                     |                           |                            |                                                                     | TEST CASE: 1               |  |
| CIRCUIT DESIGN: T/C                                           |                 |                 |                     |                                                    |                      |                                                                     |                           |                            |                                                                     | DATE: 27-Jan-97            |  |
| SERVICE CLASS: BAND 2 - RESIDENCE LINE                        |                 |                 |                     |                                                    |                      |                                                                     |                           |                            |                                                                     | TIME: 08:10 AM             |  |
| PLANT ITEM                                                    | PLANT ACCT CODE | FIXED VARI SUNK | RESOURCE ALLOCATION | 1996 UNIT INVESTMENTS BY ACCOUNT COST EQUATION [F] | CIRCUIT QUANTITY [G] | 1996 UNIT LOOP INVESTMENT EXCL UTILIZATION SHARED RESOURCES [H=F*G] | DIRECT RESOURCES [H'=F*G] | ADMIN. UTIL. LINE FILL [J] | 1996 UNIT LOOP INVESTMENT INCL UTILIZATION SHARED RESOURCES [K=H/J] | DIRECT RESOURCES [K'=H'/J] |  |
| LAND                                                          | 20C             | F               | SHARED              | 1.47                                               | 0                    |                                                                     |                           | 1.0000                     |                                                                     |                            |  |
| BUILDING                                                      | 10C             | F               | SHARED              | 34.76                                              | 0                    |                                                                     |                           | 1.0000                     |                                                                     |                            |  |
| BLDG ENTRANCE CABLE                                           | 12C             | ---             | ---                 |                                                    | 0                    |                                                                     |                           | 1.0000                     |                                                                     |                            |  |
| INTRABLDG CABLE                                               | 52C             | ---             | ---                 |                                                    | 0                    |                                                                     |                           | 0.3500                     |                                                                     |                            |  |
| AERIAL CABLE (COPPER)                                         | 22C             | V               | DIRECT              | 0.00                                               | 0                    |                                                                     |                           | 0.6000                     |                                                                     |                            |  |
| BURIED CABLE (COPPER)                                         | 45C             | V               | DIRECT              | 0.00                                               | 0                    |                                                                     |                           | 0.6000                     |                                                                     |                            |  |
| UNDERGROUND (CU) CA.                                          | 5C              | V               | DIRECT              | 0.00                                               | 0                    |                                                                     |                           | 0.6000                     |                                                                     |                            |  |
| CO EQPT - P GAIN TERM                                         | 257C            | F               | DIRECT              | 79.13                                              | 0                    |                                                                     |                           | 0.7000                     |                                                                     |                            |  |
| CO EQPT - P GAIN CHAN                                         | 257C            | V               | DIRECT              | 172.79                                             | 0                    |                                                                     |                           | 0.7000                     |                                                                     |                            |  |
| CO EQPT - FO MUX TERM                                         | 857C            | F               | DIRECT              |                                                    | 0                    |                                                                     |                           | 1.0000                     |                                                                     |                            |  |
| CO EQPT - FO MUX CHAN                                         | 857C            | F               | DIRECT              |                                                    | 0                    |                                                                     |                           | 1.0000                     |                                                                     |                            |  |
| CO EQPT - ESS - ANALOG                                        | 77C             | V               | DIRECT              | 0.00                                               | 0                    |                                                                     |                           | 1.0000                     |                                                                     |                            |  |
| CO EQPT - ESS - DIGITAL                                       | 377C            | V               | DIRECT              | 0.00                                               | 0                    |                                                                     |                           | 1.0000                     |                                                                     |                            |  |
| AERIAL CABLE (FIBER)                                          | 822C            | F               | DIRECT              |                                                    | 0                    |                                                                     |                           | 0.3300                     |                                                                     |                            |  |
| BURIED CABLE (FIBER)                                          | 845C            | F               | DIRECT              |                                                    | 0                    |                                                                     |                           | 0.3300                     |                                                                     |                            |  |
| UNDERGROUND (FO) CA.                                          | 85C             | F               | DIRECT              |                                                    | 0                    |                                                                     |                           | 0.3300                     |                                                                     |                            |  |
| CONNECTORS                                                    | 57C             | V               | DIRECT              |                                                    | 0                    |                                                                     |                           | 1.0000                     |                                                                     |                            |  |
| MISC. COM EQP & PWR                                           | 57C             | V               | SHARED              | 11.23                                              | 0                    |                                                                     |                           | 1.0000                     |                                                                     |                            |  |
| POLE LINE                                                     | 1C              | F               | DIRECT              | 0.00                                               | 0                    |                                                                     |                           | 0.0000                     |                                                                     |                            |  |
| CONDUIT                                                       | 4C              | F               | DIRECT              | 0.00                                               | 0                    |                                                                     |                           | 0.0000                     |                                                                     |                            |  |
| TOTALS                                                        |                 |                 |                     |                                                    |                      |                                                                     |                           |                            |                                                                     |                            |  |

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## FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: CO EQPT - CKT PG TERM = PG EQ INV TERM + MC&amp;P INV

CO EQPT - CKT PG CHAN = PG EQ INV CHAN + ORB INV

CO EQPT - ANALOG/DIGITAL ESS = C.O. CONN INV + MC&amp;P INV

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CA123R24\LCATCALC\CUPP.BY  
CDLC PLANT - WORKSHEET  
Sheet 3 of 3

# LOOP COST ANALYSIS TOOL

## PROSPECTIVE AND ANNUAL COSTS WORKSHEET

CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET  
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY  
FACILITY TYPE: COPPER DIG LOOP CXR  
CIRCUIT DESIGN: T1C  
SERVICE CLASS: BAND 2 - RESIDENCE LINE

Belcore<sup>®</sup>

LCAT Release: 1.0.4  
Issue Date: 8/31/95  
STUDY YR: 1996  
TEST CASE: 1  
DATE: 27-Jan-97  
TIME: 08:10 AM

COMPANY: CINCINNATI BELL TEL  
CITY/AREA: OHIO  
STATE/PROV: CINCINNATI

| PLANT ITEM              | PLANT<br>ACCT<br>CODE | 1996<br>TO<br>1996<br>TPI | 1996 UNIT<br>LOOP INVESTMENT<br>BY ACCOUNT |                        | ANNUAL<br>COST<br>FACTOR<br>[N] | 1996 UNIT<br>ANNUAL COSTS<br>BY ACCOUNT |                        | 1996 UNIT<br>MONTHLY RECURRING COSTS<br>BY ACCOUNT |                         |
|-------------------------|-----------------------|---------------------------|--------------------------------------------|------------------------|---------------------------------|-----------------------------------------|------------------------|----------------------------------------------------|-------------------------|
|                         |                       |                           | SHARED                                     | DIRECT                 |                                 | SHARED                                  | DIRECT                 | SHARED                                             | DIRECT                  |
|                         |                       |                           | RESOURCES<br>[M=K*L]                       | RESOURCES<br>[M'=K'*L] |                                 | RESOURCES<br>[P=M*N]                    | RESOURCES<br>[P'=M'*N] | RESOURCES<br>[R=P/12]                              | RESOURCES<br>[R'=P'/12] |
| LAND                    | 20C                   | 1.0000                    |                                            |                        | 0.2232                          |                                         |                        |                                                    |                         |
| BUILDING                | 10C                   | 1.0000                    |                                            |                        | 0.2847                          |                                         |                        |                                                    |                         |
| BLDG ENTRANCE CABLE     | 12C                   | 1.0000                    |                                            |                        | 0.3832                          |                                         |                        |                                                    |                         |
| INTRABLDG CABLE         | 52C                   | 1.0000                    |                                            |                        | 0.3832                          |                                         |                        |                                                    |                         |
| AERIAL CABLE (COPPER)   | 22C                   | 1.0000                    |                                            |                        | 0.3943                          |                                         |                        |                                                    |                         |
| BURIED CABLE (COPPER)   | 45C                   | 1.0000                    |                                            |                        | 0.3377                          |                                         |                        |                                                    |                         |
| UNDERGROUND (CU) CA.    | 5C                    | 1.0000                    |                                            |                        | 0.3573                          |                                         |                        |                                                    |                         |
| CO EQPT - P GAIN TERM   | 257C                  | 1.0000                    |                                            |                        | 0.3791                          |                                         |                        |                                                    |                         |
| CO EQPT - P GAIN CHAN   | 257C                  | 1.0000                    |                                            |                        | 0.3791                          |                                         |                        |                                                    |                         |
| CO EQPT - FO MUX TERM   | 857C                  | 1.0000                    |                                            |                        | 0.3791                          |                                         |                        |                                                    |                         |
| CO EQPT - FO MUX CHAN   | 857C                  | 1.0000                    |                                            |                        | 0.3791                          |                                         |                        |                                                    |                         |
| CO EQPT - ESS - ANALOG  | 77C                   | 1.0000                    |                                            |                        | 0.0000                          |                                         |                        |                                                    |                         |
| CO EQPT - ESS - DIGITAL | 377C                  | 1.0000                    |                                            |                        | 0.3368                          |                                         |                        |                                                    |                         |
| AERIAL CABLE (FIBER)    | 822C                  | 1.0000                    |                                            |                        | 0.2893                          |                                         |                        |                                                    |                         |
| BURIED CABLE (FIBER)    | 845C                  | 1.0000                    |                                            |                        | 0.2634                          |                                         |                        |                                                    |                         |
| UNDERGROUND (FO) CA.    | 85C                   | 1.0000                    |                                            |                        | 0.2599                          |                                         |                        |                                                    |                         |
| CONNECTORS              | 57C                   | 1.0000                    |                                            |                        | 0.3791                          |                                         |                        |                                                    |                         |
| MISC. COM EQP & PWR     | 57C                   | 1.0000                    |                                            |                        | 0.3791                          |                                         |                        |                                                    |                         |
| POLE LINE               | 1C                    | 1.0000                    |                                            |                        | 0.3717                          |                                         |                        |                                                    |                         |
| CONDUIT                 | 4C                    | 1.0000                    |                                            |                        | 0.2431                          |                                         |                        |                                                    |                         |
| TOTALS                  |                       |                           | -----<br>\$ 0                              | -----<br>\$ 0          |                                 | -----<br>\$ 0.00                        | -----<br>\$ 0.00       | -----<br>\$ 0.00                                   | -----<br>\$ 0.00        |
|                         |                       |                           |                                            | -----<br>\$ 0          |                                 | -----<br>\$ 0.00                        | -----<br>\$ 0.00       |                                                    | -----<br>\$ 0.00        |
|                         |                       |                           |                                            | FEED1SY                |                                 | FEED1ANN                                |                        | FEED1MRC                                           |                         |

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### FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.  
NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.  
HOWEVER, THIS COLUMN IS PRESENTED FOR CONSISTENCY OF FORMAT ONLY.

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| LOOP COST ANALYSIS TOOL                                                      |  |                                          |  |        |  |      |  |                     |  |
|------------------------------------------------------------------------------|--|------------------------------------------|--|--------|--|------|--|---------------------|--|
| PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                                     |  |                                          |  |        |  |      |  |                     |  |
| CA123R24\LCAT\CALC\CUPRGN                                                    |  |                                          |  |        |  |      |  | Belcore®            |  |
| CDLC_PLANT - REPORT 14.1                                                     |  |                                          |  |        |  |      |  | LCAT Release: 1.0.4 |  |
| Sheet 1 of 3                                                                 |  |                                          |  |        |  |      |  | Issue Date: 8/31/95 |  |
| COMPANY: CINCINNATI BELL TEL.                                                |  | FACILITY SEGMENT: PRIMARY FEEDER SEGMENT |  |        |  |      |  | STUDY YR: 1996      |  |
| CITY / AREA: CINCINNATI                                                      |  | CIRCUIT DESIGN: COPPER DIG LOOP CXR      |  |        |  |      |  | TEST CASE: 1        |  |
| STATE / PROV: OHIO                                                           |  | SERVICE CLASS: BAND 2 - RESIDENCE LINE   |  |        |  |      |  | DATE: 27-Jan-97     |  |
|                                                                              |  |                                          |  |        |  |      |  | TIME: 08:10 AM      |  |
| 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT                                  |  |                                          |  |        |  |      |  |                     |  |
|                                                                              |  | BAND                                     |  | 1.0000 |  |      |  | (SEE NOTE)          |  |
|                                                                              |  | MIX                                      |  | 0      |  |      |  | TOTAL               |  |
|                                                                              |  | ACCT                                     |  | 8534   |  |      |  | AVG. WEIGHTED       |  |
|                                                                              |  | CODE                                     |  | 0      |  |      |  | INVESTMENT          |  |
|                                                                              |  | LGTH                                     |  |        |  |      |  |                     |  |
|                                                                              |  | SEG.LGTH.                                |  |        |  |      |  |                     |  |
| <b>SHARED RESOURCES</b>                                                      |  |                                          |  |        |  |      |  |                     |  |
| LAND                                                                         |  | 20C                                      |  |        |  |      |  | \$ 0.00             |  |
| BUILDING                                                                     |  | 10C                                      |  |        |  |      |  | \$ 0.00             |  |
| BLDG ENTRANCE CABLE                                                          |  | 12C                                      |  |        |  |      |  | \$ 0.00             |  |
| INTRABLDG CABLE                                                              |  | 52C                                      |  |        |  |      |  | \$ 0.00             |  |
| AERIAL CABLE (COPPER)                                                        |  | 22C                                      |  |        |  |      |  | \$ 0.00             |  |
| BURIED CABLE (COPPER)                                                        |  | 45C                                      |  |        |  |      |  | \$ 0.00             |  |
| UNDERGROUND (CU) CA.                                                         |  | 5C                                       |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - P GAIN TERM                                                        |  | 257C                                     |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - P GAIN CHAN                                                        |  | 257C                                     |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - FO MUX TERM                                                        |  | 857C                                     |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - FO MUX CHAN                                                        |  | 857C                                     |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - ANALOG SW                                                          |  | 77C                                      |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - DIGITAL SW                                                         |  | 377C                                     |  |        |  |      |  | \$ 0.00             |  |
| AERIAL CABLE (FIBER)                                                         |  | 822C                                     |  |        |  |      |  | \$ 0.00             |  |
| BURIED CABLE (FIBER)                                                         |  | 845C                                     |  |        |  |      |  | \$ 0.00             |  |
| UNDERGROUND (FO) CA.                                                         |  | 85C                                      |  |        |  |      |  | \$ 0.00             |  |
| CONNECTORS                                                                   |  | 57C                                      |  |        |  |      |  | \$ 0.00             |  |
| MISC. COM EQP & PWR                                                          |  | 57C                                      |  |        |  |      |  | \$ 0.00             |  |
| POLE LINE                                                                    |  | 1C                                       |  |        |  |      |  | \$ 0.00             |  |
| CONDUIT                                                                      |  | 4C                                       |  |        |  |      |  | \$ 0.00             |  |
| <b>DIRECT RESOURCES</b>                                                      |  |                                          |  |        |  |      |  |                     |  |
| LAND                                                                         |  | 20C                                      |  |        |  |      |  | \$ 0.00             |  |
| BUILDING                                                                     |  | 10C                                      |  |        |  |      |  | \$ 0.00             |  |
| BLDG ENTRANCE CABLE                                                          |  | 12C                                      |  |        |  |      |  | \$ 0.00             |  |
| INTRABLDG CABLE                                                              |  | 52C                                      |  |        |  |      |  | \$ 0.00             |  |
| AERIAL CABLE (COPPER)                                                        |  | 22C                                      |  |        |  |      |  | \$ 0.00             |  |
| BURIED CABLE (COPPER)                                                        |  | 45C                                      |  |        |  |      |  | \$ 0.00             |  |
| UNDERGROUND (CU) CA.                                                         |  | 5C                                       |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - P GAIN TERM                                                        |  | 257C                                     |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - P GAIN CHAN                                                        |  | 257C                                     |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - FO MUX TERM                                                        |  | 857C                                     |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - FO MUX CHAN                                                        |  | 857C                                     |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - ANALOG SW                                                          |  | 77C                                      |  |        |  |      |  | \$ 0.00             |  |
| CO EQPT - DIGITAL SW                                                         |  | 377C                                     |  |        |  |      |  | \$ 0.00             |  |
| AERIAL CABLE (FIBER)                                                         |  | 822C                                     |  |        |  |      |  | \$ 0.00             |  |
| BURIED CABLE (FIBER)                                                         |  | 845C                                     |  |        |  |      |  | \$ 0.00             |  |
| UNDERGROUND (FO) CA.                                                         |  | 85C                                      |  |        |  |      |  | \$ 0.00             |  |
| CONNECTORS                                                                   |  | 57C                                      |  |        |  |      |  | \$ 0.00             |  |
| MISC. COM EQP & PWR                                                          |  | 57C                                      |  |        |  |      |  | \$ 0.00             |  |
| POLE LINE                                                                    |  | 1C                                       |  |        |  |      |  | \$ 0.00             |  |
| CONDUIT                                                                      |  | 4C                                       |  |        |  |      |  | \$ 0.00             |  |
| SPAN SUMMARY                                                                 |  | 0.00                                     |  | 0.00   |  | 0.00 |  | 0.00                |  |
| AVG. WTD. SPAN SUMMARY                                                       |  | 0.00                                     |  | 0.00   |  | 0.00 |  | 0.00                |  |
| NOTE: [sum(INV <sub>ACCT</sub> * MIX <sub>BAND</sub> * MIX <sub>WTD</sub> )] |  |                                          |  |        |  |      |  |                     |  |

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Bellcore (R)

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LAST UPDATE

27-Jan-97

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## LOOP COST ANALYSIS TOOL

LCAT

Release: 1.0.4

Issued: 7/31/95

## FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 0 - 14000

CURRENT TEST PLAN :

|                               |           |           |          |
|-------------------------------|-----------|-----------|----------|
| CURRENT JOB IDENT: CINCINNATI |           |           |          |
| BASIS                         | NETWORK   | TEST CASE | 1        |
| FR / DS                       | FLAT RATE | #BANDS    | 0        |
| SVC LEVEL                     | NARBAND   | #CKTS     | 1        |
| CST METH                      | UN INCR   | INV LEVEL | ANN COST |

....your run is finished

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**LOOP COST ANALYSIS TOOL**  
**BASIC INVESTMENT WORKSHEET**

COMPANY: CINCINNATI BELL TEL  
 CITY / AREA: CINCINNATI  
 STATE / PROV: OHIO

FACILITY TYPE: FIBER IN THE LOOP  
 CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.  
 SERVICE CLASS: BAND 2 - RESID SERVICE LEVEL: NARBAND

LCAT Rel: 1.0.4  
 ISSUE DATE: 7/31/95  
 STUDY YR: 1996  
 TEST CASE: 1  
 LAST RUN: 27-Jan-97  
 TIME: 08:11

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 0 cur\_prlgh

from bw\_mux: f = 1979.04 wtdeqvmn

| SEGMENT LENGTH IN FEET | TYPE OF CABLE PLANT | RELATIVE MIX OF TYPE OF PLANT | EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT | MLD CABLE DESIGN INVEST. PER PAIR FOOT | WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D] | WEIGHTED TERMINAL INVESTMENT [UI*DTC] | AIR DRYER INVESTMENT PER PAIR [E*factr] | DROP WIRE ADJUSTMENT PER PAIR [E*factr] | WEIGHTED DROP WIRE INVESTMENT PER PAIR [UI*DTC] |
|------------------------|---------------------|-------------------------------|------------------------------------------|----------------------------------------|--------------------------------------------------|---------------------------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------------|
| fo3pri_segldgh [A]     |                     | [B]                           | [C=A*B/f]                                | [D]                                    |                                                  |                                       |                                         |                                         |                                                 |
| 0                      | AERIAL              | 0.480000                      | 0.00                                     | 0.193000                               | 0.00                                             |                                       | 0.00                                    |                                         |                                                 |
| CO TO HUB LINK ON      | BURIED              | 0.000000                      | 0.00                                     | 0.269400                               | 0.00                                             |                                       | 0.00                                    |                                         |                                                 |
| FIBER OPTIC FACILITIES | UNDERGRND           | 0.520000                      | 0.00                                     | 0.182700                               | 0.00                                             |                                       | 0.00                                    |                                         |                                                 |
|                        |                     | 1.000000                      |                                          |                                        |                                                  |                                       |                                         |                                         |                                                 |

**OUTSIDE PLANT LOADINGS (NOTE 5):**

ADJUST./LOAD FACTORS TO AERIAL PFI NA 0.0000  
 ADJUST./LOAD FACTORS TO BURIED PFI NA 0.0000  
 ADJUST./LOAD FACTORS TO UGD PFI NA 0.0000

**DLC EQUIPMENT INVEST. (NOTE 2)**

INT DLC EQUIP INVEST. (CU COMUX) = intdlcco\_ \$ 0.00 \$ 0.00  
 INT DLC EQUIP INVEST. (CU RTMUX) = intdlcrt\_ \$ 51.57 \$ 85.28  
 UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco\_ \$ 12.14 \$ 87.51  
 UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcrt\_ \$ 51.57 \$ 85.28  
 FIBER MUX EQUIP. INV. (FO COMUX) = hubmxcco\_ \$ 2.35 \$ 19.62  
 FIBER MUX EQUIP. INV. (FO RTMUX) = hubmxort\_ \$ 2.35 \$ 18.49

**OTHER INVESTMENT**

POLE LINE FACTOR (PLf) = fpf 0.0000 0.1985  
 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 0.00  
 UNDERGROUND CONDUIT FACTOR (PLf) = fuct 0.0000 0.5232  
 CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCf) = \$ 0.00

**LOOP TOPOLOGY**

AVERAGE NUMBER OF HUBS NA  
 ADDITIONAL LENGTH OF RING OSP REQUIRED NA  
 MIX OF CENT. OFC. ANALOG INTFC 0.0000  
 MIX OF CENT. OFC. DIGITAL INTFC 1.0000  
 MIX OF UNIVERAL DLC INTFC 1.0000  
 MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.0000

**EQUIPMENT INVESTMENT LOADINGS**

INVST. PER CHAN. FOR CA TERM (CA CONN) = \$ 0.00  
 MISC. COM. EQPT. & POWER FACTOR (DLCrem) = 0.1127  
 MISC. COM. EQPT. & POWER FACTOR (MUXrem) = 0.1127  
 MISC. COM. EQPT. & POWER FACTOR (OTHrem) = 0.1127  
 MISC. COM. EQPT. & POWER FACTOR (MUXco.) = 0.1127  
 MISC. COM. EQPT. & POWER FACTOR (DLCco.) = 0.1127  
 MISC. COM. EQPT. & POWER FACTOR (OTHco.) = 0.1127  
 MCE&P INVST. (MUXco.+DLCco.) x MCEPfc.o.) = \$ 13.71  
 MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 17.77  
 MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00  
 MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.00  
 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.005E  
 LAND FACTOR FOR MUX EQP (LANDfco.) = 0.005E  
 LAND FACTOR FOR OTH (LANDfrem) = 0.005E  
 LAND FACTOR FOR OTH (LANDfco.) = 0.005E  
 LAND FACTOR FOR MUX EQP (LANDfco.) = 0.005E  
 LAND FACTOR FOR OTH (LANDfco.) = 0.005E  
 LAND INVST. (DLC+MUX+MCEP) x LANDfco. = \$ 0.7E  
 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 0.9E  
 BUILDING FACTOR FOR DLC EQP (BLDGfrem) = 0.131E  
 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.131E  
 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.131E  
 BUILDING FACTOR FOR DLC EQP (BLDGfco.) = 0.131E  
 BUILDING FACTOR FOR MUX EQP (BLDGfco.) = 0.131E  
 BUILDING FACTOR FOR OTH (BLDGfco.) = 0.131E  
 BLDG INVST. (DLC+MUX+MCEP) x BLDGfco. = \$ 17.8  
 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 23.0E

**FOOTNOTES**

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.  
 NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.  
 NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULTI BY 2.  
 NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.  
 NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET B.

| LOOP COST ANALYSIS TOOL                                                                         |                 |                 |                     |               |                  |                  |                  |                        |                  | Bellcore <sup>®</sup> |     |     |
|-------------------------------------------------------------------------------------------------|-----------------|-----------------|---------------------|---------------|------------------|------------------|------------------|------------------------|------------------|-----------------------|-----|-----|
| ACCOUNT INVESTMENT WORKSHEET                                                                    |                 |                 |                     |               |                  |                  |                  |                        |                  | LCAT Rel: 1.0.4       |     |     |
| FOR PRIMARY FEEDER PLANT                                                                        |                 |                 |                     |               |                  |                  |                  |                        |                  | ISSUE DATE: 7/31/95   |     |     |
| FACILITY TYPE: FIBER IN THE LOOP                                                                |                 |                 |                     |               |                  |                  |                  |                        |                  | STUDY YR: 1996        |     |     |
| CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.                                                           |                 |                 |                     |               |                  |                  |                  |                        |                  | TEST CASE: 1          |     |     |
| SERVICE CLASS: BAND 2 - RESID SERVICE LEVEL: NARBAND                                            |                 |                 |                     |               |                  |                  |                  |                        |                  | LAST RUN: 27-Jan-97   |     |     |
|                                                                                                 |                 |                 |                     |               |                  |                  |                  |                        |                  | TIME: 28.11           |     |     |
| Sheet 2 of 3                                                                                    |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |
| COMPANY: CINCINNATI BELL TEL                                                                    |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |
| CITY / AREA: CINCINNATI                                                                         |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |
| STATE / PROV: OHIO                                                                              |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |
| 1996 UNIT INVESTMENTS BY ACCOUNT                                                                |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |
| 1996 UNIT LOOP INVESTMENT EXCL UTILIZATION                                                      |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |
| ADMIN. UTIL. LINE FILL                                                                          |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |
| 1996 UNIT LOOP INVESTMENT INCL UTILIZATION                                                      |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |
| PLANT ITEM                                                                                      | PLANT ACCT CODE | FIXED VARI SUNK | RESOURCE ALLOCATION | COST EQUATION | CIRCUIT QUANTITY | SHARED RESOURCES | DIRECT RESOURCES | ADMIN. UTIL. LINE FILL | SHARED RESOURCES | DIRECT RESOURCES      |     |     |
|                                                                                                 |                 |                 |                     | [F]           | [G]              | [H=F*G]          | [H'=F*G]         | [J]                    | [K=H/J]          | [K'=H'/J]             |     |     |
| LAND                                                                                            | 20C             | F               | SHARED              | 1.74          | 0                |                  |                  | 1.0000                 |                  |                       |     |     |
| BUILDING                                                                                        | 10C             | F               | SHARED              | 40.90         | 0                |                  |                  | 1.0000                 |                  |                       |     |     |
| BLDG ENTRANCE CABLE                                                                             | 12C             | ---             | ---                 |               |                  |                  |                  | 1.0000                 |                  |                       |     |     |
| INTRABLDG CABLE                                                                                 | 52C             | ---             | ---                 |               |                  |                  |                  | 0.3500                 |                  |                       |     |     |
| AERIAL CABLE (COPPER)                                                                           | 22C             | V               | DIRECT              |               |                  |                  |                  | 0.6000                 |                  |                       |     |     |
| BURIED CABLE (COPPER)                                                                           | 45C             | V               | DIRECT              |               |                  |                  |                  | 0.6000                 |                  |                       |     |     |
| UNDERGROUND (CU) CA.                                                                            | 5C              | V               | DIRECT              |               |                  |                  |                  | 0.6000                 |                  |                       |     |     |
| CO EQPT - LOW CAP TERM                                                                          | 257C            | F               | DIRECT              | 63.71         | 0                |                  |                  | 0.7000                 |                  |                       |     |     |
| CO EQPT - LOW CAP CHAN                                                                          | 257C            | V               | DIRECT              | 172.79        | 0                |                  |                  | 0.7000                 |                  |                       |     |     |
| CO EQPT - HI CAP TERM                                                                           | 857C            | F               | DIRECT              | 22.47         | 0                |                  |                  | 1.0000                 |                  |                       |     |     |
| CO EQPT - HI CAP CHAN                                                                           | 857C            | F               | DIRECT              | 38.11         | 0                |                  |                  | 1.0000                 |                  |                       |     |     |
| CO EQPT - ANALOG SW                                                                             | 77C             | V               | DIRECT              | 0.00          | 0                |                  |                  | 1.0000                 |                  |                       |     |     |
| CO EQPT - DIGITAL SW                                                                            | 377C            | V               | DIRECT              | 0.00          | 0                |                  |                  | 1.0000                 |                  |                       |     |     |
| AERIAL CABLE (FIBER)                                                                            | 822C            | F               | DIRECT              | 0.00          | 0                |                  |                  | 0.3300                 |                  |                       |     |     |
| BURIED CABLE (FIBER)                                                                            | 845C            | F               | DIRECT              | 0.00          | 0                |                  |                  | 0.3300                 |                  |                       |     |     |
| UNDERGROUND (FO) CA.                                                                            | 85C             | F               | DIRECT              | 0.00          | 0                |                  |                  | 0.3300                 |                  |                       |     |     |
| CONNECTORS                                                                                      | 57C             | V               | DIRECT              | 0.00          | 0                |                  |                  | 1.0000                 |                  |                       |     |     |
| MISC. COM EQP & PWR                                                                             | 57C             | V               | SHARED              | 13.71         | 0                |                  |                  | 1.0000                 |                  |                       |     |     |
| POLE LINE                                                                                       | 1C              | F               | DIRECT              | 0.00          | 0                |                  |                  | 1.0000                 |                  |                       |     |     |
| CONDUIT                                                                                         | 4C              | F               | DIRECT              | 0.00          | 0                |                  |                  | 1.0000                 |                  |                       |     |     |
| TOTALS                                                                                          |                 |                 |                     |               |                  |                  |                  |                        |                  |                       | \$0 | \$0 |
| FOOTNOTES                                                                                       |                 |                 |                     |               |                  |                  |                  |                        |                  |                       | \$0 | \$0 |
| NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.                                   |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |
| NOTE 2: P GAIN CO EQPT = PG EQ INV + HUBMUX INV + MCE&P INV.                                    |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |
| NOTE 3: ESS CO EQPT = C.O. CONN + MCE&P INV                                                     |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |
| NOTE 3: CABLE INVESTMENT IS THE SUM OF THE CABLE INV [H] + DRYER INV [J] + DROP WIRE ADJUST [K] |                 |                 |                     |               |                  |                  |                  |                        |                  |                       |     |     |



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## LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH  
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE  
DISTRIBUTION SEGMENT

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 05-Dec-96

TIME: 08:28

COMPANY: CINCINNATI BELL TEL  
STATE: OHIO

SWITCHED SERVICES

| PLANT ITEM              | LCAT CODE | WHEN BANDWIDTH DELIVERY IS |                  |          |                  |           |                  |
|-------------------------|-----------|----------------------------|------------------|----------|------------------|-----------|------------------|
|                         |           | NARROWBAND                 |                  | WIDEBAND |                  | BROADBAND |                  |
|                         |           | CATEGORY                   | SENS.   RESOURCE | CATEGORY | SENS.   RESOURCE | CATEGORY  | SENS.   RESOURCE |
|                         |           | INDEX                      | ASSIGNMENT       | INDEX    | ASSIGNMENT       | INDEX     | ASSIGNMENT       |
| LAND                    | LAND      | 20C                        | F SHARED         | F SHARED | F SHARED         | F SHARED  | F SHARED         |
| BUILDING                | BLDG      | 10C                        | F SHARED         | F SHARED | F SHARED         | F SHARED  | F SHARED         |
| BLDG ENTRANCE CABLE     | BEC       | 12C                        | V DIRECT         | V DIRECT | V DIRECT         | V DIRECT  | V DIRECT         |
| INTRABLDG CABLE         | IBC       | 52C                        | V DIRECT         | V DIRECT | V DIRECT         | V DIRECT  | V DIRECT         |
| AERIAL CABLE (COPPER) ① | ACU       | 22C                        | V DIRECT         | V DIRECT | V DIRECT         | V DIRECT  | V DIRECT         |
| BURIED CABLE (COPPER) ① | BCU       | 45C                        | V DIRECT         | V DIRECT | V DIRECT         | V DIRECT  | V DIRECT         |
| UNDERGROUND (CU) CA. ①  | UCU       | 5C                         | V DIRECT         | V DIRECT | V DIRECT         | V DIRECT  | V DIRECT         |
| CO EQPT - LOW CAP TERM  | DLCT      | 257C                       | F DIRECT         | V DIRECT | V DIRECT         | V DIRECT  | V DIRECT         |
| CO EQPT - LOW CAP CHAN  | DLCC      | 257C                       | V DIRECT         | V DIRECT | V DIRECT         | V DIRECT  | V DIRECT         |
| CO EQPT - H CAP TERM    | MUXT      | 857C                       | F DIRECT         | F DIRECT | F DIRECT         | F DIRECT  | F DIRECT         |
| CO EQPT - H CAP CHAN    | MUXC      | 857C                       | F DIRECT         | F DIRECT | V DIRECT         | V DIRECT  | V DIRECT         |
| CO EQPT - ANALOG SW     | ACOE      | 77C                        | V DIRECT         | V DIRECT | V DIRECT         | V DIRECT  | V DIRECT         |
| CO EQPT - DIGITAL SW    | DCOE      | 377C                       | V DIRECT         | V DIRECT | V DIRECT         | V DIRECT  | V DIRECT         |
| AERIAL CABLE (FIBER)    | AFO       | 822C                       | F DIRECT         | F DIRECT | F DIRECT         | F DIRECT  | F DIRECT         |
| BURIED CABLE (FIBER)    | BFO       | 845C                       | F DIRECT         | F DIRECT | F DIRECT         | F DIRECT  | F DIRECT         |
| UNDERGROUND (FO) CA.    | UFO       | 85C                        | F DIRECT         | F DIRECT | F DIRECT         | F DIRECT  | F DIRECT         |
| CONNECTORS              | CONN      | 57C                        | V DIRECT         | V DIRECT | V DIRECT         | V DIRECT  | V DIRECT         |
| MISC. COM EQP & PWR     | MCEP      | 57C                        | V SHARED         | V SHARED | V SHARED         | V SHARED  | V SHARED         |
| POLE LINE               | POLE      | 1C                         | F DIRECT         | F DIRECT | F DIRECT         | F DIRECT  | F DIRECT         |
| CONDUIT                 | COND      | 4C                         | F DIRECT         | F DIRECT | F DIRECT         | F DIRECT  | F DIRECT         |

## FOOTNOTES

① THESE ASSIGNMENTS APPLY TO DEDICATED COPPER - PAIRS (NON-MULTIPLXED) FEEDER & DISTRIBUTION  
 BY DEFINITION: ITEMS LABELED F(ixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY  
 ITEMS LABELED F(ixed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES  
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

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HELP SCREEN**Belcore** (R)

TABLE - COST\_METH

LCAT Rel : 1.0.4

Sheet 1 of 2

Issued : 07/31/95

| <u>Field / Group Title</u> | <u>Valid Inputs</u>    | <u>This field or grouping defines -</u>                                                                                                                                                                                                                                                                                             |
|----------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SERVICES                   | (none)                 | The system matrix for DISTRIBUTION cost methodology for -<br>The User selected Service Category - SWITCHED or PRIVATE LINE.                                                                                                                                                                                                         |
| LCAT CODE                  | (none)                 | The system key code for this cost component                                                                                                                                                                                                                                                                                         |
| PLANT CODE                 | Any 5 (max) char. code | The User cross-reference code for the cost component or component group. Examples are "field" codes, sub-accounts.                                                                                                                                                                                                                  |
| DELIVERY                   | (none)                 | The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 -<br>Narrowband - denotes voice grade and sub-voice grade band width.<br>Wideband - denotes bandwidths of the first level of digital hierarchy.<br>Broadband - denotes bandwidths of the higher levels of digital hierarchy. |
| CATEGORY                   | (none)                 | The group of Methodology Categories                                                                                                                                                                                                                                                                                                 |
| SENSITIVITY INDEX          | F, V                   | The Volatility Index to Distance or Demand Sensitivity -<br>F for Fixed Value, Low sensitivity to Distance or Demand.<br>V for Variable Usage, Cost Sensitive to Distance or Demand.<br>S for Sunk Investment which only has an Annual Component.                                                                                   |
| RESOURCE ASSIGNMENT        | SHARED, DIRECT         | The Assigned Category of Circuit Function -<br>DIRECT for Dedicated or Circuit Specific Investment.<br>SHARED - for Multi-Circuit or Non-Specific Investment.                                                                                                                                                                       |

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*  
 \*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION \*\*\*\*\*

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## LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST\_METH  
SHEET 2 of 2COST METHODS ASSIGNMENT TABLE  
FEEDER SEGMENT

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 05-Dec-96

TIME: 08:28

COMPANY: CINCINNATI BELL TEL.  
STATE: OHIO

SWITCHED SERVICES

| PLANT ITEM              | WHEN BANDWIDTH DELIVERY IS |                     |                     |                     |             |                     |             |
|-------------------------|----------------------------|---------------------|---------------------|---------------------|-------------|---------------------|-------------|
|                         | NARROWBAND                 |                     | WIDEBAND            |                     | BROADBAND   |                     |             |
|                         | CATEGORY                   | SENS. INDEX         | RESOURCE ASSIGNMENT | CATEGORY            | SENS. INDEX | RESOURCE ASSIGNMENT | CATEGORY    |
| PLANT CODE              | SENS. INDEX                | RESOURCE ASSIGNMENT | SENS. INDEX         | RESOURCE ASSIGNMENT | SENS. INDEX | RESOURCE ASSIGNMENT | SENS. INDEX |
| LAND                    | 20C                        | F                   | SHARED              | F                   | SHARED      | F                   | SHARED      |
| BUILDING                | 10C                        | F                   | SHARED              | F                   | SHARED      | F                   | SHARED      |
| BLDG ENTRANCE CABLE     |                            |                     |                     |                     |             |                     |             |
| INTRABLDG CABLE         |                            |                     |                     |                     |             |                     |             |
| AERIAL CABLE (COPPER) ① | 22C                        | V                   | DIRECT              | V                   | DIRECT      | V                   | DIRECT      |
| BURIED CABLE (COPPER) ① | 45C                        | V                   | DIRECT              | V                   | DIRECT      | V                   | DIRECT      |
| UNDERGROUND (CU) CA. ①  | 5C                         | V                   | DIRECT              | V                   | DIRECT      | V                   | DIRECT      |
| CO EQPT - LOW CAP TERM  | 257C                       | F                   | DIRECT              | V                   | DIRECT      | V                   | DIRECT      |
| CO EQPT - LOW CAP CHAN  | 257C                       | V                   | DIRECT              | V                   | DIRECT      | V                   | DIRECT      |
| CO EQPT - HI CAP TERM   | 857C                       | F                   | DIRECT              | F                   | DIRECT      | F                   | DIRECT      |
| CO EQPT - HI CAP CHAN   | 857C                       | F                   | DIRECT              | F                   | DIRECT      | F                   | DIRECT      |
| CO EQPT - ANALOG SW     | 77C                        | V                   | DIRECT              | V                   | DIRECT      | V                   | DIRECT      |
| CO EQPT - DIGITAL SW    | 377C                       | V                   | DIRECT              | V                   | DIRECT      | V                   | DIRECT      |
| AERIAL CABLE (FIBER)    | 822C                       | F                   | DIRECT              | F                   | DIRECT      | F                   | DIRECT      |
| BURIED CABLE (FIBER)    | 845C                       | F                   | DIRECT              | F                   | DIRECT      | F                   | DIRECT      |
| UNDERGROUND (FO) CA.    | 85C                        | F                   | DIRECT              | F                   | DIRECT      | F                   | DIRECT      |
| CONNECTORS              | 57C                        | V                   | DIRECT              | V                   | DIRECT      | V                   | DIRECT      |
| MISC. COM EQP & PWR     | 57C                        | V                   | SHARED              | V                   | SHARED      | V                   | SHARED      |
| POLE LINE               | 1C                         | F                   | DIRECT              | F                   | DIRECT      | F                   | DIRECT      |
| CONDUIT                 | 4C                         | F                   | DIRECT              | F                   | DIRECT      | F                   | DIRECT      |

## FOOTNOTES

① THESE ASSIGNMENTS APPLY TO MULTIPLEXED COPPER FEEDER PAIRS, ONLY  
 BY DEFINITION: ITEMS LABELED F (fixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY  
 ITEMS LABELED F (fixed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES  
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

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TABLE - COST\_METH  
Sheet 2 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4

Issued : 07/31/85

| <u>Field / Group Title</u> | <u>Valid Inputs</u> | <u>This field or grouping defines -</u>                                                                                                                                                                                                                                                                                            |
|----------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SERVICES                   | (none)              | The system matrix for FEEDER cost methodology for -<br>The User selected Service Category - SWITCHED or PRIVATE LINE.                                                                                                                                                                                                              |
| LCAT CODE                  | (none)              | The system key code for this cost component                                                                                                                                                                                                                                                                                        |
| PLANT CODE                 | (none)              | The User nominated cross-reference code for the cost component or component group from the previous screen.                                                                                                                                                                                                                        |
| DELIVERY                   | (none)              | The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 -<br>Narrowband - denotes voice grade and sub-voice grade band width.<br>Wideband - denotes bandwidths of the first level of digital hierarchy.<br>Broadband - denotes bandwidths of the higher levels of digital hierarchy |
| CATEGORY                   | (none)              | The group of Methodology Categories                                                                                                                                                                                                                                                                                                |
| SENSITIVITY INDEX          | F, V                | The Volatility Index to Distance or Demand Sensitivity -<br>F for Fixed Value, Low sensitivity to Distance or Demand.<br>V for Variable Usage, Cost Sensitive to Distance or Demand.<br>S for Sunk Investment which only has an Annual Component.                                                                                  |
| RESOURCE ASSIGNMENT        | SHARED, DIRECT      | The Assigned Category of Circuit Function -<br>DIRECT for Dedicated or Circuit Specific Investment.<br>SHARED - for Multi-Circuit or Non-Specific Investment.                                                                                                                                                                      |

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*  
\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION \*\*\*\*\*

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| C:\123R24\LCAT\072\CRITERIA                            |  | LOOP COST ANALYSIS TOOL                                                     |  | Bellcore <sup>TM</sup>                      |  |
|--------------------------------------------------------|--|-----------------------------------------------------------------------------|--|---------------------------------------------|--|
| INPUT - STUDY SETUP                                    |  | GENERAL STUDY REQUIREMENTS                                                  |  | TODAY IS: 27-Jan-97                         |  |
| LCAT Rel.: 1.0.4                                       |  |                                                                             |  | LAST UPDATE:                                |  |
| Issue Date: 3/31/95                                    |  |                                                                             |  | 35-Dec-96 08:59 AM                          |  |
| STUDY NAME                                             |  | 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 0 - 14000 FEET INTRASTATE |  |                                             |  |
| COMMENTS                                               |  |                                                                             |  |                                             |  |
| SERVICE CLASS                                          |  | BAND 2 - RESIDENCE LINE                                                     |  | STUDY BASIS                                 |  |
|                                                        |  |                                                                             |  | <input checked="" type="checkbox"/> NETWORK |  |
|                                                        |  |                                                                             |  | <input type="checkbox"/> INDIVIDUAL         |  |
| COMPANY                                                |  | CINCINNATI BELL TEL.                                                        |  | INVESTMENT YEAR                             |  |
|                                                        |  |                                                                             |  | 1996                                        |  |
| STATE / PROVINCE                                       |  | OHIO                                                                        |  | LOOP CHAR. STUDY YEAR                       |  |
|                                                        |  |                                                                             |  | 1996                                        |  |
| CITY / AREA                                            |  | CINCINNATI                                                                  |  | STUDY YEAR                                  |  |
|                                                        |  |                                                                             |  | 1996                                        |  |
| DENSITY CELL MIX                                       |  | 0 100 0 0                                                                   |  | TEST CASE                                   |  |
|                                                        |  | VH HI MED LO                                                                |  | 1                                           |  |
| DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY: |  |                                                                             |  |                                             |  |
| Type Percent Mix:                                      |  |                                                                             |  |                                             |  |
| 100 FIBER IN THE LOOP                                  |  |                                                                             |  |                                             |  |
| 0 COPPER DIG LOOP CXR                                  |  |                                                                             |  |                                             |  |

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INPUT - STUDY SETUP  
Sheet 1 of 2

**HELP SCREEN****Bellcore** (R)

LCAT Rel. 1.0.4  
ISSUED: 3/31/95

**THIS DISPLAY** This display's data and the data of the subsequent display are a record of this study's criteria and the system's parameters and is the TITLE PAGE of this study. Printouts should accompany the input, worksheets, and results.

**STUDY NAME** Enter in Free Form up to 35 Characters for a Study Title. This data will be inserted in the title box of the title display of each run module.

**COMMENTS** Enter in Free Form (as in a Word Processor) FOUR lines (Word Wrap is active) of Commentary that will help Explain the study criteria and rationale. The space will allow approximately 72 proportionately spaced characters per line, 288 total. To begin just start typing in the data after <Enter>ing the previous item. The character guide will appear after the first character is entered. Data can be edited in the normal WP manner, using the <BS>, <Del>, <Up>, <Dn>, etc... keys. PRESS THE <Enter> KEY TO STOP INPUTTING DATA.

**STUDY BASIS** Select with an 'X' either an average NETWORK study or an INDIVIDUAL CASE study.

**FACILITY TYPE** Select by entering the percent of technology mix, the Facility types in the loop network that support the service/s/ under study or enter an 'X' to denote incision.

**CELL DENSITY** Select by entering the percent of cell density mix, based upon the scope of the jurisdiction and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERY HIGH, HIGH, MEDIUM, LOW qualifiers, such as, METRO, URBAN, SUBURBAN, and RURAL.

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| C:\123R24\LCATRD72\CRITERIA                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                 |                                                                      | Bellcore                                                                                                                                                                                                                      |           |          |         |            |   |            |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|---------|------------|---|------------|
| <b>INPUT - STUDY SETUP</b><br>SHEET 2 / 2<br><br>COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>GENERAL STUDY REQUIREMENTS</b><br><b>STUDY QUESTIONS</b><br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |                                                                      | LCAT Rel. 1.0.4<br>ISSUED: 3/31/95<br>STUDY YEAR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 05-Dec-96<br>TIME: 08:50 AM                                                                                                            |           |          |         |            |   |            |
| <b>SELECTED QUESTIONS</b>                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| <b>CONCERNING - SERVICE SPEC.</b>                                                                                               | 1. Is this Study for a NEW Installation or an ADDITION ? .....<br>2. Is this Study for a SWITCHED or PRIVATE LINE Service ? .....<br>3. Is this Study for Narrow, Wide, or Broadband Services .....<br>4. Is this Study for 2 Wire or 4 Wire Transmission ? .....                                                                                                                                                                                                                                                                      |                                                                                                                                                                | <b>VALID RESPONSE SET</b><br>N or A<br>S or P<br>N, W or B<br>2 or 4 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>NEW</td></tr> <tr><td>SWITCHED</td></tr> <tr><td>NARBAND</td></tr> <tr><td>2</td></tr> </table>                                                    | NEW       | SWITCHED | NARBAND | 2          |   |            |
| NEW                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| SWITCHED                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| NARBAND                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| 2                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| <b>OFFICE CHAR.</b>                                                                                                             | 5. What Percent of the C.O. Switch Installations are DIGITAL Switches? .....<br>6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? .....<br>7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? .....<br>8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ? .....                                                                                                                                                                                                                      |                                                                                                                                                                | 0 → 100<br>0 → 100<br>0 → 100<br>e.g., 12000                         | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>100</td></tr> <tr><td>0</td></tr> <tr><td></td></tr> <tr><td>14000 Feet</td></tr> </table>                                                         | 100       | 0        |         | 14000 Feet |   |            |
| 100                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| 0                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
|                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| 14000 Feet                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| <b>RESULTS SPEC.</b>                                                                                                            | 9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? .....<br>9a. If Distance Sensitive, what band increments do you want ? .....<br>10. How many Cost Bands in this study ? .....<br>11. Should this Study result in Investment, Cost, or All values ? .....<br>12. Is this study for Total Incremental or Marginal Costs ? .....<br>13. How many circuits (loops) in this Study ? .....<br>14. The study classification is ..... (e.g.; RATES PLAN, TEST DATA, NEW SERVICE)<br>Required for the 'Footer' of each Report page. |                                                                                                                                                                | For D<br>1, 2, 3, 4<br>C or A<br>T or M<br>10000                     | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>FLAT RATE</td></tr> <tr><td>0</td></tr> <tr><td>COST</td></tr> <tr><td>10 INCR</td></tr> <tr><td>1</td></tr> <tr><td>RATES PLAN</td></tr> </table> | FLAT RATE | 0        | COST    | 10 INCR    | 1 | RATES PLAN |
| FLAT RATE                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| 0                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| COST                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| 10 INCR                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| 1                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |
| RATES PLAN                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                               |           |          |         |            |   |            |

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## HELP SCREEN

Bellcore

INPUT - STUDY SETUP

LCAT Rel. 1.0.4  
ISSUED: 3/31/95

1. Specify **N** for New Installations or **A** for Addition to existing installations are being studied.
2. Specify **S** for the Switched Services or **P** for the Private Line (Special) Service category.
3. Specify **N** for Narrowband (DS0), **W** for Wideband (DS1), or **B** for Broadband Services category.
4. Specify as **2** for 2-wire or **4** for 4-wire, the circuit transmission paths used by the service/s being studied.
5. Specify Digital Switch Mix as a Percentage of Installations over Analog in the Jurisdiction.
6. & 7. Specify Integrated DLC Mix as a Percentage of the DLC equipment requirements.  
Using **6.** for Switched Services or Using **7.** for Special (Private Line) Services.
8. Enter in feet, the loop length beyond which only Digital Loop Carrier Technology will be considered
9. Specify **F** for Flat Rate Loop or **D** for Distance Sensitive Bands, for the Cost Structure of the study
- 9A. Enter **1, 2, 3, or 4** to specify either 1/4, 1/2, 3/4, or 1 mile, respectively, band increments in a Distance Sensitive Study
10. Specify the quantity of Cost Bands of Loop Lengths will be studied, for upto a maximum of 5 bands.  
Enter **0** for Network Averaged (non-Banded) Input or Individual Circuit Flat Rate Cost Studies.
11. Specify **I** for Investment Only results or **C** for resultant Annual and Monthly Recurring Costs or **A** for All values.
12. Specify **T** for Total Incremental or **M** for Marginal (Direct Incremental) Average Weighted Costs Study.
13. Enter the quantity of loop circuits that will be the demand basis of this cost study.  
Nominally, entering **1** provides a "UNIT" cost and any other value, a "TOTAL" cost.

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|                                    |                                                       |                                       |
|------------------------------------|-------------------------------------------------------|---------------------------------------|
| CA123R24\LCATR072\DESIGN           | <b>LOOP COST ANALYSIS TOOL</b>                        | <b>Bellcore</b>                       |
| INPUT - LOOP_DESIGN<br>Sheet 1 / 1 | CIRCUIT DESIGN REQUIREMENTS<br>CHARACTERISTICS<br>FOR | LCAT Rel: 1.0.4<br>Issued: 07/31/95 - |
| COMPANY : CINCINNATI BELL TEL.     | INVESTMENT YEAR: 1996                                 | STUDY YR: 1996                        |
| CITY / AREA : CINCINNATI           | LOOP STUDY YEAR: 1996                                 | TEST CASE: 1                          |
| STATE / PROV : OHIO                | SERVICE CLASS: BAND 2 - RESIDENCE LINE                | LAST UPDATE: 05-Dec-96<br>TIME: 09:01 |

**CIRCUIT DESIGN****Study Parameters**Study Basis: **NETWORK STUDY**Service Level: **NARBAND**Loop Topology: **STAR****CIRCUIT LAYOUT REQUIREMENTS -  
FOR FIBER HUBS & FEEDER EXTENSIONS**

(FIBER HUB TO REMOTE TERMINAL LINK)

**FACILITY INTERFACE SITES :**

Proportion of Fiber Circuits

WITHOUT Fiber Hubs

**FACILITY TECHNOLOGIES:**

Of the Hubbed Circuits -

Proportion of links on Fiber Tech.

Proportion of links on CDLC / MAR

**FOR SERVICE ACCESS NETWORK**

(REMOTE TERMINAL TO CUSTOMER LINK)

**FACILITY INTERFACE SITES :**

Proportion of Remote terminals

colocated at Customer Premises

**CIRCUIT DESIGN REQUIREMENTS -  
SELECTION & DISTRIBUTION:**Note**FOR FIBER DLC DESIGNS:**

Weighting of Design #1

Weighting of Design #2

Weighting of Design #3

Weighting of Design #4

NA

Weighting of Design #5

NA

Weighting of Design #6

NA

ChkSum

**FOR COPPER DLC DESIGNS:**

Weighting of Design #1

Weighting of Design #2

NA

ChkSum

NA DENOTES THAT THE CIRCUIT DESIGN  
PROBABLY DOES NOT APPLY TO THIS  
SET OF STUDY PARAMETERS.



C:\123R24\LCATR072\DESIGN  
INPUT - LOOP\_DESIGN  
Sheet 1 of 1

HELP SCREEN

Bellcore

LCAT Rel :1.0.4  
Issued :07/31/95

**DIGITAL LOOP  
CARRIER  
DESIGNS**

Each Loop's circuit layout is broken down into potentially the FEEDER, the DISTRIBUTION, and the DROP segment. The FEEDER segment can have THREE Spans, the PRIMARY and EXTENSION are realtime, but, the SUBFEEDER is a "filler" for spans or distances under PAIR GAIN Deployment and will be employed using engineering rules and network characteristics. The potential Fiber Optic DLC and Copper DLC circuit layouts have been categorized into several generic designs for purposes of narrowing down the complexity of the network contribution. The *DESIGN*s represent unique combinations of layers (COLLOCATION) and the transport media. There is a chart of these *DESIGN*s included in the DATA CATALOG and the METHODOLOGY sections of the User Guide.

**COLLOCATIONS** To be defined as the combining of Loop functions at the same location, excluding the need for translation of the transport function (eliminating the OSP and termination equipment). Note that the sum of the probabilities do not have to equal total universe, therefore, the proportions are a function of the total serving universe (total loop network).

**FIBER HUBS &  
FEEDER  
EXTENSIONS**

These values represent the proportion of each technology used in the layouts which DO NOT have collocated FIBER HUB and REMOTE TERMINAL functions.

**WARNING** → This function must be in place for "RING" topologies as 100% FIBER, therefore, the *DESIGN* choices are limited for RING to *DESIGN*s 1 and 5. All other *DESIGN* are to be avoided.

**SERVICE  
SPECIFIC**

To avoid circuit layout conflict with certain service levels, the input choices will be limited for BROADBAND service levels to those which currently support DS3 Xconn at both ends. Currently, that is, *DESIGN* 4, 5, & 6.

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| C:\123R24\LCATR072\FACILITY                                    |  | <b>LOOP COST ANALYSIS TOOL</b>          |                                 | Bellcore?              |
|----------------------------------------------------------------|--|-----------------------------------------|---------------------------------|------------------------|
| TABLE - SPAN INV<br>SHEET 1 / 4                                |  | LOOP FACILITY INPUT<br>FIBER CABLE DATA |                                 | LCAT Rel: 1.3.4        |
| COMPANY: CINCINNATI BELL TEL.                                  |  | FOR                                     |                                 | Issued: 07/31/95       |
| CITY / AREA: CINCINNATI                                        |  | INVESTMENT YEAR: 1996                   |                                 | STUDY YR: 1996         |
| STATE/PROV: OHIO                                               |  | LOOP STUDY YEAR: 1996                   |                                 | TEST CASE: 1           |
|                                                                |  | SERVICE CLASS: BAND 2 - RESIDENCE LINE  |                                 | LAST UPDATE: 05-Dec-96 |
|                                                                |  |                                         |                                 | TIME: 09:04            |
| <b>FIBER CABLE INVESTMENT AND CHARACTERISTICS</b>              |  |                                         |                                 |                        |
|                                                                |  | FOR<br>FEEDER<br>SEGMENTS               | FOR<br>DISTRIBUTION<br>SEGMENTS |                        |
| <b>CABLE TYPE MIX (DISTRIBUTION TO CODE):</b>                  |  |                                         |                                 |                        |
| Proportion of FIBER cable installations that are ....          |  | AERIAL                                  | 0.4800                          | 0.0000 factors         |
|                                                                |  | BURIED                                  | 0.0000                          | 0.0000 factors         |
|                                                                |  | UNDGRD                                  | 0.5200                          | 0.0000 factors         |
| <b>INVESTMENT PER CABLE PAIR FOOT</b>                          |  |                                         |                                 |                        |
| <b>BY CABLE TYPE:</b>                                          |  |                                         |                                 |                        |
| Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y/N) |  | <input type="checkbox"/> N              | [Required with INDIVIDUAL Mode] |                        |
| If not, Update Unit Averages as Follows :                      |  |                                         |                                 |                        |
| <b>PRIMARY SEGMENT</b>                                         |  |                                         |                                 |                        |
| Average Unit Investment for FIBER cable,                       |  | AERIAL                                  | \$ 0.1930                       | per fiber pair Foot    |
| Installed as ....                                              |  | BURIED                                  | \$ 0.2694                       | per fiber pair Foot    |
|                                                                |  | UNDGRD                                  | \$ 0.1827                       | per fiber pair Foot    |
|                                                                |  | (to Fiber Hub)                          |                                 |                        |
| <b>FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT</b>     |  |                                         |                                 |                        |
| Average Unit Investment for FIBER cable,                       |  | AERIAL                                  | \$ 0.1930                       | per fiber pair Foot    |
| Installed as ....                                              |  | BURIED                                  | \$ 0.2694                       | per fiber pair Foot    |
|                                                                |  | UNDGRD                                  | \$ 0.1827                       | per fiber pair Foot    |
|                                                                |  | (Remote Terminal to Service Point)      |                                 |                        |

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**LOOP COST ANALYSIS TOOL****Belcore**TABLE - SPAN INV  
SHEET 1A/4LOOP FACILITY INPUT  
FIBER CABLE DATA - BY CABLE SHEATH DETAILLCAT Ver: 1.0.4  
Issued: 07/31/95  
STUDY YR: 1996  
TEST CASE: 1  
LAST UPDATE: 05-Dec-96  
TIME: 09:04COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE/PROV: OHIOINVESTMENT YEAR: 1996  
LOOP STUDY YEAR: 1996  
SERVICE CLASS: BAND 2 - RESIDENCE LINE**FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE**

| Cable Sheath Sizes |             |        | Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size |        |             |  |
|--------------------|-------------|--------|-------------------------------------------------------------------|--------|-------------|--|
| CAPACITY           |             |        | AERIAL                                                            | BURIED | UNDERGROUND |  |
| INDEX              |             |        |                                                                   |        |             |  |
| 4                  | Fiber Cable | 2 pr   | \$                                                                |        | \$          |  |
| 6                  | Fiber Cable | 3 pr   | \$                                                                |        | \$          |  |
| 12                 | Fiber Cable | 6 pr   | \$                                                                |        | \$          |  |
| 18                 | Fiber Cable | 9 pr   | \$                                                                |        | \$          |  |
| 24                 | Fiber Cable | 12 pr  | \$                                                                |        | \$          |  |
| 36                 | Fiber Cable | 18 pr  | \$                                                                |        | \$          |  |
| 48                 | Fiber Cable | 24 pr  | \$                                                                |        | \$          |  |
| 60                 | Fiber Cable | 30 pr  | \$                                                                |        | \$          |  |
| 72                 | Fiber Cable | 36 pr  | \$                                                                |        | \$          |  |
| 84                 | Fiber Cable | 42 pr  | \$                                                                |        | \$          |  |
| 96                 | Fiber Cable | 48 pr  | \$                                                                |        | \$          |  |
| 144                | Fiber Cable | 72 pr  | \$                                                                |        | \$          |  |
| 192                | Fiber Cable | 96 pr  | \$                                                                |        | \$          |  |
| 216                | Fiber Cable | 108 pr | \$                                                                |        | \$          |  |

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TABLE - SPAN\_INV  
SHEET 1 / 4

HELP SCREEN

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LCAT Rel : 1.0.4  
Issued : 07/31/95

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*

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| CA123R24LCAT072/FACILITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |                                       |                                       | <b>Bellcore (R)</b>                                                                                          |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|---------|-----------|-----------|---------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|-----------|-----------|---------|-----------|-----------|---------|--------|-----------|-----------|--------|-----------|-----------|---------|-----------|-----------|---------------------------------------------------------------------|--------|--------|---------------------------------------------------------------------|--|
| TABLE - SPAN_INV<br>SHEET 2 / 4<br><br>COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              | LOOP FACILITY INPUT<br>COPPER CABLE DATA<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       |                                       |                                       | LCAT Re: 1.0.4<br>Issue: 07/31/96<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 05-Dec-96<br>TIME: 09:04 |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| <b>COPPER CABLE CHARACTERISTICS AND INVESTMENTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| <b>Cable Gauge Mix :</b> <u>GAUGE</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              | <b>FEEDER</b><br><b>SEGMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       | <b>DISTRIBUTION</b><br><b>SEGMENT</b> |                                       | <b>Unit Investment per Cable Pair Foot</b><br><b>By Cable Type, By Cable Gauge :</b>                         |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| The Proportion of<br>Copper Cable that is ....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">26 GA.</td><td style="width: 50%;">0.1500</td></tr> <tr><td>24 GA.</td><td>0.8500</td></tr> <tr><td>22 GA.</td><td>0.0000</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                       | 26 GA.                                | 0.1500                                | 24 GA.                                                                                                       | 0.8500                                | 22 GA.                                         | 0.0000    | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">0.1500</td><td style="width: 50%;">0.1500</td></tr> <tr><td>0.8500</td><td>0.8500</td></tr> <tr><td>0.0000</td><td>0.0000</td></tr> </table> |           | 0.1500    | 0.1500  | 0.8500    | 0.8500    | 0.0000  | 0.0000 | Update Cable Sheath Prices      [Required with INDIVIDUAL Mode]<br>on the FULL SET Input SHEET ? (Y / N) <input type="text" value="N"/><br>If not, Update |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| 26 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.1500       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| 24 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.8500       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| 22 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0000       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| 0.1500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.1500       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| 0.8500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.8500       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0000       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| <b>Cable Type Mix, By Gauge :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;"></th> <th style="width: 10%;"><u>GAUGE</u></th> <th style="width: 10%;"><u>FEEDER</u><br/><u>SEGMENT</u></th> <th style="width: 10%;"><u>DISTRIBUTION</u><br/><u>SEGMENT</u></th> </tr> <tr> <td rowspan="3">The Proportion of<br/>Copper Cable that is ....</td> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>0.2900</td> <td>0.6200</td> </tr> <tr> <td>BURIED</td> <td>0.0200</td> <td>0.3300</td> </tr> <tr> <td>UNDGRND</td> <td>0.6900</td> <td>0.0500</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>0.2900</td> <td>0.6200</td> </tr> <tr> <td>BURIED</td> <td>0.0200</td> <td>0.3300</td> </tr> <tr> <td>UNDGRND</td> <td>0.6900</td> <td>0.0500</td> </tr> <tr> <td rowspan="3">22 GA.</td> <td>AERIAL</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>UNDGRND</td> <td>0.0000</td> <td>0.0000</td> </tr> </table> |                                       |                                       | <u>GAUGE</u>                          | <u>FEEDER</u><br><u>SEGMENT</u>                                                                              | <u>DISTRIBUTION</u><br><u>SEGMENT</u> | The Proportion of<br>Copper Cable that is .... | 26 GA.    | AERIAL                                                                                                                                                                                                                                      | 0.2900    | 0.6200    | BURIED  | 0.0200    | 0.3300    | UNDGRND | 0.6900 | 0.0500                                                                                                                                                    | 24 GA.    | AERIAL | 0.2900    | 0.6200    | BURIED  | 0.0200    | 0.3300    | UNDGRND | 0.6900 | 0.0500    | 22 GA.    | AERIAL | 0.0000    | 0.0000    | BURIED  | 0.0000    | 0.0000    | UNDGRND                                                             | 0.0000 | 0.0000 | Average Unit<br>Investment for<br>Copper Cable<br>Installed as .... |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>GAUGE</u> | <u>FEEDER</u><br><u>SEGMENT</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>DISTRIBUTION</u><br><u>SEGMENT</u> |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| The Proportion of<br>Copper Cable that is ....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 26 GA.       | AERIAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.2900                                | 0.6200                                |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | BURIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0200                                | 0.3300                                |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              | UNDGRND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.6900                                | 0.0500                                |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| 24 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AERIAL       | 0.2900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.6200                                |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BURIED       | 0.0200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.3300                                |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNDGRND      | 0.6900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0500                                |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| 22 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AERIAL       | 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0000                                |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BURIED       | 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0000                                |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNDGRND      | 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.0000                                |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;"></th> <th style="width: 10%;"><u>GAUGE</u></th> <th style="width: 10%;"><u>FEEDER</u><br/><u>SEGMENT</u></th> <th style="width: 10%;"><u>DISTRIBUTION</u><br/><u>SEGMENT</u></th> </tr> <tr> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>\$ 0.0119</td> <td>\$ 0.0426</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0205</td> <td>\$ 0.0668</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0110</td> <td>\$ 0.0580</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>\$ 0.0119</td> <td>\$ 0.0426</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0205</td> <td>\$ 0.0668</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0110</td> <td>\$ 0.0580</td> </tr> <tr> <td rowspan="3">22 GA.</td> <td>AERIAL</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> </tr> </table> |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>GAUGE</u>                          | <u>FEEDER</u><br><u>SEGMENT</u>       | <u>DISTRIBUTION</u><br><u>SEGMENT</u> | 26 GA.                                                                                                       | AERIAL                                | \$ 0.0119                                      | \$ 0.0426 | BURIED                                                                                                                                                                                                                                      | \$ 0.0205 | \$ 0.0668 | UNDGRND | \$ 0.0110 | \$ 0.0580 | 24 GA.  | AERIAL | \$ 0.0119                                                                                                                                                 | \$ 0.0426 | BURIED | \$ 0.0205 | \$ 0.0668 | UNDGRND | \$ 0.0110 | \$ 0.0580 | 22 GA.  | AERIAL | \$ 0.0000 | \$ 0.0000 | BURIED | \$ 0.0000 | \$ 0.0000 | UNDGRND | \$ 0.0000 | \$ 0.0000 | Average Unit<br>Investment for<br>Copper Cable<br>Installed as .... |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>GAUGE</u> | <u>FEEDER</u><br><u>SEGMENT</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>DISTRIBUTION</u><br><u>SEGMENT</u> |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| 26 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AERIAL       | \$ 0.0119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | \$ 0.0426                             |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BURIED       | \$ 0.0205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | \$ 0.0668                             |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNDGRND      | \$ 0.0110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | \$ 0.0580                             |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| 24 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AERIAL       | \$ 0.0119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | \$ 0.0426                             |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BURIED       | \$ 0.0205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | \$ 0.0668                             |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNDGRND      | \$ 0.0110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | \$ 0.0580                             |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
| 22 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AERIAL       | \$ 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | \$ 0.0000                             |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BURIED       | \$ 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | \$ 0.0000                             |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UNDGRND      | \$ 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | \$ 0.0000                             |                                       |                                       |                                                                                                              |                                       |                                                |           |                                                                                                                                                                                                                                             |           |           |         |           |           |         |        |                                                                                                                                                           |           |        |           |           |         |           |           |         |        |           |           |        |           |           |         |           |           |                                                                     |        |        |                                                                     |  |

NOTE : If the DROP WIRE resource investment is average values, it may be backed out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input file worksheet.

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| C:\123R24\LCATR072\FACILITY                                                       |          | LOOP COST ANALYSIS TOOL                                                  |       |        |        |        |        |        |        |        |        | Belcore                |
|-----------------------------------------------------------------------------------|----------|--------------------------------------------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|------------------------|
| TABLE - SPAN INV<br>SHEET 2A / 4                                                  |          | LOOP FACILITY INPUT<br>COPPER CABLE DATA - BY CABLE SHEATH DETAIL<br>FOR |       |        |        |        |        |        |        |        |        | LCAT Ref: 1.0.2        |
| COMPANY: CINCINNATI BELL TEL.                                                     |          | INVESTMENT YEAR: 1996                                                    |       |        |        |        |        |        |        |        |        | Issued: 07/31/96       |
| CITY / AREA: CINCINNATI                                                           |          | LOOP STUDY YEAR: 1996                                                    |       |        |        |        |        |        |        |        |        | STUDY YR: 1996         |
| STATE/PROV: OHIO                                                                  |          | SERVICE CLASS: BAND 2 - RESIDENCE LINE                                   |       |        |        |        |        |        |        |        |        | TEST CASE: 1           |
|                                                                                   |          |                                                                          |       |        |        |        |        |        |        |        |        | LAST UPDATE: 05-Dec-96 |
|                                                                                   |          |                                                                          |       |        |        |        |        |        |        |        |        | TIME: 09:04            |
| COPPER CABLE INVESTMENT REFERENCE TABLE                                           |          |                                                                          |       |        |        |        |        |        |        |        |        |                        |
| Unit Investment Per Cable Pair Foot. By Cable Gauge, By Cable Type, By Cable Size |          |                                                                          |       |        |        |        |        |        |        |        |        |                        |
| Cable Sheath Sizes                                                                | Capacity | Gauge                                                                    | INDEX | 26 GA. |        |        | 24 GA. |        |        | 22 GA. |        |                        |
|                                                                                   |          |                                                                          |       | AERIAL | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD                 |
| 40 Copper Cable                                                                   | 20 pr    |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 50 Copper Cable                                                                   | 25 pr    |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 80 Copper Cable                                                                   | 40 pr    |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 100 Copper Cable                                                                  | 50 pr    |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 140 Copper Cable                                                                  | 70 pr    |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 200 Copper Cable                                                                  | 100 pr   |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 400 Copper Cable                                                                  | 200 pr   |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 600 Copper Cable                                                                  | 300 pr   |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 800 Copper Cable                                                                  | 400 pr   |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 1200 Copper Cable                                                                 | 600 pr   |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 1800 Copper Cable                                                                 | 900 pr   |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 2400 Copper Cable                                                                 | 1200 pr  |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 3000 Copper Cable                                                                 | 1500 pr  |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 3600 Copper Cable                                                                 | 1800 pr  |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 4200 Copper Cable                                                                 | 2100 pr  |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 4800 Copper Cable                                                                 | 2400 pr  |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 5400 Copper Cable                                                                 | 2700 pr  |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 6000 Copper Cable                                                                 | 3000 pr  |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 7200 Copper Cable                                                                 | 3600 pr  |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |
| 8400 Copper Cable                                                                 | 4200 pr  |                                                                          | \$    |        |        |        |        |        |        |        |        |                        |

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C:\123R24\LCATR072\FACILITY  
TABLE - SPAN\_INV  
SHEET 2 / 4

HELP SCREEN

**Belcore**  
LCAT Rel: 1.0.4  
Issued: 07/31/95

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS - REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*

\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION \*\*\*\*\*

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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C:\123R24\LCAT072\FACILITY.WK1

## LOOP COST ANALYSIS TOOL

Bellcore®

SPAN INV - WORKSHEET  
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELLING  
WORKSHEET ALCAT Ver: 1.0.4  
Issue Date: 07/31/95  
STUDY YR: 1996  
TEST CASE: 1996  
DATE: 1  
LAST UPDATE: 05-Dec-96  
TIME: 09:04COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE/PROV: OHIOFACILITY TYPE: COPPER CABLE  
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 2 - RESIDENCE LINE

| DATA DESC.           | (DISTRIBUTION TO CODE)<br>CABLE TYPE MIX (p...dst) | PER FOOT INVESTMENT (pfi...ds) | CABLE GAUGE MIX (copper...dst) | ADJUSTED CABLE TYPE | ADJUSTED PFI |
|----------------------|----------------------------------------------------|--------------------------------|--------------------------------|---------------------|--------------|
| CHARACTERISTICS FOR: | [A]                                                | [B]                            | [C]                            | [D=A*C]             | [E=B*C]      |
| AERIAL @ 26 GA.      | 0.620000                                           | \$ 0.042600                    | 0.1500                         | 0.093000            | \$ 0.006390  |
| BURIED @ 26 GA.      | 0.330000                                           | \$ 0.066800                    | 0.1500                         | 0.049500            | \$ 0.010020  |
| UNDGRND @ 26 GA.     | 0.050000                                           | \$ 0.058000                    | 0.1500                         | 0.007500            | \$ 0.008700  |
| AERIAL @ 24 GA.      | 0.620000                                           | \$ 0.042600                    | 0.8500                         | 0.527000            | \$ 0.036210  |
| BURIED @ 24 GA.      | 0.330000                                           | \$ 0.066800                    | 0.8500                         | 0.280500            | \$ 0.056780  |
| UNDGRND @ 24 GA.     | 0.050000                                           | \$ 0.058000                    | 0.8500                         | 0.042500            | \$ 0.049300  |
| AERIAL @ 22 GA.      | 0.000000                                           | \$ 0.000000                    | 0.0000                         | 0.000000            | \$ 0.000000  |
| BURIED @ 22 GA.      | 0.000000                                           | \$ 0.000000                    | 0.0000                         | 0.000000            | \$ 0.000000  |
| UNDGRND @ 22 GA.     | 0.000000                                           | \$ 0.000000                    | 0.0000                         | 0.000000            | \$ 0.000000  |

Check = 1.00

--- TABLE 2 ---

--- TABLE 4 ---

--- TABLE 6 ---

| DATA DESC.           | CABLE TYPE MIX<br>RANGE NAME | MELDED GAUGES | PAIR / FOOT INVESTMENT<br>RANGE NAME | MELDED GAUGES | PAIR / FOOT INVESTMENT<br>RENORMALIZED<br>AERIAL / BURIED | MELDED GAUGES |
|----------------------|------------------------------|---------------|--------------------------------------|---------------|-----------------------------------------------------------|---------------|
| CHARACTERISTICS FOR: | [F=sum(D*Type)]              |               | [G=sum(E*Type)]                      |               | [H=E*Type / sum(F*Type)]                                  |               |
| AERIAL               | 0.620000                     |               | \$ 0.042600                          |               | \$ 0.652632                                               |               |
| BURIED               | 0.330000                     |               | \$ 0.066800                          |               | \$ 0.347368                                               |               |
| UNDERGRND            | 0.050000                     |               | \$ 0.058000                          |               | -                                                         |               |
|                      | Check = 1.000000             |               |                                      |               | Check = 1.000000                                          |               |

FOOTNOTES

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| C:\123R24\LCATR072\FACILITY.WK1                                                |                                                          | LOOP COST ANALYSIS TOOL                                       |                                         |                        |                                         | Bellcore (R)                                                                           |  |
|--------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------|------------------------|-----------------------------------------|----------------------------------------------------------------------------------------|--|
| SPAN: 107 - WORKSHEET<br>Sheet 2 / 3                                           |                                                          | COPPER CABLE DISTRIBUTIONS MELDING<br>WORKSHEET A<br>FOR      |                                         |                        |                                         | LCAT Ver: 1.0.4<br>Issue Date: 07/31/95                                                |  |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                                                          | FACILITY TYPE: COPPER CABLE<br>DESIGN TYPE: SUBFEEDER SEGMENT |                                         |                        |                                         | STUDY YR: 1996<br>TEST CASE: 1996<br>DATE: --<br>LAST UPDATE: 05-Dec-96<br>TIME: 09:04 |  |
|                                                                                |                                                          | SERVICE CLASS: BAND 2 - RESIDENCE LINE                        |                                         |                        |                                         |                                                                                        |  |
| MELDED CABLE INVESTMENT PER PAIR FOOT                                          |                                                          |                                                               |                                         |                        |                                         |                                                                                        |  |
| DATA<br>DESC.                                                                  | (DISTRIBUTION<br>TO CODE)<br>CABLE TYPE MIX<br>(p...fdr) | PER FOOT<br>INVESTMENT<br>(pft...td)                          | CABLE<br>GAUGE MIX<br>(copper...fdr)    | ADJUSTED<br>CABLE TYPE | ADJUSTED<br>PFI                         |                                                                                        |  |
| CHARACTERISTICS FOR:                                                           | [A]                                                      | [B]                                                           | [C]                                     | [D=A*C]                | [E=B*C]                                 |                                                                                        |  |
| AERIAL @ 26 GA.                                                                | 0.290000                                                 | \$ 0.011900                                                   | 0.1500                                  | 0.043500               | \$ 0.001785                             |                                                                                        |  |
| BURIED @ 26 GA.                                                                | 0.020000                                                 | \$ 0.020500                                                   | 0.1500                                  | 0.003000               | \$ 0.003075                             |                                                                                        |  |
| UNDGRND @ 26 GA.                                                               | 0.690000                                                 | \$ 0.011000                                                   | 0.1500                                  | 0.103500               | \$ 0.001650                             |                                                                                        |  |
| AERIAL @ 24 GA.                                                                | 0.290000                                                 | \$ 0.011900                                                   | 0.8500                                  | 0.246500               | \$ 0.010115                             |                                                                                        |  |
| BURIED @ 24 GA.                                                                | 0.020000                                                 | \$ 0.020500                                                   | 0.8500                                  | 0.017000               | \$ 0.017425                             |                                                                                        |  |
| UNDGRND @ 24 GA.                                                               | 0.690000                                                 | \$ 0.011000                                                   | 0.8500                                  | 0.586500               | \$ 0.008350                             |                                                                                        |  |
| AERIAL @ 22 GA.                                                                | 0.000000                                                 | \$ 0.000000                                                   | 0.0000                                  | 0.000000               | \$ 0.000000                             |                                                                                        |  |
| BURIED @ 22 GA.                                                                | 0.000000                                                 | \$ 0.000000                                                   | 0.0000                                  | 0.000000               | \$ 0.000000                             |                                                                                        |  |
| UNDGRND @ 22 GA.                                                               | 0.000000                                                 | \$ 0.000000                                                   | 0.0000                                  | 0.000000               | \$ 0.000000                             |                                                                                        |  |
| Check = 1.00                                                                   |                                                          |                                                               |                                         |                        |                                         |                                                                                        |  |
| TABLE 2                                                                        |                                                          | TABLE 4                                                       |                                         | TABLE 6                |                                         |                                                                                        |  |
| DATA<br>DESC.                                                                  | CABLE TYPE MIX<br>RANGE<br>NAME                          | MELDED<br>GAUGES                                              | PAIR / FOOT INVESTMENT<br>RANGE<br>NAME | MELDED<br>GAUGES       | PAIR / FOOT INVESTMENT<br>RANGE<br>NAME |                                                                                        |  |
| CHARACTERISTICS FOR:                                                           | [F=sum(D*Type)]                                          |                                                               | [G=sum(E*Type)]                         |                        | [H=F*Type/sum(F*Type)]                  |                                                                                        |  |
| AERIAL                                                                         | 0.290000                                                 |                                                               | \$ 0.011900                             |                        | \$ 0.001785                             |                                                                                        |  |
| BURIED                                                                         | 0.020000                                                 |                                                               | \$ 0.020500                             |                        | \$ 0.003075                             |                                                                                        |  |
| UNDERGRND                                                                      | 0.690000                                                 |                                                               | \$ 0.011000                             |                        | \$ 0.001650                             |                                                                                        |  |
| Check = 1.000000                                                               |                                                          |                                                               |                                         | Check = 1.000000       |                                         |                                                                                        |  |
| FOOTNOTES                                                                      |                                                          |                                                               |                                         |                        |                                         |                                                                                        |  |

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| C:\123R24\LCATR072\FACILITY.WK1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          | LOOP COST ANALYSIS TOOL                                           |                                      |                        |                 | Bellcore <sup>®</sup>                                                                 |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------|------------------------|-----------------|---------------------------------------------------------------------------------------|--|-----------------------------------------------------------|---------------------------------|------------------------|----------------------|-----------------|--|-------------|----------|---------|----------|----------|--|-----------|----------|--|---------|----------|--|-----------------------------------------|------------------|-----------------|--|-------------|--|-------------|--|-------------|--|---------|----------|
| SPAN INV - WORKSHEET<br>Sheet 2 / 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          | COPPER CABLE DISTRIBUTIONS WELDING<br>WORKSHEET A<br>FOR          |                                      |                        |                 | LCAT Ver: 1.0.4<br>Issue Date: 07/31/95                                               |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                          | - FACILITY TYPE: COPPER CABLE<br>- DESIGN TYPE: SUBFEEDER SEGMENT |                                      |                        |                 | STUDY YR: 1996<br>TEST CASE: 1996<br>DATE: 1<br>LAST UPDATE: 05-Dec-96<br>TIME: 09:04 |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          | SERVICE CLASS: BAND 2 - RESIDENCE LINE                            |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| MELDED CABLE INVESTMENT PER PAIR FOOT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                          |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| DATA<br>DESC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (DISTRIBUTION<br>TO CODE)<br>CABLE TYPE MIX<br>(p...fdr) | PER FOOT<br>INVESTMENT<br>(pfi...fd)                              | CABLE<br>GAUGE MIX<br>(copper...fdr) | ADJUSTED<br>CABLE TYPE | ADJUSTED<br>PFI |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| CHARACTERISTICS FOR:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | [A]                                                      | [B]                                                               | [C]                                  | [D=A*C]                | [E=B*C]         |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| AERIAL @ 26 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.290000                                                 | \$ 0.011900                                                       | 0.1500                               | 0.043500               | \$ 0.001785     |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| BURIED @ 26 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.020000                                                 | \$ 0.020500                                                       | 0.1500                               | 0.003000               | \$ 0.003075     |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| UNDGRND @ 26 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.690000                                                 | \$ 0.011000                                                       | 0.1500                               | 0.103500               | \$ 0.001650     |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| AERIAL @ 24 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.290000                                                 | \$ 0.011900                                                       | 0.8500                               | 0.246500               | \$ 0.010115     |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| BURIED @ 24 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.020000                                                 | \$ 0.020500                                                       | 0.8500                               | 0.017000               | \$ 0.017425     |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| UNDGRND @ 24 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.690000                                                 | \$ 0.011000                                                       | 0.8500                               | 0.586500               | \$ 0.009350     |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| AERIAL @ 22 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000000                                                 | \$ 0.000000                                                       | 0.0000                               | 0.000000               | \$ 0.000000     |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| BURIED @ 22 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.000000                                                 | \$ 0.000000                                                       | 0.0000                               | 0.000000               | \$ 0.000000     |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| UNDGRND @ 22 GA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.000000                                                 | \$ 0.000000                                                       | 0.0000                               | 0.000000               | \$ 0.000000     |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| <div style="display: flex; justify-content: space-between;"> <div> <p>TABLE 2</p> <table border="1"> <thead> <tr> <th>DATA<br/>DESC.</th> <th>CABLE TYPE MIX<br/>RANGE<br/>NAME</th> <th>MELDED<br/>GAUGES</th> </tr> </thead> <tbody> <tr> <td>CHARACTERISTICS FOR:</td> <td>[F=sum(D*TYPE)]</td> <td></td> </tr> <tr> <td>AERIAL</td> <td>0.290000</td> <td></td> </tr> <tr> <td>BURIED</td> <td>0.020000</td> <td></td> </tr> <tr> <td>UNDERGRND</td> <td>0.690000</td> <td></td> </tr> <tr> <td>Check =</td> <td>1.000000</td> <td></td> </tr> </tbody> </table> </div> <div> <p>TABLE 4</p> <table border="1"> <thead> <tr> <th>PAIR / FOOT INVESTMENT<br/>RANGE<br/>NAME</th> <th>MELDED<br/>GAUGES</th> </tr> </thead> <tbody> <tr> <td>[G=sum(E*TYPE)]</td> <td></td> </tr> <tr> <td>\$ 0.011900</td> <td></td> </tr> <tr> <td>\$ 0.020500</td> <td></td> </tr> <tr> <td>\$ 0.011000</td> <td></td> </tr> <tr> <td>Check =</td> <td>1.003000</td> </tr> </tbody> </table> </div> </div> |                                                          |                                                                   |                                      |                        |                 |                                                                                       |  | DATA<br>DESC.                                             | CABLE TYPE MIX<br>RANGE<br>NAME | MELDED<br>GAUGES       | CHARACTERISTICS FOR: | [F=sum(D*TYPE)] |  | AERIAL      | 0.290000 |         | BURIED   | 0.020000 |  | UNDERGRND | 0.690000 |  | Check = | 1.000000 |  | PAIR / FOOT INVESTMENT<br>RANGE<br>NAME | MELDED<br>GAUGES | [G=sum(E*TYPE)] |  | \$ 0.011900 |  | \$ 0.020500 |  | \$ 0.011000 |  | Check = | 1.003000 |
| DATA<br>DESC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CABLE TYPE MIX<br>RANGE<br>NAME                          | MELDED<br>GAUGES                                                  |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| CHARACTERISTICS FOR:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | [F=sum(D*TYPE)]                                          |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| AERIAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.290000                                                 |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| BURIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.020000                                                 |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| UNDERGRND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.690000                                                 |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| Check =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.000000                                                 |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| PAIR / FOOT INVESTMENT<br>RANGE<br>NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MELDED<br>GAUGES                                         |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| [G=sum(E*TYPE)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| \$ 0.011900                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| \$ 0.020500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| \$ 0.011000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| Check =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.003000                                                 |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| <div style="display: flex; justify-content: space-between;"> <div> <p>FOOTNOTES</p> </div> <div> <p>TABLE 6</p> <table border="1"> <thead> <tr> <th>PAIR / FOOT INVESTMENT<br/>RENORMALIZED<br/>AERIAL / BURIED</th> <th>MELDED<br/>GAUGES</th> </tr> </thead> <tbody> <tr> <td>[H=TYPE / sum(F*TYPE)]</td> <td></td> </tr> <tr> <td>\$ 0.935484</td> <td></td> </tr> <tr> <td>\$ 0.064516</td> <td></td> </tr> <tr> <td>Check =</td> <td>1.003000</td> </tr> </tbody> </table> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          |                                                                   |                                      |                        |                 |                                                                                       |  | PAIR / FOOT INVESTMENT<br>RENORMALIZED<br>AERIAL / BURIED | MELDED<br>GAUGES                | [H=TYPE / sum(F*TYPE)] |                      | \$ 0.935484     |  | \$ 0.064516 |          | Check = | 1.003000 |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| PAIR / FOOT INVESTMENT<br>RENORMALIZED<br>AERIAL / BURIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MELDED<br>GAUGES                                         |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| [H=TYPE / sum(F*TYPE)]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| \$ 0.935484                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| \$ 0.064516                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                          |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |
| Check =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.003000                                                 |                                                                   |                                      |                        |                 |                                                                                       |  |                                                           |                                 |                        |                      |                 |  |             |          |         |          |          |  |           |          |  |         |          |  |                                         |                  |                 |  |             |  |             |  |             |  |         |          |

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| C:\123R24\LCATR072\FACILITY.WK1                                                        |                        | LOOP COST ANALYSIS TOOL                                          |                                 | Balkore (R)                             |                                      |
|----------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------|---------------------------------|-----------------------------------------|--------------------------------------|
| SPAN INV - WORKSHEET<br>Sheet 3 / 3                                                    |                        | COPPER CABLE DISTRIBUTIONS MELDING<br>WORKSHEET B                |                                 | LCAT Ver: 1.0.4<br>Issue Date: 07/31/95 |                                      |
| COMPANY: CINCINNATI BELL TEL.                                                          |                        | FOR<br>FACILITY TYPE: COPPER CABLE for DLC                       |                                 | STUDY YR: 1996                          |                                      |
| CITY / AREA: OHIO                                                                      |                        | DESIGN TYPE: FEEDER SEGMENT                                      |                                 | TEST CASE: 1996                         |                                      |
| STATE/PROV: CINCINNATI                                                                 |                        | SERVICE CLASS: BAND 2 - RESIDENCE LINE                           |                                 | DATE: 1                                 |                                      |
|                                                                                        |                        |                                                                  |                                 | LAST UPDATE: 05-Dec-96                  |                                      |
|                                                                                        |                        |                                                                  |                                 | TIME: 09:04                             |                                      |
| INVESTMENT DEVELOPMENT FOR:                                                            |                        | MELDED CABLE INVESTMENT PER PAIR FOOT<br>LINE REPEATER EQUIPMENT |                                 |                                         |                                      |
| DESCRIPTION                                                                            | REPEATER<br>SPACING    | UNIT<br>REPEATER<br>INVESTMENT                                   | REPEATER<br>INVEST.<br>PER FOOT |                                         |                                      |
|                                                                                        | [A]                    | [B]                                                              | [C=B/A]                         |                                         |                                      |
| LINE REPEATER AT 26 GA.                                                                | 3500                   | \$ 0                                                             | \$ 0.000000                     |                                         |                                      |
| LINE REPEATER AT 24 GA.                                                                | 4500                   | \$ 0                                                             | \$ 0.000000                     |                                         |                                      |
| LINE REPEATER AT 22 GA.                                                                | 5500                   | \$ 0                                                             | \$ 0.000000                     |                                         |                                      |
| TABLE 4 DEVELOPMENT FOR:                                                               |                        | COPPER CABLE UNIT INVESTMENT                                     |                                 | FOR DLC Gauge: 24.00<br>- TABLE 4 -     |                                      |
| ADJUSTED<br>PAIR / FOOT INVESTMENT                                                     | PAIR / FOOT INVESTMENT | BY CODE<br>BY GAUGE                                              | REPEATER<br>BY GAUGE            | WORKING CHANNEL<br>INVESTMENT / FOOT    | WORKING CHANNEL<br>INVESTMENT / FOOT |
| DESCRIPTION                                                                            | 2 * (C/Loss) [D]       | (RPTR gaG) [E=C]                                                 |                                 | (ADLCPPFloss) [F=D+E]                   | (ADLCPPFloss) [F=D+E]                |
| AERIAL @ 26 GA.                                                                        | \$ 0.023800            | \$ 0.000000                                                      |                                 | \$ 0.023800                             | \$ 0.023800                          |
| BURIED @ 26 GA.                                                                        | \$ 0.041000            | \$ 0.000000                                                      |                                 | \$ 0.041000                             | \$ 0.041000                          |
| UNDGRND @ 26 GA.                                                                       | \$ 0.022000            | \$ 0.000000                                                      |                                 | \$ 0.022000                             | \$ 0.022000                          |
| AERIAL @ 24 GA.                                                                        | \$ 0.023800            | \$ 0.000000                                                      |                                 | \$ 0.023800                             | \$ 0.023800                          |
| BURIED @ 24 GA.                                                                        | \$ 0.041000            | \$ 0.000000                                                      |                                 | \$ 0.041000                             | \$ 0.041000                          |
| UNDGRND @ 24 GA.                                                                       | \$ 0.022000            | \$ 0.000000                                                      |                                 | \$ 0.022000                             | \$ 0.022000                          |
| AERIAL @ 22 GA.                                                                        | \$ 0.000000            | \$ 0.000000                                                      |                                 | \$ 0.000000                             | \$ 0.000000                          |
| BURIED @ 22 GA.                                                                        | \$ 0.000000            | \$ 0.000000                                                      |                                 | \$ 0.000000                             | \$ 0.000000                          |
| UNDGRND @ 22 GA.                                                                       | \$ 0.000000            | \$ 0.000000                                                      |                                 | \$ 0.000000                             | \$ 0.000000                          |
| NOTES:                                                                                 |                        |                                                                  |                                 |                                         |                                      |
| ① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire. |                        |                                                                  |                                 |                                         |                                      |

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| CA123R24 LCATR072 FACILITY                                                                                               |                                                                                                                                                                                                                                                                                                                         | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                   |                                                                                                                                                                                                                                                                                                                              | Bellcore (R)                                                                                                   |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------|----------------------------------------------------------|---------|
| TABLE - SPAN_INV<br>SHEET 4 of 4<br><br>COM. COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE/PROV: OHIO |                                                                                                                                                                                                                                                                                                                         | LOOP FACILITY INPUT<br>SERVICE ACCESS SEGMENT<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |                                                                                                                                                                                                                                                                                                                              | LCAT Rel: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 05-Dec-96<br>TIME: 09:04 |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| <b>SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS</b>                                                                    |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| <b>AVERAGE UNIT MIX :</b>                                                                                                |                                                                                                                                                                                                                                                                                                                         | <b>AVERAGE UNIT INVESTMENT :</b>                                                                                                                 |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| The Average Number of Terminals in the Service Access Segment of a Loop -                                                |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Proportion of Loops that use.....                                                                                        | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Aerial</td> <td style="width: 50%;">0.00</td> </tr> <tr> <td>Buried</td> <td>0.00</td> </tr> </table>                                                                                                                                              | Aerial                                                                                                                                           | 0.00                                                                                                                                                                                                                                                                                                                         | Buried                                                                                                         | 0.00    | Per Unit Installation..... | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Aerial Termination</td> <td style="width: 50%;">0</td> </tr> <tr> <td>Buried Termination</td> <td>0</td> </tr> </table> | Aerial Termination     | 0        | Buried Termination                                       | 0       |
| Aerial                                                                                                                   | 0.00                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Buried                                                                                                                   | 0.00                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Aerial Termination                                                                                                       | 0                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Buried Termination                                                                                                       | 0                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| The Average Drop Wire & Building Entrance Cable Installation -                                                           |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Proportion of Loops that use..                                                                                           | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Aerial Wire Drops</td> <td style="width: 50%;">0.0000</td> </tr> <tr> <td>Buried Wire Drops</td> <td>0.0000</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>1.0000</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>0.0000</td> </tr> </table> | Aerial Wire Drops                                                                                                                                | 0.0000                                                                                                                                                                                                                                                                                                                       | Buried Wire Drops                                                                                              | 0.0000  | Bldg Entrance Cable        | 1.0000                                                                                                                                                                                       | Aerial Coax/Wire Drops | 0.0000   | Adjust Cable Pair Foot invest. for DW Investment ? (Y/N) | N       |
| Aerial Wire Drops                                                                                                        | 0.0000                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Buried Wire Drops                                                                                                        | 0.0000                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Bldg Entrance Cable                                                                                                      | 1.0000                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Aerial Coax/Wire Drops                                                                                                   | 0.0000                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
|                                                                                                                          |                                                                                                                                                                                                                                                                                                                         | Per Unit Installation.....                                                                                                                       | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Aerial Wire Drops</td> <td style="width: 50%;">\$ 0.00</td> </tr> <tr> <td>Buried Wire Drops</td> <td>\$ 0.00</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>\$ 75.00</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>\$ 0.00</td> </tr> </table> | Aerial Wire Drops                                                                                              | \$ 0.00 | Buried Wire Drops          | \$ 0.00                                                                                                                                                                                      | Bldg Entrance Cable    | \$ 75.00 | Aerial Coax/Wire Drops                                   | \$ 0.00 |
| Aerial Wire Drops                                                                                                        | \$ 0.00                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Buried Wire Drops                                                                                                        | \$ 0.00                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Bldg Entrance Cable                                                                                                      | \$ 75.00                                                                                                                                                                                                                                                                                                                |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Aerial Coax/Wire Drops                                                                                                   | \$ 0.00                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| The Average Intrabuilding Cable Installation -                                                                           |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                              |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |
| Proportion of Installations with Intrabuilding Cable                                                                     | 0.0000                                                                                                                                                                                                                                                                                                                  | Per Instn for a Intrabuilding Network Cable Pair                                                                                                 | \$ 0.00                                                                                                                                                                                                                                                                                                                      |                                                                                                                |         |                            |                                                                                                                                                                                              |                        |          |                                                          |         |

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\\LCATR072\FACILITY  
SPAN\_INV  
14

HELP SCREEN

**Belcore**®  
LCAT Rel: 1.0.4  
Issued: 07/31/95

terna These terminals may include the Serving Area Interface Cross Box, Drop Wire Block, and/or the Network  
term interface Block summary per circuit pair installation investment.

adropinv These facility investments may also include Drop Wire Block and/or Network Interface summary per circuit  
bdropinv pair installation investment.  
bec  
coaxinv

ibc This facility investment should include ALL the internal cross-connects and terminations for this type of  
installation as a circuit pair installation investment.

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\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*

\*\*\*\*\*PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION\*\*\*\*\*

PRESS "ENTER" TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR072\FACTORS

**LOOP COST ANALYSIS TOOL****Bellcore**TABLE - FACTORS  
SHEET 1 / 1

INVESTMENT RELATED FACTOR TABLES

FOR  
ANNUALIZATION FACTORS  
INVESTMENT YEAR : 1996  
STUDY YEAR : 1996LCAT Rel : 1.0.4  
Issued : 3/31/95  
STUDY YR : 1996  
TEST CASE : 1  
LAST UPDATE : 20-Jan-97  
TIME : 12:52COMPANY : CINCINNATI BELL TEL.  
CITY / AREA : CINCINNATI  
STATE / PROV : OHIO

SERVICE CLASS: BAND 2 - RESIDENCE LINE

plant list

LAND  
 BUILDING  
 BLDG ENTRANCE CABLE  
 INTRABLDG CABLE  
 AERIAL CABLE (COPPER)  
 BURIED CABLE (COPPER)  
 UNDERGROUND (CU) CA.  
 CO EQPT - LOW CAP TERM  
 CO EQPT - LOW CAP CHAN  
 CO EQPT - HI CAP TERM  
 CO EQPT - HI CAP CHAN  
 CO EQPT - ANALOG SW  
 CO EQPT - DIGITAL SW  
 AERIAL CABLE (FIBER)  
 BURIED CABLE (FIBER)  
 UNDERGROUND (FO) CA.  
 CONNECTORS  
 MISC. COM EQP & PWR  
 POLE LINE  
 CONDUIT

PRICE  
INDEXANNUAL  
COST

|        |        |
|--------|--------|
| 1.0000 | 0.2232 |
| 1.0000 | 0.2847 |
| 1.0000 | 0.3832 |
| 1.0000 | 0.3832 |
| 1.0000 | 0.3943 |
| 1.0000 | 0.3377 |
| 1.0000 | 0.3573 |
| 1.0000 | 0.3791 |
| 1.0000 | 0.3791 |
| 1.0000 | 0.3791 |
| 1.0000 | 0.8791 |
| 1.0000 | 0.0000 |
| 1.0000 | 0.3368 |
| 1.0000 | 0.2893 |
| 1.0000 | 0.2634 |
| 1.0000 | 0.2599 |
| 1.0000 | 0.3791 |
| 1.0000 | 0.3791 |
| 1.0000 | 0.3717 |
| 1.0000 | 0.2431 |

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 TO THE PUBLIC  
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| C:\123R24\LCATR072\INVEST                                                                           |  | LOOP COST ANALYSIS TOOL                |          | Bellcore               |          |          |
|-----------------------------------------------------------------------------------------------------|--|----------------------------------------|----------|------------------------|----------|----------|
| TABLE - EQUIP_INV                                                                                   |  | DATA REFERENCE TABLE                   |          | LCAT Rel: 1.0.4        |          |          |
| Sheet 1 of 1                                                                                        |  | EQUIPMENT & OTHER INVESTMENTS          |          | Issued: 07/31/95       |          |          |
| COMPANY: CINCINNATI BELL TEL                                                                        |  | FOR                                    |          | STUDY YR: 1996         |          |          |
| CITY / AREA: CINCINNATI                                                                             |  | INVESTMENT YEAR: 1996                  |          | TEST CASE: 1           |          |          |
| STATE / PROV: OHIO                                                                                  |  | SERVICE LEVEL: NARBAND                 |          | LAST UPDATE: 09-Jan-97 |          |          |
|                                                                                                     |  | SERVICE CLASS: BAND 2 - RESIDENCE LINE |          | 14:44                  |          |          |
| <b>EQUIPMENT INVESTMENT</b> (including Engineer, Furnish, & Install Costs)                          |  |                                        |          |                        |          |          |
|                                                                                                     |  | <b>CENTRAL OFFICE</b>                  |          | <b>REMOTE LOCATION</b> |          |          |
|                                                                                                     |  | LINE                                   | CHANNEL  | TERMINAL               | CHANNEL  | TERMINAL |
| <b>AIR DRYERS INVESTMENT:</b>                                                                       |  |                                        |          |                        |          |          |
| For an AERIAL Installed Cable Pair                                                                  |  |                                        |          | \$ 0.00                |          |          |
| For a BURIED Installed Cable Pair                                                                   |  |                                        |          | \$ 0.00                |          |          |
| For an UNDERGROUND Installed Cable Pair                                                             |  |                                        |          | \$ 0.00                |          |          |
| <b>CENTRAL OFFICE TERMINATION INVESTMENT:</b>                                                       |  |                                        |          |                        |          |          |
| For each cable pair associated with twisted pair copper cable                                       |  |                                        |          | \$ 0.00                |          |          |
| For each per cable pair associated with digital loop carrier technology                             |  |                                        |          | \$ 0.00                |          |          |
| <b>COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:</b>                                |  |                                        |          |                        |          |          |
| For each line repeater for one copper digroup (not svc lev)                                         |  | \$ 0.00                                |          |                        |          |          |
| For an Office Repeater Bay for a T1 Line                                                            |  | \$ 0.00                                |          |                        |          |          |
| For a Universal DLC Equipment Arrangement                                                           |  | \$ 0.00                                | \$ 87.51 | \$ 12.14               | \$ 85.28 | \$ 51.57 |
| For an Integrated DLC Equipment Arrangement                                                         |  | \$ 0.00                                | \$ 0.00  | \$ 0.00                | \$ 85.28 | \$ 51.57 |
| <b>FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:</b>                           |  |                                        |          |                        |          |          |
| 1. For a Hub with nonFiber Extensions or nonHub Arrangement                                         |  | \$ 19.62                               |          | \$ 2.35                | \$ 18.49 | \$ 2.35  |
| 2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement                                     |  | \$ 0.00                                |          | \$ 0.00                | \$ 0.00  | \$ 0.00  |
| 3. For a Fiber HUB and Fiber Remote Terminal Arrangement                                            |  |                                        |          |                        | \$ 0.00  | \$ 0.00  |
| 4. For Fiber Ring Hub Arrangements (Extensions)                                                     |  |                                        |          |                        | \$ 0.00  | \$ 0.00  |
| <b>CEV HOUSING per CIRCUIT by SERVICE LEVEL:</b>                                                    |  |                                        |          |                        |          |          |
| For CEV's used as fiber hubs for FO Multiplexer equipment                                           |  |                                        |          |                        |          | \$ 0.00  |
| For CEV's used as remote terminals for CDLC equipment                                               |  |                                        |          |                        |          | \$ 0.00  |
| [Unit Investment denotes average weighted unit E.F.I Investment at DS0, DS1, or DS3 service equiv.] |  |                                        |          |                        |          |          |

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TABLE - EQUIP\_INV

## HELP INFORMATION

LCAT Rel : 1.0.4

Issued : 07/31/95

Bellcore

LCAT Commands      Description

This Command will allow the User -

EDIT                      To Enter Values with DIRECT Input on a cell by cell basis.  
 CLEAR                    To Erase the Display's Current Data Values, then Perform DIRECT Input.

Line Items              Description

This Equipment Item Represents -

Ofc Rept Bay            A Wideband Special Service Circuits Requirement, included in other DLC COE LINE.  
 Integrated DLC        The DLC Class for Source Bandwidth from Digital Line Cards or DSX Term for DS1.  
 Universal DLC        The DLC Class for Source Bandwidth from Analog Subs Line Cards or Voice Grade Term.

See Circuit Designs :

|                  |                                                                          |           |
|------------------|--------------------------------------------------------------------------|-----------|
| COE Field Item 1 | FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, CO End Equip.  | 2,3,4 & 6 |
| REM Field Item 1 | FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, REM End Equip. | 2,3,4 & 6 |
| COE Field Item 2 | FITL Hubbed Arrangements, CO to HUB Span Equip, CO End.                  | 1 & 5     |
| REM Field Item 2 | FITL Hubbed Arrangements, CO to HUB Span Equip, Remote Site.             | 1 & 5     |
| REM Field Item 3 | FITL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites.            | 1 & 5     |
| REM Field Item 4 | FITL Hubbed Arrangements, RING Span Equip, HUB Sites.                    | 1,2,5 & 6 |

**NOTE: THE DATA VALUES FOR THESE ITEMS SHOULD ALWAYS REPRESENT  
 THE CIRCUIT EQUIVALENTS FOR THE BANDWIDTH DELIVERY OF THE STUDIED SERVICE**

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*  
 \*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION \*\*\*\*\*

**PRESS <ENTER> KEY TO RETURN TO THE MAIN MENU**

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| C:\123R24\LCATP072\LOADING                                                                                     |        | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                       |        | Bellcore <sup>®</sup>                                                                                         |
|----------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------|
| TABLE - ADDNL NV<br>Sheet 1 of 2<br><br>COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE: OHIO |        | INVESTMENT RELATED FACTOR TABLES<br>ADJUSTMENT AND LOADING FACTORS<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LIN |        | LCAT Ver: 1.0.4<br>Issued: 3/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 05-Dec-96<br>TIME: 09:09 |
| <b>PLANT UTILIZATION FACTORS:</b>                                                                              |        |                                                                                                                                                                      |        |                                                                                                               |
| Land                                                                                                           | 1.0000 | ALL Non-Traffic Sensitive Equipment                                                                                                                                  | 1.0000 |                                                                                                               |
| Building                                                                                                       | 1.0000 |                                                                                                                                                                      |        |                                                                                                               |
| ALL Copper Cables, or                                                                                          |        | ALL Digital Loop Carrier Equip., or                                                                                                                                  | 0.7000 |                                                                                                               |
| Copper Feeder Cable                                                                                            | 0.6000 | CO DLC Channel Unit                                                                                                                                                  | 0.7000 |                                                                                                               |
| Copper Distribution Cable                                                                                      | 0.3500 | REM DLC Channel Unit                                                                                                                                                 | 0.7000 |                                                                                                               |
| Copper Entrance Cable                                                                                          | 1.0000 | CO DLC Multiplex System                                                                                                                                              | 0.7000 |                                                                                                               |
| Copper Building Cable                                                                                          | 0.3500 | REM DLC Multiplex System                                                                                                                                             | 0.7000 |                                                                                                               |
| Copper Building Terminal                                                                                       | 0.3500 | CO Digital Signal Crossconnect Bay                                                                                                                                   | 0.7000 |                                                                                                               |
|                                                                                                                |        | REM Digital Signal Crossconnect Bay                                                                                                                                  | 0.7000 |                                                                                                               |
| ALL Fiber Cables, or                                                                                           |        | ALL Fiber Optic Multiplex Equip., or                                                                                                                                 | 1.0000 |                                                                                                               |
| Fiber Feeder Cable                                                                                             | 0.3300 | CO Fiber Optic Channel Unit                                                                                                                                          | 1.0000 |                                                                                                               |
| Fiber Distribution Cable                                                                                       |        | REM Fiber Optic Channel Unit                                                                                                                                         | 1.0000 |                                                                                                               |
| Fiber Entrance Cable                                                                                           |        | CO Fiber Optic Multiplex System                                                                                                                                      | 1.0000 |                                                                                                               |
| Fiber Building Cable                                                                                           |        | REM Fiber Optic Multiplex System                                                                                                                                     | 1.0000 |                                                                                                               |
| Fiber Building Terminal                                                                                        |        | CO Lightguide Terminating Equipment                                                                                                                                  | 1.0000 |                                                                                                               |
|                                                                                                                |        | REM Lightguide Terminating Equipment                                                                                                                                 | 1.0000 |                                                                                                               |
| Poles                                                                                                          | 1.0000 | Remote Housing: CEV                                                                                                                                                  | 1.0000 |                                                                                                               |
| Conduit                                                                                                        | 1.0000 | PC Hut                                                                                                                                                               | 1.0000 |                                                                                                               |
|                                                                                                                |        | Comm. Svc. Cab.                                                                                                                                                      | 1.0000 |                                                                                                               |

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TABLE - ADDNL INV  
Sheet 1 of 2

HELP SCREEN**Belcore**®

LCAT Rel: 1.0.4  
Issued: 3/31/95

## NOTE:

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS.  
AN ENTRY SETS CATEGORY 2 VALUES TO THE CATEGORY 1 VALUE BY THE SYSTEM.
- ② THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES).  
THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY.  
ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.
- ③ THE DESIGNATION "CO" DENOTES CENTRAL OFFICE LOCATED.  
THE DESIGNATION "REM" DENOTES REMOTE SITE LOCATED.

\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR INFORMATION \*\*\*\*\*  
\*\*\*\*\* CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY \*\*\*\*\*

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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| C:\123R24\LCATR072\LOADING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                                      |  | Bellcore <sup>(R)</sup>                                                                                       |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------|-------------------------------------|--------|--------|-----------------------------------|--|--|------------------------------------|--------|--------|----------------------------------|--|--|----------------------------------------|--------|--------|--------------------------------------|--|--|---------------------------------------|--------|--------|-------------------------------------|--|--|-----------------------------------------|----|--------------|--|--------------|--|-------------------|--|-----------------------|--------|--------|----------------------|--------|--------|-----------------|--------|--------|-----------------------|--------|--------|----------------------|--------|--------|-----------------|--------|--------|-----------------------|--------|--------|----------------------|--------|--------|-----------------|--------|--------|
| <b>TABLE - ADDNL INV</b><br>Sheet 2 of 2<br><br>COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | <b>INVESTMENT RELATED FACTOR TABLES</b><br><b>ADJUSTMENT AND LOADING FACTORS</b><br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |  | LCAT Rel: 1.0.4<br>Issued: 3/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 05-Dec-96<br>TIME: 09:09 |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">SEGMENT .....<br/>DISTRIBUTION   FEEDER</p> <p style="text-align: center;">② use <b>DEFAULT</b></p> <p><b>POLE LOADINGS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Copper Cable Pole Investment Factor</td> <td style="text-align: center;">0.2530</td> <td style="text-align: center;">0.2530</td> </tr> <tr> <td>Copper Cable Pole Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Pole Investment Factor</td> <td style="text-align: center;">0.1965</td> <td style="text-align: center;">0.1965</td> </tr> <tr> <td>Fiber Cable Pole Unit Investment</td> <td></td> <td></td> </tr> </table> <p><b>CONDUIT LOADINGS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Copper Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5165</td> <td style="text-align: center;">0.5165</td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5232</td> <td style="text-align: center;">0.5232</td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </table> </div> <div style="width: 50%;"> <p><b>DROP WIRE (DW) INVESTMENT ADJUSTMENT:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>The Cable PFI is being Adjusted for DW?</td> <td style="text-align: center;">NO</td> </tr> <tr> <td>Aerial Cable</td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> </tr> </table> <p style="text-align: center;">use <b>DEFAULT</b> ① for: <b>CENT. OFC.</b> ② <b>REMOTE SITE</b></p> <p><b>LAND LOADING FACTORS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or <b>ALL</b> ①</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> </table> <p><b>BUILDING LOADING FACTORS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or <b>ALL</b> ①</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> </table> <p><b>MISC. EQUIPMENT &amp; POWER LOADING FACTORS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or <b>ALL</b> ①</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> </table> </div> </div> |        |                                                                                                                                                                                     |  |                                                                                                               | Copper Cable Pole Investment Factor | 0.2530 | 0.2530 | Copper Cable Pole Unit Investment |  |  | Fiber Cable Pole Investment Factor | 0.1965 | 0.1965 | Fiber Cable Pole Unit Investment |  |  | Copper Cable Conduit Investment Factor | 0.5165 | 0.5165 | Copper Cable Conduit Unit Investment |  |  | Fiber Cable Conduit Investment Factor | 0.5232 | 0.5232 | Fiber Cable Conduit Unit Investment |  |  | The Cable PFI is being Adjusted for DW? | NO | Aerial Cable |  | Buried Cable |  | Underground Cable |  | Other or <b>ALL</b> ① | 0.0056 | 0.0056 | Digital Loop Carrier | 0.0056 | 0.0056 | Fiber Optic Mux | 0.0056 | 0.0056 | Other or <b>ALL</b> ① | 0.1316 | 0.1316 | Digital Loop Carrier | 0.1316 | 0.1316 | Fiber Optic Mux | 0.1316 | 0.1316 | Other or <b>ALL</b> ① | 0.1127 | 0.1127 | Digital Loop Carrier | 0.1127 | 0.1127 | Fiber Optic Mux | 0.1127 | 0.1127 |
| Copper Cable Pole Investment Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2530 | 0.2530                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Copper Cable Pole Unit Investment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                                                                                                                                     |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Fiber Cable Pole Investment Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.1965 | 0.1965                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Fiber Cable Pole Unit Investment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                                                                                                                                     |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Copper Cable Conduit Investment Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.5165 | 0.5165                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Copper Cable Conduit Unit Investment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                                                                                                                                                     |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Fiber Cable Conduit Investment Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.5232 | 0.5232                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Fiber Cable Conduit Unit Investment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                                                                                                                                                                                     |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| The Cable PFI is being Adjusted for DW?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | NO     |                                                                                                                                                                                     |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Aerial Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                                                                                                                                     |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Buried Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                                                                                                                                     |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Underground Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                                                                                                                                     |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Other or <b>ALL</b> ①                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0056 | 0.0056                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Digital Loop Carrier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.0056 | 0.0056                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Fiber Optic Mux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0056 | 0.0056                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Other or <b>ALL</b> ①                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.1316 | 0.1316                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Digital Loop Carrier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.1316 | 0.1316                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Fiber Optic Mux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.1316 | 0.1316                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Other or <b>ALL</b> ①                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.1127 | 0.1127                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Digital Loop Carrier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.1127 | 0.1127                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |
| Fiber Optic Mux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.1127 | 0.1127                                                                                                                                                                              |  |                                                                                                               |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                         |    |              |  |              |  |                   |  |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |                       |        |        |                      |        |        |                 |        |        |

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TABLE - ADDNL\_INV  
Sheet 2 of 2

HELP SCREENBellcore<sup>(R)</sup>

LCAT Rel : 1.0.4  
Issued : 3/31/95

|                                        |        |       |       |                                                                                 |
|----------------------------------------|--------|-------|-------|---------------------------------------------------------------------------------|
| Copper Cable Pole Investment Factor    | cpiff  | __dst | __fdr | Based on aerial copper cable investment relationship to pole                    |
| Copper Cable Pole Unit Investment      | cpifi  | __dst | __fdr | Per unit length of aerial copper cable effective pair feet placed.              |
| Fiber Cable Pole Investment Factor     | fpiff  | __dst | __fdr | Based on aerial fiber cable investment relationship to pole                     |
| Fiber Cable Pole Unit Investment       | fpifi  | __dst | __fdr | Per unit length of aerial fiber cable effective pair feet placed.               |
| Copper Cable Conduit Investment Factor | cucff  | __dst | __fdr | Based on underground copper cable investment relationship to conduit investment |
| Copper Cable Conduit Unit Investment   | cucfi  | __dst | __fdr | Per unit length of underground copper cable effective pair feet placed.         |
| Fiber Cable Conduit Investment Factor  | fuclf  | __dst | __fdr | Based on underground fiber cable investment relationship to conduit investment  |
| Fiber Cable Conduit Unit Investment    | fuclfi | __dst | __fdr | Per unit length of underground fiber cable effective pair feet placed.          |

## NOTES

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS.  
AN ENTRY SETS CATEGORY 2 VALUES TO THE CATEGORY 1 VALUE BY THE SYSTEM.

- ② THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES).  
THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY.  
ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.

\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR INFORMATION \*\*\*\*\*  
\*\*\*\*\* CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY \*\*\*\*\*

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU.

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| C:\123R24\LCAT\072\SPAN                                                             |                                                                              | <b>LOOP COST ANALYSIS TOOL</b>                   |  | Bellcore <sup>®</sup>  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------|--|------------------------|
| INPUT - PLANT_CHAR                                                                  |                                                                              | LOOP FACILITY INPUT                              |  | LCAT Rel: 1.0.4        |
| Sheet 1 / 5                                                                         |                                                                              | LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS |  | Issued: 07/31/85       |
| COMPANY: CINCINNATI BELL TEL                                                        |                                                                              | FOR                                              |  | STUDY YR: 1996         |
| CITY / AREA: CINCINNATI                                                             |                                                                              | INVESTMENT YEAR: 1996                            |  | TEST CASE: 1           |
| STATE / PROV: OHIO                                                                  |                                                                              | LOOP STUDY YEAR: 1996                            |  | LAST UPDATE: 05-Dec-86 |
|                                                                                     |                                                                              | SERVICE CLASS: BAND 2 - RESIDENCE LINE           |  | TIME: 09:13            |
| <b>FLAT RATE BASIS DATA WITHOUT COST BANDS<br/>FOR A NETWORK CIRCUIT CASE STUDY</b> |                                                                              |                                                  |  |                        |
| <b>LOOP TOPOLOGY</b>                                                                |                                                                              | <b>ACTION SEGMENT</b>                            |  |                        |
| Loop FEEDER Network Configuration Is (S)tar Or (R)ing                               |                                                                              | PRIMARY STAR                                     |  |                        |
| Average Number Of Hubs In Each Ring                                                 |                                                                              | PRIMARY NA                                       |  |                        |
| Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us                          |                                                                              | DISTRIBUTION STAR                                |  |                        |
| <b>SPAN LENGTHS</b>                                                                 |                                                                              |                                                  |  |                        |
| ①                                                                                   | Average Distance From the Central Office to the Service Access Point         | TOTAL LOOP 8534.0                                |  |                        |
| ②                                                                                   | Average Distance From the Serving Area Interface to the Service Access Point | DISTRIBUTION 1836.0                              |  |                        |
| ③                                                                                   | Average Distance From the Remote Terminal to the Serving Area Interface      | SUB-PRIMARY 500.0                                |  |                        |
| ④                                                                                   | Average Distance From the Central Office to the Fiber Hub or S.A.I.          | PRIMARY 6398.0                                   |  |                        |
| ⑤                                                                                   | Average Distance From the Fiber Hub to the Remote Terminal                   | PRIMARY-EXTENSION                                |  |                        |
| <b>LOOP LENGTH AT EACH COST BAND</b>                                                |                                                                              | <b>DISTRIBUTION OF COST BANDS IN THE NETWORK</b> |  |                        |
| BAND 1                                                                              |                                                                              | BAND 1                                           |  |                        |
| BAND 2                                                                              |                                                                              | BAND 2                                           |  |                        |
| BAND 3                                                                              |                                                                              | BAND 3                                           |  |                        |
| BAND 4                                                                              |                                                                              | BAND 4                                           |  |                        |
| BAND 5                                                                              |                                                                              | BAND 5                                           |  |                        |
| LAST 8534.0                                                                         |                                                                              | LAST 1.0000                                      |  |                        |

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PRIOR TO RELEASE TO PUBLIC  
PROVIDED TO PUCO

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| C:\123R24\LCATR072\SPAN                                                                                                                                                                                                                                                                                                                                                             |                            | <b>LOOP COST ANALYSIS TOOL</b>                                                           |                                                                                 | Bellcore <sup>®</sup>                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| INPUT - PLANT_CHAR.<br>Sheet 1 / 1                                                                                                                                                                                                                                                                                                                                                  |                            | LOOP FACILITY INPUT<br>LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS<br>FOR           |                                                                                 | LCAT Rev: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 05-Dec-96<br>TIME: 09:13 |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                      |                            | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |                                                                                 |                                                                                                                |
| <b>FLAT RATE BASIS DATA WITHOUT COST BANDS<br/>FOR A NETWORK CIRCUIT CASE STUDY</b>                                                                                                                                                                                                                                                                                                 |                            |                                                                                          |                                                                                 |                                                                                                                |
| <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p><b>LOOP LENGTH</b></p> <p>①</p> <p>8534 FEET</p> </div> </div>                                                                                                                                                                                            |                            |                                                                                          |                                                                                 |                                                                                                                |
| <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p><b>DROP</b></p> <p>②</p> </div> <div style="text-align: center;"> <p><b>DISTRIBUTION</b></p> <p>③</p> </div> <div style="text-align: center;"> <p><b>FEEDER</b></p> <p>④</p> </div> </div>                                                                |                            |                                                                                          |                                                                                 |                                                                                                                |
| <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>1836 FEET</p> </div> <div style="text-align: center;"> <p>6698 FEET</p> </div> </div>                                                                                                                                                                     |                            |                                                                                          |                                                                                 |                                                                                                                |
| <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p><b>ON</b></p> </div> <div style="text-align: center;"> <p><b>SUB-PRIMARY</b></p> <p>⑤</p> </div> <div style="text-align: center;"> <p><b>EXTENSION</b></p> <p>⑥</p> </div> <div style="text-align: center;"> <p><b>PRIMARY</b></p> <p>⑦</p> </div> </div> |                            |                                                                                          |                                                                                 |                                                                                                                |
| <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p><b>FIBER DISTRIBUTION</b></p> </div> <div style="text-align: center;"> <p><b>FIBER HUB</b></p> </div> </div>                                                                                                                                              |                            |                                                                                          |                                                                                 |                                                                                                                |
| NETWORK<br>INTERFACE                                                                                                                                                                                                                                                                                                                                                                | SERVICE<br>ACCESS<br>POINT | SERVING<br>AREA<br>INTERFACE                                                             | REMOTE TERMINAL<br>(LOOP MULTIPLEX INTERFACE)<br>REMOTE NODE<br>(LOOP TRANSFER) | END OFFICE                                                                                                     |

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| C:\123R24\LCAT\0721SPAN                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                   | LOOP COST ANALYSIS TOOL             | Belcore® |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------|
| INPUT - PLANT_CHAR.<br>Sheet 1 of 2                                                                                                                         | LOOP FACILITY INPUT<br>HELP SCREEN                                                                                                                                                                                                                                                                                                                                                | LCAT Rel: 1.0.4<br>Issued: 07/31/95 |          |
| AVERAGE NETWORK STUDY -                                                                                                                                     | This mode of LCAT is used where the cost study may be broad in scope and lack sufficient detail data to use the Loop OSP cost calculators on Sheets 2, 3, and 4. Instead, it relies on table data from the FACILITY file, representing jurisdictional average value mixes or proportions. Input for these values is placed on Sheet 1.                                            |                                     |          |
| INDIVIDUAL CIRCUIT STUDY -                                                                                                                                  | This mode of LCAT is used to cost study circuit specifics on an Individual Circuit Basis for Request For Proposals, Special Constructions, and CENTREX-like Services. Data input is usually actual per the circuit configuration's span by span requirements as detailed by Product Management. This mode will require the use of the Loop OSP calculators on Sheets 2, 3, and 4. |                                     |          |
| DATA SAMPLE NETWORK STUDY -                                                                                                                                 | This mode of LCAT functions well with the Loop OSP cost calculators on Sheets 2, 3, and 4. The data samples are inputted on the sheets cumulatively and cost calculated directly. Then the weightings formulae are applied to create an average weighted Loop cost per pair foot.                                                                                                 |                                     |          |
| BANDWIDTH AVERAGING -                                                                                                                                       | This feature of LCAT permits study level weighting of fiber multiplexer bandwidth transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the mix of usage develops a more precise unit investment to the feeder calculations.                                                                                                                   |                                     |          |
| ***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****<br>***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION ***** |                                                                                                                                                                                                                                                                                                                                                                                   |                                     |          |
| PRESS "ENTER" TO RETURN TO THE MAIN MENU                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                   |                                     |          |

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C:\23224\LCAT\0721SPAN

## LOOP COST ANALYSIS TOOL

Bellcore<sup>®</sup>

INPC - PLANT\_CRAH

LCAT Rev: 1.0.4

Sheet 2 of 2

Issued: 07/31/95

## HELP SCREEN

## COST DETAILS

When the Loop Study is specified as DISTANCE SENSITIVE, the data required is inputted as part of STUDY SETUP input and the ROUTE TO AIR RATIO [ B ] on WORKSHEET F and the resultant Rate Band delimiters are copied into the RATE BANDS field on SCREEN 1 by the System. The SPAN LENGTHS data is input by the User.

When the Loop Study is specified as FLAT RATE, then ALL the data required is input on SCREEN 1 in the COST BANDS field and/or SPAN LENGTHS field by the User.

## LOOP TOPOLOGY

When the Loop Topology ( circuit layout format ) for the Feeder Layer is specified as STAR, the Primary Feeder ( C.O. to HUB ) is variable and the Feeder Extension ( HUB to R.T. ) is held as an average length link. When the Loop Topology is specified as RING, the Primary Feeder is held as an average length link and the Feeder Extension is variable. This Input Sheet is adjusted to each possibility. The SPAN LENGTHS input cells are rearranged to support the Topology specified and only request the necessary data that is required.

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*  
\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION \*\*\*\*\*

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| CA123R24\LCATR072\SPAN         |          | <b>LOOP COST ANALYSIS TOOL</b>                              |                                                     |                                                          |                                                     |                                                          |                                                     | Bellcore (R)                                             |
|--------------------------------|----------|-------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------|
| INPUT - PLANT CHAR.            |          | LOOP FACILITY INPUT                                         |                                                     |                                                          |                                                     |                                                          |                                                     | LCAT Rel: 1.0.4                                          |
| Sheet 2a / 5                   |          | FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER |                                                     |                                                          |                                                     |                                                          |                                                     | Issued: 07/31/96                                         |
| COMPANY: 0                     |          | FOR                                                         |                                                     |                                                          |                                                     |                                                          |                                                     | STUDY YR: 1996                                           |
| CITY / AREA: 0                 |          | INVESTMENT YEAR: 1996                                       |                                                     |                                                          |                                                     |                                                          |                                                     | TEST CASE: 1                                             |
| STATE / PROV: 0                |          | LOOP STUDY YEAR: 1996                                       |                                                     |                                                          |                                                     |                                                          |                                                     | LAST UPDATE: 05-Dec-96                                   |
|                                |          | SERVICE CLASS: SAND 2 - RESIDENCE LINE                      |                                                     |                                                          |                                                     |                                                          |                                                     | TIME: 09:13                                              |
| NETWORK CIRCUIT LAYOUT STUDIES |          |                                                             |                                                     | WORKSHEET A                                              |                                                     |                                                          |                                                     |                                                          |
|                                | CAPACITY |                                                             | AERIAL FIBER                                        |                                                          | BURIED FIBER                                        |                                                          | UNDERGROUND FIBER                                   |                                                          |
|                                | (C)      | idx                                                         | CUMULATIVE<br>FEEDER<br>LENGTH<br>[D <sub>A</sub> ] | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT<br>[E <sub>A</sub> ] | CUMULATIVE<br>FEEDER<br>LENGTH<br>[D <sub>B</sub> ] | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT<br>[E <sub>B</sub> ] | CUMULATIVE<br>FEEDER<br>LENGTH<br>[D <sub>U</sub> ] | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT<br>[E <sub>U</sub> ] |
| 4 FIBER CABLE                  | 2 pr     |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 6 FIBER CABLE                  | 3 pr     |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 12 FIBER CABLE                 | 6 pr     |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 18 FIBER CABLE                 | 9 pr     |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 24 FIBER CABLE                 | 12 pr    |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 36 FIBER CABLE                 | 18 pr    |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 48 FIBER CABLE                 | 24 pr    |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 60 FIBER CABLE                 | 30 pr    |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 72 FIBER CABLE                 | 36 pr    |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 84 FIBER CABLE                 | 42 pr    |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 96 FIBER CABLE                 | 48 pr    |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 144 FIBER CABLE                | 72 pr    |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 192 FIBER CABLE                | 96 pr    |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| 216 FIBER CABLE                | 108 pr   |                                                             |                                                     | 0.0                                                      |                                                     | 0.0                                                      |                                                     | 0.0                                                      |
| CUMULATIVE LENGTHS OF FEEDER:  |          |                                                             |                                                     |                                                          | EFFECTIVE CABLE LENGTHS BY CABLE PAIR FOOT:         |                                                          |                                                     |                                                          |
| AERIAL FIBER SUBTOTAL          |          |                                                             | 0                                                   |                                                          | AERIAL FIBER SUBTOTAL                               |                                                          |                                                     | 0.0                                                      |
| BURIED FIBER SUBTOTAL          |          |                                                             | 0                                                   |                                                          | BURIED FIBER SUBTOTAL                               |                                                          |                                                     | 0.0                                                      |
| UNDGRD FIBER SUBTOTAL          |          |                                                             | 0                                                   |                                                          | UNDGRD FIBER SUBTOTAL                               |                                                          |                                                     | 0.0                                                      |
| FIBER SUBTOTAL                 |          |                                                             | 0                                                   |                                                          | FIBER SUBTOTAL                                      |                                                          |                                                     | 0.0                                                      |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------|-----|--------------|---------|-------------------------------------|---------|-------------------|---------|
| PLANT CHAR - WORKSHEET 28<br>Sheet 2b / 5                                                                                                                                            |             | FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER<br>FOR |     |              |         | LCAT Rel: 1.0.4<br>Issued: 07/31/95 |         |                   |         |
| COMPANY: CINCINNATI BELL TEL.                                                                                                                                                        |             | INVESTMENT YEAR: 1996                                         |     |              |         | STUDY YR: 1996                      |         |                   |         |
| CITY / AREA: CINCINNATI                                                                                                                                                              |             | LOOP STUDY YEAR: 1996                                         |     |              |         | TEST CASE: 1                        |         |                   |         |
| STATE: OHIO                                                                                                                                                                          |             | SERVICE CLASS: BAND 2 - RESIDENCE LINE                        |     |              |         | LAST UPDATE: 05-Dec-96              |         |                   |         |
| <b>NETWORK CIRCUIT LAYOUT STUDIES</b>                                                                                                                                                |             | TIME: 08:13                                                   |     |              |         |                                     |         |                   |         |
|                                                                                                                                                                                      |             | WORKSHEET B                                                   |     |              |         |                                     |         |                   |         |
| <p>EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E]WKSH A / [F]WKSH C<br/>           CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A] * [C] * UNIT INV FACILITY WKSH B</p> |             |                                                               |     |              |         |                                     |         |                   |         |
| For these sizes ...                                                                                                                                                                  |             | CAPACITY<br>[C]                                               | idx | AERIAL FIBER |         | BURIED FIBER                        |         | UNDERGROUND FIBER |         |
|                                                                                                                                                                                      |             |                                                               |     | [A]          | [B]     | [A]                                 | [B]     | [A]               | [B]     |
| 4                                                                                                                                                                                    | FIBER CABLE | 2 pr                                                          |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 6                                                                                                                                                                                    | FIBER CABLE | 3 pr                                                          |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 12                                                                                                                                                                                   | FIBER CABLE | 6 pr                                                          |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 18                                                                                                                                                                                   | FIBER CABLE | 9 pr                                                          |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 24                                                                                                                                                                                   | FIBER CABLE | 12 pr                                                         |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 36                                                                                                                                                                                   | FIBER CABLE | 18 pr                                                         |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 48                                                                                                                                                                                   | FIBER CABLE | 24 pr                                                         |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 60                                                                                                                                                                                   | FIBER CABLE | 30 pr                                                         |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 72                                                                                                                                                                                   | FIBER CABLE | 36 pr                                                         |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 84                                                                                                                                                                                   | FIBER CABLE | 42 pr                                                         |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 96                                                                                                                                                                                   | FIBER CABLE | 48 pr                                                         |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 144                                                                                                                                                                                  | FIBER CABLE | 72 pr                                                         |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 192                                                                                                                                                                                  | FIBER CABLE | 96 pr                                                         |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| 216                                                                                                                                                                                  | FIBER CABLE | 108 pr                                                        |     | 0.000        | \$ 0.00 | 0.000                               | \$ 0.00 | 0.000             | \$ 0.00 |
| SUBTOTAL                                                                                                                                                                             |             |                                                               |     | \$ 0.00      | \$ 0.00 | \$ 0.00                             | \$ 0.00 | \$ 0.00           | \$ 0.00 |

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|-------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------|--------|-------------|--------|--------|--------|---------------------------------------|--------|--------|--------|
| PLANT CHAR - WORKSHEET 3B<br>Sheet 3b / 5                               |         | LOOP FACILITY INPUT<br>COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER<br>FOR |        |             |        |        |        | LCAT Rel : 1.0.4<br>Issued : 07/31/95 |        |        |        |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE: OHIO |         | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996                                  |        |             |        |        |        | STUDY YR : 1996<br>TEST CASE : 1      |        |        |        |
|                                                                         |         | SERVICE CLASS: BAND 2 - RESIDENC                                                |        |             |        |        |        | LAST UPDATE: 05-Dec-96<br>TIME: 09:13 |        |        |        |
| NETWORK CIRCUIT LAYOUT STUDIES                                          |         |                                                                                 |        | WORKSHEET B |        |        |        |                                       |        |        |        |
| CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT                              |         |                                                                                 |        |             |        |        |        |                                       |        |        |        |
| CABLE SHEATH SIZES                                                      |         | CAPACITY                                                                        | 26 GA. |             |        | 24 GA. |        |                                       | 22 GA. |        |        |
|                                                                         |         | idx                                                                             | AERIAL | BURIED      | UNDGRD | AERIAL | BURIED | UNDGRD                                | AERIAL | BURIED | UNDGRD |
| 40 COPPER CABLE                                                         | 20 pr   | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 50 COPPER CABLE                                                         | 25 pr   | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 80 COPPER CABLE                                                         | 40 pr   | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 100 COPPER CABLE                                                        | 50 pr   | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 140 COPPER CABLE                                                        | 70 pr   | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 200 COPPER CABLE                                                        | 100 pr  | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 400 COPPER CABLE                                                        | 200 pr  | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 600 COPPER CABLE                                                        | 300 pr  | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 800 COPPER CABLE                                                        | 400 pr  | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 1200 COPPER CABLE                                                       | 600 pr  | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 1800 COPPER CABLE                                                       | 900 pr  | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 2400 COPPER CABLE                                                       | 1200 pr | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 3000 COPPER CABLE                                                       | 1500 pr | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 3600 COPPER CABLE                                                       | 1800 pr | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 4200 COPPER CABLE                                                       | 2100 pr | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 4800 COPPER CABLE                                                       | 2400 pr | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 5400 COPPER CABLE                                                       | 2700 pr | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 6000 COPPER CABLE                                                       | 3000 pr | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 7200 COPPER CABLE                                                       | 3600 pr | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 8400 COPPER CABLE                                                       | 4200 pr | \$                                                                              | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| AERIAL CABLE SUBTOTAL                                                   |         |                                                                                 | 0.00   |             |        | 0.00   |        |                                       | 0.00   |        |        |
| BURIED CABLE SUBTOTAL                                                   |         |                                                                                 |        | 0.00        |        |        | 0.00   |                                       |        | 0.00   |        |
| UNDGRD CABLE SUBTOTAL                                                   |         |                                                                                 |        |             | 0.00   |        |        | 0.00                                  |        |        | 0.00   |

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## LOOP COST ANALYSIS TOOL

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INPUT - PLANT CHAR.  
Sheet 4a / 5LOOP FACILITY INPUT  
COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER  
FORLCAT Rel : 1.0.4  
Issued : 07/31/95  
STUDY YR : 1996  
TEST CASE : 1  
LAST UPDATE : 05-Dec-96  
TIME : 09:13COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIOINVESTMENT YEAR: 1996  
LOOP STUDY YEAR: 1996  
SERVICE CLASS: BAND 2 - RESIDENC

## NETWORK CIRCUIT LAYOUT STUDIES

## WORKSHEET A

## CUMULATIVE LENGTHS BY CABLE PAIR FOOT

| CABLE SHEATH SIZES | CAPACITY<br>10X | 26 GA. |        |        | 24 GA. |        |        | 22 GA. |        |        |     |
|--------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
|                    |                 | AERIAL | BURIED | UNOGRD | AERIAL | BURIED | UNOGRD | AERIAL | BURIED | UNOGRD |     |
| 40 COPPER CABLE    | 20 pr           |        |        |        |        |        |        |        |        |        |     |
| 50 COPPER CABLE    | 25 pr           |        |        |        |        |        |        |        |        |        |     |
| 80 COPPER CABLE    | 40 pr           |        |        |        |        |        |        |        |        |        |     |
| 100 COPPER CABLE   | 50 pr           |        |        |        |        |        |        |        |        |        |     |
| 140 COPPER CABLE   | 70 pr           |        |        |        |        |        |        |        |        |        |     |
| 200 COPPER CABLE   | 100 pr          |        |        |        |        |        |        |        |        |        |     |
| 400 COPPER CABLE   | 200 pr          |        |        |        |        |        |        |        |        |        |     |
| 600 COPPER CABLE   | 300 pr          |        |        |        |        |        |        |        |        |        |     |
| 800 COPPER CABLE   | 400 pr          |        |        |        |        |        |        |        |        |        |     |
| 1200 COPPER CABLE  | 600 pr          |        |        |        |        |        |        |        |        |        |     |
| 1800 COPPER CABLE  | 900 pr          |        |        |        |        |        |        |        |        |        |     |
| 2400 COPPER CABLE  | 1200 pr         |        |        |        |        |        |        |        |        |        |     |
| 3000 COPPER CABLE  | 1500 pr         |        |        |        |        |        |        |        |        |        |     |
| 3600 COPPER CABLE  | 1800 pr         |        |        |        |        |        |        |        |        |        |     |
| 4200 COPPER CABLE  | 2100 pr         |        |        |        |        |        |        |        |        |        |     |
| 4800 COPPER CABLE  | 2400 pr         |        |        |        |        |        |        |        |        |        |     |
| 5400 COPPER CABLE  | 2700 pr         |        |        |        |        |        |        |        |        |        |     |
| 6000 COPPER CABLE  | 3000 pr         |        |        |        |        |        |        |        |        |        |     |
| 7200 COPPER CABLE  | 3600 pr         |        |        |        |        |        |        |        |        |        |     |
| 8400 COPPER CABLE  | 4200 pr         |        |        |        |        |        |        |        |        |        |     |
| SUB TOTALS         |                 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0 |
| TOTALS             |                 |        |        | 0.0    |        |        | 0.0    |        |        | 0.0    | 0.0 |

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| C:\123R24\LCATR072\SPAN                                  |         | LOOP COST ANALYSIS TOOL                                                               |        |        |       |        |        | Bellcore                            |        |        |       |
|----------------------------------------------------------|---------|---------------------------------------------------------------------------------------|--------|--------|-------|--------|--------|-------------------------------------|--------|--------|-------|
| PLANT CHAR - WORKSHEET 4B<br>Sheet 4b / 5                |         | LOOP FACILITY INPUT<br>COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER<br>FOR |        |        |       |        |        | LCAT Ref: 1.0.4<br>Issued: 07/31/95 |        |        |       |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI |         | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996                                        |        |        |       |        |        | STUDY YR: 1996<br>TEST CASE: 1      |        |        |       |
| STATE: OHIO                                              |         | SERVICE CLASS: BAND 2 - RESIDENC                                                      |        |        |       |        |        | LAST UPDATE: 05-Dec-96              |        |        |       |
| TIME: 09:13                                              |         |                                                                                       |        |        |       |        |        |                                     |        |        |       |
| NETWORK CIRCUIT LAYOUT STUDIES                           |         |                                                                                       |        |        |       |        |        |                                     |        |        |       |
| WORKSHEET B                                              |         |                                                                                       |        |        |       |        |        |                                     |        |        |       |
| CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT               |         |                                                                                       |        |        |       |        |        |                                     |        |        |       |
| CABLE SHEATH SIZES                                       |         | CAPACITY                                                                              | 26 GA. |        |       | 24 GA. |        |                                     | 22 GA. |        |       |
|                                                          | idx     |                                                                                       | AERIAL | BURIED | UNGRD | AERIAL | BURIED | UNGRD                               | AERIAL | BURIED | UNGRD |
| 40 COPPER CABLE                                          | 20 pr   | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 50 COPPER CABLE                                          | 25 pr   | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 80 COPPER CABLE                                          | 40 pr   | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 100 COPPER CABLE                                         | 50 pr   | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 140 COPPER CABLE                                         | 70 pr   | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 200 COPPER CABLE                                         | 100 pr  | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 400 COPPER CABLE                                         | 200 pr  | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 600 COPPER CABLE                                         | 300 pr  | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 800 COPPER CABLE                                         | 400 pr  | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 1200 COPPER CABLE                                        | 600 pr  | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 1800 COPPER CABLE                                        | 900 pr  | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 2400 COPPER CABLE                                        | 1200 pr | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 3000 COPPER CABLE                                        | 1500 pr | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 3600 COPPER CABLE                                        | 1800 pr | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 4200 COPPER CABLE                                        | 2100 pr | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 4800 COPPER CABLE                                        | 2400 pr | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 5400 COPPER CABLE                                        | 2700 pr | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 6000 COPPER CABLE                                        | 3000 pr | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 7200 COPPER CABLE                                        | 3600 pr | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| 8400 COPPER CABLE                                        | 4200 pr | \$                                                                                    | 0.00   | 0.00   | 0.00  | 0.00   | 0.00   | 0.00                                | 0.00   | 0.00   | 0.00  |
| AERIAL CABLE SUBTOTAL                                    |         |                                                                                       | 0.00   |        |       | 0.00   |        |                                     | 0.00   |        |       |
| BURIED CABLE SUBTOTAL                                    |         |                                                                                       |        | 0.00   |       |        | 0.00   |                                     |        | 0.00   |       |
| UNGRD CABLE SUBTOTAL                                     |         |                                                                                       |        |        | 0.00  |        |        | 0.00                                |        |        | 0.00  |

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| LOOP COST ANALYSIS TOOL                                                                                                                                                                                                                                                                             |         |         |          |          |        |        |        |          |            | Bellcore <sup>®</sup>  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|----------|----------|--------|--------|--------|----------|------------|------------------------|--|
| C:\123R24\LCATR072\SPAN                                                                                                                                                                                                                                                                             |         |         |          |          |        |        |        |          |            | LCAT Rm: 1.0.4         |  |
| INPUT - PLANT_CHAR                                                                                                                                                                                                                                                                                  |         |         |          |          |        |        |        |          |            | Issued: 07/31/95       |  |
| Sheet 5 / 5                                                                                                                                                                                                                                                                                         |         |         |          |          |        |        |        |          |            | STUDY YR: 1996         |  |
| COMPANY: CINCINNATI BELL TEL                                                                                                                                                                                                                                                                        |         |         |          |          |        |        |        |          |            | TEST CASE: 1           |  |
| CITY / AREA: CINCINNATI                                                                                                                                                                                                                                                                             |         |         |          |          |        |        |        |          |            | LAST UPDATE: 05-Dec-96 |  |
| STATE / PROV: OHIO                                                                                                                                                                                                                                                                                  |         |         |          |          |        |        |        |          |            | TIME: 09:13            |  |
| LOOP FACILITY INPUT                                                                                                                                                                                                                                                                                 |         |         |          |          |        |        |        |          |            |                        |  |
| DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX                                                                                                                                                                                                                                                 |         |         |          |          |        |        |        |          |            |                        |  |
| FOR                                                                                                                                                                                                                                                                                                 |         |         |          |          |        |        |        |          |            |                        |  |
| INVESTMENT YEAR: 1996                                                                                                                                                                                                                                                                               |         |         |          |          |        |        |        |          |            |                        |  |
| LOOP STUDY YEAR: 1996                                                                                                                                                                                                                                                                               |         |         |          |          |        |        |        |          |            |                        |  |
| SERVICE CLASS: BAND 2 - RESIDENCE LINE                                                                                                                                                                                                                                                              |         |         |          |          |        |        |        |          |            |                        |  |
| FIBER BANDWIDTH                                                                                                                                                                                                                                                                                     |         |         |          |          |        |        |        |          |            |                        |  |
| TRANSMISSION FLOW IS: <input checked="" type="checkbox"/> UNIDIRECTIONAL                                                                                                                                                                                                                            |         |         |          |          |        |        |        |          |            |                        |  |
| <input type="checkbox"/> BIDIRECTIONAL                                                                                                                                                                                                                                                              |         |         |          |          |        |        |        |          |            |                        |  |
| LEVEL OF SERVICE: NARBAND                                                                                                                                                                                                                                                                           |         |         |          |          |        |        |        |          |            |                        |  |
| BITRATE INDEX                                                                                                                                                                                                                                                                                       | 1       | 2       | 3        | 4        | 5      | 6      | 7      | SERVICE  | PROTECTION | WEIGHTED               |  |
| FIBER BANDWIDTH                                                                                                                                                                                                                                                                                     | 45 Mbps | 90 Mbps | 155 Mbps | 180 Mbps | 0      | 0      | 0      | LEVEL    |            | EQUIVALENT             |  |
| MUX DS3 MULTIPLIER                                                                                                                                                                                                                                                                                  | 1       | 2       | 3        | 4        | 0      | 0      | 0      | MULTIPLE | n:1        | CHANNELS               |  |
| VOICE GRADE CHANNELS                                                                                                                                                                                                                                                                                | 672     | 1344    | 2016     | 2688     | 0      | 0      | 0      | (SLM)    | [E]        | PER FO PAR             |  |
|                                                                                                                                                                                                                                                                                                     |         |         |          |          |        |        |        |          |            | [F]                    |  |
| FEEDER - PRIMARY                                                                                                                                                                                                                                                                                    | 0.0000  | 0.1370  | 0.7810   | 0.0820   | 0.0000 | 0.0000 | 0.0000 | 2        | 1          | 1979.04                |  |
| FEEDER - EXTENSION                                                                                                                                                                                                                                                                                  | 0.0000  | 0.1370  | 0.7810   | 0.0820   | 0.0000 | 0.0000 | 0.0000 | 2        | 1          | 1979.04                |  |
|                                                                                                                                                                                                                                                                                                     |         |         |          |          |        |        |        |          |            |                        |  |
|                                                                                                                                                                                                                                                                                                     |         |         |          |          |        |        |        |          |            |                        |  |
|                                                                                                                                                                                                                                                                                                     |         |         |          |          |        |        |        |          |            |                        |  |
|                                                                                                                                                                                                                                                                                                     |         |         |          |          |        |        |        |          |            |                        |  |
| <b>FOOTNOTES</b><br>1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 for Bidirectional}.<br>2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BR1 -> 7} DIVIDED BY {The [SLM]} TIMES {1 PLUS 1 OVER PROT [E]} |         |         |          |          |        |        |        |          |            |                        |  |
| 0                                                                                                                                                                                                                                                                                                   |         |         |          |          |        |        |        |          |            |                        |  |

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PLANT CHAR. - WORKSHEET DS  
Sheet 1 / 1COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 05-Dec-95

TIME: 09:13

## WORKSHEET DS

| DIGITAL SIGNAL TABLE (digital tbl) |        |                 |          |         |         |                      |
|------------------------------------|--------|-----------------|----------|---------|---------|----------------------|
| SELECT                             | MODE   | HIERARCHY       | BNDWIDTH | DS1MULT | DS3MULT | VGE MEDIA            |
| 0                                  |        |                 |          |         |         |                      |
| 1                                  |        | DS1: 1.5 Mbps   |          | 1       | 0.04    | 24 BIDIR, 2WCU CA    |
| 2                                  | MODE3  | DS1: 1.5 Mbps   |          | 1       | 0.04    | 24 UNDIR, 4WCU CA    |
| 3                                  |        | V11: 1.5 Mbps   |          | 1       | 0.04    | 24 UNDIR, FIBER      |
| 4                                  |        | V12: 2 Mbps     |          | 1       | 0       | UNDIR, FIBER         |
| 5                                  |        | E1: 2 Mbps      |          | 1       | 0.05    | 30 BIDIR, 2WCU CA    |
| 6                                  | MODE1  | DSTC: 3.2 Mbps  | NA       |         |         | 48 BIDIR, 2WCU CA    |
| 7                                  | MODE2  | DSTC: 3.2 Mbps  |          | 2       | 0.07    | 48 BIDIR, 2WCU CA    |
| 8                                  |        | V13: 3.2 Mbps   |          | 2       | 0.07    | 56 UNDIR, FIBER      |
| 9                                  |        | 4 Mbps          |          | 2       | 0       | 60                   |
| 10                                 |        | DS2: 6.3 Mbps   |          | 4       | 0.14    | 72 BIDIR, 2WCU CA    |
| 11                                 | MODE4  | DS2: 6.3 Mbps   | NA       |         | 0       | 72 BIDIR, 2WCU CA    |
| 12                                 |        | V16: 6.3 Mbps   |          | 4       | 0.14    | 84 UNDIR, FIBER      |
| 13                                 |        | E2: 8 Mbps      |          | 4       | 0.25    | 120 BIDIR, 2WCU CA   |
| 14                                 |        | E3: 34 Mbps     |          | 16      |         | 480                  |
| 15                                 | X      | DS3: 45 Mbps    |          | 28      | 1       | 672 BIDIR, 2WCU CA   |
| 16                                 | STS1   | OC1: 50 Mbps    |          | 28      | 1       | 672 UNDIR, FIBER     |
| 17                                 | X      | 90 Mbps         |          |         | 2       | 1344 UNDIR, FIBER    |
| 18                                 |        | 90 Mbps         |          |         | 2       | 1344 BIDIR, MW RADIO |
| 19                                 |        | DS4: 135 Mbps   |          |         | 3       | 2016 UNDIR, FIBER    |
| 20                                 |        | 135 Mbps        |          |         | 3       | 2016 BIDIR, MW RADIO |
| 21                                 |        | DS4NA: 139 Mbps |          |         | 3       | 2016 UNDIR, FIBER    |
| 22                                 |        | E4: 140 Mbps    |          |         | 3       | 1920 UNDIR, FIBER    |
| 23                                 |        | 14M: 139 Mbps   |          |         | 6       | 4032 BIDIR, COAX     |
| 24                                 |        | P140: 139 Mbps  |          |         | 6       | 4032 BIDIR, COAX     |
| 25                                 | X      | OC3: 155 Mbps   |          |         | 3       | 2016 UNDIR, FIBER    |
| 26                                 | X      | 180 Mbps        |          |         | 4       | 2880 UNDIR, FIBER    |
| 27                                 |        | 417 Mbps        |          |         | 9       | 6048 UNDIR, FIBER    |
| 28                                 |        | OC9: 466 Mbps   |          |         | 9       | 6048 UNDIR, FIBER    |
| 29                                 |        | OC12: 560 Mbps  |          |         | 12      | 7680 UNDIR, FIBER    |
| 30                                 |        | 565 Mbps        |          |         | 12      | 8064 UNDIR, FIBER    |
| 31                                 |        | 1.2 Gbps        |          |         | 24      | 16128 UNDIR, FIBER   |
| 32                                 |        | 1.7 Gbps        |          |         | 36      | 24192 UNDIR, FIBER   |
| 33                                 |        | OC24: 1.8 Gbps  |          |         | 24      | 24192 UNDIR, FIBER   |
| 34                                 |        | 2.5 Gbps        |          |         | 24      | 34560 UNDIR, FIBER   |
| 35                                 |        |                 |          |         |         |                      |
| 36                                 |        |                 |          |         |         |                      |
|                                    | 0      | 1               | 2        | 3       | 4       | 5                    |
|                                    | 6      | 7               |          |         |         |                      |
|                                    | OFFSET |                 |          |         |         |                      |

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PLANT CHAR. - WORKSHEET F  
Sheet 1 of 1

## LOOP LENGTH DEVELOPMENT WORKSHEET

LCAT Rel : 1.0.4

Issued : 07/31/95

COMPANY : CINCINNATI BELL TEL.  
CITY / AREA : CINCINNATI  
STATE : OHIOINVESTMENT YEAR : 1996  
LOOP STUDY YEAR : 1996  
SERVICE CLASS : BAND 2 - RESIDENCE  
WORKSHEET FSTUDY YR.: 1996  
TEST CASE: 1  
LAST UPDATE: 05-Dec-96  
TIME: 09:13

| [A]<br>[B]<br>BAND<br>NUMBER<br>[C] | DISTANCE INCREMENTS :<br>NUMBER OF BANDS :<br>TOTAL<br>WORKING<br>FEET<br>[D=input] | 0.4 MILE BETWEEN BANDS<br>0 TO BE CARRIED INTO THE STUDY<br>TOTAL<br>WORKING<br>FEET<br>[E=(B*D)] | TOTAL<br>AIR<br>FEET<br>[F=A*C*K] | [R]<br>[K]<br>UNIT MILE / FEET CONSTANT :<br>LOOP<br>LENGTH<br>@ MIDPOINT<br>[G (see note)] | ROUTE TO AIR RATIO :<br>1.539947<br>1320<br>WORKING<br>FEET<br>@ MIDPOINT<br>[H=G*R] |
|-------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1                                   |                                                                                     | 0                                                                                                 |                                   | 0                                                                                           | 0                                                                                    |
| 2                                   |                                                                                     | 0                                                                                                 |                                   | 0                                                                                           | 0                                                                                    |
| 3                                   |                                                                                     | 0                                                                                                 |                                   | 0                                                                                           | 0                                                                                    |
| 4                                   |                                                                                     | 0                                                                                                 |                                   | 0                                                                                           | 0                                                                                    |
| 5                                   |                                                                                     | 0                                                                                                 |                                   | 0                                                                                           | 0                                                                                    |

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 NOTICE MUST BE GIVEN  
 PRIOR TO RELEASE TO PUBLIC  
 PROVIDED TO PUCO

ERROR MESSAG 0

NOTE - SPAN MIDPOINT [G] equals the  $\text{SQRT}((F_{\text{CURR}}^2/2) + (F_{\text{PREV}}^2/2))$ 

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07/26/96  
Revised

|    |        |       |
|----|--------|-------|
| 25 | 1.512  | 1.095 |
| 27 | 41     | 3.479 |
|    | 23.881 |       |
|    | 30     |       |
|    | 0.5775 |       |
|    | 0.4225 |       |
|    | 1.0000 |       |

|                                                                                                        |  |                                                                                                                                                    |  |  |  |  |                                                                      |  |
|--------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|----------------------------------------------------------------------|--|
| C:\123R24\LCAT073\RESULTS1<br>OUTPUT - REPORT D<br>SHEET 1 of 1                                        |  | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE INVESTMENT SUMMARY REPORT                                                                                   |  |  |  |  | Bellcore<br>LCAT Rel: 1.0.4<br>Issued: 7/31/95                       |  |
| COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO<br>JOB IDENT: CINCINNATI |  | CIRCUIT DESIGN: TOTAL TECHNOLOGIES<br>LOOP SPAN DIVISION: ALL LOOP SPANS<br>SERVICE CLASS: BAND 2 - RESIDENCE LIN<br>TOTAL LOOP LENGTH: 22282 FEET |  |  |  |  | STUDY YR: 1996<br>TEST CASE: 1<br>RUN DATE: 27-Jan-97<br>TIME: 08:32 |  |

|                            |                                                                     |          |           |         |                      |         |         |                     |
|----------------------------|---------------------------------------------------------------------|----------|-----------|---------|----------------------|---------|---------|---------------------|
| Loop Span Set Weighting: 1 | UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |          |           |         |                      |         |         | WEIGHTED TOTAL LOOP |
| PLANT NAME                 | SEG. NAME                                                           | PRIMARY  | EXTENSION | SUB-    | DISTRIBUTION NETWORK |         |         | TOTAL LOOP          |
| EQPT                       |                                                                     |          |           |         | INTERFACE            |         |         |                     |
| PLANT CODE                 | SEG.LGTH.                                                           |          |           |         |                      |         |         |                     |
| ITEM DESCRIPTION           |                                                                     |          |           |         |                      |         |         |                     |
| SHARED RESOURCES           |                                                                     |          |           |         |                      |         |         |                     |
| LAND                       | 20C                                                                 | \$ 0.03  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0324           |
| BUILDING                   | 10C                                                                 | \$ 0.97  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.9703           |
| BLDG ENTRANCE CABLE        | 12C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| INTRABLDG CABLE            | 52C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| AERIAL CABLE (COPPER)      | 22C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| BURIED CABLE (COPPER)      | 45C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| UNDERGROUND (CU) CA.       | 5C                                                                  | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| CO EQPT - LOW CAP TERM     | 257C                                                                | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| CO EQPT - LOW CAP CHAN     | 257C                                                                | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| CO EQPT - HI CAP TERM      | 857C                                                                | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| CO EQPT - HI CAP CHAN      | 857C                                                                | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| CO EQPT - ANALOG SW        | 77C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| CO EQPT - DIGITAL SW       | 377C                                                                | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| AERIAL CABLE (FIBER)       | 822C                                                                | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| BURIED CABLE (FIBER)       | 845C                                                                | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| UNDERGROUND (FO) CA.       | 85C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| CONNECTORS                 | 57C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| MISC. COM EQP & PWR        | 57C                                                                 | \$ 0.43  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.4330           |
| POLE LINE                  | 1C                                                                  | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| CONDUIT                    | 4C                                                                  | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| DIRECT RESOURCES           |                                                                     |          |           |         |                      |         |         |                     |
| LAND                       | 20C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| BUILDING                   | 10C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| BLDG ENTRANCE CABLE        | 12C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 2.40 | \$ 2.3950           |
| INTRABLDG CABLE            | 52C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| AERIAL CABLE (COPPER)      | 22C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.06 | \$ 6.69              | \$ 0.00 | \$ 0.00 | \$ 6.7500           |
| BURIED CABLE (COPPER)      | 45C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.01 | \$ 4.78              | \$ 0.00 | \$ 0.00 | \$ 4.7900           |
| UNDERGROUND (CU) CA.       | 5C                                                                  | \$ 0.00  | \$ 0.00   | \$ 0.11 | \$ 0.67              | \$ 0.00 | \$ 0.00 | \$ 0.7800           |
| CO EQPT - LOW CAP TERM     | 257C                                                                | \$ 2.88  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 2.8750           |
| CO EQPT - LOW CAP CHAN     | 257C                                                                | \$ 7.80  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 7.7980           |
| CO EQPT - HI CAP TERM      | 857C                                                                | \$ 0.71  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.7090           |
| CO EQPT - HI CAP CHAN      | 857C                                                                | \$ 1.20  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 1.2040           |
| CO EQPT - ANALOG SW        | 77C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| CO EQPT - DIGITAL SW       | 377C                                                                | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| AERIAL CABLE (FIBER)       | 822C                                                                | \$ 0.07  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0650           |
| BURIED CABLE (FIBER)       | 845C                                                                | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| UNDERGROUND (FO) CA.       | 85C                                                                 | \$ 0.06  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0600           |
| CONNECTORS                 | 57C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| MISC. COM EQP & PWR        | 57C                                                                 | \$ 0.00  | \$ 0.00   | \$ 0.00 | \$ 0.00              | \$ 0.00 | \$ 0.00 | \$ 0.0000           |
| POLE LINE                  | 1C                                                                  | \$ 0.02  | \$ 0.00   | \$ 0.01 | \$ 1.60              | \$ 0.00 | \$ 0.00 | \$ 1.6260           |
| CONDUIT                    | 4C                                                                  | \$ 0.03  | \$ 0.00   | \$ 0.04 | \$ 9.23              | \$ 0.00 | \$ 0.00 | \$ 0.2990           |
| SPAN SUMMARY               |                                                                     | \$ 14.20 | \$ 0.00   | \$ 0.23 | \$ 13.97             | \$ 2.40 |         | \$ 30.70            |
|                            |                                                                     |          |           |         |                      |         |         | \$ 30.70            |

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CA123R24 LCATR073\RESULTS1  
OUTPUT - COST\_REPORTS

**Belcore** (R)  
LCAT  
Release: 1.0.4  
Issued: 7/31/95

### LOOP COST ANALYSIS TOOL

#### COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 14001 FEET - INI

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

|           |           |           |         |           |
|-----------|-----------|-----------|---------|-----------|
| BASIS     | NETWORK   | TEST CASE | 1       | LAST SAVE |
| FR / DS   | FLAT RATE | #BANDS    | 0       | 20-Jan-97 |
| SVC LEVEL | NARBAND   | #CKTS     | 1       | 13:16     |
| CST METH  | UN INCR   | INV LEVEL | ANNCOST | TIME      |

....your report is ready for viewing

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A  
B  
C  
D  
E  
F  
GC:\123R24\LCATR073\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 1 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore®

LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1998  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:32COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 1 CDLC  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 22282 FEET

| Circuit Design Mix: 1.0000 |      | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |           |                      |           |          | TOTAL | WEIGHTED |          |
|----------------------------|------|------------------------------------------------------------|-----------|----------------------|-----------|----------|-------|----------|----------|
| PLANT NAME                 |      | FEEDER                                                     |           | DISTRIBUTION NETWORK |           | TOTAL    |       | TOTAL    |          |
| SEG. NAME                  | EQPT | PRIMARY                                                    | EXTENSION | SUB-                 | INTERFACE | LOOP     | LOOP  | LOOP     | LOOP     |
| PLANT                      | CODE |                                                            |           |                      |           |          |       |          |          |
| ITEM DESCRIPTION           |      |                                                            |           |                      |           |          |       |          |          |
| SHARED RESOURCES           |      |                                                            |           |                      |           |          |       |          |          |
| LAND                       | 20C  | \$ 0.03                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.03  |       | \$ 0.03  | \$ 0.03  |
| BUILDING                   | 10C  | \$ 0.82                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.82  |       | \$ 0.82  | \$ 0.82  |
| BLDG ENTRANCE CABLE        | 12C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| INTRABLDG CABLE            | 52C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| AERIAL CABLE (COPPER)      | 22C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| BURIED CABLE (COPPER)      | 45C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| UNDERGROUND (CU) CA.       | 5C   | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CO EQPT - LOW CAP TERM     | 257C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CO EQPT - LOW CAP CHAN     | 257C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CO EQPT - HI CAP TERM      | 857C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CO EQPT - HI CAP CHAN      | 857C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CO EQPT - ANALOG SW        | 77C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CO EQPT - DIGITAL SW       | 377C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| AERIAL CABLE (FIBER)       | 822C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| BURIED CABLE (FIBER)       | 845C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| UNDERGROUND (FO) CA.       | 85C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CONNECTORS                 | 57C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| MISC. COM EQP & PWR        | 57C  | \$ 0.35                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.35  |       | \$ 0.35  | \$ 0.35  |
| POLE LINE                  | 1C   | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CONDUIT                    | 4C   | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
|                            |      |                                                            |           |                      |           |          |       |          |          |
| DIRECT RESOURCES           |      |                                                            |           |                      |           |          |       |          |          |
| LAND                       | 20C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| BUILDING                   | 10C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| BLDG ENTRANCE CABLE        | 12C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 2.40  |       | \$ 2.40  | \$ 2.40  |
| INTRABLDG CABLE            | 52C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| AERIAL CABLE (COPPER)      | 22C  | \$ 0.91                                                    |           | \$ 0.06              | \$ 6.69   | \$ 7.66  |       | \$ 7.66  | \$ 7.66  |
| BURIED CABLE (COPPER)      | 45C  | \$ 0.09                                                    |           | \$ 0.01              | \$ 4.78   | \$ 4.88  |       | \$ 4.88  | \$ 4.88  |
| UNDERGROUND (CU) CA.       | 5C   | \$ 1.82                                                    |           | \$ 0.11              | \$ 0.67   | \$ 2.60  |       | \$ 2.60  | \$ 2.60  |
| CO EQPT - LOW CAP TERM     | 257C | \$ 3.57                                                    |           | \$ 0.00              | \$ 0.00   | \$ 3.57  |       | \$ 3.57  | \$ 3.57  |
| CO EQPT - LOW CAP CHAN     | 257C | \$ 7.80                                                    |           | \$ 0.00              | \$ 0.00   | \$ 7.80  |       | \$ 7.80  | \$ 7.80  |
| CO EQPT - HI CAP TERM      | 857C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CO EQPT - HI CAP CHAN      | 857C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CO EQPT - ANALOG SW        | 77C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CO EQPT - DIGITAL SW       | 377C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| AERIAL CABLE (FIBER)       | 822C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| BURIED CABLE (FIBER)       | 845C | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| UNDERGROUND (FO) CA.       | 85C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| CONNECTORS                 | 57C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| MISC. COM EQP & PWR        | 57C  | \$ 0.00                                                    |           | \$ 0.00              | \$ 0.00   | \$ 0.00  |       | \$ 0.00  | \$ 0.00  |
| POLE LINE                  | 1C   | \$ 0.22                                                    |           | \$ 0.01              | \$ 1.60   | \$ 1.83  |       | \$ 1.83  | \$ 1.83  |
| CONDUIT                    | 4C   | \$ 0.64                                                    |           | \$ 0.04              | \$ 0.23   | \$ 0.91  |       | \$ 0.91  | \$ 0.91  |
| SPAN SUMMARY               |      | \$ 16.25                                                   | \$ 0.00   | \$ 0.23              | \$ 33.97  | \$ 32.85 |       | \$ 32.85 | \$ 32.85 |
| CIRCUIT DESIGN SUMMARY     |      |                                                            |           |                      |           | \$ 32.85 |       |          |          |

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| C:\123R24\LCAT073\RESULTS1   |  | LOOP COST ANALYSIS TOOL                                    |  |                      |  | Bellcore (R)    |  |
|------------------------------|--|------------------------------------------------------------|--|----------------------|--|-----------------|--|
| OUTPUT - WORKSHEET D         |  | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                   |  |                      |  | LCAT Rel: 1.0.4 |  |
| SHEET 2 of 10                |  |                                                            |  |                      |  | Issued: 7/31/95 |  |
| COMPANY: CINCINNATI BELL TEL |  | CIRCUIT DESIGN: 2 CDLC                                     |  |                      |  | STUDY YR: 1996  |  |
| CITY / AREA: CINCINNATI      |  | LOOP SPAN DIVISION: ALL LOOP SPANS                         |  |                      |  | TEST CASE: 1    |  |
| STATE / PROV: OHIO           |  | SERVICE CLASS: BAND 2 - RESIDENCE LIN                      |  |                      |  | DATE: 27-Jan-97 |  |
| JOB IDENT: CINCINNATI        |  | TOTAL LOOP LENGTH: 22282 FEET                              |  |                      |  | TIME: 08:32     |  |
| Circuit Design Mix: 0.0000   |  | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |  |                      |  | WEIGHTED TOTAL  |  |
| PLANT NAME                   |  | FEEDER                                                     |  | DISTRIBUTION NETWORK |  | TOTAL LOOP      |  |
| SEG. NAME                    |  | PRIMARY EXTENSION                                          |  | SUB-                 |  | INTERFACE       |  |
| EQPT CODE                    |  |                                                            |  |                      |  |                 |  |
| PLANT                        |  |                                                            |  |                      |  |                 |  |
| ITEM DESCRIPTION             |  |                                                            |  |                      |  |                 |  |
| <b>SHARED RESOURCES</b>      |  |                                                            |  |                      |  |                 |  |
| LAND                         |  | 20C                                                        |  |                      |  | \$0 \$0         |  |
| BUILDING                     |  | 10C                                                        |  |                      |  | \$0 \$0         |  |
| BLDG ENTRANCE CABLE          |  | 12C                                                        |  |                      |  | \$0 \$0         |  |
| INTRABLDG CABLE              |  | 52C                                                        |  |                      |  | \$0 \$0         |  |
| AERIAL CABLE (COPPER)        |  | 22C                                                        |  |                      |  | \$0 \$0         |  |
| BURIED CABLE (COPPER)        |  | 45C                                                        |  |                      |  | \$0 \$0         |  |
| UNDERGROUND (CU) CA.         |  | 5C                                                         |  |                      |  | \$0 \$0         |  |
| CO EQPT - LOW CAP TERM       |  | 257C                                                       |  |                      |  | \$0 \$0         |  |
| CO EQPT - LOW CAP CHAN       |  | 257C                                                       |  |                      |  | \$0 \$0         |  |
| CO EQPT - HI CAP TERM        |  | 857C                                                       |  |                      |  | \$0 \$0         |  |
| CO EQPT - HI CAP CHAN        |  | 857C                                                       |  |                      |  | \$0 \$0         |  |
| CO EQPT - ANALOG SW          |  | 77C                                                        |  |                      |  | \$0 \$0         |  |
| CO EQPT - DIGITAL SW         |  | 377C                                                       |  |                      |  | \$0 \$0         |  |
| AERIAL CABLE (FIBER)         |  | 822C                                                       |  |                      |  | \$0 \$0         |  |
| BURIED CABLE (FIBER)         |  | 845C                                                       |  |                      |  | \$0 \$0         |  |
| UNDERGROUND (FO) CA.         |  | 85C                                                        |  |                      |  | \$0 \$0         |  |
| CONNECTORS                   |  | 57C                                                        |  |                      |  | \$0 \$0         |  |
| MISC. COM EQP & PWR          |  | 57C                                                        |  |                      |  | \$0 \$0         |  |
| POLE LINE                    |  | 1C                                                         |  |                      |  | \$0 \$0         |  |
| CONDUIT                      |  | 4C                                                         |  |                      |  | \$0 \$0         |  |
| <b>DIRECT RESOURCES</b>      |  |                                                            |  |                      |  |                 |  |
| LAND                         |  | 20C                                                        |  |                      |  | \$0 \$0         |  |
| BUILDING                     |  | 10C                                                        |  |                      |  | \$0 \$0         |  |
| BLDG ENTRANCE CABLE          |  | 12C                                                        |  |                      |  | \$0 \$0         |  |
| INTRABLDG CABLE              |  | 52C                                                        |  |                      |  | \$0 \$0         |  |
| AERIAL CABLE (COPPER)        |  | 22C                                                        |  |                      |  | \$0 \$0         |  |
| BURIED CABLE (COPPER)        |  | 45C                                                        |  |                      |  | \$0 \$0         |  |
| UNDERGROUND (CU) CA.         |  | 5C                                                         |  |                      |  | \$0 \$0         |  |
| CO EQPT - P GAIN TERM        |  | 257C                                                       |  |                      |  | \$0 \$0         |  |
| CO EQPT - P GAIN CHAN        |  | 257C                                                       |  |                      |  | \$0 \$0         |  |
| CO EQPT - FO MUX TERM        |  | 857C                                                       |  |                      |  | \$0 \$0         |  |
| CO EQPT - FO MUX CHAN        |  | 857C                                                       |  |                      |  | \$0 \$0         |  |
| CO EQPT - ANALOG SW          |  | 77C                                                        |  |                      |  | \$0 \$0         |  |
| CO EQPT - DIGITAL SW         |  | 377C                                                       |  |                      |  | \$0 \$0         |  |
| AERIAL CABLE (FIBER)         |  | 822C                                                       |  |                      |  | \$0 \$0         |  |
| BURIED CABLE (FIBER)         |  | 845C                                                       |  |                      |  | \$0 \$0         |  |
| UNDERGROUND (FO) CA.         |  | 85C                                                        |  |                      |  | \$0 \$0         |  |
| CONNECTORS                   |  | 57C                                                        |  |                      |  | \$0 \$0         |  |
| MISC. COM EQP & PWR          |  | 57C                                                        |  |                      |  | \$0 \$0         |  |
| POLE LINE                    |  | 1C                                                         |  |                      |  | \$0 \$0         |  |
| CONDUIT                      |  | 4C                                                         |  |                      |  | \$0 \$0         |  |
| SPAN SUMMARY                 |  |                                                            |  |                      |  | \$0 \$0         |  |
| CIRCUIT DESIGN SUMMARY       |  |                                                            |  |                      |  | \$0 \$0         |  |

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C:\123R24\LCATR073\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 3 of 10

COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATI

CIRCUIT DESIGN: MELDED CDLC  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 22282 FEET

LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1995  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:35

TECHNOLOGY WEIGHT TOTAL LOOP

Technology Type Mix: 10.0000

UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

PLANT NAME  
SEG. NAME  
EQPT  
CODE

PRIMARY  
EXTENSION  
SUB-

DISTRIBUTION NETWORK  
INTERFACE

TOTAL LOOP

ITEM DESCRIPTION

SHARED RESOURCES

|                        |      |         |         |         |         |         |         |           |
|------------------------|------|---------|---------|---------|---------|---------|---------|-----------|
| LAND                   | 20C  | \$ 0.03 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.03 | \$ 0.0000 |
| BUILDING               | 10C  | \$ 0.82 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.82 | \$ 0.0000 |
| BLDG ENTRANCE CABLE    | 12C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| INTRABLDG CABLE        | 52C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| AERIAL CABLE (COPPER)  | 22C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| BURIED CABLE (COPPER)  | 45C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| UNDERGROUND (CU) CA.   | 5C   | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CO EQPT - LOW CAP TERM | 257C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CO EQPT - LOW CAP CHAN | 257C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CO EQPT - HI CAP TERM  | 857C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CO EQPT - HI CAP CHAN  | 857C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CO EQPT - ANALOG SW    | 77C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CO EQPT - DIGITAL SW   | 377C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| AERIAL CABLE (FIBER)   | 822C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| BURIED CABLE (FIBER)   | 845C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| UNDERGROUND (FO) CA.   | 85C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CONNECTORS             | 57C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| MISC. COM EQP & PWR    | 57C  | \$ 0.35 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.35 | \$ 0.0000 |
| POLE LINE              | 1C   | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CONDUIT                | 4C   | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |

DIRECT RESOURCES

|                       |      |         |         |         |         |         |         |           |
|-----------------------|------|---------|---------|---------|---------|---------|---------|-----------|
| LAND                  | 20C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| BUILDING              | 10C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| BLDG ENTRANCE CABLE   | 12C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 2.40 | \$ 2.40 | \$ 0.0000 |
| INTRABLDG CABLE       | 52C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| AERIAL CABLE (COPPER) | 22C  | \$ 0.91 | \$ 0.00 | \$ 0.06 | \$ 6.69 | \$ 0.00 | \$ 7.66 | \$ 0.0000 |
| BURIED CABLE (COPPER) | 45C  | \$ 0.09 | \$ 0.00 | \$ 0.01 | \$ 4.78 | \$ 0.00 | \$ 4.88 | \$ 0.0000 |
| UNDERGROUND (CU) CA.  | 5C   | \$ 1.82 | \$ 0.00 | \$ 0.11 | \$ 0.67 | \$ 0.00 | \$ 2.60 | \$ 0.0000 |
| CO EQPT - P GAIN TERM | 257C | \$ 3.57 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 3.57 | \$ 0.0000 |
| CO EQPT - P GAIN CHAN | 257C | \$ 7.80 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 7.80 | \$ 0.0000 |
| CO EQPT - FO MUX TERM | 857C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CO EQPT - FO MUX CHAN | 857C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CO EQPT - ANALOG SW   | 77C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CO EQPT - DIGITAL SW  | 377C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| AERIAL CABLE (FIBER)  | 822C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| BURIED CABLE (FIBER)  | 845C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| UNDERGROUND (FO) CA.  | 85C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| CONNECTORS            | 57C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| MISC. COM EQP & PWR   | 57C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| POLE LINE             | 1C   | \$ 0.22 | \$ 0.00 | \$ 0.01 | \$ 1.60 | \$ 0.00 | \$ 1.83 | \$ 0.0000 |
| CONDUIT               | 4C   | \$ 0.64 | \$ 0.00 | \$ 0.04 | \$ 0.42 | \$ 0.00 | \$ 0.91 | \$ 0.0000 |

SPAN SUMMARY

\$ 16.25

\$ 0.00

\$ 0.23

\$ 12.97

\$ 2.40

\$ 32.85

\$ 0.0

TECHNOLOGY DESIGN SUMMARY

\$ 32.85

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GC:\123R24\LCAT073\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 4 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Belcore**

LCAT Rel: 1.0.4

Issued: 7/31/95

COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 1 FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 22282 FEETSTUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:32

Circuit Design Mix: 0.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

TOTAL LOOP WEIGHTED  
TOTAL LOOP

PLANT NAME SEG. NAME PRIMARY FEEDER EXTENSION SUB- DISTRIBUTION NETWORK INTERFACE

EQPT  
CODE

PLANT

ITEM DESCRIPTION

**SHARED RESOURCES**

|    |                        |      |  |  |  |  |  |     |     |
|----|------------------------|------|--|--|--|--|--|-----|-----|
| 8  | LAND                   | 20C  |  |  |  |  |  | \$0 | \$0 |
| 9  | BUILDING               | 10C  |  |  |  |  |  | \$0 | \$0 |
| 10 | BLDG ENTRANCE CABLE    | 12C  |  |  |  |  |  | \$0 | \$0 |
| 11 | INTRABLDG CABLE        | 52C  |  |  |  |  |  | \$0 | \$0 |
| 12 | AERIAL CABLE (COPPER)  | 22C  |  |  |  |  |  | \$0 | \$0 |
| 13 | BURIED CABLE (COPPER)  | 45C  |  |  |  |  |  | \$0 | \$0 |
| 14 | UNDERGROUND (CU) CA.   | 5C   |  |  |  |  |  | \$0 | \$0 |
| 15 | CO EQPT - LOW CAP TERM | 257C |  |  |  |  |  | \$0 | \$0 |
| 16 | CO EQPT - LOW CAP CHAN | 257C |  |  |  |  |  | \$0 | \$0 |
| 17 | CO EQPT - HI CAP TERM  | 857C |  |  |  |  |  | \$0 | \$0 |
| 18 | CO EQPT - HI CAP CHAN  | 857C |  |  |  |  |  | \$0 | \$0 |
| 19 | CO EQPT - ANALOG SW    | 77C  |  |  |  |  |  | \$0 | \$0 |
| 20 | CO EQPT - DIGITAL SW   | 377C |  |  |  |  |  | \$0 | \$0 |
| 21 | AERIAL CABLE (FIBER)   | 822C |  |  |  |  |  | \$0 | \$0 |
| 22 | BURIED CABLE (FIBER)   | 845C |  |  |  |  |  | \$0 | \$0 |
| 23 | UNDERGROUND (FO) CA.   | 85C  |  |  |  |  |  | \$0 | \$0 |
| 24 | CONNECTORS             | 57C  |  |  |  |  |  | \$0 | \$0 |
| 25 | MISC. COM EQP & PWR    | 57C  |  |  |  |  |  | \$0 | \$0 |
| 26 | POLE LINE              | 1C   |  |  |  |  |  | \$0 | \$0 |
| 27 | CONDUIT                | 4C   |  |  |  |  |  | \$0 | \$0 |

**DIRECT RESOURCES**

|    |                        |      |  |  |  |  |  |     |     |
|----|------------------------|------|--|--|--|--|--|-----|-----|
| 30 | LAND                   | 20C  |  |  |  |  |  | \$0 | \$0 |
| 31 | BUILDING               | 10C  |  |  |  |  |  | \$0 | \$0 |
| 32 | BLDG ENTRANCE CABLE    | 12C  |  |  |  |  |  | \$0 | \$0 |
| 33 | INTRABLDG CABLE        | 52C  |  |  |  |  |  | \$0 | \$0 |
| 34 | AERIAL CABLE (COPPER)  | 22C  |  |  |  |  |  | \$0 | \$0 |
| 35 | BURIED CABLE (COPPER)  | 45C  |  |  |  |  |  | \$0 | \$0 |
| 36 | UNDERGROUND (CU) CA.   | 5C   |  |  |  |  |  | \$0 | \$0 |
| 37 | CO EQPT - LOW CAP TERM | 257C |  |  |  |  |  | \$0 | \$0 |
| 38 | CO EQPT - LOW CAP CHAN | 257C |  |  |  |  |  | \$0 | \$0 |
| 39 | CO EQPT - HI CAP TERM  | 857C |  |  |  |  |  | \$0 | \$0 |
| 40 | CO EQPT - HI CAP CHAN  | 857C |  |  |  |  |  | \$0 | \$0 |
| 41 | CO EQPT - ANALOG SW    | 77C  |  |  |  |  |  | \$0 | \$0 |
| 42 | CO EQPT - DIGITAL SW   | 377C |  |  |  |  |  | \$0 | \$0 |
| 43 | AERIAL CABLE (FIBER)   | 822C |  |  |  |  |  | \$0 | \$0 |
| 44 | BURIED CABLE (FIBER)   | 845C |  |  |  |  |  | \$0 | \$0 |
| 45 | UNDERGROUND (FO) CA.   | 85C  |  |  |  |  |  | \$0 | \$0 |
| 46 | CONNECTORS             | 57C  |  |  |  |  |  | \$0 | \$0 |
| 47 | MISC. COM EQP & PWR    | 57C  |  |  |  |  |  | \$0 | \$0 |
| 48 | POLE LINE              | 1C   |  |  |  |  |  | \$0 | \$0 |
| 49 | CONDUIT                | 4C   |  |  |  |  |  | \$0 | \$0 |

SPAN SUMMARY

\$0

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OUTPUT - WORKSHEET D  
SHEET 5 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Belcore®

LCAT Rel: 1.0.4

Issued: 7/31/95

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 27-Jan-97

TIME: 08:32

COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 2 FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 22282 FEET

| Circuit Design Mix: 0.0000 |        | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |           |         |           |      | TOTAL<br>LOOP | WEIGHTED<br>TOTAL<br>LOOP |
|----------------------------|--------|------------------------------------------------------------|-----------|---------|-----------|------|---------------|---------------------------|
| PLANT NAME                 | FEEDER | DISTRIBUTION NETWORK                                       | INTERFACE | PRIMARY | EXTENSION | SUB- |               |                           |
| SEG. NAME                  |        |                                                            |           |         |           |      |               |                           |
| EQPT                       |        |                                                            |           |         |           |      |               |                           |
| PLANT                      | CODE   |                                                            |           |         |           |      |               |                           |
| ITEM DESCRIPTION           |        |                                                            |           |         |           |      |               |                           |
| <b>SHARED RESOURCES</b>    |        |                                                            |           |         |           |      |               |                           |
| LAND                       | 20C    |                                                            |           |         |           |      | \$0           | \$0                       |
| BUILDING                   | 10C    |                                                            |           |         |           |      | \$0           | \$0                       |
| BLDG ENTRANCE CABLE        | 12C    |                                                            |           |         |           |      | \$0           | \$0                       |
| INTRABLDG CABLE            | 52C    |                                                            |           |         |           |      | \$0           | \$0                       |
| AERIAL CABLE (COPPER)      | 22C    |                                                            |           |         |           |      | \$0           | \$0                       |
| BURIED CABLE (COPPER)      | 45C    |                                                            |           |         |           |      | \$0           | \$0                       |
| UNDERGROUND (CU) CA.       | 5C     |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - LOW CAP TERM     | 257C   |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - LOW CAP CHAN     | 257C   |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - HI CAP TERM      | 857C   |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - HI CAP CHAN      | 857C   |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - ANALOG SW        | 77C    |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - DIGITAL SW       | 377C   |                                                            |           |         |           |      | \$0           | \$0                       |
| AERIAL CABLE (FIBER)       | 822C   |                                                            |           |         |           |      | \$0           | \$0                       |
| BURIED CABLE (FIBER)       | 845C   |                                                            |           |         |           |      | \$0           | \$0                       |
| UNDERGROUND (FO) CA.       | 85C    |                                                            |           |         |           |      | \$0           | \$0                       |
| CONNECTORS                 | 57C    |                                                            |           |         |           |      | \$0           | \$0                       |
| MISC. COM EQP & PWR        | 57C    |                                                            |           |         |           |      | \$0           | \$0                       |
| POLE LINE                  | 1C     |                                                            |           |         |           |      | \$0           | \$0                       |
| CONDUIT                    | 4C     |                                                            |           |         |           |      | \$0           | \$0                       |
| <b>DIRECT RESOURCES</b>    |        |                                                            |           |         |           |      |               |                           |
| LAND                       | 20C    |                                                            |           |         |           |      | \$0           | \$0                       |
| BUILDING                   | 10C    |                                                            |           |         |           |      | \$0           | \$0                       |
| BLDG ENTRANCE CABLE        | 12C    |                                                            |           |         |           |      | \$0           | \$0                       |
| INTRABLDG CABLE            | 52C    |                                                            |           |         |           |      | \$0           | \$0                       |
| AERIAL CABLE (COPPER)      | 22C    |                                                            |           |         |           |      | \$0           | \$0                       |
| BURIED CABLE (COPPER)      | 45C    |                                                            |           |         |           |      | \$0           | \$0                       |
| UNDERGROUND (CU) CA.       | 5C     |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - LOW CAP TERM     | 257C   |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - LOW CAP CHAN     | 257C   |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - HI CAP TERM      | 857C   |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - HI CAP CHAN      | 857C   |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - ANALOG SW        | 77C    |                                                            |           |         |           |      | \$0           | \$0                       |
| CO EQPT - DIGITAL SW       | 377C   |                                                            |           |         |           |      | \$0           | \$0                       |
| AERIAL CABLE (FIBER)       | 822C   |                                                            |           |         |           |      | \$0           | \$0                       |
| BURIED CABLE (FIBER)       | 845C   |                                                            |           |         |           |      | \$0           | \$0                       |
| UNDERGROUND (FO) CA.       | 85C    |                                                            |           |         |           |      | \$0           | \$0                       |
| CONNECTORS                 | 57C    |                                                            |           |         |           |      | \$0           | \$0                       |
| MISC. COM EQP & PWR        | 57C    |                                                            |           |         |           |      | \$0           | \$0                       |
| POLE LINE                  | 1C     |                                                            |           |         |           |      | \$0           | \$0                       |
| CONDUIT                    | 4C     |                                                            |           |         |           |      | \$0           | \$0                       |
| SPAN SUMMARY               |        |                                                            |           | \$0     | \$0       | \$0  | \$0           | \$0                       |
|                            |        |                                                            |           |         |           |      | \$0           | \$0                       |

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OUTPUT - WORKSHEET D  
SHEET 6 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellcore<sup>®</sup>

LCAT Rel: 1.0.4

Issued: 7/31/95

COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 3 FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 22282 FEETSTUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:32

Circuit Design Mix: 1.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

| 3  | PLANT NAME             | FEEDER    | DISTRIBUTION NETWORK | TOTAL   | TOTAL    |
|----|------------------------|-----------|----------------------|---------|----------|
| 4  | SEG. NAME              | EXTENSION | INTERFACE            | LOOP    | LOOP     |
| 5  | EQPT                   | SUB-      |                      |         |          |
| 6  | CODE                   |           |                      |         |          |
| 7  | PLANT                  |           |                      |         |          |
| 8  | ITEM DESCRIPTION       |           |                      |         |          |
| 9  | SHARED RESOURCES       |           |                      |         |          |
| 10 | LAND                   | 20C       | \$ 0.03              | \$ 0.00 | \$ 0.03  |
| 11 | BUILDING               | 10C       | \$ 0.97              | \$ 0.00 | \$ 0.97  |
| 12 | BLDG ENTRANCE CABLE    | 12C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 13 | INTRABLDG CABLE        | 52C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 14 | AERIAL CABLE (COPPER)  | 22C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 15 | BURIED CABLE (COPPER)  | 45C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 16 | UNDERGROUND (CU) CA.   | 5C        | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 17 | CO EQPT - LOW CAP TERM | 257C      | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 18 | CO EQPT - LOW CAP CHAN | 257C      | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 19 | CO EQPT - HI CAP TERM  | 857C      | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 20 | CO EQPT - HI CAP CHAN  | 857C      | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 21 | CO EQPT - ANALOG SW    | 77C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 22 | CO EQPT - DIGITAL SW   | 377C      | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 23 | AERIAL CABLE (FIBER)   | 822C      | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 24 | BURIED CABLE (FIBER)   | 845C      | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 25 | UNDERGROUND (FO) CA.   | 85C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 26 | CONNECTORS             | 57C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 27 | MISC. COM EQP & PWR    | 57C       | \$ 0.43              | \$ 0.00 | \$ 0.43  |
| 28 | POLE LINE              | 1C        | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 29 | CONDUIT                | 4C        | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 30 | DIRECT RESOURCES       |           |                      |         |          |
| 31 | LAND                   | 20C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 32 | BUILDING               | 10C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 33 | BLDG ENTRANCE CABLE    | 12C       | \$ 0.00              | \$ 0.00 | \$ 2.40  |
| 34 | INTRABLDG CABLE        | 52C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 35 | AERIAL CABLE (COPPER)  | 22C       | \$ 0.00              | \$ 0.06 | \$ 6.69  |
| 36 | BURIED CABLE (COPPER)  | 45C       | \$ 0.00              | \$ 0.01 | \$ 4.78  |
| 37 | UNDERGROUND (CU) CA.   | 5C        | \$ 0.00              | \$ 0.11 | \$ 0.67  |
| 38 | CO EQPT - LOW CAP TERM | 257C      | \$ 2.88              | \$ 0.00 | \$ 0.00  |
| 39 | CO EQPT - LOW CAP CHAN | 257C      | \$ 7.80              | \$ 0.00 | \$ 0.00  |
| 40 | CO EQPT - HI CAP TERM  | 857C      | \$ 0.71              | \$ 0.00 | \$ 0.00  |
| 41 | CO EQPT - HI CAP CHAN  | 857C      | \$ 1.20              | \$ 0.00 | \$ 0.00  |
| 42 | CO EQPT - ANALOG SW    | 77C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 43 | CO EQPT - DIGITAL SW   | 377C      | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 44 | AERIAL CABLE (FIBER)   | 822C      | \$ 0.07              | \$ 0.00 | \$ 0.00  |
| 45 | BURIED CABLE (FIBER)   | 845C      | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 46 | UNDERGROUND (FO) CA.   | 85C       | \$ 0.06              | \$ 0.00 | \$ 0.00  |
| 47 | CONNECTORS             | 57C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 48 | MISC. COM EQP & PWR    | 57C       | \$ 0.00              | \$ 0.00 | \$ 0.00  |
| 49 | POLE LINE              | 1C        | \$ 0.02              | \$ 0.01 | \$ 1.60  |
| 50 | CONDUIT                | 4C        | \$ 0.03              | \$ 0.04 | \$ 0.23  |
| 51 | SPAN SUMMARY           |           | \$ 14.20             | \$ 0.00 | \$ 0.23  |
| 52 |                        |           |                      |         | \$ 30.79 |
| 53 |                        |           |                      |         | \$ 30.79 |
| 54 |                        |           |                      |         |          |
| 55 |                        |           |                      |         |          |

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|                                 | OUTPUT - WORKSHEET D                                       |  |  |  |  |  |  |  |  |  |
|                                 | SHEET 7 of 10                                              |  |  |  |  |  |  |  |  |  |
|                                 | COMPANY: CINCINNATI BELL TEL                               |  |  |  |  |  |  |  |  |  |
|                                 | CITY / AREA: CINCINNATI                                    |  |  |  |  |  |  |  |  |  |
|                                 | STATE / PROV: OHIO                                         |  |  |  |  |  |  |  |  |  |
|                                 | JOB IDENT: CINCINNATI                                      |  |  |  |  |  |  |  |  |  |
|                                 | CIRCUIT DESIGN: 4 FOMUX                                    |  |  |  |  |  |  |  |  |  |
|                                 | LOOP SPAN DIVISION: ALL LOOP SPANS                         |  |  |  |  |  |  |  |  |  |
|                                 | SERVICE CLASS: BAND 2 - RESIDENCE LIN                      |  |  |  |  |  |  |  |  |  |
|                                 | TOTAL LOOP LENGTH: 22282 FEET                              |  |  |  |  |  |  |  |  |  |
|                                 | LCAT Rel: 1.0.4                                            |  |  |  |  |  |  |  |  |  |
|                                 | Issued: 7/31/95                                            |  |  |  |  |  |  |  |  |  |
|                                 | STUDY YR: 1996                                             |  |  |  |  |  |  |  |  |  |
|                                 | TEST CASE: 1                                               |  |  |  |  |  |  |  |  |  |
|                                 | RUN DATE: 27-Jan-97                                        |  |  |  |  |  |  |  |  |  |
|                                 | TIME: 08:32                                                |  |  |  |  |  |  |  |  |  |
|                                 | Circuit Design Mix: 0.0000                                 |  |  |  |  |  |  |  |  |  |
|                                 | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |  |  |  |  |  |  |  |  |  |
|                                 | PLANT NAME FEEDER DISTRIBUTION NETWORK                     |  |  |  |  |  |  |  |  |  |
|                                 | SEG. NAME PRIMARY EXTENSION SUB- INTERFACE                 |  |  |  |  |  |  |  |  |  |
|                                 | EQPT                                                       |  |  |  |  |  |  |  |  |  |
|                                 | CODE                                                       |  |  |  |  |  |  |  |  |  |
|                                 | PLANT                                                      |  |  |  |  |  |  |  |  |  |
|                                 | ITEM DESCRIPTION                                           |  |  |  |  |  |  |  |  |  |
|                                 | 7 SHARED RESOURCES                                         |  |  |  |  |  |  |  |  |  |
|                                 | 8 LAND 20C                                                 |  |  |  |  |  |  |  |  |  |
|                                 | 9 BUILDING 10C                                             |  |  |  |  |  |  |  |  |  |
|                                 | 10 BLDG ENTRANCE CABLE 12C                                 |  |  |  |  |  |  |  |  |  |
|                                 | 11 INTRABLDG CABLE 52C                                     |  |  |  |  |  |  |  |  |  |
|                                 | 12 AERIAL CABLE (COPPER) 22C                               |  |  |  |  |  |  |  |  |  |
|                                 | 13 BURIED CABLE (COPPER) 45C                               |  |  |  |  |  |  |  |  |  |
|                                 | 14 UNDERGROUND (CU) CA. 5C                                 |  |  |  |  |  |  |  |  |  |
|                                 | 15 CO EQPT - LOW CAP TERM 257C                             |  |  |  |  |  |  |  |  |  |
|                                 | 16 CO EQPT - LOW CAP CHAN 257C                             |  |  |  |  |  |  |  |  |  |
|                                 | 17 CO EQPT - HI CAP TERM 857C                              |  |  |  |  |  |  |  |  |  |
|                                 | 18 CO EQPT - HI CAP CHAN 857C                              |  |  |  |  |  |  |  |  |  |
|                                 | 19 CO EQPT - ANALOG SW 77C                                 |  |  |  |  |  |  |  |  |  |
|                                 | 20 CO EQPT - DIGITAL SW 377C                               |  |  |  |  |  |  |  |  |  |
|                                 | 21 AERIAL CABLE (FIBER) 822C                               |  |  |  |  |  |  |  |  |  |
|                                 | 22 BURIED CABLE (FIBER) 845C                               |  |  |  |  |  |  |  |  |  |
|                                 | 23 UNDERGROUND (FO) CA. 85C                                |  |  |  |  |  |  |  |  |  |
|                                 | 24 CONNECTORS 57C                                          |  |  |  |  |  |  |  |  |  |
|                                 | 25 MISC. COM EQP & PWR 57C                                 |  |  |  |  |  |  |  |  |  |
|                                 | 26 POLE LINE 1C                                            |  |  |  |  |  |  |  |  |  |
|                                 | 27 CONDUIT 4C                                              |  |  |  |  |  |  |  |  |  |
|                                 | 28                                                         |  |  |  |  |  |  |  |  |  |
|                                 | 29 DIRECT RESOURCES                                        |  |  |  |  |  |  |  |  |  |
|                                 | 30 LAND 20C                                                |  |  |  |  |  |  |  |  |  |
|                                 | 31 BUILDING 10C                                            |  |  |  |  |  |  |  |  |  |
|                                 | 32 BLDG ENTRANCE CABLE 12C                                 |  |  |  |  |  |  |  |  |  |
|                                 | 33 INTRABLDG CABLE 52C                                     |  |  |  |  |  |  |  |  |  |
|                                 | 34 AERIAL CABLE (COPPER) 22C                               |  |  |  |  |  |  |  |  |  |
|                                 | 35 BURIED CABLE (COPPER) 45C                               |  |  |  |  |  |  |  |  |  |
|                                 | 36 UNDERGROUND (CU) CA. 5C                                 |  |  |  |  |  |  |  |  |  |
|                                 | 37 CO EQPT - LOW CAP TERM 257C                             |  |  |  |  |  |  |  |  |  |
|                                 | 38 CO EQPT - LOW CAP CHAN 257C                             |  |  |  |  |  |  |  |  |  |
|                                 | 39 CO EQPT - HI CAP TERM 857C                              |  |  |  |  |  |  |  |  |  |
|                                 | 40 CO EQPT - HI CAP CHAN 857C                              |  |  |  |  |  |  |  |  |  |
|                                 | 41 CO EQPT - ANALOG SW 77C                                 |  |  |  |  |  |  |  |  |  |
|                                 | 42 CO EQPT - DIGITAL SW 377C                               |  |  |  |  |  |  |  |  |  |
|                                 | 43 AERIAL CABLE (FIBER) 822C                               |  |  |  |  |  |  |  |  |  |
|                                 | 44 BURIED CABLE (FIBER) 845C                               |  |  |  |  |  |  |  |  |  |
|                                 | 45 UNDERGROUND (FO) CA. 85C                                |  |  |  |  |  |  |  |  |  |
|                                 | 46 CONNECTORS 57C                                          |  |  |  |  |  |  |  |  |  |
|                                 | 47 MISC. COM EQP & PWR 57C                                 |  |  |  |  |  |  |  |  |  |
|                                 | 48 POLE LINE 1C                                            |  |  |  |  |  |  |  |  |  |
|                                 | 49 CONDUIT 4C                                              |  |  |  |  |  |  |  |  |  |
|                                 | 50                                                         |  |  |  |  |  |  |  |  |  |
|                                 | 51 SPAN SUMMARY \$0 \$0 \$0 \$0 \$0 \$0 \$0                |  |  |  |  |  |  |  |  |  |
|                                 | 52                                                         |  |  |  |  |  |  |  |  |  |
|                                 | 53                                                         |  |  |  |  |  |  |  |  |  |
|                                 | 54                                                         |  |  |  |  |  |  |  |  |  |
|                                 | 55                                                         |  |  |  |  |  |  |  |  |  |

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| C:\123R24\LCATR073\RESULTS1  |  | LOOP COST ANALYSIS TOOL                                    |  |                      |  | Bellcore        |     |
|------------------------------|--|------------------------------------------------------------|--|----------------------|--|-----------------|-----|
| OUTPUT - WORKSHEET D         |  | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                   |  |                      |  | LCAT Rel: 1.0.4 |     |
| SHEET 8 of 10                |  |                                                            |  |                      |  | Issued: 7/31/95 |     |
| COMPANY: CINCINNATI BELL TEL |  | CIRCUIT DESIGN: 5 FOMUX                                    |  | STUDY YR: 1996       |  |                 |     |
| CITY / AREA: CINCINNATI      |  | LOOP SPAN DIVISION: ALL LOOP SPANS                         |  | TEST CASE: 1         |  |                 |     |
| STATE / PROV: OHIO           |  | SERVICE CLASS: BAND 2 - RESIDENCE LIN                      |  | RUN DATE: 27-Jan-97  |  |                 |     |
| JOB IDENT: CINCINNATI        |  | TOTAL LOOP LENGTH: 22282 FEET                              |  | TIME: 08:32          |  |                 |     |
| Circuit Design Mix: 0.0000   |  | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |  |                      |  | WEIGHTED TOTAL  |     |
| PLANT NAME                   |  | FEEDER                                                     |  | DISTRIBUTION NETWORK |  | TOTAL LOOP      |     |
| SEG. NAME                    |  | PRIMARY EXTENSION                                          |  | SUB-- INTERFACE      |  | TOTAL LOOP      |     |
| EQPT CODE                    |  |                                                            |  |                      |  |                 |     |
| PLANT                        |  |                                                            |  |                      |  |                 |     |
| ITEM DESCRIPTION             |  |                                                            |  |                      |  |                 |     |
| <u>SHARED RESOURCES</u>      |  |                                                            |  |                      |  |                 |     |
| LAND 20C                     |  |                                                            |  |                      |  | \$0             | \$0 |
| BUILDING 10C                 |  |                                                            |  |                      |  | \$0             | \$0 |
| BLDG ENTRANCE CABLE 12C      |  |                                                            |  |                      |  | \$0             | \$0 |
| INTRABLDG CABLE 52C          |  |                                                            |  |                      |  | \$0             | \$0 |
| AERIAL CABLE (COPPER) 22C    |  |                                                            |  |                      |  | \$0             | \$0 |
| BURIED CABLE (COPPER) 45C    |  |                                                            |  |                      |  | \$0             | \$0 |
| UNDERGROUND (CU) CA. 5C      |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - LOW CAP TERM 257C  |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - LOW CAP CHAN 257C  |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - HI CAP TERM 857C   |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - HI CAP CHAN 857C   |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - ANALOG SW 77C      |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - DIGITAL SW 377C    |  |                                                            |  |                      |  | \$0             | \$0 |
| AERIAL CABLE (FIBER) 822C    |  |                                                            |  |                      |  | \$0             | \$0 |
| BURIED CABLE (FIBER) 845C    |  |                                                            |  |                      |  | \$0             | \$0 |
| UNDERGROUND (FO) CA. 85C     |  |                                                            |  |                      |  | \$0             | \$0 |
| CONNECTORS 57C               |  |                                                            |  |                      |  | \$0             | \$0 |
| MISC. COM EQP & PWR 57C      |  |                                                            |  |                      |  | \$0             | \$0 |
| POLE LINE 1C                 |  |                                                            |  |                      |  | \$0             | \$0 |
| CONDUIT 4C                   |  |                                                            |  |                      |  | \$0             | \$0 |
| <u>DIRECT RESOURCES</u>      |  |                                                            |  |                      |  |                 |     |
| LAND 20C                     |  |                                                            |  |                      |  | \$0             | \$0 |
| BUILDING 10C                 |  |                                                            |  |                      |  | \$0             | \$0 |
| BLDG ENTRANCE CABLE 12C      |  |                                                            |  |                      |  | \$0             | \$0 |
| INTRABLDG CABLE 52C          |  |                                                            |  |                      |  | \$0             | \$0 |
| AERIAL CABLE (COPPER) 22C    |  |                                                            |  |                      |  | \$0             | \$0 |
| BURIED CABLE (COPPER) 45C    |  |                                                            |  |                      |  | \$0             | \$0 |
| UNDERGROUND (CU) CA. 5C      |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - LOW CAP TERM 257C  |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - LOW CAP CHAN 257C  |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - HI CAP TERM 857C   |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - HI CAP CHAN 857C   |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - ANALOG SW 77C      |  |                                                            |  |                      |  | \$0             | \$0 |
| CO EQPT - DIGITAL SW 377C    |  |                                                            |  |                      |  | \$0             | \$0 |
| AERIAL CABLE (FIBER) 822C    |  |                                                            |  |                      |  | \$0             | \$0 |
| BURIED CABLE (FIBER) 845C    |  |                                                            |  |                      |  | \$0             | \$0 |
| UNDERGROUND (FO) CA. 85C     |  |                                                            |  |                      |  | \$0             | \$0 |
| CONNECTORS 57C               |  |                                                            |  |                      |  | \$0             | \$0 |
| MISC. COM EQP & PWR 57C      |  |                                                            |  |                      |  | \$0             | \$0 |
| POLE LINE 1C                 |  |                                                            |  |                      |  | \$0             | \$0 |
| CONDUIT 4C                   |  |                                                            |  |                      |  | \$0             | \$0 |
| SPAN SUMMARY                 |  | \$0 \$0                                                    |  | \$0 \$0              |  | \$0             | \$0 |

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OUTPUT - WORKSHEET D  
SHEET 9 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Bellicore**LCAT Rel: 1.0.4  
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 6 FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 22282 FEETSTUDY YR: 1998  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:32

Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

PLANT NAME SEG. NAME PRIMARY FEEDER EXTENSION SUB- DISTRIBUTION NETWORK INTERFACE TOTAL LOOP WEIGHTED TOTAL LOOP

PLANT

ITEM DESCRIPTION

**SHARED RESOURCES**

|    |                        |      |  |  |  |  |  |     |     |
|----|------------------------|------|--|--|--|--|--|-----|-----|
| 8  | LAND                   | 20C  |  |  |  |  |  | \$0 | \$0 |
| 9  | BUILDING               | 10C  |  |  |  |  |  | \$0 | \$0 |
| 10 | BLDG ENTRANCE CABLE    | 12C  |  |  |  |  |  | \$0 | \$0 |
| 11 | INTRABLDG CABLE        | 52C  |  |  |  |  |  | \$0 | \$0 |
| 12 | AERIAL CABLE (COPPER)  | 22C  |  |  |  |  |  | \$0 | \$0 |
| 13 | BURIED CABLE (COPPER)  | 45C  |  |  |  |  |  | \$0 | \$0 |
| 14 | UNDERGROUND (CU) CA.   | 5C   |  |  |  |  |  | \$0 | \$0 |
| 15 | CO EQPT - LOW CAP TERM | 257C |  |  |  |  |  | \$0 | \$0 |
| 16 | CO EQPT - LOW CAP CHAN | 257C |  |  |  |  |  | \$0 | \$0 |
| 17 | CO EQPT - HI CAP TERM  | 857C |  |  |  |  |  | \$0 | \$0 |
| 18 | CO EQPT - HI CAP CHAN  | 857C |  |  |  |  |  | \$0 | \$0 |
| 19 | CO EQPT - ANALOG SW    | 77C  |  |  |  |  |  | \$0 | \$0 |
| 20 | CO EQPT - DIGITAL SW   | 377C |  |  |  |  |  | \$0 | \$0 |
| 21 | AERIAL CABLE (FIBER)   | 822C |  |  |  |  |  | \$0 | \$0 |
| 22 | BURIED CABLE (FIBER)   | 845C |  |  |  |  |  | \$0 | \$0 |
| 23 | UNDERGROUND (FO) CA.   | 85C  |  |  |  |  |  | \$0 | \$0 |
| 24 | CONNECTORS             | 57C  |  |  |  |  |  | \$0 | \$0 |
| 25 | MISC. COM EQP & PWR    | 57C  |  |  |  |  |  | \$0 | \$0 |
| 26 | POLE LINE              | 1C   |  |  |  |  |  | \$0 | \$0 |
| 27 | CONDUIT                | 4C   |  |  |  |  |  | \$0 | \$0 |

**DIRECT RESOURCES**

|    |                        |      |  |  |  |  |  |     |     |
|----|------------------------|------|--|--|--|--|--|-----|-----|
| 30 | LAND                   | 20C  |  |  |  |  |  | \$0 | \$0 |
| 31 | BUILDING               | 10C  |  |  |  |  |  | \$0 | \$0 |
| 32 | BLDG ENTRANCE CABLE    | 12C  |  |  |  |  |  | \$0 | \$0 |
| 33 | INTRABLDG CABLE        | 52C  |  |  |  |  |  | \$0 | \$0 |
| 34 | AERIAL CABLE (COPPER)  | 22C  |  |  |  |  |  | \$0 | \$0 |
| 35 | BURIED CABLE (COPPER)  | 45C  |  |  |  |  |  | \$0 | \$0 |
| 36 | UNDERGROUND (CU) CA.   | 5C   |  |  |  |  |  | \$0 | \$0 |
| 37 | CO EQPT - LOW CAP TERM | 257C |  |  |  |  |  | \$0 | \$0 |
| 38 | CO EQPT - LOW CAP CHAN | 257C |  |  |  |  |  | \$0 | \$0 |
| 39 | CO EQPT - HI CAP TERM  | 857C |  |  |  |  |  | \$0 | \$0 |
| 40 | CO EQPT - HI CAP CHAN  | 857C |  |  |  |  |  | \$0 | \$0 |
| 41 | CO EQPT - ANALOG SW    | 77C  |  |  |  |  |  | \$0 | \$0 |
| 42 | CO EQPT - DIGITAL SW   | 377C |  |  |  |  |  | \$0 | \$0 |
| 43 | AERIAL CABLE (FIBER)   | 822C |  |  |  |  |  | \$0 | \$0 |
| 44 | BURIED CABLE (FIBER)   | 845C |  |  |  |  |  | \$0 | \$0 |
| 45 | UNDERGROUND (FO) CA.   | 85C  |  |  |  |  |  | \$0 | \$0 |
| 46 | CONNECTORS             | 57C  |  |  |  |  |  | \$0 | \$0 |
| 47 | MISC. COM EQP & PWR    | 57C  |  |  |  |  |  | \$0 | \$0 |
| 48 | POLE LINE              | 1C   |  |  |  |  |  | \$0 | \$0 |
| 49 | CONDUIT                | 4C   |  |  |  |  |  | \$0 | \$0 |

SPAN SUMMARY

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OUTPUT - WORKSHEET D  
SHEET 10 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellcore<sup>®</sup>LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:32COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELDED FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 2 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 22282 FEET

| Technology Type Mix: 1.0000 |      | UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |           |                      |           |         |          | TECHNOLOGY |
|-----------------------------|------|---------------------------------------------------------------------|-----------|----------------------|-----------|---------|----------|------------|
|                             |      | FEEDER                                                              |           | DISTRIBUTION NETWORK |           | TOTAL   |          | WEIGHTED   |
|                             |      | PRIMARY                                                             | EXTENSION | SUB-                 | INTERFACE | LOOP    | LOOP     | TOTAL      |
| PLANT                       | EQPT |                                                                     |           |                      |           |         |          |            |
| ITEM DESCRIPTION            | CODE |                                                                     |           |                      |           |         |          |            |
| <b>SHARED RESOURCES</b>     |      |                                                                     |           |                      |           |         |          |            |
| LAND                        | 20C  | \$ 0.03                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.03  | \$ 0.0324  |
| BUILDING                    | 10C  | \$ 0.97                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.97  | \$ 0.9703  |
| BLDG ENTRANCE CABLE         | 12C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| INTRABLDG CABLE             | 52C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| AERIAL CABLE (COPPER)       | 22C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| BURIED CABLE (COPPER)       | 45C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| UNDERGROUND (CU) CA.        | 5C   | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| CO EQPT - LOW CAP TERM      | 257C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| CO EQPT - LOW CAP CHAN      | 257C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| CO EQPT - HI CAP TERM       | 857C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| CO EQPT - HI CAP CHAN       | 857C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| CO EQPT - ANALOG SW         | 77C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| CO EQPT - DIGITAL SW        | 377C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| AERIAL CABLE (FIBER)        | 822C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| BURIED CABLE (FIBER)        | 845C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| UNDERGROUND (FO) CA.        | 85C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| CONNECTORS                  | 57C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| MISC. COM EQP & PWR         | 57C  | \$ 0.43                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.43  | \$ 0.4330  |
| POLE LINE                   | 1C   | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| CONDUIT                     | 4C   | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| <b>DIRECT RESOURCES</b>     |      |                                                                     |           |                      |           |         |          |            |
| LAND                        | 20C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| BUILDING                    | 10C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| BLDG ENTRANCE CABLE         | 12C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 2.40 | \$ 2.40  | \$ 2.3950  |
| INTRABLDG CABLE             | 52C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| AERIAL CABLE (COPPER)       | 22C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.06              | \$ 6.69   | \$ 0.00 | \$ 6.75  | \$ 6.7500  |
| BURIED CABLE (COPPER)       | 45C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.01              | \$ 4.78   | \$ 0.00 | \$ 4.79  | \$ 4.7900  |
| UNDERGROUND (CU) CA.        | 5C   | \$ 0.00                                                             | \$ 0.00   | \$ 0.11              | \$ 0.67   | \$ 0.00 | \$ 0.78  | \$ 0.7800  |
| CO EQPT - LOW CAP TERM      | 257C | \$ 2.88                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 2.88  | \$ 2.8750  |
| CO EQPT - LOW CAP CHAN      | 257C | \$ 7.80                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 7.80  | \$ 7.7980  |
| CO EQPT - HI CAP TERM       | 857C | \$ 0.71                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.71  | \$ 0.7090  |
| CO EQPT - HI CAP CHAN       | 857C | \$ 1.20                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 1.20  | \$ 1.2040  |
| CO EQPT - ANALOG SW         | 77C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| CO EQPT - DIGITAL SW        | 377C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| AERIAL CABLE (FIBER)        | 822C | \$ 0.07                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.07  | \$ 0.0650  |
| BURIED CABLE (FIBER)        | 845C | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| UNDERGROUND (FO) CA.        | 85C  | \$ 0.06                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.06  | \$ 0.0600  |
| CONNECTORS                  | 57C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| MISC. COM EQP & PWR         | 57C  | \$ 0.00                                                             | \$ 0.00   | \$ 0.00              | \$ 0.00   | \$ 0.00 | \$ 0.00  | \$ 0.0000  |
| POLE LINE                   | 1C   | \$ 0.02                                                             | \$ 0.00   | \$ 0.01              | \$ 1.60   | \$ 0.00 | \$ 1.63  | \$ 1.6260  |
| CONDUIT                     | 4C   | \$ 0.03                                                             | \$ 0.00   | \$ 0.04              | \$ 0.23   | \$ 0.00 | \$ 0.30  | \$ 0.2990  |
| SPAN SUMMARY                |      | \$ 14.20                                                            | \$ 0.00   | \$ 0.23              | \$ 13.97  | \$ 2.40 | \$ 30.79 | \$ 30.79   |
|                             |      |                                                                     |           |                      |           |         | \$ 30.79 |            |

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Bellcore (M)

RUN - DIST PLNT

LCAT

LAST UPDATE

27-Jan-97

08:09

## LOOP COST ANALYSIS TOOL

Release: 1.0.4

Issued: 8/31/95

## DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 1400

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

|           |           |           |          |
|-----------|-----------|-----------|----------|
| BASIS     | NETWORK   | TEST CASE | 1        |
| FR / DS   | FLAT RATE | #BANDS    | 0        |
| SVC LEVEL | NARBAND   | #CKTS     | 1        |
| CST METH  | UN INCR   | INV LEVEL | ANN COST |

....your run is finished

PROPRIETARY - NOT FOR USE OR DISCLOSURE OUTSIDE Bellcore WITHOUT LICENSED PERMISSION

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Printed 27-Jan-97 RESTRICTED - NOT FOR USE / DISCLOSURE OUTSIDE CINCINNATI BELL TEL RATES PLAN

C:\123R24\LCAT\CALC\DIST  
DIST\_PLNT - WORKSHEET A  
Sheet 1 of 3

**LOOP COST ANALYSIS TOOL**  
BASIC INVESTMENT WORKSHEET  
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL  
FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC.)  
COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
SERVICE CLASS: BAND 2 - RESIDENCE LINE

Belcore  
LCAT Release: 1.0.4  
Issue Date: 6/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:27

| SEGMENT LENGTH<br>IN FEET<br>[A]                                                                                                                  | TYPE OF<br>CABLE<br>PLANT | FROM<br>TABLE 2 -<br>RELATIVE<br>MIX OF<br>TYPE OF<br>CA. PLANT<br>[B] | LENGTH<br>SUBSET<br>BY TYPE<br>OF PLANT<br>[C=A*B] | FROM<br>TABLE 4 -<br>CABLE<br>INVESTMENT<br>PER<br>PAIR FOOT<br>[D] | CABLE<br>INVESTMENT<br>PER PAIR<br>[E=C*D] | (NOTE 4)<br>WEIGHTED<br>TERMINAL<br>INVESTMENT | AIR DRYER<br>INVESTMENT<br>PER PAIR<br>[F=E*fcdr] | DROP WIRE<br>ADJUSTMENT<br>PER PAIR<br>[F=E*fcdr] | (NOTE 4)<br>WEIGHTED<br>DROP WIRE<br>INVESTMENT |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------|---------------------------------------------------|---------------------------------------------------|-------------------------------------------------|
|                                                                                                                                                   |                           | 2699.0                                                                 | AERIAL                                             | 0.620000                                                            | 1673.4                                     | 0.042600                                       | 71.29                                             |                                                   | 0.00                                            |
| CONSIDERS:<br>MELDED                                                                                                                              | BURIED                    | 0.330000                                                               | 890.7                                              | 0.066800                                                            | 59.50                                      |                                                | 0.00                                              | 0.00                                              |                                                 |
| COPPER<br>CABLE                                                                                                                                   | UNDERGRND                 | 0.050000                                                               | 135.0                                              | 0.058000                                                            | 7.83                                       |                                                | 0.00                                              | 0.00                                              |                                                 |
| Check =                                                                                                                                           |                           | 1.000000                                                               | 2699.0                                             |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |
| <b>OUTSIDE PLANT LOADINGS</b> (NOTE 4)                                                                                                            |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |
| <b>DROP WIRE ADJUSTMENT:</b>                                                                                                                      |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |
| AERIAL CA. =                                                                                                                                      | 0.0000                    | <b>AIR DRYER LOADINGS:</b>                                             |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |
| BURIED CA. =                                                                                                                                      | 0.0000                    | AERIAL CA. =                                                           |                                                    | 0.0000                                                              |                                            |                                                |                                                   |                                                   |                                                 |
| UNDERGRND =                                                                                                                                       | 0.0000                    | BURIED CA. =                                                           |                                                    | 0.0000                                                              |                                            |                                                |                                                   |                                                   |                                                 |
|                                                                                                                                                   |                           | UNDERGRND =                                                            |                                                    | 0.0000                                                              |                                            |                                                |                                                   |                                                   |                                                 |
| <b>OTHER INVESTMENT</b>                                                                                                                           |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |
| POLE LINE FACTOR (PLF) =                                                                                                                          |                           | inv / unit lgth: 0.0000                                                |                                                    | inv rltm fcdr: 0.2530                                               |                                            |                                                |                                                   |                                                   |                                                 |
| POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =                                                                                                |                           | \$ 51.53                                                               |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |
| UG CONDUIT FACTOR (UCF) =                                                                                                                         |                           | 0.0000                                                                 |                                                    | 0.5165                                                              |                                            |                                                |                                                   |                                                   |                                                 |
| CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) =                                                                                                   |                           | \$ 11.55                                                               |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |
| <b>FOOTNOTES</b>                                                                                                                                  |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |
| NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.                                                                                     |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |
| NOTE 2: TABLE 4 & 6 DEVELOPMENT SHOWN ON WORKSHEET A.                                                                                             |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |
| NOTE 3: DESIGN AT THIS DISTANCE HAS NO LOAD COILS; THEREFORE, TERMINAL INVESTMENT IS ZERO                                                         |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |
| NOTE 4: BY FCC MANDATE, THIS INVESTMENT IS INCORPORATED INTO THE APPROPRIATE CABLE ACCOUNT<br>(SEE BUILDING AND TERMINATING INVESTMENT WORKSHEET) |                           |                                                                        |                                                    |                                                                     |                                            |                                                |                                                   |                                                   |                                                 |

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| C:\123R24\LCAT\CALC.DIST<br>DIST_PLNT - WORKSHEET A<br>Sheet 3 of 3            |                                                                     |                                  | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE AND ANNUAL COSTS WORKSHEET<br>SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL<br>FACILITY TYPE: COPPER CABLE<br>CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-CC, CC)<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |                                  |                                         |                                |                                                    |                                 | Bellcore (R)<br>LCAT Release: 1.0.4<br>Issue Date: 6/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>RUN DATE: 27-Jan-97<br>TIME: 08:27 |  |
|--------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--|
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                                                                     |                                  | 1996 UNIT<br>LOOP INVESTMENT<br>BY ACCOUNT                                                                                                                                                                                                                                      |                                  | 1996 UNIT<br>ANNUAL COSTS<br>BY ACCOUNT |                                | 1996 UNIT<br>MONTHLY RECURRING COSTS<br>BY ACCOUNT |                                 |                                                                                                                                    |  |
| PLANT ITEM                                                                     | PLANT<br>ACCT<br>CODE                                               | 1996<br>TO<br>1996<br>TPI<br>[L] | SHARED<br>RESOURCES<br>[M=K*L]                                                                                                                                                                                                                                                  | DIRECT<br>RESOURCES<br>[M'=K'*L] | ANNUAL<br>COST<br>FACTOR<br>[N]         | SHARED<br>RESOURCES<br>[P=M*N] | DIRECT<br>RESOURCES<br>[P'=M'*N]                   | SHARED<br>RESOURCES<br>[R=P/12] | DIRECT<br>RESOURCES<br>[R'=P'/12]                                                                                                  |  |
| 8                                                                              | LAND                                                                | 20C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.2232                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 9                                                                              | BUILDING                                                            | 10C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.2847                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 10                                                                             | BLDG ENTRANCE CABLE                                                 | 12C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3832                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 11                                                                             | INTRABLDG CABLE                                                     | 52C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3832                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 12                                                                             | AERIAL CABLE (COPPER)                                               | 22C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | \$ 204                                  |                                | \$ 80.31                                           |                                 | \$ 6.69                                                                                                                            |  |
| 13                                                                             | BURIED CABLE (COPPER)                                               | 45C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | \$ 170                                  |                                | \$ 57.41                                           |                                 | \$ 4.78                                                                                                                            |  |
| 14                                                                             | UNDERGROUND (CU) CA.                                                | 5C                               | 1.0000                                                                                                                                                                                                                                                                          |                                  | \$ 22                                   |                                | \$ 7.99                                            |                                 | \$ 0.67                                                                                                                            |  |
| 15                                                                             | CO EQPT - P GAIN TERM                                               | 257C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3791                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 16                                                                             | CO EQPT - P GAIN CHAN                                               | 257C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3791                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 17                                                                             | CO EQPT - FO MUX TERM                                               | 857C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3791                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 18                                                                             | CO EQPT - FO MUX CHAN                                               | 857C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3791                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 19                                                                             | CO EQPT - ANALOG SW                                                 | 77C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.0000                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 20                                                                             | CO EQPT - DIGITAL SW                                                | 377C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3368                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 21                                                                             | AERIAL CABLE (FIBER)                                                | 822C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.2893                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 22                                                                             | BURIED CABLE (FIBER)                                                | 845C                             | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.2634                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 23                                                                             | UNDERGROUND (FO) CA.                                                | 85C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.2599                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 24                                                                             | CONNECTORS                                                          | 57C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3791                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 25                                                                             | MISC. COM EQP & PWR                                                 | 57C                              | 1.0000                                                                                                                                                                                                                                                                          |                                  | 0.3791                                  |                                |                                                    |                                 |                                                                                                                                    |  |
| 26                                                                             | POLE LINE                                                           | 1C                               | 1.0000                                                                                                                                                                                                                                                                          |                                  | \$ 52                                   |                                | \$ 19.15                                           |                                 | \$ 1.60                                                                                                                            |  |
| 27                                                                             | CONDUIT                                                             | 4C                               | 1.0000                                                                                                                                                                                                                                                                          |                                  | \$ 12                                   |                                | \$ 2.47                                            |                                 | \$ 0.23                                                                                                                            |  |
| 28                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 29                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 30                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 31                                                                             | TOTALS                                                              |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 32                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 | \$ 0                             | \$ 459                                  | \$ 0.00                        | \$ 167.67                                          | \$ 0.00                         | \$ 13.97                                                                                                                           |  |
| 33                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  | \$ 459                                  |                                | \$ 167.67                                          |                                 | \$ 13.97                                                                                                                           |  |
| 34                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  | distinvsv                               |                                | distinv                                            |                                 | distinvrc                                                                                                                          |  |
| 35                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 36                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 37                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 38                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 39                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 40                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 41                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 42                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 43                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 44                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 45                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 46                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 47                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 48                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 49                                                                             | FOOTNOTES                                                           |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 50                                                                             | NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.       |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 51                                                                             | NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION. |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 52                                                                             | THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.            |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 53                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 54                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |
| 55                                                                             |                                                                     |                                  |                                                                                                                                                                                                                                                                                 |                                  |                                         |                                |                                                    |                                 |                                                                                                                                    |  |

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DIST\_PLNT - WORKSHEET B  
Sheet 1 of 3

**LOOP COST ANALYSIS TOOL**  
BASIC INVESTMENT WORKSHEET

Bellcore (R)

LCAT

Release: 1.0.4

1996

STUDY YR:

TEST CASE:

RUN DATE:

TIME:

27-Jan-97

08:27

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - RESIDENCE LINE

| TYPE OF PLANT<br>ITEM | UNIT<br>PLANT<br>INVEST.<br>[A] | PROB.<br>OF<br>OCCURANCE<br>[B] | WEIGHTED<br>TERMINAL<br>INVESTMENT<br>[C=A*B] |
|-----------------------|---------------------------------|---------------------------------|-----------------------------------------------|
| INTRABLDG CABLE       | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| BLDG ENTRANCE CABLE   | \$ 75.00                        | 1.0000                          | \$ 75.00                                      |
| AERIAL TERMINAL       | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| BURIED TERMINAL       | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| AERIAL DROP WIRE      | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| BURIED DROP WIRE      | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |
| COAXIAL DROP          | \$ 0.00                         | 0.0000                          | \$ 0.00                                       |

POLE LINE FACTOR (PLF) =

from length: 0.0000 from invest.: 0.2530

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00

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## FOOTNOTES

NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.

NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS





C:\123R24\LCAT\CALC\DIST  
DIST\_PLNT - WORKSHEET B  
Sheet 3 of 3

**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Facility Type: COPPER CABLE  
Circuit Segment: SERVICE ACCESS  
Service Class: BAND 2 - RESIDENCE LINE

Release: 1.0.4  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 06:27

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

| PLANT ITEM            | PLANT ACCT CODE | 1996 TO 1996 TPI [L] | 1996 UNIT LOOP INVESTMENT BY ACCOUNT |                            | ANNUAL COST FACTOR [N] | 1996 UNIT ANNUAL COSTS BY ACCOUNT |                            | 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT |                             |
|-----------------------|-----------------|----------------------|--------------------------------------|----------------------------|------------------------|-----------------------------------|----------------------------|----------------------------------------------|-----------------------------|
|                       |                 |                      | SHARED RESOURCES [M=K*L]             | DIRECT RESOURCES [M'=K'*L] |                        | SHARED RESOURCES [P=M*N]          | DIRECT RESOURCES [P'=M'*N] | SHARED RESOURCES [R=P/12]                    | DIRECT RESOURCES [R'=P'/12] |
| LAND                  | 20C             | 1.0000               |                                      |                            | 0.2232                 |                                   |                            |                                              |                             |
| BUILDING              | 10C             | 1.0000               |                                      |                            | 0.2847                 |                                   |                            |                                              |                             |
| BLDG ENTRANCE CABLE   | 12C             | 1.0000               |                                      | \$ 75                      | 0.3832                 |                                   | \$ 28.74                   |                                              | \$ 2.40                     |
| INTRABLDG CABLE       | 52C             | 1.0000               |                                      |                            | 0.3832                 |                                   |                            |                                              |                             |
| AERIAL CABLE (COPPER) | 22C             | 1.0000               |                                      |                            | 0.3943                 |                                   |                            |                                              |                             |
| BURIED CABLE (COPPER) | 45C             | 1.0000               |                                      |                            | 0.3377                 |                                   |                            |                                              |                             |
| UNDERGROUND (CU) CA.  | 5C              | 1.0000               |                                      |                            | 0.3573                 |                                   |                            |                                              |                             |
| CO EQPT - P GAIN TERM | 257C            | 1.0000               |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| CO EQPT - P GAIN CHAN | 257C            | 1.0000               |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| CO EQPT - FO MUX TERM | 857C            | 1.0000               |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| CO EQPT - FO MUX CHAN | 857C            | 1.0000               |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| CO EQPT - ANALOG SW   | 77C             | 1.0000               |                                      |                            | 0.0000                 |                                   |                            |                                              |                             |
| CO EQPT - DIGITAL SW  | 377C            | 1.0000               |                                      |                            | 0.3368                 |                                   |                            |                                              |                             |
| AERIAL CABLE (FIBER)  | 822C            | 1.0000               |                                      |                            | 0.2893                 |                                   |                            |                                              |                             |
| BURIED CABLE (FIBER)  | 845C            | 1.0000               |                                      |                            | 0.2634                 |                                   |                            |                                              |                             |
| UNDERGROUND (FO) CA.  | 85C             | 1.0000               |                                      |                            | 0.2599                 |                                   |                            |                                              |                             |
| CONNECTORS            | 57C             | 1.0000               |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| MISC. COM EQP & PWR   | 57C             | 1.0000               |                                      |                            | 0.3791                 |                                   |                            |                                              |                             |
| POLE LINE             | 1C              | 1.0000               |                                      |                            | 0.3717                 |                                   |                            |                                              |                             |
| CONDUIT               | 4C              | 1.0000               |                                      |                            | 0.2431                 |                                   |                            |                                              |                             |
| TOTALS                |                 |                      | \$ 0                                 | \$ 75                      |                        | \$ 0.00                           | \$ 28.74                   | \$ 0.00                                      | \$ 2.40                     |
|                       |                 |                      |                                      | \$ 75                      |                        |                                   | \$ 28.74                   |                                              | \$ 2.40                     |

FOOTNOTES  
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.  
NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION, THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.

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DIST PLANT - WORKSHEET B  
Sheet 1 of 3

**LOOP COST ANALYSIS TOOL**  
BASIC INVESTMENT WORKSHEET

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - RESIDENCE LINE

Belcore (R)  
LCAT  
Release: 1.0.4  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:27

| TYPE OF PLANT<br>ITEM | UNIT<br>PLANT<br>INVEST.<br>[A] | PROB.<br>OF<br>OCCURRENCE<br>[B] | WEIGHTED<br>TERMINAL<br>INVESTMENT<br>[C=A*B] |
|-----------------------|---------------------------------|----------------------------------|-----------------------------------------------|
| INTRABLDG CABLE       | \$ 0.00                         | 0.0000                           | \$ 0.00                                       |
| BLDG ENTRANCE CABLE   | \$ 75.00                        | 1.0000                           | \$ 75.00                                      |
| AERIAL TERMINAL       | \$ 0.00                         | 0.0000                           | \$ 0.00                                       |
| BURIED TERMINAL       | \$ 0.00                         | 0.0000                           | \$ 0.00                                       |
| AERIAL DROP WIRE      | \$ 0.00                         | 0.0000                           | \$ 0.00                                       |
| BURIED DROP WIRE      | \$ 0.00                         | 0.0000                           | \$ 0.00                                       |
| COAXIAL DROP          | \$ 0.00                         | 0.0000                           | \$ 0.00                                       |

POLE LINE FACTOR (PLF) =  $\frac{\text{from length}}{0.0000} \text{ from invest. } 0.2530$

POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00

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**FOOTNOTES**  
NOTE 1: FOR 4 WIRE SERVICES ONLY, THE ABOVE PLANT INVESTMENTS HAVE BEEN DOUBLED.  
NOTE 2: THIS DATA IS USED IN WORKSHEET E FOR CALCULATION OF PAIR GAIN INVESTMENT AND MONTHLY COSTS

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C:\123R24\LCATCALC.DIST  
DIST PLNT - WORKSHEET B  
Sheet 2 of 3

# LOOP COST ANALYSIS TOOL ACCOUNT INVESTMENT WORKSHEET

Bellcore

LCAT

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 27-Jan-97

TIME: 08:27

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: SERVICE ACCESS  
SERVICE CLASS: BAND 2 - RESIDENCE LINE

G TMD C.

| PLANT ITEM            | PLANT<br>ACCT<br>CODE | CAT.<br>FIXED RESOURCE<br>VARI ALLOCATION | 1996 UNIT<br>INVESTMENT<br>BY ACCOUNT<br>COST<br>EQUATION<br>[F] | CIRCUIT<br>QUANTITY<br>[G] | 1996 UNIT<br>LOOP INVESTMENT<br>EXCL. UTILIZATION |                                 | ADMIN.<br>UTIL.<br>LINE<br>FILL<br>[J] | 1996 UNIT<br>LOOP INVESTMENT<br>INCL. UTILIZATION |                                  |
|-----------------------|-----------------------|-------------------------------------------|------------------------------------------------------------------|----------------------------|---------------------------------------------------|---------------------------------|----------------------------------------|---------------------------------------------------|----------------------------------|
|                       |                       |                                           |                                                                  |                            | SHARED<br>RESOURCES<br>[H=F*G]                    | DIRECT<br>RESOURCES<br>[H'=F*G] |                                        | SHARED<br>RESOURCES<br>[K=H/J]                    | DIRECT<br>RESOURCES<br>[K'=H'/J] |
| LAND                  | 20C                   | F                                         | SHARED                                                           |                            |                                                   |                                 | 1.0000                                 |                                                   |                                  |
| BUILDING              | 10C                   | F                                         | SHARED                                                           |                            |                                                   |                                 | 1.0000                                 |                                                   |                                  |
| BLDG ENTRANCE CABLE   | 12C                   | V                                         | DIRECT                                                           | 75.00                      | 1                                                 | \$ 75                           | 1.0000                                 |                                                   | \$ 75                            |
| INTRABLDG CABLE       | 52C                   | V                                         | DIRECT                                                           | 0.00                       |                                                   |                                 | 0.3500                                 |                                                   |                                  |
| AERIAL CABLE (COPPER) | 22C                   | V                                         | DIRECT                                                           | 0.00                       |                                                   |                                 | 0.3500                                 |                                                   |                                  |
| BURIED CABLE (COPPER) | 45C                   | V                                         | DIRECT                                                           | 0.00                       |                                                   |                                 | 0.3500                                 |                                                   |                                  |
| UNDERGROUND (CU) CA.  | 5C                    | V                                         | DIRECT                                                           |                            |                                                   |                                 | 0.3500                                 |                                                   |                                  |
| CO EQPT - P GAIN TERM | 257C                  | F                                         | DIRECT                                                           |                            |                                                   |                                 | 0.7000                                 |                                                   |                                  |
| CO EQPT - P GAIN CHAN | 257C                  | V                                         | DIRECT                                                           |                            |                                                   |                                 | 0.7000                                 |                                                   |                                  |
| CO EQPT - FO MUX TERM | 857C                  | F                                         | DIRECT                                                           |                            |                                                   |                                 | 1.0000                                 |                                                   |                                  |
| CO EQPT - FO MUX CHAN | 857C                  | F                                         | DIRECT                                                           |                            |                                                   |                                 | 1.0000                                 |                                                   |                                  |
| CO EQPT - ANALOG SW   | 77C                   | V                                         | DIRECT                                                           |                            |                                                   |                                 | 1.0000                                 |                                                   |                                  |
| CO EQPT - DIGITAL SW  | 377C                  | V                                         | DIRECT                                                           |                            |                                                   |                                 | 1.0000                                 |                                                   |                                  |
| AERIAL CABLE (FIBER)  | 822C                  | F                                         | DIRECT                                                           |                            |                                                   |                                 | 0.0000                                 |                                                   |                                  |
| BURIED CABLE (FIBER)  | 845C                  | F                                         | DIRECT                                                           |                            |                                                   |                                 | 0.0000                                 |                                                   |                                  |
| UNDERGROUND (FO) CA.  | 85C                   | F                                         | DIRECT                                                           |                            |                                                   |                                 | 0.0000                                 |                                                   |                                  |
| CONNECTORS            | 57C                   | V                                         | DIRECT                                                           |                            |                                                   |                                 | 1.0000                                 |                                                   |                                  |
| MISC. COM EQP & PWR   | 57C                   | V                                         | SHARED                                                           |                            |                                                   |                                 | 1.0000                                 |                                                   |                                  |
| POLE LINE             | 1C                    | F                                         | DIRECT                                                           | 0.00                       |                                                   |                                 | 1.0000                                 |                                                   |                                  |
| CONDUIT               | 4C                    | F                                         | DIRECT                                                           |                            |                                                   |                                 | 1.0000                                 |                                                   |                                  |

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## FOOTNOTES

NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F(F) AND H(H') ARE CAUSED BY COMPUTER ROUNDING.

NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY.

AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE; BURIED CABLE, ... ETC;

CO EQPT - ESS = CONNECTORS + MISC. CP&amp;E.

| C:\123R24\LCATCADCADIST<br>DIST PLNT - WORKSHEET B<br>Sheet 3 of 3             |                 |                      | LOOP COST ANALYSIS TOOL<br>PROSPECTIVE AND ANNUAL COSTS WORKSHEET                                        |                            |                        |                                   |                            | Bellcore (R)<br>LCAT<br>Release: 1.0.4<br>STUDY YR: 1996<br>TEST CASE: 1<br>RUN DATE: 27-Jan-97<br>TIME: 06:27 |                             |  |
|--------------------------------------------------------------------------------|-----------------|----------------------|----------------------------------------------------------------------------------------------------------|----------------------------|------------------------|-----------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------|--|
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                 |                      | FACILITY TYPE: COPPER CABLE<br>CIRCUIT SEGMENT: SERVICE ACCESS<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |                            |                        |                                   |                            |                                                                                                                |                             |  |
| PLANT ITEM                                                                     | PLANT ACCT CODE | 1996 TO 1996 TPI [L] | 1996 UNIT LOOP INVESTMENT BY ACCOUNT                                                                     |                            | ANNUAL COST FACTOR [N] | 1996 UNIT ANNUAL COSTS BY ACCOUNT |                            | 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT                                                                   |                             |  |
|                                                                                |                 |                      | SHARED RESOURCES [M=K*L]                                                                                 | DIRECT RESOURCES [M'=K'*L] |                        | SHARED RESOURCES [P=M*N]          | DIRECT RESOURCES [P'=M'*N] | SHARED RESOURCES [R=P/12]                                                                                      | DIRECT RESOURCES [R'=P'/12] |  |
| LAND                                                                           | 20C             | 1.0000               |                                                                                                          |                            | 0.2232                 |                                   |                            |                                                                                                                |                             |  |
| BUILDING                                                                       | 10C             | 1.0000               |                                                                                                          |                            | 0.2847                 |                                   |                            |                                                                                                                |                             |  |
| BLDG ENTRANCE CABLE                                                            | 12C             | 1.0000               |                                                                                                          | \$ 75                      | 0.3832                 |                                   | \$ 28.74                   |                                                                                                                | \$ 2.40                     |  |
| INTRABLDG CABLE                                                                | 52C             | 1.0000               |                                                                                                          | -                          | 0.3832                 |                                   |                            |                                                                                                                |                             |  |
| AERIAL CABLE (COPPER)                                                          | 22C             | 1.0000               |                                                                                                          |                            | 0.3943                 |                                   |                            |                                                                                                                |                             |  |
| BURIED CABLE (COPPER)                                                          | 45C             | 1.0000               |                                                                                                          |                            | 0.3377                 |                                   |                            |                                                                                                                |                             |  |
| UNDERGROUND (CU) CA.                                                           | 5C              | 1.0000               |                                                                                                          |                            | 0.3573                 |                                   |                            |                                                                                                                |                             |  |
| CO EQPT - P GAIN TERM                                                          | 257C            | 1.0000               |                                                                                                          |                            | 0.3791                 |                                   |                            |                                                                                                                |                             |  |
| CO EQPT - P GAIN CHAN                                                          | 257C            | 1.0000               |                                                                                                          |                            | 0.3791                 |                                   |                            |                                                                                                                |                             |  |
| CO EQPT - FO MUX TERM                                                          | 857C            | 1.0000               |                                                                                                          |                            | 0.3791                 |                                   |                            |                                                                                                                |                             |  |
| CO EQPT - FO MUX CHAN                                                          | 857C            | 1.0000               |                                                                                                          |                            | 0.3791                 |                                   |                            |                                                                                                                |                             |  |
| CO EQPT - ANALOG SW                                                            | 77C             | 1.0000               |                                                                                                          |                            | 0.0000                 |                                   |                            |                                                                                                                |                             |  |
| CO EQPT - DIGITAL SW                                                           | 377C            | 1.0000               |                                                                                                          |                            | 0.3368                 |                                   |                            |                                                                                                                |                             |  |
| AERIAL CABLE (FIBER)                                                           | 822C            | 1.0000               |                                                                                                          |                            | 0.2893                 |                                   |                            |                                                                                                                |                             |  |
| BURIED CABLE (FIBER)                                                           | 845C            | 1.0000               |                                                                                                          |                            | 0.2634                 |                                   |                            |                                                                                                                |                             |  |
| UNDERGROUND (FO) CA.                                                           | 85C             | 1.0000               |                                                                                                          |                            | 0.2599                 |                                   |                            |                                                                                                                |                             |  |
| CONNECTORS                                                                     | 57C             | 1.0000               |                                                                                                          |                            | 0.3791                 |                                   |                            |                                                                                                                |                             |  |
| MISC. COM EQP & PWR                                                            | 57C             | 1.0000               |                                                                                                          |                            | 0.3791                 |                                   |                            |                                                                                                                |                             |  |
| POLE LINE                                                                      | 1C              | 1.0000               |                                                                                                          |                            | 0.3717                 |                                   |                            |                                                                                                                |                             |  |
| CONDUIT                                                                        | 4C              | 1.0000               |                                                                                                          |                            | 0.2431                 |                                   |                            |                                                                                                                |                             |  |
| TOTALS                                                                         |                 |                      | betshrinv betdirinv                                                                                      |                            | betshrinv betdirinv    |                                   | betshrinv betdirinv        |                                                                                                                | betshrinv betdirinv         |  |
|                                                                                |                 |                      | \$ 0 \$ 75                                                                                               |                            | \$ 0.00 \$ 28.74       |                                   | \$ 0.00 \$ 2.40            |                                                                                                                |                             |  |
|                                                                                |                 |                      | \$ 75                                                                                                    |                            | \$ 28.74               |                                   | \$ 2.40                    |                                                                                                                |                             |  |
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**FOOTNOTES**  
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| C:\123R24\LCAT\CALC\DIST                         |                       |      |         | LOOP COST ANALYSIS TOOL                                   |         |         |         | Bellcore (R)         |          |
|--------------------------------------------------|-----------------------|------|---------|-----------------------------------------------------------|---------|---------|---------|----------------------|----------|
| DIST_PLNT - REPORT 14A                           |                       |      |         | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                  |         |         |         | LCAT Release : 1.0.4 |          |
| Sheet 1 of 3                                     |                       |      |         | COMPANY: CINCINNATI BELL TEL                              |         |         |         | Issue Date : 8/31/95 |          |
| CITY / AREA: CINCINNATI                          |                       |      |         | FACILITY TYPE : COPPER CABLE                              |         |         |         | STUDY YR: 1996       |          |
| STATE / PROV : OHIO                              |                       |      |         | CIRCUIT SEGMENT : DISTRIBUTION PLANT (NON-SEC-NON-COLLOC) |         |         |         | TEST CASE: 1         |          |
|                                                  |                       |      |         | SERVICE CLASS: BAND 2 - RESIDENCE LINE                    |         |         |         | RUN DATE: 27-Jan-97  |          |
|                                                  |                       |      |         |                                                           |         |         |         | TIME: 08:27          |          |
| logic-14a                                        |                       |      |         | 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT               |         |         |         | (See Note)           |          |
| BAND MIX                                         |                       |      |         | 0                                                         |         |         |         | TOTAL                |          |
| ACCT                                             |                       |      |         | 1.0000                                                    |         |         |         | AVG. WEIGHTED        |          |
| CODE                                             |                       |      |         | 22282                                                     |         |         |         | INVESTMENT           |          |
| LGTH.                                            |                       |      |         | 2699.0                                                    |         |         |         | 2699                 |          |
| SEG. LGTH.                                       |                       |      |         |                                                           |         |         |         |                      |          |
| <b>SHARED RESOURCES</b>                          |                       |      |         |                                                           |         |         |         |                      |          |
| 7                                                | LAND                  | 20C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 8                                                | BUILDING              | 10C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 9                                                | BLDG ENTRANCE CABLE   | 12C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 10                                               | INTRABLDG CABLE       | 52C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 11                                               | AERIAL CABLE (COPPER) | 22C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 12                                               | BURIED CABLE (COPPER) | 45C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 13                                               | UNDERGROUND (CU) CA.  | 5C   |         |                                                           |         |         |         |                      | \$ 0.00  |
| 14                                               | CO EQPT - P GAIN TERM | 257C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 15                                               | CO EQPT - P GAIN CHAN | 257C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 16                                               | CO EQPT - FO MUX TERM | 857C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 17                                               | CO EQPT - FO MUX CHAN | 857C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 18                                               | CO EQPT - ANALOG SW   | 77C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 19                                               | CO EQPT - DIGITAL SW  | 377C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 20                                               | AERIAL CABLE (FIBER)  | 822C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 21                                               | BURIED CABLE (FIBER)  | 845C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 22                                               | UNDERGROUND (FO) CA.  | 85C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 23                                               | CONNECTORS            | 57C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 24                                               | MISC. COM EQP & PWR   | 57C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 25                                               | POLE LINE             | 1C   |         |                                                           |         |         |         |                      | \$ 0.00  |
| 26                                               | CONDUIT               | 4C   |         |                                                           |         |         |         |                      | \$ 0.00  |
| <b>DIRECT RESOURCES</b>                          |                       |      |         |                                                           |         |         |         |                      |          |
| 29                                               | LAND                  | 20C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 30                                               | BUILDING              | 10C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 31                                               | BLDG ENTRANCE CABLE   | 12C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 32                                               | INTRABLDG CABLE       | 52C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 33                                               | AERIAL CABLE (COPPER) | 22C  | \$ 8.89 |                                                           |         |         |         |                      | \$ 8.89  |
| 34                                               | BURIED CABLE (COPPER) | 45C  | \$ 4.78 |                                                           |         |         |         |                      | \$ 4.78  |
| 35                                               | UNDERGROUND (CU) CA.  | 5C   | \$ 0.67 |                                                           |         |         |         |                      | \$ 0.67  |
| 36                                               | CO EQPT - P GAIN TERM | 257C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 37                                               | CO EQPT - P GAIN CHAN | 257C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 38                                               | CO EQPT - FO MUX TERM | 857C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 39                                               | CO EQPT - FO MUX CHAN | 857C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 40                                               | CO EQPT - ANALOG SW   | 77C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 41                                               | CO EQPT - DIGITAL SW  | 377C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 42                                               | AERIAL CABLE (FIBER)  | 822C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 43                                               | BURIED CABLE (FIBER)  | 845C |         |                                                           |         |         |         |                      | \$ 0.00  |
| 44                                               | UNDERGROUND (FO) CA.  | 85C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 45                                               | CONNECTORS            | 57C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 46                                               | MISC. COM EQP & PWR   | 57C  |         |                                                           |         |         |         |                      | \$ 0.00  |
| 47                                               | POLE LINE             | 1C   | \$ 1.60 |                                                           |         |         |         |                      | \$ 1.60  |
| 48                                               | CONDUIT               | 4C   | \$ 0.23 |                                                           |         |         |         |                      | \$ 0.23  |
| SPAN SUMMARY                                     |                       |      |         | \$ 13.97                                                  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00              | \$ 0.00  |
| AVG. WTD. SPAN SUMMARY                           |                       |      |         | \$ 13.97                                                  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00              | \$ 0.00  |
| NOTE: [sum(INV <sub>ACCT</sub> BAND * MIX BAND)] |                       |      |         |                                                           |         |         |         |                      | \$ 13.97 |

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| C:\123R24\LCATCALC\DIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                     | LOOP COST ANALYSIS TOOL                  |  | Bellcore (R) |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
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| DIST PLNT - REPORT 14B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                     | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY |  |              | LCAT                |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| Sheet 1 of 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                     | COMPANY: CINCINNATI BELL TEL             |  |              | Release: 1.0.4      |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
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| 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| AL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| <table><thead><tr><th>PLANT ITEM</th><th>PLANT ACCT CODE</th><th>BAND MIX AVG. LGTH.</th></tr></thead><tbody><tr><td colspan="3"><b>SHARED RESOURCES</b></td></tr><tr><td>LAND</td><td>20C</td><td></td></tr><tr><td>BUILDING</td><td>10C</td><td></td></tr><tr><td>BLDG ENTRANCE CABLE</td><td>12C</td><td></td></tr><tr><td>INTRABLDG CABLE</td><td>52C</td><td></td></tr><tr><td>AERIAL CABLE (COPPER)</td><td>22C</td><td></td></tr><tr><td>BURIED CABLE (COPPER)</td><td>45C</td><td></td></tr><tr><td>UNDERGROUND (CU) CA.</td><td>5C</td><td></td></tr><tr><td>CO EQPT - P GAIN TERM</td><td>257C</td><td></td></tr><tr><td>CO EQPT - P GAIN CHAN</td><td>257C</td><td></td></tr><tr><td>CO EQPT - FO MUX TERM</td><td>857C</td><td></td></tr><tr><td>CO EQPT - FO MUX CHAN</td><td>857C</td><td></td></tr><tr><td>CO EQPT - ANALOG SW</td><td>77C</td><td></td></tr><tr><td>CO EQPT - DIGITAL SW</td><td>377C</td><td></td></tr><tr><td>AERIAL CABLE (FIBER)</td><td>822C</td><td></td></tr><tr><td>BURIED CABLE (FIBER)</td><td>845C</td><td></td></tr><tr><td>UNDERGROUND (FO) CA.</td><td>85C</td><td></td></tr><tr><td>CONNECTORS</td><td>57C</td><td></td></tr><tr><td>MISC. COM EQP &amp; PWR</td><td>57C</td><td></td></tr><tr><td>POLE LINE</td><td>1C</td><td></td></tr><tr><td>CONDUIT</td><td>4C</td><td></td></tr><tr><td colspan="3"><b>DIRECT RESOURCES</b></td></tr><tr><td>LAND</td><td>20C</td><td></td></tr><tr><td>BUILDING</td><td>10C</td><td></td></tr><tr><td>BLDG ENTRANCE CABLE</td><td>12C</td><td>2.40</td></tr><tr><td>INTRABLDG CABLE</td><td>52C</td><td></td></tr><tr><td>AERIAL CABLE (COPPER)</td><td>22C</td><td></td></tr><tr><td>BURIED CABLE (COPPER)</td><td>45C</td><td></td></tr><tr><td>UNDERGROUND (CU) CA.</td><td>5C</td><td></td></tr><tr><td>CO EQPT - P GAIN TERM</td><td>257C</td><td></td></tr><tr><td>CO EQPT - P GAIN CHAN</td><td>257C</td><td></td></tr><tr><td>CO EQPT - FO MUX TERM</td><td>857C</td><td></td></tr><tr><td>CO EQPT - FO MUX CHAN</td><td>857C</td><td></td></tr><tr><td>CO EQPT - ANALOG SW</td><td>77C</td><td></td></tr><tr><td>CO EQPT - DIGITAL SW</td><td>377C</td><td></td></tr><tr><td>AERIAL CABLE (FIBER)</td><td>822C</td><td></td></tr><tr><td>BURIED CABLE (FIBER)</td><td>845C</td><td></td></tr><tr><td>UNDERGROUND (FO) CA.</td><td>85C</td><td></td></tr><tr><td>CONNECTORS</td><td>57C</td><td></td></tr><tr><td>MISC. COM EQP &amp; PWR</td><td>57C</td><td></td></tr><tr><td>POLE LINE</td><td>1C</td><td></td></tr><tr><td>CONDUIT</td><td>4C</td><td></td></tr><tr><td colspan="2">SPAN TOTAL</td><td>\$ 2.40</td></tr></tbody></table> |                 |                     |                                          |  |              |                     | PLANT ITEM | PLANT ACCT CODE | BAND MIX AVG. LGTH. | <b>SHARED RESOURCES</b> |  |  | LAND | 20C |  | BUILDING | 10C |  | BLDG ENTRANCE CABLE | 12C |  | INTRABLDG CABLE | 52C |  | AERIAL CABLE (COPPER) | 22C |  | BURIED CABLE (COPPER) | 45C |  | UNDERGROUND (CU) CA. | 5C |  | CO EQPT - P GAIN TERM | 257C |  | CO EQPT - P GAIN CHAN | 257C |  | CO EQPT - FO MUX TERM | 857C |  | CO EQPT - FO MUX CHAN | 857C |  | CO EQPT - ANALOG SW | 77C |  | CO EQPT - DIGITAL SW | 377C |  | AERIAL CABLE (FIBER) | 822C |  | BURIED CABLE (FIBER) | 845C |  | UNDERGROUND (FO) CA. | 85C |  | CONNECTORS | 57C |  | MISC. COM EQP & PWR | 57C |  | POLE LINE | 1C |  | CONDUIT | 4C |  | <b>DIRECT RESOURCES</b> |  |  | LAND | 20C |  | BUILDING | 10C |  | BLDG ENTRANCE CABLE | 12C | 2.40 | INTRABLDG CABLE | 52C |  | AERIAL CABLE (COPPER) | 22C |  | BURIED CABLE (COPPER) | 45C |  | UNDERGROUND (CU) CA. | 5C |  | CO EQPT - P GAIN TERM | 257C |  | CO EQPT - P GAIN CHAN | 257C |  | CO EQPT - FO MUX TERM | 857C |  | CO EQPT - FO MUX CHAN | 857C |  | CO EQPT - ANALOG SW | 77C |  | CO EQPT - DIGITAL SW | 377C |  | AERIAL CABLE (FIBER) | 822C |  | BURIED CABLE (FIBER) | 845C |  | UNDERGROUND (FO) CA. | 85C |  | CONNECTORS | 57C |  | MISC. COM EQP & PWR | 57C |  | POLE LINE | 1C |  | CONDUIT | 4C |  | SPAN TOTAL |  | \$ 2.40 |
| PLANT ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PLANT ACCT CODE | BAND MIX AVG. LGTH. |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| <b>SHARED RESOURCES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| LAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| BUILDING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| BLDG ENTRANCE CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| INTRABLDG CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 52C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| AERIAL CABLE (COPPER)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| BURIED CABLE (COPPER)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 45C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| UNDERGROUND (CU) CA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5C              |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - P GAIN TERM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 257C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - P GAIN CHAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 257C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - FO MUX TERM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 857C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - FO MUX CHAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 857C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - ANALOG SW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 77C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - DIGITAL SW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 377C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| AERIAL CABLE (FIBER)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 822C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| BURIED CABLE (FIBER)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 845C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| UNDERGROUND (FO) CA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 85C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CONNECTORS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 57C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| MISC. COM EQP & PWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 57C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| POLE LINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1C              |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CONDUIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4C              |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| <b>DIRECT RESOURCES</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| LAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| BUILDING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| BLDG ENTRANCE CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12C             | 2.40                |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| INTRABLDG CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 52C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| AERIAL CABLE (COPPER)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| BURIED CABLE (COPPER)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 45C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| UNDERGROUND (CU) CA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5C              |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - P GAIN TERM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 257C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - P GAIN CHAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 257C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - FO MUX TERM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 857C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - FO MUX CHAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 857C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - ANALOG SW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 77C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CO EQPT - DIGITAL SW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 377C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| AERIAL CABLE (FIBER)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 822C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| BURIED CABLE (FIBER)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 845C            |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| UNDERGROUND (FO) CA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 85C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CONNECTORS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 57C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| MISC. COM EQP & PWR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 57C             |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| POLE LINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1C              |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| CONDUIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4C              |                     |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |
| SPAN TOTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | \$ 2.40             |                                          |  |              |                     |            |                 |                     |                         |  |  |      |     |  |          |     |  |                     |     |  |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |                         |  |  |      |     |  |          |     |  |                     |     |      |                 |     |  |                       |     |  |                       |     |  |                      |    |  |                       |      |  |                       |      |  |                       |      |  |                       |      |  |                     |     |  |                      |      |  |                      |      |  |                      |      |  |                      |     |  |            |     |  |                     |     |  |           |    |  |         |    |  |            |  |         |

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C:\123R24\LCAT\CALC\CUTECH

RUN - SUB PRI

LAST UPDATE

27-Jan-97

08:10

**LOOP COST ANALYSIS TOOL****Belcore**<sup>TM</sup>

LCAT

Release: 1.0.4

Issued: 7/31/95

**FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY**

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 14001

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

|           |           |           |          |
|-----------|-----------|-----------|----------|
| BASIS     | NETWORK   | TEST CASE | 1        |
| FR / DS   | FLAT RATE | #BANDS    | 0        |
| SVC LEVEL | NARBAND   | #CKTS     | 1        |
| CST METH  | UN INCR   | INV LEVEL | ANN COST |

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| CA123R24\LCATCALC\CUTECH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     | LOOP COST ANALYSIS TOOL                                |                                |                                                         |                           |                                         |                               | Bellcore®                                |                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------|--------------------------------|---------------------------------------------------------|---------------------------|-----------------------------------------|-------------------------------|------------------------------------------|---------------------------------------------------|
| SUB_PRI - WORKSHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     | BASIC INVESTMENT WORKSHEET                             |                                |                                                         |                           |                                         |                               | LCAT Release: 1.0.4                      |                                                   |
| Sheet 1 of 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     | CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS |                                |                                                         |                           |                                         |                               | Issue Date: 7/31/95                      |                                                   |
| COMPANY: CINCINNATI BELL TEL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     | FACILITY TYPE: COPPER CABLE                            |                                |                                                         |                           |                                         |                               | STUDY YR: 1996                           |                                                   |
| CITY / AREA: CINCINNATI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     | CIRCUIT SEGMENT: MILD GAUGE/S/ SUB - PRIMARY           |                                |                                                         |                           |                                         |                               | TEST CASE: 1                             |                                                   |
| STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     | SERVICE CLASS: BAND 2 - RESIDENCE LINE                 |                                |                                                         |                           |                                         |                               | RUN DATE: 27-Jan-97                      |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                     |                                                        |                                |                                                         |                           |                                         |                               | TIME: 08:29                              |                                                   |
| SEGMENT LENGTH IN FEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TYPE OF CABLE PLANT | FROM TABLE 2<br>RELATIVE MIX OF TYPE OF CA. PLANT      | LENGTH SUBSET BY TYPE OF PLANT | FROM TABLE 4<br>MILD CABLE DESIGN INVEST. PER PAIR FOOT | CABLE INVESTMENT PER PAIR | WEIGHTED TERMINAL INVESTMENT [UI * DTC] | AIR DRYER INVESTMENT PER PAIR | DROP WIRE ADJUSTMENT PER PAIR [E * fctr] | WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI * DTC] |
| [A]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     | [B]                                                    | [C = A * B]                    | [D]                                                     | [E = C * D]               | [UI * DTC]                              |                               |                                          |                                                   |
| 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AERIAL              | 0.290000                                               | 87.00                          | 0.011900                                                | 1.04                      |                                         | 0.00                          | 0.00                                     |                                                   |
| MELDED GAUGE/S/ COPPER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BURIED              | 0.020000                                               | 6.00                           | 0.020500                                                | 0.12                      |                                         | 0.00                          | 0.00                                     |                                                   |
| CABLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | UNDERGRND           | 0.690000                                               | 207.00                         | 0.011000                                                | 2.28                      |                                         | 0.00                          | 0.00                                     |                                                   |
| CHECK =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                     | 1.000000                                               |                                |                                                         |                           |                                         |                               |                                          |                                                   |
| <p>23 ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS</p> <p>24 INVESTMENT PER CIRCUIT TERMINATION</p> <p>25 (CO CONN) CONNECTORS (coi77c) = \$ 0.00</p> <p>26 inv / unit lctn: inv rtn fctr: 0.000000 0.253000</p> <p>27 POLE LINE FACTOR = 0.000000</p> <p>28 POLE LINE INVESTMENT = \$ 0.44</p> <p>29 (UTIL AERIAL INVEST x PL)</p> <p>30</p> <p>31 UG CONDUIT FACTOR = 0.000000 0.518500</p> <p>32 CONDUIT INVESTMENT = \$ 1.96</p> <p>33 (UTIL UNDGRND INVEST x UC)</p> <p>34</p> <p>35</p> <p>36</p> <p>37</p> <p>38</p> <p>39</p> <p>40</p> <p>41</p> <p>42</p> <p>43</p> <p>44</p> <p>45</p> <p>46</p> <p>47 FOOTNOTES</p> <p>48 NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING.</p> <p>49 NOTE 2: E * fctr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB)</p> <p>50 NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE.</p> <p>51 NOTE 4: MATRIX 2 &amp; 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6).</p> <p>52</p> <p>53</p> <p>54</p> <p>55</p> |                     |                                                        |                                |                                                         |                           |                                         |                               |                                          |                                                   |

MISC. COMMON EQPT. & POWER FACTOR = 0.112700  
 MCE&P INVESTMENT (CO CONN x FACTOR) = \$ 0.00  
 LAND FACTOR = 0.000000  
 LAND NVST (CO CONN + MCE&P) x FACTOR = \$ 0.00  
 BUILDING FACTOR = 0.13160  
 BLDG NVST (CO CONN + MCEP) x FACTOR = \$ 0.00  
 PERCENT OF CO CONN AT DIGITAL SWITCHES 100.0000  
 PERCENT OF CO CONN AT ANALOG SWITCHES 0.0000

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| LOOP COST ANALYSIS TOOL                                |                 |                 |                       |                                                   |                      |                                                                      |                           |                            |                                                                      | Bellcore (R)               |  |
|--------------------------------------------------------|-----------------|-----------------|-----------------------|---------------------------------------------------|----------------------|----------------------------------------------------------------------|---------------------------|----------------------------|----------------------------------------------------------------------|----------------------------|--|
| ACCOUNT INVESTMENT WORKSHEET                           |                 |                 |                       |                                                   |                      |                                                                      |                           |                            |                                                                      | LCAT Release: 1.0.4        |  |
| CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS |                 |                 |                       |                                                   |                      |                                                                      |                           |                            |                                                                      | Issue Date: 7/31/95        |  |
| FACILITY TYPE: COPPER CABLE                            |                 |                 |                       |                                                   |                      |                                                                      |                           |                            |                                                                      | STUDY YR: 1995             |  |
| CIRCUIT SEGMENT: WELDED GAUGE/S/ SUB-PRIMARY           |                 |                 |                       |                                                   |                      |                                                                      |                           |                            |                                                                      | TEST CASE: 1               |  |
| SERVICE CLASS: BAND 2 - RESIDENCE LINE                 |                 |                 |                       |                                                   |                      |                                                                      |                           |                            |                                                                      | RUN DATE: 27-Jan-97        |  |
|                                                        |                 |                 |                       |                                                   |                      |                                                                      |                           |                            |                                                                      | TIME: 08:28                |  |
| PLANT ITEM                                             | PLANT ACCT CODE | FIXED VARI CAT. | RESOURCE ALLOCATION T | 1995 UNIT INVESTMENT BY ACCOUNT COST EQUATION [F] | CIRCUIT QUANTITY [G] | 1995 UNIT LOOP INVESTMENT EXCL. UTILIZATION SHARED RESOURCES [H=F*G] | DIRECT RESOURCES [H'=F*G] | ADMIN. UTIL. LINE FILL [J] | 1995 UNIT LOOP INVESTMENT INCL. UTILIZATION SHARED RESOURCES [K=H/J] | DIRECT RESOURCES [K'=H'/J] |  |
| LAND                                                   | 20C             | F               | SHARED                | 0.00                                              |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| BUILDING                                               | 10C             | F               | SHARED                | 0.00                                              |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| BLDG ENTRANCE CABLE                                    | 12C             | V               | DIRECT                |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| INTRABLDG CABLE                                        | 52C             | V               | DIRECT                |                                                   |                      |                                                                      |                           | 0.3500                     |                                                                      |                            |  |
| AERIAL CABLE (COPPER)                                  | 22C             | V               | DIRECT                | 1.04                                              | 1                    |                                                                      |                           | \$ 1 0.6000                |                                                                      | \$ 2                       |  |
| BURIED CABLE (COPPER)                                  | 45C             | V               | DIRECT                | 0.12                                              | 1                    |                                                                      |                           | \$ 0 0.6000                |                                                                      | \$ 0                       |  |
| UNDERGROUND (CU) CA.                                   | 5C              | V               | DIRECT                | 2.28                                              | 1                    |                                                                      |                           | \$ 2 0.6000                |                                                                      | \$ 4                       |  |
| CO EQPT - LOW CAP TERM                                 | 257C            | F               | DIRECT                |                                                   |                      |                                                                      |                           | 0.7000                     |                                                                      |                            |  |
| CO EQPT - LOW CAP CHAN                                 | 257C            | V               | DIRECT                |                                                   |                      |                                                                      |                           | 0.7000                     |                                                                      |                            |  |
| CO EQPT - HI CAP TERM                                  | 857C            | F               | DIRECT                |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| CO EQPT - HI CAP CHAN                                  | 857C            | F               | DIRECT                |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| CO EQPT - ANALOG SW                                    | 77C             | V               | DIRECT                | 0.00                                              |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| CO EQPT - DIGITAL SW                                   | 377C            | V               | DIRECT                | 0.00                                              |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| AERIAL CABLE (FIBER)                                   | 822C            | F               | DIRECT                |                                                   |                      |                                                                      |                           | 0.3300                     |                                                                      |                            |  |
| BURIED CABLE (FIBER)                                   | 845C            | F               | DIRECT                |                                                   |                      |                                                                      |                           | 0.3300                     |                                                                      |                            |  |
| UNDERGROUND (FO) CA.                                   | 85C             | F               | DIRECT                |                                                   |                      |                                                                      |                           | 0.3300                     |                                                                      |                            |  |
| CONNECTORS                                             | 57C             | V               | DIRECT                |                                                   |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| MISC. COM EQP & PWR                                    | 57C             | V               | SHARED                | 0.00                                              |                      |                                                                      |                           | 1.0000                     |                                                                      |                            |  |
| POLE LINE                                              | 1C              | F               | DIRECT                | 0.44                                              | 1                    |                                                                      |                           | \$ 0 1.0000                |                                                                      | \$ 0                       |  |
| CONDUIT                                                | 4C              | F               | DIRECT                | 1.96                                              | 1                    |                                                                      |                           | \$ 2 1.0000                |                                                                      | \$ 2                       |  |
| TOTALS                                                 |                 |                 |                       |                                                   |                      |                                                                      |                           |                            |                                                                      |                            |  |

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FOOTNOTES  
NOTE 1: APPARENT INCONSISTENCIES BETWEEN COLUMNS F AND H (H') ARE CAUSED BY COMPUTER ROUNDING.  
NOTE 2: COLUMN F IS AN ACCOUNT SUMMARY OF CABLE COMPONENTS:  
AERIAL CABLE + TERM INV + AIR DRYER + DROP WIRE ADJ; BURIED CABLE, ... ETC;  
CO EQPT - ESS = CONNECTORS + MISC. CP&E.

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C:\123R24\LCAT\CALC\CUTECH  
SUB\_PRI - WORKSHEET  
Sheet 1 of 3

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO

**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE AND ANNUAL COSTS WORKSHEET  
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS  
FACILITY TYPE: COPPER CABLE  
CIRCUIT SEGMENT: WELDED GAUGE/S/ SUB-PRIMARY

**Bellcore**<sup>®</sup>  
LCAT Release: 1.0.4  
Issue Date: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 06:26

SERVICE CLASS: BAND 2 - RESIDENCE LINE

| PLANT ITEM                                                             | PLANT ACCT CODE | 1996 TO 1996 TPI [L] | 1996 UNIT LOOP INVESTMENTS BY ACCOUNT |                            | ANNUAL COST FACTOR [N] | 1996 UNIT ANNUAL COSTS BY ACCOUNT |                            | 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT |                             |
|------------------------------------------------------------------------|-----------------|----------------------|---------------------------------------|----------------------------|------------------------|-----------------------------------|----------------------------|----------------------------------------------|-----------------------------|
|                                                                        |                 |                      | SHARED RESOURCES [M=K*L]              | DIRECT RESOURCES [M'=K'*L] |                        | SHARED RESOURCES [P=M*N]          | DIRECT RESOURCES [P'=M'*N] | SHARED RESOURCES [R=P/12]                    | DIRECT RESOURCES [R'=P'/12] |
| 8 LAND                                                                 | 20C             | 1.0000               |                                       |                            | 0.2232                 |                                   |                            |                                              |                             |
| 9 BUILDING                                                             | 10C             | 1.0000               |                                       |                            | 0.2847                 |                                   |                            |                                              |                             |
| 10 BLDG ENTRANCE CABLE                                                 | 12C             | 1.0000               |                                       |                            | 0.3832                 |                                   |                            |                                              |                             |
| 11 INTRABLDG CABLE                                                     | 52C             | 1.0000               |                                       |                            | 0.3832                 |                                   |                            |                                              |                             |
| 12 AERIAL CABLE (COPPER)                                               | 22C             | 1.0000               |                                       | \$ 2                       | 0.3943                 |                                   | \$ 0.68                    |                                              | \$ 0.06                     |
| 13 BURIED CABLE (COPPER)                                               | 45C             | 1.0000               |                                       | \$ 0                       | 0.3377                 |                                   | \$ 0.07                    |                                              | \$ 0.01                     |
| 14 UNDERGROUND (CU) CA.                                                | 5C              | 1.0000               |                                       | \$ 4                       | 0.3573                 |                                   | \$ 1.36                    |                                              | \$ 0.11                     |
| 15 CO EQPT - LOW CAP TERM                                              | 257C            | 1.0000               |                                       |                            | 0.3791                 |                                   |                            |                                              |                             |
| 16 CO EQPT - LOW CAP CHAN                                              | 257C            | 1.0000               |                                       |                            | 0.3791                 |                                   |                            |                                              |                             |
| 17 CO EQPT - HI CAP TERM                                               | 857C            | 1.0000               |                                       |                            | 0.3791                 |                                   |                            |                                              |                             |
| 18 CO EQPT - HI CAP CHAN                                               | 857C            | 1.0000               |                                       |                            | 0.3791                 |                                   |                            |                                              |                             |
| 19 CO EQPT - ANALOG SW                                                 | 77C             | 1.0000               |                                       |                            | 0.0000                 |                                   |                            |                                              |                             |
| 20 CO EQPT - DIGITAL SW                                                | 377C            | 1.0000               |                                       |                            | 0.3368                 |                                   |                            |                                              |                             |
| 21 AERIAL CABLE (FIBER)                                                | 822C            | 1.0000               |                                       |                            | 0.2893                 |                                   |                            |                                              |                             |
| 22 BURIED CABLE (FIBER)                                                | 845C            | 1.0000               |                                       |                            | 0.2634                 |                                   |                            |                                              |                             |
| 23 UNDERGROUND (FO) CA.                                                | 85C             | 1.0000               |                                       |                            | 0.2599                 |                                   |                            |                                              |                             |
| 24 CONNECTORS                                                          | 57C             | 1.0000               |                                       |                            | 0.3791                 |                                   |                            |                                              |                             |
| 25 MISC. COM EQP & PWR                                                 | 57C             | 1.0000               |                                       |                            | 0.3791                 |                                   |                            |                                              |                             |
| 26 POLE LINE                                                           | 1C              | 1.0000               |                                       | \$ 0                       | 0.3717                 |                                   |                            |                                              | \$ 0.01                     |
| 27 CONDUIT                                                             | 4C              | 1.0000               |                                       | \$ 2                       | 0.2431                 |                                   |                            |                                              | \$ 0.04                     |
| 28                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 29 SUBTOTALS                                                           |                 |                      | \$ 0                                  | \$ 8                       |                        | \$ 0.00                           | \$ 2.50                    | \$ 0.00                                      | \$ 0.22                     |
| 30                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 31 TOTALS                                                              |                 |                      |                                       | \$ 8                       |                        |                                   | \$ 2.50                    |                                              | \$ 0.22                     |
| 32                                                                     |                 |                      |                                       | culpinvsy                  |                        |                                   | culpinrc                   |                                              |                             |
| 33                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 34                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 35                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 36                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 37                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 38                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 39                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 40                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 41                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 42                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 43                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 44                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 45                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 46                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 47 FOOTNOTES                                                           |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 48 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.       |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 49 NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION, |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 50 THUS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.            |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 51                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 52                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 53                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 54                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |
| 55                                                                     |                 |                      |                                       |                            |                        |                                   |                            |                                              |                             |

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| C:\123R24\LCATC\LCATC\OUTECH                |                                                                         | LOOP COST ANALYSIS TOOL                  |       |                                        |         | Belcore®             |         |
|---------------------------------------------|-------------------------------------------------------------------------|------------------------------------------|-------|----------------------------------------|---------|----------------------|---------|
| SUB_PRI - REPORT 14                         |                                                                         | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY |       |                                        |         | LCAT Release : 1.0.4 |         |
| Sheet 1 of 1                                |                                                                         | COMPANY: CINCINNATI BELL TEL             |       | FACILITY SEGMENT : SUB-PRIMARY PLANT   |         | Issue Date : 7/31/95 |         |
| CITY / AREA: CINCINNATI                     |                                                                         | STATE / PROV: OHIO                       |       | SERVICE CLASS: BAND 2 - RESIDENCE LINE |         | STUDY YR: 1996       |         |
|                                             |                                                                         |                                          |       |                                        |         | TEST CASE: 1         |         |
|                                             |                                                                         |                                          |       |                                        |         | RUN DATE: 27-Jan-97  |         |
|                                             |                                                                         |                                          |       |                                        |         | TIME: 08:28          |         |
| 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT |                                                                         |                                          |       |                                        |         |                      |         |
| PLANT ITEM                                  |                                                                         | BAND                                     | MIX   | AVG.                                   | LGTH.   | (SEE NOTE)           |         |
|                                             |                                                                         | ACCT                                     | CODE  | LGTH.                                  | 22282   | TOTAL                |         |
|                                             |                                                                         | SEG.                                     | LGTH. | 300                                    |         | AVG. WEIGHTED        |         |
| SHARED RESOURCES                            |                                                                         |                                          |       |                                        |         |                      | 300     |
| 7                                           | LAND                                                                    | 20C                                      |       |                                        |         |                      | \$ 0.00 |
| 8                                           | BUILDING                                                                | 10C                                      |       |                                        |         |                      | \$ 0.00 |
| 9                                           | BLDG ENTRANCE CABLE                                                     | 12C                                      |       |                                        |         |                      | \$ 0.00 |
| 10                                          | INTRABLDG CABLE                                                         | 52C                                      |       |                                        |         |                      | \$ 0.00 |
| 11                                          | AERIAL CABLE (COPPER)                                                   | 22C                                      |       |                                        |         |                      | \$ 0.00 |
| 12                                          | BURIED CABLE (COPPER)                                                   | 45C                                      |       |                                        |         |                      | \$ 0.00 |
| 13                                          | UNDERGROUND (CU) CA.                                                    | 5C                                       |       |                                        |         |                      | \$ 0.00 |
| 14                                          | CO EQPT - P GAIN TERM                                                   | 257C                                     |       |                                        |         |                      | \$ 0.00 |
| 15                                          | CO EQPT - P GAIN CHAN                                                   | 257C                                     |       |                                        |         |                      | \$ 0.00 |
| 16                                          | CO EQPT - FO MUX TERM                                                   | 857C                                     |       |                                        |         |                      | \$ 0.00 |
| 17                                          | CO EQPT - FO MUX CHAN                                                   | 857C                                     |       |                                        |         |                      | \$ 0.00 |
| 18                                          | CO EQPT - ANALOG SW                                                     | 77C                                      |       |                                        |         |                      | \$ 0.00 |
| 19                                          | CO EQPT - DIGITAL SW                                                    | 377C                                     |       |                                        |         |                      | \$ 0.00 |
| 20                                          | AERIAL CABLE (FIBER)                                                    | 822C                                     |       |                                        |         |                      | \$ 0.00 |
| 21                                          | BURIED CABLE (FIBER)                                                    | 845C                                     |       |                                        |         |                      | \$ 0.00 |
| 22                                          | UNDERGROUND (FO) CA.                                                    | 85C                                      |       |                                        |         |                      | \$ 0.00 |
| 23                                          | CONNECTORS                                                              | 57C                                      |       |                                        |         |                      | \$ 0.00 |
| 24                                          | MISC. COM EQP & PWR                                                     | 57C                                      |       |                                        |         |                      | \$ 0.00 |
| 25                                          | POLE LINE                                                               | 1C                                       |       |                                        |         |                      | \$ 0.00 |
| 26                                          | CONDUIT                                                                 | 4C                                       |       |                                        |         |                      | \$ 0.00 |
| 27                                          |                                                                         |                                          |       |                                        |         |                      |         |
| 28                                          | DIRECT RESOURCES                                                        |                                          |       |                                        |         |                      |         |
| 29                                          | LAND                                                                    | 20C                                      |       |                                        |         |                      | \$ 0.00 |
| 30                                          | BUILDING                                                                | 10C                                      |       |                                        |         |                      | \$ 0.00 |
| 31                                          | BLDG ENTRANCE CABLE                                                     | 12C                                      |       |                                        |         |                      | \$ 0.00 |
| 32                                          | INTRABLDG CABLE                                                         | 52C                                      |       |                                        |         |                      | \$ 0.00 |
| 33                                          | AERIAL CABLE (COPPER)                                                   | 22C                                      |       |                                        |         | \$ 0.06              | \$ 0.06 |
| 34                                          | BURIED CABLE (COPPER)                                                   | 45C                                      |       |                                        |         | \$ 0.01              | \$ 0.01 |
| 35                                          | UNDERGROUND (CU) CA.                                                    | 5C                                       |       |                                        |         | \$ 0.11              | \$ 0.11 |
| 36                                          | CO EQPT - P GAIN TERM                                                   | 257C                                     |       |                                        |         |                      | \$ 0.00 |
| 37                                          | CO EQPT - P GAIN CHAN                                                   | 257C                                     |       |                                        |         |                      | \$ 0.00 |
| 38                                          | CO EQPT - FO MUX TERM                                                   | 857C                                     |       |                                        |         |                      | \$ 0.00 |
| 39                                          | CO EQPT - FO MUX CHAN                                                   | 857C                                     |       |                                        |         |                      | \$ 0.00 |
| 40                                          | CO EQPT - ANALOG SW                                                     | 77C                                      |       |                                        |         |                      | \$ 0.00 |
| 41                                          | CO EQPT - DIGITAL SW                                                    | 377C                                     |       |                                        |         |                      | \$ 0.00 |
| 42                                          | AERIAL CABLE (FIBER)                                                    | 822C                                     |       |                                        |         |                      | \$ 0.00 |
| 43                                          | BURIED CABLE (FIBER)                                                    | 845C                                     |       |                                        |         |                      | \$ 0.00 |
| 44                                          | UNDERGROUND (FO) CA.                                                    | 85C                                      |       |                                        |         |                      | \$ 0.00 |
| 45                                          | CONNECTORS                                                              | 57C                                      |       |                                        |         |                      | \$ 0.00 |
| 46                                          | MISC. COM EQP & PWR                                                     | 57C                                      |       |                                        |         |                      | \$ 0.00 |
| 47                                          | POLE LINE                                                               | 1C                                       | 0.0   |                                        |         | \$ 0.01              | \$ 0.01 |
| 48                                          | CONDUIT                                                                 | 4C                                       | 0.0   |                                        |         | \$ 0.04              | \$ 0.04 |
| 49                                          |                                                                         |                                          |       |                                        |         |                      |         |
| 50                                          | SPAN SUMMARY                                                            |                                          |       | \$ 0.23                                | \$ 0.00 | \$ 0.00              | \$ 0.00 |
| 51                                          |                                                                         |                                          |       |                                        |         |                      |         |
| 52                                          | AVG. WTD. SPAN SUMMARY                                                  |                                          |       | \$ 0.23                                | \$ 0.00 | \$ 0.00              | \$ 0.00 |
| 53                                          |                                                                         |                                          |       |                                        |         |                      |         |
| 54                                          | NOTE: [sum(INV <sub>ACCT</sub> <sup>BAND</sup> * MIX <sup>BAND</sup> )] |                                          |       |                                        |         |                      |         |
| 55                                          |                                                                         |                                          |       |                                        |         |                      |         |

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RUN - CDLC PLANT

LAST UPDATE

27-Jan-97

08:11

## LOOP COST ANALYSIS TOOL

Bellcore<sup>TM</sup>

LCAT

Release: 1.0.4

Issued: 8/31/95

## FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 14001 FEET - INFINITE

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

|           |           |           |   |
|-----------|-----------|-----------|---|
| BASIS     | NETWORK   | TEST CASE |   |
| FR / DS   | FLAT RATE | #BANDS    |   |
| SVC LEVEL | NARBAND   | #CKTS     | 1 |
| CST METH  | UN INCR   | INV LEVEL | 1 |

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| LOOP COST ANALYSIS TOOL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  | Bellcore            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|---------------------|--|
| BASIC INVESTMENT WORKSHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  | LCAT Release: 1.0.4 |  |
| CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  | Issue Date: 8/31/95 |  |
| FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  | STUDY YR: 1996      |  |
| FACILITY TYPE: COPPER DIG LOOP CRR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  | TEST CASE: 1        |  |
| CIRCUIT DESIGN: T1C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  | DATE: 27-Jan-97     |  |
| SERVICE CLASS: BAND 2 - RESIDENCE LINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  | TIME: 08:29 AM      |  |
| COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: OHIO<br>STATE / PROV: CINCINNATI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| 22282 cur lgrth<br>300 cur str-lgrth<br>f = 0.125 pgrfactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| CABLE COMPONENTS (NOTE 5)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  |                     |  |
| (NOTE 4) (NOTE 5)<br>CABLE WEIGHTED AIR DRYER DROP WIRE DROP WIRE<br>INVESTMENT TERMINAL INVESTMENT ADJUSTMENT INVESTMENT<br>[E=C*D] [U*OTC] [E*fcfr] [E*fcfr] [U*OTC]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| [A] [B] [C=A*B*f] [D] [E=C*D] [U*OTC] [E*fcfr] [E*fcfr] [U*OTC]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| 19283 AERIAL 0.290000 699.01 0.023800 \$ 16.64 \$ 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| CO TO RT LINK ON BURIED 0.020000 48.21 0.041000 \$ 1.98 \$ 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| COPPER CABLE DLC 24.00 GA. FACILITIES UNDERGRND 0.690000 1663.16 0.022000 \$ 36.59 \$ 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |
| 1.000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  |                     |  |
| OUTSIDE PLANT LOADINGS (NOTE 5):<br>ADJUST. / LOAD FACTORS TO AERIAL PFI<br>ADJUST. / LOAD FACTORS TO BURIED PFI<br>ADJUST. / LOAD FACTORS TO UGD PFI<br>DLC EQUIPMENT INVEST. (NOTE 2):<br>INT DLC EQUIP INVEST. (CU COMUX) = intalcco \$ 0.00<br>INT DLC EQUIP INVEST. (CU RTMUX) = intalrt \$ 51.57<br>UNIV DLC EQUIP INVEST. (CU COMUX) = unvdcco \$ 12.14<br>UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdart \$ 51.57<br>DLC EQUIP INVEST. (CU LINE) = dlccol \$ 0.00                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| CONDUIT INVEST. FOR DLC CEV FACILITIES = conpgrvst \$ 0.00<br>OTHER INVESTMENT inv / unit lgrth: inv rthn fcfr: 0.0000 0.2530<br>POLE LINE FACTOR (PLf) = 0.0000<br>POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 7.02<br>UGD CONDUIT FACTOR (UCf) = 0.0000<br>CONDUIT INVESTMENT (UTIL UNDGRD INVST x UCf) = \$ 31.50                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| EQUIPMENT INVESTMENT LOADINGS<br>INVEST. PER CHAN. FOR DLC TERM (co conn) = \$ 0.00<br>MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) = 0.1127<br>MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) = 0.1127<br>MCE&P INVEST. (CU REMMUX x MCEP) = \$ 15.42<br>MCE&P INVEST. (CDLCMUX x MCEP) = \$ 11.23<br>MCE&P INVEST. (CO CONN x MCEP) = \$ 0.00<br>OTHER INVESTMENT<br>LAND FACTOR FOR DLC (LANDf rem) = 0.0056<br>LAND FACTOR FOR DLC (LANDf c.o.) = 0.0056<br>LAND INVST. (CU COMUX + MCEP) x LANDf = \$ 1.47<br>LAND INVST. ((CO CONN + MCEP) x LANDf) = \$ 0.00<br>BUILDING FACTOR FOR DLC (BLDGf rem) = 0.1316<br>BUILDING FACTOR FOR DLC (BLDGf c.o.) = 0.1316<br>BLDG INVST. (CDLCMUX + MCEP) x BLDGf = \$ 34.63<br>BLDG INVST. ((CO CONN + MCEP) x BLDGf) = \$ 0.00 |  |  |  |  |  |  |  |  |  |                     |  |
| LOOP TOPOLOGY<br>AVERAGE NUMBER OF HUBS<br>ADDITIONAL LENGTH OF BNG OSP REQUIRED<br>MIX OF CENT. OFC. ANALOG INTFC 0.0000<br>MIX OF CENT. OFC. DIGITAL INTFC 1.0000<br>MIX OF UNIVERSAL SLC INTFC 1.0000<br>MIX OF INTEGRATED DIGITAL INTFC 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |                     |  |
| FOOTNOTES<br>NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.<br>NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.<br>NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULTI BY 2.<br>NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.<br>NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |

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|                                                                               |                                                                                                                                                                                                                                                                                                      |                                                                                                                                                   |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| C:\123R24\LCATCALC\CUPRGN<br>COLC PLANT - WORKSHEET 1<br>Sheet 2 of 3         | <b>LOOP COST ANALYSIS TOOL</b><br><b>ACCOUNT INVESTMENT WORKSHEET</b><br>CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET<br>FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY<br>FACILITY TYPE: COPPER DIG LOOP CRR<br>CIRCUIT DESIGN: T C<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE | <b>Bellcore</b> <sup>®</sup><br>LCAT Release: 1.0.4<br>Issue Date: 6/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>DATE: 27-Jan-97<br>TIME: 08:29 AM |
| COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: OHIO<br>STATE / PROV: CINCINNATI |                                                                                                                                                                                                                                                                                                      |                                                                                                                                                   |

| PLANT ITEM              | PLANT ACCT CODE | FIXED VARI SUNK | RESOURCE ALLOCATION | 1996 UNIT INVESTMENTS BY ACCOUNT | CIRCUIT QUANTITY [G] | 1996 UNIT LOOP INVESTMENT EXCL UTILIZATION |                           | ADMIN. UTIL. LINE FILL [J] | 1996 UNIT LOOP INVESTMENT INCL UTILIZATION |                            |
|-------------------------|-----------------|-----------------|---------------------|----------------------------------|----------------------|--------------------------------------------|---------------------------|----------------------------|--------------------------------------------|----------------------------|
|                         |                 |                 |                     | COST EQUATION [F]                |                      | SHARED RESOURCES [H=F*G]                   | DIRECT RESOURCES [H'=F*G] |                            | SHARED RESOURCES [K=H/J]                   | DIRECT RESOURCES [K'=H'/J] |
| LAND                    | 20C             | F               | SHARED              | 1.47                             | 1                    | \$ 1                                       |                           | 1.0000                     | \$ 1                                       |                            |
| BUILDING                | 10C             | F               | SHARED              | 34.76                            | 1                    | \$ 35                                      |                           | 1.0000                     | \$ 35                                      |                            |
| BLDG ENTRANCE CABLE     | 12C             | ---             | ---                 |                                  |                      |                                            |                           | 1.0000                     |                                            |                            |
| INTRABLDG CABLE         | 52C             | ---             | ---                 |                                  |                      |                                            |                           | 0.3500                     |                                            |                            |
| AERIAL CABLE (COPPER)   | 22C             | V               | DIRECT              | 16.64                            | 1                    |                                            | \$ 17                     | 0.6000                     |                                            | \$ 28                      |
| BURIED CABLE (COPPER)   | 45C             | V               | DIRECT              | 1.98                             | 1                    |                                            | \$ 2                      | 0.6000                     |                                            | \$ 3                       |
| UNDERGROUND (CU) CA.    | 5C              | V               | DIRECT              | 36.59                            | 1                    |                                            | \$ 37                     | 0.6000                     |                                            | \$ 61                      |
| CO EQPT - P GAIN TERM   | 257C            | F               | DIRECT              | 79.13                            | 1                    |                                            | \$ 79                     | 0.7000                     |                                            | \$ 113                     |
| CO EQPT - P GAIN CHAN   | 257C            | V               | DIRECT              | 172.79                           | 1                    |                                            | \$ 173                    | 0.7000                     |                                            | \$ 247                     |
| CO EQPT - FO MUX TERM   | 857C            | F               | DIRECT              |                                  |                      |                                            |                           | 1.0000                     |                                            |                            |
| CO EQPT - FO MUX CHAN   | 857C            | F               | DIRECT              |                                  |                      |                                            |                           | 1.0000                     |                                            |                            |
| CO EQPT - ESS - ANALOG  | 77C             | V               | DIRECT              | 0.00                             |                      |                                            |                           | 1.0000                     |                                            |                            |
| CO EQPT - ESS - DIGITAL | 377C            | V               | DIRECT              | 0.00                             |                      |                                            |                           | 1.0000                     |                                            |                            |
| AERIAL CABLE (FIBER)    | 822C            | F               | DIRECT              |                                  |                      |                                            |                           | 0.3300                     |                                            |                            |
| BURIED CABLE (FIBER)    | 845C            | F               | DIRECT              |                                  |                      |                                            |                           | 0.3300                     |                                            |                            |
| UNDERGROUND (FO) CA.    | 85C             | F               | DIRECT              |                                  |                      |                                            |                           | 0.3300                     |                                            |                            |
| CONNECTORS              | 57C             | V               | DIRECT              |                                  |                      |                                            |                           | 1.0000                     |                                            |                            |
| MISC. COM EQP & PWR     | 57C             | V               | SHARED              | 23                               | 1                    | \$ 11                                      |                           | 1.0000                     |                                            |                            |
| POLE LINE               | 1C              | F               | DIRECT              | 7.02                             | 1                    |                                            | \$ 7                      | 1.0000                     |                                            | \$ 7                       |
| CONDUIT                 | 4C              | F               | DIRECT              | 31.50                            | 1                    |                                            | \$ 31                     | 1.0000                     |                                            | \$ 31                      |
| TOTALS                  |                 |                 |                     |                                  |                      |                                            |                           |                            |                                            |                            |
|                         |                 |                 |                     |                                  |                      |                                            |                           |                            | \$ 47                                      | \$ 490                     |
|                         |                 |                 |                     |                                  |                      |                                            |                           |                            |                                            | \$ 538                     |
|                         |                 |                 |                     |                                  |                      |                                            |                           |                            |                                            | FEEDTY                     |

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## FOOTNOTES

- NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.  
 NOTE 2: CO EQPT - CKT PG TERM = PG EQ INV TERM + MC&P INV  
 CO EQPT - CKT PG CHAN = PG EQ INV CHAN + ORB INV  
 CO EQPT - ANALOG/DIGITAL ESS = C.O. CONN INV + MC&P INV

| C:\123R24\LCAT\CALC\CPRGN    |                 |                      | LOOP COST ANALYSIS TOOL                                       |                            |                        |                                   |                            | Bellicore <sup>TM</sup>                      |                             |
|------------------------------|-----------------|----------------------|---------------------------------------------------------------|----------------------------|------------------------|-----------------------------------|----------------------------|----------------------------------------------|-----------------------------|
| CDLC PLANT - WORKSHEET 1     |                 |                      | PROSPECTIVE AND ANNUAL COSTS WORKSHEET                        |                            |                        |                                   |                            | LCAT Release: 1.0.4                          |                             |
| Sheet 3 of 3                 |                 |                      | CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET |                            |                        |                                   |                            | Issue Date: 8/31/95                          |                             |
| COMPANY: CINCINNATI BELL TEL |                 |                      | FOR: DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY          |                            |                        |                                   |                            | STUDY YR: 1996                               |                             |
| CITY / AREA: OHIO            |                 |                      | FACILITY TYPE: COPPER DIG LOOP CRR                            |                            |                        |                                   |                            | TEST CASE: 1                                 |                             |
| STATE / PROV: CINCINNATI     |                 |                      | CIRCUIT DESIGN: T1 C                                          |                            |                        |                                   |                            | DATE: 27-Jan-97                              |                             |
|                              |                 |                      | SERVICE CLASS: BAND 2 - RESIDENCE LINE                        |                            |                        |                                   |                            | TIME: 08:29 AM                               |                             |
| PLANT ITEM                   | PLANT ACCT CODE | 1996 TO 1996 TPI [L] | 1996 UNIT LOOP INVESTMENT BY ACCOUNT                          |                            | ANNUAL COST FACTOR [N] | 1996 UNIT ANNUAL COSTS BY ACCOUNT |                            | 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT |                             |
|                              |                 |                      | SHARED RESOURCES [M=K*L]                                      | DIRECT RESOURCES [M'=K'*L] |                        | SHARED RESOURCES [P=M*N]          | DIRECT RESOURCES [P'=M'*N] | SHARED RESOURCES [R=P/12]                    | DIRECT RESOURCES [R'=P'/12] |
| LAND                         | 20C             | 1.0000               | \$ 1                                                          |                            | 0.2232                 | \$ 0.33                           |                            | \$ 0.03                                      |                             |
| BUILDING                     | 10C             | 1.0000               | \$ 35                                                         |                            | 0.2847                 | \$ 9.90                           |                            | \$ 0.82                                      |                             |
| BLDG ENTRANCE CABLE          | 12C             | 1.0000               |                                                               |                            | 0.3832                 |                                   |                            |                                              |                             |
| INTRABLDG CABLE              | 52C             | 1.0000               |                                                               |                            | 0.3832                 |                                   |                            |                                              |                             |
| AERIAL CABLE (COPPER)        | 22C             | 1.0000               |                                                               | \$ 28                      | 0.3943                 |                                   | \$ 10.93                   |                                              | \$ 0.91                     |
| BURIED CABLE (COPPER)        | 45C             | 1.0000               |                                                               | \$ 3                       | 0.3377                 |                                   | \$ 1.11                    |                                              | \$ 0.09                     |
| UNDERGROUND (CU) CA.         | 5C              | 1.0000               |                                                               | \$ 61                      | 0.3573                 |                                   | \$ 21.79                   |                                              | \$ 1.82                     |
| CO EQPT - P GAIN TERM        | 257C            | 1.0000               |                                                               | \$ 113                     | 0.3791                 |                                   | \$ 42.56                   |                                              | \$ 3.57                     |
| CO EQPT - P GAIN CHAN        | 257C            | 1.0000               |                                                               | \$ 247                     | 0.3791                 |                                   | \$ 93.58                   |                                              | \$ 7.80                     |
| CO EQPT - FO MUX TERM        | 857C            | 1.0000               |                                                               |                            | 0.3791                 |                                   |                            |                                              |                             |
| CO EQPT - FO MUX CHAN        | 857C            | 1.0000               |                                                               |                            | 0.3791                 |                                   |                            |                                              |                             |
| CO EQPT - ESS - ANALOG       | 77C             | 1.0000               |                                                               |                            | 0.0000                 |                                   |                            |                                              |                             |
| CO EQPT - ESS - DIGITAL      | 377C            | 1.0000               |                                                               |                            | 0.3368                 |                                   |                            |                                              |                             |
| AERIAL CABLE (FIBER)         | 822C            | 1.0000               |                                                               |                            | 0.2893                 |                                   |                            |                                              |                             |
| BURIED CABLE (FIBER)         | 845C            | 1.0000               |                                                               |                            | 0.2634                 |                                   |                            |                                              |                             |
| UNDERGROUND (FO) CA.         | 85C             | 1.0000               |                                                               |                            | 0.2599                 |                                   |                            |                                              |                             |
| CONNECTORS                   | 57C             | 1.0000               |                                                               |                            | 0.3791                 |                                   |                            |                                              |                             |
| MISC. COM EQP & PWR          | 57C             | 1.0000               | \$ 11                                                         |                            | 0.3791                 | \$ 4.26                           |                            | \$ 0.35                                      |                             |
| POLE LINE                    | 1C              | 1.0000               |                                                               | \$ 7                       | 0.3717                 |                                   | \$ 2.61                    |                                              | \$ 0.22                     |
| CONDUIT                      | 4C              | 1.0000               |                                                               | \$ 31                      | 0.2431                 |                                   | \$ 7.66                    |                                              | \$ 0.64                     |
| TOTALS                       |                 |                      | \$ 47                                                         | \$ 490                     |                        | \$ 14.48                          | \$ 180.59                  | \$ 1.21                                      | \$ 15.04                    |
|                              |                 |                      |                                                               | \$ 538                     |                        |                                   | \$ 106.02                  |                                              | \$ 16.25                    |
|                              |                 |                      |                                                               | FEED1SY                    |                        |                                   | FEED1ANN                   |                                              | FEED1MRC                    |

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FOOTNOTES  
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.  
NOTE 2: AN INVESTMENT-ONLY STUDY NEGATES ANNUAL COST COMPUTATION.  
HOWEVER, THIS COLUMN IS PRESENTED FOR CONSISTENCY OF FORMAT ONLY.

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| C:\123R24\LCAT\CALC\CUPRGN |                         | <b>LOOP COST ANALYSIS TOOL</b>                                         |       |      |         | Bellcore®           |         |
|----------------------------|-------------------------|------------------------------------------------------------------------|-------|------|---------|---------------------|---------|
| CDLC PLANT - REPORT 14.1   |                         | PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                               |       |      |         | LCAT Release: 1.0.4 |         |
| Sheet 1 of 3               |                         | COMPANY: CINCINNATI BELL TEL. FACILITY SEGMENT: PRIMARY FEEDER SEGMENT |       |      |         | Issue Date: 8/31/85 |         |
| CITY / AREA: CINCINNATI    |                         | CIRCUIT DESIGN: COPPER DIG LOOP CXR                                    |       |      |         | STUDY YR: 1996      |         |
| STATE / PROV: OHIO         |                         | SERVICE CLASS: BAND 2 - RESIDENCE LINE                                 |       |      |         | TEST CASE: 1        |         |
|                            |                         |                                                                        |       |      |         | DATE: 27-Jan-97     |         |
|                            |                         |                                                                        |       |      |         | TIME: 08:29 AM      |         |
|                            |                         | 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT                            |       |      |         | (SEE NOTE)          |         |
|                            |                         | logic-14a                                                              |       |      |         | TOTAL               |         |
|                            |                         | BAND 0                                                                 |       |      |         | AVG. WEIGHTED       |         |
|                            |                         | PLANT MIX 1.0000                                                       |       |      |         | INVESTMENT          |         |
|                            |                         | ACCT LGTH 22282                                                        |       |      |         |                     |         |
|                            |                         | SEGLGTH. 19283                                                         |       |      |         |                     |         |
| PLANT ITEM                 |                         |                                                                        |       |      |         | 19283               |         |
| <b>SHARED RESOURCES</b>    |                         |                                                                        |       |      |         | -----               |         |
| 7                          | LAND                    | 20C                                                                    |       |      | \$ 0.03 |                     | \$ 0.03 |
| 8                          | BUILDING                | 10C                                                                    |       |      | \$ 0.82 |                     | \$ 0.82 |
| 9                          | BLDG ENTRANCE CABLE     | 12C                                                                    |       |      |         |                     | \$ 0.00 |
| 10                         | INTRABLDG CABLE         | 52C                                                                    |       |      |         |                     | \$ 0.00 |
| 11                         | AERIAL CABLE (COPPER)   | 22C                                                                    |       |      |         |                     | \$ 0.00 |
| 12                         | BURIED CABLE (COPPER)   | 45C                                                                    |       |      |         |                     | \$ 0.00 |
| 13                         | UNDERGROUND (CU) CA.    | 5C                                                                     |       |      |         |                     | \$ 0.00 |
| 14                         | CO EQPT - P GAIN TERM   | 257C                                                                   |       |      |         |                     | \$ 0.00 |
| 15                         | CO EQPT - P GAIN CHAN   | 257C                                                                   |       |      |         |                     | \$ 0.00 |
| 16                         | CO EQPT - FO MUX TERM   | 857C                                                                   |       |      |         |                     | \$ 0.00 |
| 17                         | CO EQPT - FO MUX CHAN   | 857C                                                                   |       |      |         |                     | \$ 0.00 |
| 18                         | CO EQPT - ANALOG SW     | 77C                                                                    |       |      |         |                     | \$ 0.00 |
| 19                         | CO EQPT - DIGITAL SW    | 377C                                                                   |       |      |         |                     | \$ 0.00 |
| 20                         | AERIAL CABLE (FIBER)    | 822C                                                                   |       |      |         |                     | \$ 0.00 |
| 21                         | BURIED CABLE (FIBER)    | 845C                                                                   |       |      |         |                     | \$ 0.00 |
| 22                         | UNDERGROUND (FO) CA.    | 85C                                                                    |       |      |         |                     | \$ 0.00 |
| 23                         | CONNECTORS              | 57C                                                                    |       |      |         |                     | \$ 0.00 |
| 24                         | MISC. COM EQP & PWR     | 57C                                                                    |       |      | \$ 0.35 |                     | \$ 0.35 |
| 25                         | POLE LINE               | 1C                                                                     |       |      |         |                     | \$ 0.00 |
| 26                         | CONDUIT                 | 4C                                                                     |       |      |         |                     | \$ 0.00 |
| 27                         |                         |                                                                        |       |      |         |                     |         |
| 28                         | <b>DIRECT RESOURCES</b> |                                                                        |       |      |         |                     |         |
| 29                         | LAND                    | 20C                                                                    |       |      |         |                     | \$ 0.00 |
| 30                         | BUILDING                | 10C                                                                    |       |      |         |                     | \$ 0.00 |
| 31                         | BLDG ENTRANCE CABLE     | 12C                                                                    |       |      |         |                     | \$ 0.00 |
| 32                         | INTRABLDG CABLE         | 52C                                                                    |       |      |         |                     | \$ 0.00 |
| 33                         | AERIAL CABLE (COPPER)   | 22C                                                                    |       |      | \$ 0.91 |                     | \$ 0.91 |
| 34                         | BURIED CABLE (COPPER)   | 45C                                                                    |       |      | \$ 0.09 |                     | \$ 0.09 |
| 35                         | UNDERGROUND (CU) CA.    | 5C                                                                     |       |      | \$ 1.82 |                     | \$ 1.82 |
| 36                         | CO EQPT - P GAIN TERM   | 257C                                                                   |       |      | \$ 3.57 |                     | \$ 3.57 |
| 37                         | CO EQPT - P GAIN CHAN   | 257C                                                                   |       |      | \$ 7.80 |                     | \$ 7.80 |
| 38                         | CO EQPT - FO MUX TERM   | 857C                                                                   |       |      |         |                     | \$ 0.00 |
| 39                         | CO EQPT - FO MUX CHAN   | 857C                                                                   |       |      |         |                     | \$ 0.00 |
| 40                         | CO EQPT - ANALOG SW     | 77C                                                                    |       |      |         |                     | \$ 0.00 |
| 41                         | CO EQPT - DIGITAL SW    | 377C                                                                   |       |      |         |                     | \$ 0.00 |
| 42                         | AERIAL CABLE (FIBER)    | 822C                                                                   |       |      |         |                     | \$ 0.00 |
| 43                         | BURIED CABLE (FIBER)    | 845C                                                                   |       |      |         |                     | \$ 0.00 |
| 44                         | UNDERGROUND (FO) CA.    | 85C                                                                    |       |      |         |                     | \$ 0.00 |
| 45                         | CONNECTORS              | 57C                                                                    |       |      |         |                     | \$ 0.00 |
| 46                         | MISC. COM EQP & PWR     | 57C                                                                    |       |      |         |                     | \$ 0.00 |
| 47                         | POLE LINE               | 1C                                                                     |       |      | \$ 0.22 |                     | \$ 0.22 |
| 48                         | CONDUIT                 | 4C                                                                     | ***** |      | \$ 0.64 |                     | \$ 0.64 |
| 49                         |                         |                                                                        |       |      |         |                     |         |
| 50                         | SPAN SUMMARY            |                                                                        | 16.25 | 0.00 | 0.00    | 0.00                | 16.25   |
| 51                         | AVG. WTD. SPAN SUMMARY  |                                                                        | 16.25 | 0.00 | 0.00    | 0.00                | 16.25   |
| 52                         |                         |                                                                        |       |      |         |                     |         |
| 53                         |                         |                                                                        |       |      |         |                     |         |
| 54                         |                         |                                                                        |       |      |         |                     |         |
| 55                         |                         |                                                                        |       |      |         |                     |         |

NOTE: [sum(INV<sub>ACCT</sub> \* MIX<sub>BAND</sub>)]

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Bellcore (R)

RUN - FO MUX

LCAT

LAST UPDATE:

## LOOP COST ANALYSIS TOOL

Release: 1.0.4

27-Jan-97

Issued: 7/31/95

08:12

## FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 14001 FEE

CURRENT TEST PLAN :

|                               |           |           |          |
|-------------------------------|-----------|-----------|----------|
| CURRENT JOB IDENT. CINCINNATI |           |           |          |
| BASIS                         | NETWORK   | TEST CASE | 1        |
| FR / DS                       | FLAT RATE | #BANDS    | 0        |
| SVC LEVEL                     | NARBAND   | #CKTS     | 1        |
| CST METH                      | UN INCR   | INV LEVEL | ANN COST |

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| LOOP COST ANALYSIS TOOL                                                                                                                                                        |  |  |  |  |  |  |  |  |  | Bellcore            |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|---------------------|--|
| BASIC INVESTMENT WORKSHEET                                                                                                                                                     |  |  |  |  |  |  |  |  |  | LCAT Rel: 1.0.4     |  |
| FOR PRIMARY FEEDER PLANT                                                                                                                                                       |  |  |  |  |  |  |  |  |  | ISSUE DATE: 7/31/95 |  |
| FACILITY TYPE: FIBER IN THE LOOP                                                                                                                                               |  |  |  |  |  |  |  |  |  | STUDY YR: 19        |  |
| CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.                                                                                                                                          |  |  |  |  |  |  |  |  |  | TEST CASE:          |  |
| SERVICE CLASS: BAND 2 - RESID: SERVICE LEVEL: NARBAND                                                                                                                          |  |  |  |  |  |  |  |  |  | LAST RUN: 27-Jan-98 |  |
| Sheet 1 of 3                                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |
| COMPANY: CINCINNATI BELL TEL                                                                                                                                                   |  |  |  |  |  |  |  |  |  |                     |  |
| CITY / AREA: CINCINNATI                                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| STATE / PROV: OHIO                                                                                                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| from star_tbl: 300 cur_sfdlength 10932.5 cur_prlgth                                                                                                                            |  |  |  |  |  |  |  |  |  |                     |  |
| from bw_mix: f = 1979.04 wtdqvmn                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| CABLE COMPONENTS (NOTE 5)                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| (NOTE 4)                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| (NOTE 3)                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| WEIGHTED EFFECTIVE CABLE INVESTMENT [E=C*D]                                                                                                                                    |  |  |  |  |  |  |  |  |  |                     |  |
| WEIGHTED TERMINAL INVESTMENT [UI*DTCT]                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| AIR DRYER INVESTMENT PER PAIR [E*tdr]                                                                                                                                          |  |  |  |  |  |  |  |  |  |                     |  |
| DROP WIRE ADJUSTMENT PER PAIR [E*tdr]                                                                                                                                          |  |  |  |  |  |  |  |  |  |                     |  |
| DROP WIRE INVESTMENT PER PAIR [UI*DTCT]                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| CO TO HUB LINK ON FIBER OPTIC FACILITIES                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| BURIED 0.000000 0.00 0.269400 0.00 0.00                                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| UNDERGRND 0.520000 5.07 0.182700 0.93 0.00                                                                                                                                     |  |  |  |  |  |  |  |  |  |                     |  |
| 1.000000                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| EQUIPMENT INVESTMENT LOADINGS                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| INVT. PER CHAN. FOR CA TERM (CA CONN) = \$ 0.1                                                                                                                                 |  |  |  |  |  |  |  |  |  |                     |  |
| MISC. COM. EQPT. & POWER FACTOR (DLCrem) = 0.11                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| MISC. COM. EQPT. & POWER FACTOR (MUXrem) = 0.11                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| MISC. COM. EQPT. & POWER FACTOR (OTHrem) = 0.11                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| MISC. COM. EQPT. & POWER FACTOR (MUXc.o.) = 0.11                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) = 0.11                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) = 0.11                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| MCE&P INVST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) = \$ 13.0                                                                                                                          |  |  |  |  |  |  |  |  |  |                     |  |
| MCE&P INVST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 17.0                                                                                                                            |  |  |  |  |  |  |  |  |  |                     |  |
| MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.1                                                                                                                                    |  |  |  |  |  |  |  |  |  |                     |  |
| MCE&P INVST. (CA CONN x MCEPfc.o.) = \$ 0.1                                                                                                                                    |  |  |  |  |  |  |  |  |  |                     |  |
| LAND FACTOR FOR MUX EQP (LANDrem) = 0.00                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| LAND FACTOR FOR MUX EQP (LANDrem) = 0.00                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| LAND FACTOR FOR OTH (LANDrem) = 0.00                                                                                                                                           |  |  |  |  |  |  |  |  |  |                     |  |
| LAND FACTOR FOR OTH (LANDrem) = 0.00                                                                                                                                           |  |  |  |  |  |  |  |  |  |                     |  |
| LAND FACTOR FOR OTH (LANDrem) = 0.00                                                                                                                                           |  |  |  |  |  |  |  |  |  |                     |  |
| LAND FACTOR FOR OTH (LANDrem) = 0.00                                                                                                                                           |  |  |  |  |  |  |  |  |  |                     |  |
| LAND FACTOR FOR OTH (LANDrem) = 0.00                                                                                                                                           |  |  |  |  |  |  |  |  |  |                     |  |
| LAND INVST. (DLC+MUX+MCEP) x LANDfc.o.) = \$ 0.7                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| LAND INVST. (MUX+DLC+MCEP) x LANDfc.o.) = \$ 0.7                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| BUILDING FACTOR FOR OTH (BLDGrem) = 0.13                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| BUILDING FACTOR FOR OTH (BLDGrem) = 0.13                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| BUILDING FACTOR FOR OTH (BLDGrem) = 0.13                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| BUILDING FACTOR FOR OTH (BLDGrem) = 0.13                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| BUILDING FACTOR FOR OTH (BLDGrem) = 0.13                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| BUILDING FACTOR FOR OTH (BLDGrem) = 0.13                                                                                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| BLDG INVST. (DLC+MUX+MCEP) x BLDGfc.o.) = \$ 17.0                                                                                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| BLDG INVST. (MUX+DLC+MCEP) x BLDGfc.o.) = \$ 23.0                                                                                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| OTHER INVESTMENT                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| inv / unit lgth.: inv rtm fctr:                                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| POLE LINE FACTOR (PL) = 0.0000 0.1965                                                                                                                                          |  |  |  |  |  |  |  |  |  |                     |  |
| POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PL) = \$ 0.54                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| UNDERGROUND CONDUIT FACTOR (PL) = 0.0000 0.5232                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) = \$ 1.47                                                                                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| LOOP TOPOLOGY                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| STAR                                                                                                                                                                           |  |  |  |  |  |  |  |  |  |                     |  |
| AVERAGE NUMBER OF HUBS NA                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| ADDITIONAL LENGTH OF RING OSP REQUIRED NA                                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF CENT. OFC. ANALOG INTFC 0.0000                                                                                                                                          |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF CENT. OFC. DIGITAL INTFC 1.0000                                                                                                                                         |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF UNIVERSAL DLC INTFC 1.0000                                                                                                                                              |  |  |  |  |  |  |  |  |  |                     |  |
| MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.0000                                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| FOOTNOTES                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED.                               |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULTI BY 2.                                                                               |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |
| NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E. |  |  |  |  |  |  |  |  |  |                     |  |

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FO MUX - WORKSHEET 3  
Sheet 2 of 3

## LOOP COST ANALYSIS TOOL

Bellcore<sup>®</sup>COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIOACCOUNT INVESTMENT WORKSHEET  
FOR PRIMARY FEEDER PLANT  
FACILITY TYPE: FIBER IN THE LOOP  
CIRCUIT DESIGN: 31 FOMUX TO HUB / REM.  
SERVICE CLASS: BAND 2 - RESD SERVICE LEVEL: NARBANDLCAT Rel: 1.0.4  
ISSUE DATE: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
LAST RUN: 27-Jan-97  
TIME: 05:30

| PLANT ITEM             | PLANT ACCT CODE<br>cmstart | FIXED VARI SUNK | RESOURCE ALLOCATION | 1996 UNIT INVESTMENTS BY ACCOUNT | CIRCUIT QUANTITY | 1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION |                  | ADMIN. UTIL LINE FILL<br>utilstart | 1996 UNIT LOOP INVESTMENT INCL UTILIZATION |                  |
|------------------------|----------------------------|-----------------|---------------------|----------------------------------|------------------|---------------------------------------------|------------------|------------------------------------|--------------------------------------------|------------------|
|                        |                            |                 |                     | COST EQUATION                    |                  | SHARED RESOURCES                            | DIRECT RESOURCES |                                    | SHARED RESOURCES                           | DIRECT RESOURCES |
|                        |                            |                 |                     | [F]                              | [G]              | [H=F*G]                                     | [H'=F*G]         | [J]                                | [K=H/J]                                    | [K'=H'/J]        |
| LAND                   | 20C                        | F               | SHARED              | 1.74                             | 1                | \$ 2                                        |                  | 1.0000                             | \$ 2                                       |                  |
| BUILDING               | 10C                        | F               | SHARED              | 40.90                            | 1                | \$ 41                                       |                  | 1.0000                             | \$ 41                                      |                  |
| BLDG ENTRANCE CABLE    | 12C                        | ----            | ----                |                                  |                  |                                             |                  | 1.0000                             |                                            |                  |
| INTRABLDG CABLE        | 52C                        | ----            | ----                |                                  |                  |                                             |                  | 0.3500                             |                                            |                  |
| AERIAL CABLE (COPPER)  | 22C                        | V               | DIRECT              |                                  |                  |                                             |                  | 0.6000                             |                                            |                  |
| BURIED CABLE (COPPER)  | 45C                        | V               | DIRECT              |                                  |                  |                                             |                  | 0.6000                             |                                            |                  |
| UNDERGROUND (CU) CA.   | 5C                         | V               | DIRECT              |                                  |                  |                                             |                  | 0.6000                             |                                            |                  |
| CO EQPT - LOW CAP TERM | 257C                       | F               | DIRECT              | 63.71                            | 1                |                                             | \$ 64            | 0.7000                             |                                            | \$ 91            |
| CO EQPT - LOW CAP CHAN | 257C                       | V               | DIRECT              | 172.79                           | 1                |                                             | \$ 173           | 0.7000                             |                                            | \$ 247           |
| CO EQPT - HI CAP TERM  | 857C                       | F               | DIRECT              | 22.47                            | 1                |                                             | \$ 22            | 1.0000                             |                                            | \$ 22            |
| CO EQPT - HI CAP CHAN  | 857C                       | F               | DIRECT              | 38.11                            | 1                |                                             | \$ 38            | 1.0000                             |                                            | \$ 38            |
| CO EQPT - ANALOG SW    | 77C                        | V               | DIRECT              | 0.00                             |                  |                                             |                  | 1.0000                             |                                            |                  |
| CO EQPT - DIGITAL SW   | 377C                       | V               | DIRECT              | 0.00                             |                  |                                             |                  | 1.0000                             |                                            |                  |
| AERIAL CABLE (FIBER)   | 822C                       | F               | DIRECT              | 0.90                             | 1                |                                             | \$ 1             | 0.3300                             |                                            | \$ 3             |
| BURIED CABLE (FIBER)   | 845C                       | F               | DIRECT              | 0.00                             |                  |                                             |                  | 0.3300                             |                                            |                  |
| UNDERGROUND (FO) CA.   | 85C                        | F               | DIRECT              | 0.93                             | 1                |                                             | \$ 1             | 0.3300                             |                                            | \$ 3             |
| CONNECTORS             | 57C                        | V               | DIRECT              | 0.00                             |                  |                                             |                  | 1.0000                             |                                            |                  |
| MISC. COM EQP & PWR    | 57C                        | V               | SHARED              | 13.71                            | 1                | \$ 14                                       |                  | 1.0000                             | \$ 14                                      |                  |
| POLE LINE              | 1C                         | F               | DIRECT              | 0.54                             | 1                |                                             | \$ 1             | 1.0000                             |                                            | \$ 1             |
| CONDUIT                | 4C                         | F               | DIRECT              | 1.47                             | 1                |                                             | \$ 1             | 1.0000                             |                                            | \$ 1             |

TOTALS

-----  
\$ 406  
-----  
\$ 482  
feed3iy

## FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: P GAIN CO EQPT = PG EQ INV + HUBMUX INV + MCE&amp;P INV.

NOTE 3: ESS CO EQPT = C.O. CONN + MCE&amp;P INV

NOTE 3: CABLE INVESTMENT IS THE SUM OF THE CABLE INV [H] + DRYER INV [J] + DROP WIRE ADJUST TO

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| LOOP COST ANALYSIS TOOL                                                                                                   |                 |                  |                                      |                                   |                                              |                  |                  |                             |                             | Bellcore <sup>®</sup> |  |
|---------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|--------------------------------------|-----------------------------------|----------------------------------------------|------------------|------------------|-----------------------------|-----------------------------|-----------------------|--|
| ANNUAL COSTS WORKSHEET                                                                                                    |                 |                  |                                      |                                   |                                              |                  |                  |                             |                             | LCAT Rel: 1.0.4       |  |
| FOR PRIMARY FEEDER PLANT                                                                                                  |                 |                  |                                      |                                   |                                              |                  |                  |                             |                             | ISSUE DATE: 7/31/95   |  |
| FACILITY TYPE: FIBER IN THE LOOP                                                                                          |                 |                  |                                      |                                   |                                              |                  |                  |                             |                             | STUDY YR: 1996        |  |
| CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.                                                                                     |                 |                  |                                      |                                   |                                              |                  |                  |                             |                             | TEST CASE: 1          |  |
| SERVICE CLASS: BAND 2 - RE SERVICE LEVEL: NARBAND                                                                         |                 |                  |                                      |                                   |                                              |                  |                  |                             |                             | LAST RUN: 27-Jan-97   |  |
|                                                                                                                           |                 |                  |                                      |                                   |                                              |                  |                  |                             |                             | TIME: 08:30           |  |
| COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                             |                 |                  |                                      |                                   |                                              |                  |                  |                             |                             |                       |  |
| 1996 UNIT LOOP INVESTMENT BY ACCOUNT<br>1996 UNIT ANNUAL COSTS BY ACCOUNT<br>1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT |                 |                  |                                      |                                   |                                              |                  |                  |                             |                             |                       |  |
| PLANT ITEM                                                                                                                | PLANT ACCT CODE | 1996 TO 1996 TPI | 1996 UNIT LOOP INVESTMENT BY ACCOUNT | 1996 UNIT ANNUAL COSTS BY ACCOUNT | 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT |                  |                  |                             |                             |                       |  |
|                                                                                                                           |                 |                  | SHARED RESOURCES fo3sixaset          | DIRECT RESOURCES fo3dixaset       | ANNUAL COST FACTOR acfstart                  | SHARED RESOURCES | DIRECT RESOURCES | SHARED RESOURCES fo3sixaset | DIRECT RESOURCES fo3dixaset |                       |  |
| [PREVIOUS SHEET SUMMARY]                                                                                                  |                 | [L]              | [M=K*L]                              | [M'=K'*L]                         | [N]                                          | [P=M*N]          | [P'=M'*N]        | [Q=P/12]                    | [Q'=P'/12]                  |                       |  |
| LAND                                                                                                                      | 20C             | 1.0000           | \$ 2                                 |                                   | 0.2232                                       | \$ 0.39          |                  | \$ 0.03                     |                             |                       |  |
| BUILDING                                                                                                                  | 10C             | 1.0000           | \$ 41                                |                                   | 0.2847                                       | \$ 11.64         |                  | \$ 0.97                     |                             |                       |  |
| BLDG ENTRANCE CABLE                                                                                                       | 12C             | 1.0000           |                                      |                                   | 0.3832                                       |                  |                  |                             |                             |                       |  |
| INTRABLDG CABLE                                                                                                           | 52C             | 1.0000           |                                      |                                   | 0.3832                                       |                  |                  |                             |                             |                       |  |
| AERIAL CABLE (COPPER)                                                                                                     | 22C             | 1.0000           |                                      |                                   | 0.3943                                       |                  |                  |                             |                             |                       |  |
| BURIED CABLE (COPPER)                                                                                                     | 45C             | 1.0000           |                                      |                                   | 0.3377                                       |                  |                  |                             |                             |                       |  |
| UNDERGROUND (CU) CA.                                                                                                      | 5C              | 1.0000           |                                      |                                   | 0.3573                                       |                  |                  |                             |                             |                       |  |
| CO EQPT - LOW CAP TERM                                                                                                    | 257C            | 1.0000           |                                      | \$ 91                             | 0.3791                                       |                  | \$ 34.50         |                             | \$ 2.88                     |                       |  |
| CO EQPT - LOW CAP CHAN                                                                                                    | 257C            | 1.0000           |                                      | \$ 247                            | 0.3791                                       |                  | \$ 93.58         |                             | \$ 7.80                     |                       |  |
| CO EQPT - HI CAP TERM                                                                                                     | 857C            | 1.0000           |                                      | \$ 22                             | 0.3791                                       |                  | \$ 8.52          |                             | \$ 0.71                     |                       |  |
| CO EQPT - HI CAP CHAN                                                                                                     | 857C            | 1.0000           |                                      | \$ 38                             | 0.3791                                       |                  | \$ 14.45         |                             | \$ 1.20                     |                       |  |
| CO EQPT - ANALOG SW                                                                                                       | 77C             | 1.0000           |                                      |                                   | 0.0000                                       |                  |                  |                             |                             |                       |  |
| CO EQPT - DIGITAL SW                                                                                                      | 377C            | 1.0000           |                                      |                                   | 0.3368                                       |                  |                  |                             |                             |                       |  |
| AERIAL CABLE (FIBER)                                                                                                      | 822C            | 1.0000           |                                      | \$ 3                              | 0.2893                                       |                  | \$ 0.79          |                             | \$ 0.07                     |                       |  |
| BURIED CABLE (FIBER)                                                                                                      | 845C            | 1.0000           |                                      |                                   | 0.2634                                       |                  |                  |                             |                             |                       |  |
| UNDERGROUND (FO) CA.                                                                                                      | 85C             | 1.0000           |                                      | \$ 3                              | 0.2599                                       |                  | \$ 0.73          |                             | \$ 0.06                     |                       |  |
| CONNECTORS                                                                                                                | 57C             | 1.0000           |                                      |                                   | 0.3791                                       |                  |                  |                             |                             |                       |  |
| MISC. COM EQP & PWR                                                                                                       | 57C             | 1.0000           | \$ 14                                |                                   | 0.3791                                       | \$ 5.20          |                  | \$ 0.43                     |                             |                       |  |
| POLE LINE                                                                                                                 | 1C              | 1.0000           |                                      | \$ 1                              | 0.3717                                       |                  | \$ 0.20          |                             | \$ 0.02                     |                       |  |
| CONDUIT                                                                                                                   | 4C              | 1.0000           |                                      | \$ 1                              | 0.2431                                       |                  | \$ 0.36          |                             | \$ 0.03                     |                       |  |
| TOTALS                                                                                                                    |                 |                  | \$ 56                                | \$ 406                            |                                              | \$ 17.23         | \$ 153.13        | \$ 1.44                     | \$ 12.76                    |                       |  |
|                                                                                                                           |                 |                  |                                      | \$ 482                            |                                              |                  | \$ 40.35         |                             | \$ 14.20                    |                       |  |
|                                                                                                                           |                 |                  |                                      | feed3sy                           |                                              |                  | feed3mrc         |                             | feed3mrc                    |                       |  |

FOOTNOTES

NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.

NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION. HOWEVER, THIS COLUMN IS PRESENTED FOR CONSISTENCY OF FORMAT ONLY.

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| LOOP COST ANALYSIS TOOL                                                 |      |       |      |      |  |  |  |  |  | Bellcore <sup>TM</sup> |          |
|-------------------------------------------------------------------------|------|-------|------|------|--|--|--|--|--|------------------------|----------|
| PROSPECTIVE INVESTMENT WORKSHEET SUMMARY                                |      |       |      |      |  |  |  |  |  | LCAT Ref: 1.0.4        |          |
| FOR PRIMARY FEEDER PLANT                                                |      |       |      |      |  |  |  |  |  | ISSUE DATE: 7/31/95    |          |
| FACILITY TYPE: FIBER IN THE LOOP                                        |      |       |      |      |  |  |  |  |  | STUDY YR: 1996         |          |
| CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.                                   |      |       |      |      |  |  |  |  |  | TEST CASE: 1           |          |
| SERVICE CLASS: BAND 2 - RESID SERVICE LEVEL: NARBAND                    |      |       |      |      |  |  |  |  |  | LAST RUN: 27-Jan-97    |          |
|                                                                         |      |       |      |      |  |  |  |  |  | TIME: 08:31            |          |
| 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT                             |      |       |      |      |  |  |  |  |  | (SEE NOTE)             |          |
|                                                                         |      |       |      |      |  |  |  |  |  | TOTAL                  |          |
|                                                                         |      |       |      |      |  |  |  |  |  | AVG WEIGHTED           |          |
|                                                                         |      |       |      |      |  |  |  |  |  | INVESTMENT             |          |
|                                                                         |      |       |      |      |  |  |  |  |  | 19283                  |          |
| data - 1483                                                             |      |       |      |      |  |  |  |  |  |                        |          |
| BAND 0                                                                  |      |       |      |      |  |  |  |  |  |                        |          |
| PLANT MIX 1.0000                                                        |      |       |      |      |  |  |  |  |  |                        |          |
| ACCT AVG. 22282                                                         |      |       |      |      |  |  |  |  |  |                        |          |
| CODE LGTH 19283                                                         |      |       |      |      |  |  |  |  |  |                        |          |
| SEG LGTH.                                                               |      |       |      |      |  |  |  |  |  |                        |          |
| SHARED RESOURCES                                                        |      |       |      |      |  |  |  |  |  |                        |          |
| LAND                                                                    | 20C  |       |      |      |  |  |  |  |  |                        | \$ 0.03  |
| BUILDING                                                                | 10C  |       |      |      |  |  |  |  |  |                        | \$ 0.97  |
| BLDG ENTRANCE CABLE                                                     | 12C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| INTRABLDG CABLE                                                         | 52C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| AERIAL CABLE (COPPER)                                                   | 22C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| BURIED CABLE (COPPER)                                                   | 45C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| UNDERGROUND (CU) CA.                                                    | 5C   |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| CO EQPT - LOW CAP TERM                                                  | 257C |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| CO EQPT - LOW CAP CHAN                                                  | 257C |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| CO EQPT - HI CAP TERM                                                   | 857C |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| CO EQPT - HI CAP CHAN                                                   | 857C |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| CO EQPT - ANALOG SW                                                     | 77C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| CO EQPT - DIGITAL SW                                                    | 377C |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| AERIAL CABLE (FIBER)                                                    | 822C |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| BURIED CABLE (FIBER)                                                    | 845C |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| UNDERGROUND (FO) CA.                                                    | 85C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| CONNECTORS                                                              | 57C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| MISC. COM EQP & PWR                                                     | 57C  |       |      |      |  |  |  |  |  |                        | \$ 0.43  |
| POLE LINE                                                               | 1C   |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| CONDUIT                                                                 | 4C   |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| DIRECT RESOURCES                                                        |      |       |      |      |  |  |  |  |  |                        |          |
| LAND                                                                    | 20C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| BUILDING                                                                | 10C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| BLDG ENTRANCE CABLE                                                     | 12C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| INTRABLDG CABLE                                                         | 52C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| AERIAL CABLE (COPPER)                                                   | 22C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| BURIED CABLE (COPPER)                                                   | 45C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| UNDERGROUND (CU) CA.                                                    | 5C   |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| CO EQPT - LOW CAP TERM                                                  | 257C |       |      |      |  |  |  |  |  |                        | \$ 2.88  |
| CO EQPT - LOW CAP CHAN                                                  | 257C |       |      |      |  |  |  |  |  |                        | \$ 7.80  |
| CO EQPT - HI CAP TERM                                                   | 857C |       |      |      |  |  |  |  |  |                        | \$ 0.71  |
| CO EQPT - HI CAP CHAN                                                   | 857C |       |      |      |  |  |  |  |  |                        | \$ 1.20  |
| CO EQPT - ANALOG SW                                                     | 77C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| CO EQPT - DIGITAL SW                                                    | 377C |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| AERIAL CABLE (FIBER)                                                    | 822C |       |      |      |  |  |  |  |  |                        | \$ 0.07  |
| BURIED CABLE (FIBER)                                                    | 845C |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| UNDERGROUND (FO) CA.                                                    | 85C  |       |      |      |  |  |  |  |  |                        | \$ 0.06  |
| CONNECTORS                                                              | 57C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| MISC. COM EQP & PWR                                                     | 57C  |       |      |      |  |  |  |  |  |                        | \$ 0.00  |
| POLE LINE                                                               | 1C   |       |      |      |  |  |  |  |  |                        | \$ 0.02  |
| CONDUIT                                                                 | 4C   |       |      |      |  |  |  |  |  |                        | \$ 0.03  |
| SPAN SUMMARY                                                            |      | 14.20 | 0.00 | 0.00 |  |  |  |  |  |                        | \$ 14.20 |
| AVG. WTD. SPAN SUMMARY                                                  |      | 14.20 | 0.00 | 0.00 |  |  |  |  |  |                        |          |
| NOTE: [sum(INV <sub>ACCT</sub> <sup>BAND</sup> * MIX <sup>BAND</sup> )] |      |       |      |      |  |  |  |  |  |                        |          |

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C:\123R24\LCATR073 COSTMETH

## LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH  
SHEET 1 of 2COST METHODS ASSIGNMENT TABLE  
DISTRIBUTION SEGMENTCOMPANY: CINCINNATI BELL TEL  
STATE: OHIO

SWITCHED SERVICES

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1995

TEST CASE: 1

LAST UPDATE: 09-Dec-95

TIME: 08:46

| PLANT ITEM              | LCAT CODE | PLANT CODE | WHEN BANDWIDTH DELIVERY IS |                     |                   |                     |                    |                     |
|-------------------------|-----------|------------|----------------------------|---------------------|-------------------|---------------------|--------------------|---------------------|
|                         |           |            | NARROWBAND CATEGORY        |                     | WIDEBAND CATEGORY |                     | BROADBAND CATEGORY |                     |
|                         |           |            | SENS. INDEX                | RESOURCE ASSIGNMENT | SENS. INDEX       | RESOURCE ASSIGNMENT | SENS. INDEX        | RESOURCE ASSIGNMENT |
| LAND                    | LAND      | 20C        | F                          | SHARED              | F                 | SHARED              | F                  | SHARED              |
| BUILDING                | BLDG      | 10C        | F                          | SHARED              | F                 | SHARED              | F                  | SHARED              |
| BLDG ENTRANCE CABLE     | BEC       | 12C        | V                          | DIRECT              | V                 | DIRECT              | V                  | DIRECT              |
| INTRABLDG CABLE         | IBC       | 52C        | V                          | DIRECT              | V                 | DIRECT              | V                  | DIRECT              |
| AERIAL CABLE (COPPER) ① | ACU       | 22C        | V                          | DIRECT              | V                 | DIRECT              | V                  | DIRECT              |
| BURIED CABLE (COPPER) ① | BCU       | 45C        | V                          | DIRECT              | V                 | DIRECT              | V                  | DIRECT              |
| UNDERGROUND (CU) CA. ①  | UCU       | 5C         | V                          | DIRECT              | V                 | DIRECT              | V                  | DIRECT              |
| CO EQPT - LOW CAP TERM  | DLCT      | 257C       | F                          | DIRECT              | V                 | DIRECT              | V                  | DIRECT              |
| CO EQPT - LOW CAP CHAN  | DLCC      | 257C       | V                          | DIRECT              | V                 | DIRECT              | V                  | DIRECT              |
| CO EQPT - HI CAP TERM   | MUXT      | 857C       | F                          | DIRECT              | F                 | DIRECT              | F                  | DIRECT              |
| CO EQPT - HI CAP CHAN   | MUXC      | 857C       | F                          | DIRECT              | F                 | DIRECT              | V                  | DIRECT              |
| CO EQPT - ANALOG SW     | ACOE      | 77C        | V                          | DIRECT              | V                 | DIRECT              | V                  | DIRECT              |
| CO EQPT - DIGITAL SW    | DCOE      | 377C       | V                          | DIRECT              | V                 | DIRECT              | V                  | DIRECT              |
| AERIAL CABLE (FIBER)    | AFO       | 822C       | F                          | DIRECT              | F                 | DIRECT              | F                  | DIRECT              |
| BURIED CABLE (FIBER)    | BFO       | 845C       | F                          | DIRECT              | F                 | DIRECT              | F                  | DIRECT              |
| UNDERGROUND (FO) CA.    | UFO       | 85C        | F                          | DIRECT              | F                 | DIRECT              | F                  | DIRECT              |
| CONNECTORS              | CONN      | 57C        | V                          | DIRECT              | V                 | DIRECT              | V                  | DIRECT              |
| MISC. COM EQP & PWR     | MCEP      | 57C        | V                          | SHARED              | V                 | SHARED              | V                  | SHARED              |
| POLE LINE               | POLE      | 1C         | F                          | DIRECT              | F                 | DIRECT              | F                  | DIRECT              |
| CONDUIT                 | COND      | 4C         | F                          | DIRECT              | F                 | DIRECT              | F                  | DIRECT              |

## FOOTNOTES

- ① THESE ASSIGNMENTS APPLY TO DEDICATED COPPER - PAIRS (NON-MULTIPEXED) FEEDER & DISTRIBUTION BY DEFINITION: ITEMS LABELED F(ixed) OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY  
ITEMS LABELED F(ixed) ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES  
ALL ITEMS ARE INCLUDED IN A PROSPECTIVE REPLACEMENT OR NEW INSTALLATION

C:\123R24\LCATR073\COSTMETH  
TABLE - COST\_METH  
Sheet 1 of 2

HELP SCREEN**Bellcore** (R)

LCAT Rel : 1.0.4

Issued : 07/31/95

| <u>Field / Group Title</u> | <u>Valid Inputs</u>    | <u>This field or grouping defines -</u>                                                                                                                                                                                                                                                                                            |
|----------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SERVICES                   | (none)                 | The system matrix for DISTRIBUTION cost methodology for -<br>The User selected Service Category - SWITCHED or PRIVATE LINE.                                                                                                                                                                                                        |
| LCAT CODE                  | (none)                 | The system key code for this cost component                                                                                                                                                                                                                                                                                        |
| PLANT CODE                 | Any 5 (max) char. code | The User cross-reference code for the cost component or component group. Examples are "field" codes, sub-accounts.                                                                                                                                                                                                                 |
| DELIVERY                   | (none)                 | The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 -<br>Narrowband - denotes voice grade and sub-voice grade band width.<br>Wideband - denotes bandwidths of the first level of digital hierarchy.<br>Broadband - denotes bandwidths of the higher levels of digital hierarchy |
| CATEGORY                   | (none)                 | The group of Methodology Categories                                                                                                                                                                                                                                                                                                |
| SENSITIVITY INDEX          | F, V                   | The Volatility Index to Distance or Demand Sensitivity -<br>F for Fixed Value, Low sensitivity to Distance or Demand.<br>V for Variable Usage, Cost Sensitive to Distance or Demand.<br>S for Sunk Investment which only has an Annual Component                                                                                   |
| RESOURCE ASSIGNMENT        | SHARED, DIRECT         | The Assigned Category of Circuit Function -<br>DIRECT for Dedicated or Circuit Specific Investment<br>SHARED - for Multi-Circuit or Non-Specific Investment                                                                                                                                                                        |

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*  
\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION \*\*\*\*\*

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CA123R24\LCATR073\COSTMETH

## LOOP COST ANALYSIS TOOL

BellCore®

TABLE - COST\_METH  
SHEET 2 of 2COST METHODS ASSIGNMENT TABLE  
FEEDER SEGMENT

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 09-Dec-96

TIME: 08:46

COMPANY: CINCINNATI BELL TEL.  
STATE: OHIO

SWITCHED SERVICES

| PLANT ITEM              | WHEN BANDWIDTH DELIVERY IS |             |          |             |           |             |            |
|-------------------------|----------------------------|-------------|----------|-------------|-----------|-------------|------------|
|                         | NARROWBAND                 |             | WIDEBAND |             | BROADBAND |             |            |
|                         | CATEGORY                   | SENS. INDEX | CATEGORY | SENS. INDEX | CATEGORY  | SENS. INDEX | ASSIGNMENT |
| LAND                    | 20C                        | F           | SHARED   | F           | SHARED    | F           | SHARED     |
| BUILDING                | 10C                        | F           | SHARED   | F           | SHARED    | F           | SHARED     |
| BLDG ENTRANCE CABLE     |                            |             |          |             |           |             |            |
| INTRABLDG CABLE         |                            |             |          |             |           |             |            |
| AERIAL CABLE (COPPER) ① | 22C                        | V           | DIRECT   | V           | DIRECT    | V           | DIRECT     |
| BURIED CABLE (COPPER) ① | 45C                        | V           | DIRECT   | V           | DIRECT    | V           | DIRECT     |
| UNDERGROUND (CU) CA. ①  | 5C                         | V           | DIRECT   | V           | DIRECT    | V           | DIRECT     |
| CO EQPT - LOW CAP TERM  | 257C                       | F           | DIRECT   | V           | DIRECT    | V           | DIRECT     |
| CO EQPT - LOW CAP CHAN  | 257C                       | V           | DIRECT   | V           | DIRECT    | V           | DIRECT     |
| CO EQPT - HI CAP TERM   | 857C                       | F           | DIRECT   | F           | DIRECT    | F           | DIRECT     |
| CO EQPT - HI CAP CHAN   | 857C                       | F           | DIRECT   | F           | DIRECT    | V           | DIRECT     |
| CO EQPT - ANALOG SW     | 77C                        | V           | DIRECT   | V           | DIRECT    | V           | DIRECT     |
| CO EQPT - DIGITAL SW    | 377C                       | V           | DIRECT   | V           | DIRECT    | V           | DIRECT     |
| AERIAL CABLE (FIBER)    | 822C                       | F           | DIRECT   | F           | DIRECT    | F           | DIRECT     |
| BURIED CABLE (FIBER)    | 845C                       | F           | DIRECT   | F           | DIRECT    | F           | DIRECT     |
| UNDERGROUND (FO) CA.    | 85C                        | F           | DIRECT   | F           | DIRECT    | F           | DIRECT     |
| CONNECTORS              | 57C                        | V           | DIRECT   | V           | DIRECT    | V           | DIRECT     |
| MISC. COM EQP & PWR     | 57C                        | V           | SHARED   | V           | SHARED    | V           | SHARED     |
| POLE LINE               | 1C                         | F           | DIRECT   | F           | DIRECT    | F           | DIRECT     |
| CONDUIT                 | 4C                         | F           | DIRECT   | F           | DIRECT    | F           | DIRECT     |

## FOOTNOTES

- ① THESE ASSIGNMENTS APPLY TO MULTIPLEXED COPPER FEEDER PAIRS, ONLY.  
 BY DEFINITION: ITEMS LABELED ~~F(xed)~~ OR SHARED ARE EXCLUDED IN A MARGINAL COST STUDY.  
 ITEMS LABELED ~~F(xed)~~ ARE EXCLUDED FROM ADDITIONS IN INCREMENTAL STUDIES.  
 ALL ITEMS ARE INCLUDED IN A PROSPECTIVE, REPLACEMENT OR NEW INSTALLATION.

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TABLE - COST\_METH

Sheet 2 of 2

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Issued : 07/31/95

| <u>Field / Group Title</u> | <u>Valid Inputs</u> | <u>This field or grouping defines -</u>                                                                                                                                                                                                                                                                                             |
|----------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SERVICES                   | (none)              | The system matrix for FEEDER cost methodology for -<br>The User selected Service Category - SWITCHED or PRIVATE LINE.                                                                                                                                                                                                               |
| LCAT CODE                  | (none)              | The system key code for this cost component                                                                                                                                                                                                                                                                                         |
| PLANT CODE                 | (none)              | The User nominated cross-reference code for the cost component or component group from the previous screen.                                                                                                                                                                                                                         |
| DELIVERY                   | (none)              | The Service Delivery Bandwidth Capacity for each group of methodology categories. The system defines 3 -<br>Narrowband - denotes voice grade and sub-voice grade band width.<br>Wideband - denotes bandwidths of the first level of digital hierarchy.<br>Broadband - denotes bandwidths of the higher levels of digital hierarchy. |
| CATEGORY                   | (none)              | The group of Methodology Categories                                                                                                                                                                                                                                                                                                 |
| SENSITIVITY INDEX          | F, V                | The Volatility Index to Distance or Demand Sensitivity -<br>F for Fixed Value, Low sensitivity to Distance or Demand.<br>V for Variable Usage, Cost Sensitive to Distance or Demand.<br>S for Sunk Investment which only has an Annual Component.                                                                                   |
| RESOURCE ASSIGNMENT        | SHARED, DIRECT      | The Assigned Category of Circuit Function -<br>DIRECT for Dedicated or Circuit Specific Investment.<br>SHARED - for Multi-Circuit or Non-Specific Investment.                                                                                                                                                                       |

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*  
 \*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION \*\*\*\*\*

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| CA123R24LCATR073:CRITERIA                              |  | LOOP COST ANALYSIS TOOL                                                           |                       | Bellcore <sup>®</sup>                       |  |
|--------------------------------------------------------|--|-----------------------------------------------------------------------------------|-----------------------|---------------------------------------------|--|
| INPUT - STUDY SETUP                                    |  | GENERAL STUDY REQUIREMENTS                                                        |                       | TODAY IS : 27-Jan-97                        |  |
| LCAT Rel. : 1.0.4                                      |  |                                                                                   |                       | LAST UPDATE:                                |  |
| Issue Date : 3/31/95                                   |  |                                                                                   |                       | 09-Dec-96 08:47 AM                          |  |
| STUDY NAME                                             |  | 1996 BAND 2 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 14001 FEET -- INFINITY INTRAST/ |                       |                                             |  |
| COMMENTS                                               |  |                                                                                   |                       |                                             |  |
|                                                        |  |                                                                                   |                       |                                             |  |
|                                                        |  |                                                                                   |                       |                                             |  |
| SERVICE CLASS                                          |  | BAND 2 - RESIDENCE LINE                                                           | STUDY BASIS           | <input checked="" type="checkbox"/> NETWORK |  |
|                                                        |  |                                                                                   |                       | <input type="checkbox"/> INDIVIDUAL         |  |
| COMPANY                                                |  | CINCINNATI BELL TEL.                                                              | INVESTMENT YEAR       | 1996                                        |  |
| STATE / PROVINCE                                       |  | OHIO                                                                              | LOOP CHAR. STUDY YEAR | 1996                                        |  |
| CITY / AREA                                            |  | CINCINNATI                                                                        | STUDY YEAR            | 1996                                        |  |
| DENSITY CELL MIX                                       |  | 0 100 0 0                                                                         | TEST CASE             | 1                                           |  |
|                                                        |  | VH HI MED LO                                                                      |                       |                                             |  |
| DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY: |  |                                                                                   |                       |                                             |  |
| Type Percent Mix :                                     |  |                                                                                   |                       |                                             |  |
| 100 FIBER IN THE LOOP                                  |  |                                                                                   |                       |                                             |  |
| 0 COPPER DIG LOOP CXR                                  |  |                                                                                   |                       |                                             |  |

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INPUT - STUDY SETUP  
Sheet 1 of 2

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ISSUED: 3/31/96

**THIS DISPLAY** This display's data and the data on the subsequent display are a record of this study's criteria and the system's parameters and is the TITLE PAGE of this study. Printouts should accompany the input, worksheets, and results.

**STUDY NAME** Enter in Free Form up to 35 Characters for a Study Title. This data will be inserted in the title box of the title display of each run module.

**COMMENTS** Enter in Free Form (as in a Word Processor) FOUR lines (Word Wrap is active) of Commentary that will help Explain the study criteria and rationale. The space will allow approximately 72 proportionately spaced characters per line, 288 total. To begin just start typing in the data after <Enter>ing the previous item. The character guide will appear after the first character is entered. Data can be edited in the normal WP manner, using the <BS>, <Del>, <Up>, <Dn>, etc... keys. PRESS THE < Enter > KEY TO STOP INPUTTING DATA.

**STUDY BASIS** Select with an "X" either an average NETWORK study or an INDIVIDUAL CASE study.

**FACILITY TYPE** Select by entering the percent of technology mix, the Facility types in the loop network that support the service/s/ under study or enter an "X" to denote inclusion.

**CELL DENSITY** Select by entering the percent of cell density mix, based upon the scope of the jurisdiction and the definitions of the cell layers: C1, C2, C3, C4; which represent the VERY HIGH, HIGH, MEDIUM, LOW qualifiers, such as, METRO, URBAN, SUBURBAN, and RURAL.

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| C:\123R24\LCATR073\CRITERIA                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                 |  | Bellcore <sup>®</sup>                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|
| <b>INPUT - STUDY SETUP</b><br>SHEET 2 / 2<br><br>COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>GENERAL STUDY REQUIREMENTS</b><br><b>STUDY QUESTIONS</b><br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |  | LCAT Rel. 1.0.4<br>ISSUED: 3/31/95<br>STUDY YEAR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-95<br>TIME: 08:47 AM |
| <b>SELECTED QUESTIONS</b>                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                |  |                                                                                                                    |
| <b>CONCERNING - SERVICE SPEC.</b>                                                                                               | 1. Is this Study for a NEW Installation or an ADDITION ? .....<br>2. Is this Study for a SWITCHED or PRIVATE LINE Service ? .....<br>3. Is this Study for Narrow, Wide, or Broadband Services .....<br>4. Is this Study for 2 Wire or 4 Wire Transmission ? .....                                                                                                                                                                                                                                                                     |                                                                                                                                                                |  |                                                                                                                    |
| <b>OFFICE CHAR.</b>                                                                                                             | 5. What Percent of the C.O. Switch Installations are DIGITAL Switches? .....<br>6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? .....<br>7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? .....<br>8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ? .....                                                                                                                                                                                                                     |                                                                                                                                                                |  |                                                                                                                    |
| <b>RESULTS SPEC.</b>                                                                                                            | 9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? .....<br>9a. If Distance Sensitive, what band increment do you want ? .....<br>10. How many Cost Bands in this study ? .....<br>11. Should this Study result in Investment, Cost, or All values ? .....<br>12. Is this study for Total Incremental or Marginal Costs ? .....<br>13. How many circuits (loops) in this Study ? .....<br>14. The study classification is ..... (e.g., RATES PLAN, TEST DATA, NEW SERVICE)<br>Required for the "Footer" of each Report page. |                                                                                                                                                                |  |                                                                                                                    |

**VALID RESPONSE**

|           |          |
|-----------|----------|
| SET       |          |
| N or A    | NEW      |
| S or P    | SWITCHED |
| N, W or B | NARBAND  |
| 2 or 4    | 2        |

  

|             |            |
|-------------|------------|
| 0 → 100     | 100        |
| 0 → 100     | 0          |
| 0 → 100     |            |
| e.g., 12000 | 14000 Feet |

  

|         |            |
|---------|------------|
| For D   | FLAT RATE  |
| 1,2,3,4 |            |
| 0 → 5   | 0          |
| N or A  | COST       |
| T or M  | TOT INCR   |
| 0 → 999 | 1          |
|         | RATES PLAN |

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INPUT - STUDY SETUP

LCAT Rel. 1.0.4  
ISSUED: 3/31/95

1. Specify **N** for New Installations or **A** for Addition to existing installations are being studied.
2. Specify **S** for the Switched Services or **P** for the Private Line (Special) Service category.
3. Specify **N** for Narrowband (DS0), **W** for Wideband (DS1), or **B** for Broadband Services category.
4. Specify as **2** for 2-wire or **4** for 4-wire, the circuit transmission paths used by the service/s/ being studied.
5. Specify Digital Switch Mix as a Percentage of Installations over Analog in the Jurisdiction.
6. & 7. Specify Integrated DLC Mix as a Percentage of the DLC equipment requirements.  
Using 6. for Switched Services or Using 7. for Special (Private Line) Services.
8. Enter in feet, the loop length beyond which only Digital Loop Carrier Technology will be considered
9. Specify **F** for Flat Rate Loop or **D** for Distance Sensitive Bands, for the Cost Structure of the study
- 9A. Enter **1**, **2**, **3**, or **4** to specify either 1/4, 1/2, 3/4, or 1 mile, respectively, band increments in a Distance Sensitive Study
10. Specify the quantity of Cost Bands of Loop Lengths will be studied, for upto a maximum of 5 bands.  
Enter **0** for Network Averaged (non-Banded) Input or Individual Circuit Flat Rate Cost Studies.
11. Specify **I** for Investment Only results or **C** for resultant Annual and Monthly Recurring Costs or **A** for All values.
12. Specify **T** for Total Incremental or **M** for Marginal (Direct Incremental) Average Weighted Costs Study.
13. Enter the quantity of loop circuits that will be the demand basis of this cost study.  
Nominally, entering 1 provides a "UNIT" cost and any other value, a "TOTAL" cost

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|                                                                                                                             |  |                                                                                                                                                   |  |                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------|
| C:\123R24\LCATR073\DESIGN                                                                                                   |  | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                    |  | <b>Bellcore</b>                                                                                                 |
| INPUT - LOOP_DESIGN<br>Sheet 1 / 1<br><br>COMPANY : CINCINNATI BELL TEL.<br>CITY / AREA : CINCINNATI<br>STATE / PROV : OHIO |  | CIRCUIT DESIGN REQUIREMENTS<br>CHARACTERISTICS<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |  | LCAT Rel: 1.0.4<br>Issued : 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-96<br>TIME: 08:49 |

  

**CIRCUIT DESIGN**

Study Parameters:

Study Basis: NETWORK STUDY      Service Level: NARBAND      Loop Topology: STAR

**CIRCUIT DESIGN REQUIREMENTS -**  
**SELECTION & DISTRIBUTION:**

**CIRCUIT LAYOUT REQUIREMENTS -**  
**FOR FIBER HUBS & FEEDER EXTENSIONS**  
 (FIBER HUB TO REMOTE TERMINAL LINK)

**FACILITY INTERFACE SITES :**  
 Proportion of Fiber Circuits  
 WITHOUT Fiber Hubs 0.0000

**FACILITY TECHNOLOGIES:**  
 Of the Hubbed Circuits -  
 Proportion of links on Fiber Tech. 0.0000

Proportion of links on CDLC / MAR 0.0000

Note

**FOR FIBER DLC DESIGNS:**

|                        |           |
|------------------------|-----------|
| Weighting of Design #1 | 0.0000    |
| Weighting of Design #2 | 0.0000    |
| Weighting of Design #3 | 1.0000    |
| Weighting of Design #4 | NA 0.0000 |
| Weighting of Design #5 | NA 0.0000 |
| Weighting of Design #6 | NA 0.0000 |
|                        | 1.0000    |

ChkSum

**FOR SERVICE ACCESS NETWORK**  
 (REMOTE TERMINAL TO CUSTOMER LINK)

**FACILITY INTERFACE SITES :**  
 Proportion of Remote terminals  
 colocated at Customer Premises 0.0000

**FOR COPPER DLC DESIGNS:**

|                        |           |
|------------------------|-----------|
| Weighting of Design #1 | 1.0000    |
| Weighting of Design #2 | NA 0.0000 |
|                        | 1.0000    |

ChkSum

NA DENOTES THAT THE CIRCUIT DESIGN  
 PROBABLY DOES NOT APPLY TO THIS  
 SET OF STUDY PARAMETERS.

C:\123R24\LCATR073\DESIGN

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INPUT - LOOP\_DESIGN

LCAT Rel :1.0.4

Sheet 1 of 1

Issued :07/31/95

**DIGITAL LOOP  
CARRIER  
DESIGNS**

Each Loop's circuit layout is broken down into potentially the FEEDER, the DISTRIBUTION, and the DROP segment. The FEEDER segment can have THREE Spans, the PRIMARY and EXTENSION are realtime, but, the SUBFEEDER is a "filler" for spans or distances under PAIR GAIN Deployment and will be employed using engineering rules and network characteristics. The potential Fiber Optic DLC and Copper DLC circuit layouts have been categorized into several generic designs for purposes of narrowing down the complexity of the network contribution. The *DESIGN's* represent unique combinations of layers (COLLOCATION) and the transport media. There is a chart of these *DESIGN's* included in the DATA CATALOG and the METHODOLOGY sections of the User Guide.

**COLLOCATIONS**

To be defined as the combining of Loop functions at the same location, excluding the need for translation of the transport function (eliminating the OSP and termination equipment). Note that the sum of the probabilities do not have to equal total universe, therefore, the proportions are a function of the total serving universe (total loop network).

**FIBER HUBS &  
FEEDER  
EXTENSIONS**

These values represent the proportion of each technology used in the layouts which DO NOT have collocated FIBER HUB and REMOTE TERMINAL functions.

**WARNING** → This function must be in place for "RING" topologies as 100% FIBER, therefore, the *DESIGN* choices are limited for RING to *DESIGN's* 1 and 5. All other *DESIGN* are to be avoided.

**SERVICE  
SPECIFIC**

To avoid circuit layout conflict with certain service levels, the input choices will be limited for BROADBAND service levels to those which currently support DS3 Xconn at both ends. Currently, that is, *DESIGN* 4, 5, & 6.

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| CA123R24\LCATR073\FACILITY                                                                                                          |  | <b>LOOP COST ANALYSIS TOOL</b>          |  | <b>Bellcore</b>                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------|--|-------------------------------------|--|
| TABLE - SPAN_INV<br>SHEET 1 / 4                                                                                                     |  | LOOP FACILITY INPUT<br>FIBER CABLE DATA |  | LCAT Rel: 1.0.4<br>Issued: 07/31/95 |  |
| COMPANY: CINCINNATI BELL TEL.                                                                                                       |  | FOR                                     |  | STUDY YR: 1996                      |  |
| CITY/AREA: CINCINNATI                                                                                                               |  | INVESTMENT YEAR: 1996                   |  | TEST CASE: 1                        |  |
| STATE/PROV: OHIO                                                                                                                    |  | LOOP STUDY YEAR: 1996                   |  | LAST UPDATE: 09-Dec-96              |  |
|                                                                                                                                     |  | SERVICE CLASS: BAND 2 - RESIDENCE LINE  |  | TIME: 08:51                         |  |
| <b>FIBER CABLE INVESTMENT AND CHARACTERISTICS</b>                                                                                   |  |                                         |  |                                     |  |
|                                                                                                                                     |  | <b>FOR FEEDER SEGMENTS</b>              |  | <b>FOR DISTRIBUTION SEGMENTS</b>    |  |
| <b>CABLE TYPE MIX (DISTRIBUTION TO CODE) :</b>                                                                                      |  |                                         |  |                                     |  |
| Proportion of FIBER cable installations that are ....                                                                               |  |                                         |  |                                     |  |
| AERIAL                                                                                                                              |  | 0.4800                                  |  | 0.0000 factors                      |  |
| BURIED                                                                                                                              |  | 0.0000                                  |  | 0.0000 factors                      |  |
| UNDGRD                                                                                                                              |  | 0.5200                                  |  | 0.0000 factors                      |  |
| <b>INVESTMENT PER CABLE PAIR FOOT</b>                                                                                               |  |                                         |  |                                     |  |
| <b>BY CABLE TYPE :</b>                                                                                                              |  |                                         |  |                                     |  |
| Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y/N) <span style="float: right;">N [Required with INDIVIDUAL Mode]</span> |  |                                         |  |                                     |  |
| If not, Update Unit Averages as Follows :                                                                                           |  |                                         |  |                                     |  |
| <b>PRIMARY SEGMENT</b>                                                                                                              |  |                                         |  |                                     |  |
| Average Unit Investment for FIBER cable, Installed as ....                                                                          |  |                                         |  |                                     |  |
| AERIAL                                                                                                                              |  | \$ 0.1930                               |  | per fiber pair Foot                 |  |
| BURIED                                                                                                                              |  | \$ 0.2694                               |  | per fiber pair Foot                 |  |
| UNDGRD                                                                                                                              |  | \$ 0.1822                               |  | per fiber pair Foot                 |  |
|                                                                                                                                     |  | to Fiber Hub                            |  |                                     |  |
| <b>FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT</b>                                                                          |  |                                         |  |                                     |  |
| Average Unit Investment for FIBER cable, Installed as ....                                                                          |  |                                         |  |                                     |  |
| AERIAL                                                                                                                              |  | \$ 0.1930                               |  | \$ 0.0000 per fiber pair Foot       |  |
| BURIED                                                                                                                              |  | \$ 0.2694                               |  | \$ 0.0000 per fiber pair Foot       |  |
| UNDGRD                                                                                                                              |  | \$ 0.1827                               |  | \$ 0.0000 per fiber pair Foot       |  |
|                                                                                                                                     |  | (Fiber Hub to Remote Terminal)          |  | (Remote Terminal to Service Point)  |  |

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| CA123R24 LCATR073 FACILITY                                                                                              |             | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                      |                                                                   |        |        | Bellcore                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------|--------|----------------------------------------------------------------------------------------------------------------|
| TABLE - SPAN INV<br>SHEET 'A' / 4<br><br>COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |             | LOOP FACILITY INPUT<br>FIBER CABLE DATA - BY CABLE SHEATH DETAIL<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |                                                                   |        |        | LCAT Ver: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-96<br>TIME: 08:51 |
| <b>FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE</b>                                                                     |             |                                                                                                                                                                     |                                                                   |        |        |                                                                                                                |
| Cable Sheath Sizes                                                                                                      |             | CAPACITY                                                                                                                                                            | Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size |        |        |                                                                                                                |
|                                                                                                                         |             |                                                                                                                                                                     | INDEX                                                             | AERIAL | BURIED | UNDERGROUND                                                                                                    |
| 4                                                                                                                       | Fiber Cable | 2 pr                                                                                                                                                                | \$                                                                |        | \$     | \$                                                                                                             |
| 6                                                                                                                       | Fiber Cable | 3 pr                                                                                                                                                                | \$                                                                |        | \$     | \$                                                                                                             |
| 12                                                                                                                      | Fiber Cable | 6 pr                                                                                                                                                                | \$                                                                |        | \$     | \$                                                                                                             |
| 18                                                                                                                      | Fiber Cable | 9 pr                                                                                                                                                                | \$                                                                |        | \$     | \$                                                                                                             |
| 24                                                                                                                      | Fiber Cable | 12 pr                                                                                                                                                               | \$                                                                |        | \$     | \$                                                                                                             |
| 36                                                                                                                      | Fiber Cable | 18 pr                                                                                                                                                               | \$                                                                |        | \$     | \$                                                                                                             |
| 48                                                                                                                      | Fiber Cable | 24 pr                                                                                                                                                               | \$                                                                |        | \$     | \$                                                                                                             |
| 60                                                                                                                      | Fiber Cable | 30 pr                                                                                                                                                               | \$                                                                |        | \$     | \$                                                                                                             |
| 72                                                                                                                      | Fiber Cable | 36 pr                                                                                                                                                               | \$                                                                |        | \$     | \$                                                                                                             |
| 84                                                                                                                      | Fiber Cable | 42 pr                                                                                                                                                               | \$                                                                |        | \$     | \$                                                                                                             |
| 96                                                                                                                      | Fiber Cable | 48 pr                                                                                                                                                               | \$                                                                |        | \$     | \$                                                                                                             |
| 144                                                                                                                     | Fiber Cable | 72 pr                                                                                                                                                               | \$                                                                |        | \$     | \$                                                                                                             |
| 192                                                                                                                     | Fiber Cable | 96 pr                                                                                                                                                               | \$                                                                |        | \$     | \$                                                                                                             |
| 216                                                                                                                     | Fiber Cable | 108 pr                                                                                                                                                              | \$                                                                |        | \$     | \$                                                                                                             |

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C:\123R24\LCATR073 FACILITY  
TABLE - SPAN\_INV  
SHEET 1 / 4

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Issued: 07/31/95

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*

\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION \*\*\*\*\*

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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| C:\123R24\LCATR073\FACILITY                                                                                                                                                                                                         |         | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                       |                                                                                                                                                                                                                               |  | Bellcore <sup>®</sup>                                                                                          |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------|--------------|--|--|---------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--------|--------------|--|--|---------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|
| TABLE - SPAN_INV<br>SHEET 2 / 4<br><br>COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                                                                               |         | LOOP FACILITY INPUT<br>COPPER CABLE DATA<br>FOR<br>INVESTMENT YEAR: 1995<br>LOOP STUDY YEAR: 1995<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                                               |  | LCAT Rel: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1995<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-96<br>TIME: 08:51 |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
| <b>COPPER CABLE CHARACTERISTICS AND INVESTMENTS</b>                                                                                                                                                                                 |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
| <b>Cable Gauge Mix :</b> <u>GAUGE</u><br><br>The Proportion of<br>Copper Cable that is ....                                                                                                                                         |         | <u>FEEDER</u><br><u>SEGMENT</u>                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u>DISTRIBUTION</u><br><u>SEGMENT</u> | <b>Unit Investment per Cable Pair Foot</b><br><b>By Cable Type, By Cable Gauge :</b><br><br>Update Cable Sheath Prices    (Required with INDIVIDUAL Mode)<br>on the FULL SET Input SHEET ? (Y / N) <u>N</u><br>If not, Update |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
| <b>Cable Type Mix, By Gauge :</b><br><br>The Proportion of<br>Copper Cable that is ....                                                                                                                                             |         | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th></th> <th>FEEDER</th> <th>DISTRIBUTION</th> </tr> <tr> <th></th> <th></th> <th>SEGMENT</th> <th>SEGMENT</th> </tr> </thead> <tbody> <tr> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>0.1500</td> <td>0.1500</td> </tr> <tr> <td>BURIED</td> <td>0.8500</td> <td>0.8500</td> </tr> <tr> <td>UNDGRND</td> <td>0.0000</td> <td>0.0000</td> </tr> </tbody> </table> |                                       |                                                                                                                                                                                                                               |  | FEEDER                                                                                                         | DISTRIBUTION |  |  | SEGMENT | SEGMENT | 26 GA. | AERIAL | 0.1500 | 0.1500 | BURIED | 0.8500 | 0.8500 | UNDGRND | 0.0000 | 0.0000 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th></th> <th>FEEDER</th> <th>DISTRIBUTION</th> </tr> <tr> <th></th> <th></th> <th>SEGMENT</th> <th>SEGMENT</th> </tr> </thead> <tbody> <tr> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>0.2900</td> <td>0.6200</td> </tr> <tr> <td>BURIED</td> <td>0.0200</td> <td>0.3300</td> </tr> <tr> <td>UNDGRND</td> <td>0.6900</td> <td>0.0500</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>0.2900</td> <td>0.6200</td> </tr> <tr> <td>BURIED</td> <td>0.0200</td> <td>0.3300</td> </tr> <tr> <td>UNDGRND</td> <td>0.6900</td> <td>0.0500</td> </tr> <tr> <td rowspan="3">22 GA.</td> <td>AERIAL</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>UNDGRND</td> <td>0.0000</td> <td>0.0000</td> </tr> </tbody> </table> |  |  |  |  |  | FEEDER | DISTRIBUTION |  |  | SEGMENT | SEGMENT | 26 GA. | AERIAL | 0.2900 | 0.6200 | BURIED | 0.0200 | 0.3300 | UNDGRND | 0.6900 | 0.0500 | 24 GA. | AERIAL | 0.2900 | 0.6200 | BURIED | 0.0200 | 0.3300 | UNDGRND | 0.6900 | 0.0500 | 22 GA. | AERIAL | 0.0000 | 0.0000 | BURIED | 0.0000 | 0.0000 | UNDGRND | 0.0000 | 0.0000 |
|                                                                                                                                                                                                                                     |         | FEEDER                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DISTRIBUTION                          |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|                                                                                                                                                                                                                                     |         | SEGMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SEGMENT                               |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
| 26 GA.                                                                                                                                                                                                                              | AERIAL  | 0.1500                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.1500                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|                                                                                                                                                                                                                                     | BURIED  | 0.8500                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.8500                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|                                                                                                                                                                                                                                     | UNDGRND | 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0000                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|                                                                                                                                                                                                                                     |         | FEEDER                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DISTRIBUTION                          |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|                                                                                                                                                                                                                                     |         | SEGMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SEGMENT                               |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
| 26 GA.                                                                                                                                                                                                                              | AERIAL  | 0.2900                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.6200                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|                                                                                                                                                                                                                                     | BURIED  | 0.0200                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.3300                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|                                                                                                                                                                                                                                     | UNDGRND | 0.6900                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0500                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
| 24 GA.                                                                                                                                                                                                                              | AERIAL  | 0.2900                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.6200                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|                                                                                                                                                                                                                                     | BURIED  | 0.0200                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.3300                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|                                                                                                                                                                                                                                     | UNDGRND | 0.6900                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0500                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
| 22 GA.                                                                                                                                                                                                                              | AERIAL  | 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0000                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|                                                                                                                                                                                                                                     | BURIED  | 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0000                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
|                                                                                                                                                                                                                                     | UNDGRND | 0.0000                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.0000                                |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |
| NOTE : If the DROP WIRE resource Investment is average values, it may be backed out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or on the ADJUST input file worksheet. |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                       |                                                                                                                                                                                                                               |  |                                                                                                                |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |        |              |  |  |         |         |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |        |        |        |        |        |        |        |         |        |        |

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|-------------------------------|--|--------------------------------------------|--|------------------------|--|
| C:\123R24\LCAT073\FACILITY    |  | <b>LOOP COST ANALYSIS TOOL</b>             |  | <b>Bellcore</b>        |  |
| TABLE - SPAN_INV              |  | LOOP FACILITY INPUT                        |  | LCAT Ver: 1.0.4        |  |
| SHEET 2A / 4                  |  | COPPER CABLE DATA - BY CABLE SHEATH DETAIL |  | Issued: 07/31/95       |  |
| COMPANY: CINCINNATI BELL TEL. |  | FOR                                        |  | STUDY YR: 1995         |  |
| CITY / AREA: CINCINNATI       |  | INVESTMENT YEAR: 1995                      |  | TEST CASE: 1           |  |
| STATE/PROV: OHIO              |  | LOOP STUDY YEAR: 1995                      |  | LAST UPDATE: 09-Dec-95 |  |
|                               |  | SERVICE CLASS: BAND 2 - RESIDENCE LINE     |  | TIME: 08:51            |  |

**COPPER CABLE INVESTMENT REFERENCE TABLE**

Unit Investment Per Cable Pair Foot, By Cable Gauge, By Cable Type, By Cable Size

| Cable Sheath Sizes | Capacity | Gauge: =><br>INDEX | 26 GA. |        |        | 24 GA. |        |        | 22 GA. |        |        |
|--------------------|----------|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                    |          |                    | AERIAL | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD |
| 40 Copper Cable    | 20 pr    | \$                 |        |        |        |        |        |        |        |        |        |
| 50 Copper Cable    | 25 pr    | \$                 |        |        |        |        |        |        |        |        |        |
| 80 Copper Cable    | 40 pr    | \$                 |        |        |        |        |        |        |        |        |        |
| 100 Copper Cable   | 50 pr    | \$                 |        |        |        |        |        |        |        |        |        |
| 140 Copper Cable   | 70 pr    | \$                 |        |        |        |        |        |        |        |        |        |
| 200 Copper Cable   | 100 pr   | \$                 |        |        |        |        |        |        |        |        |        |
| 400 Copper Cable   | 200 pr   | \$                 |        |        |        |        |        |        |        |        |        |
| 600 Copper Cable   | 300 pr   | \$                 |        |        |        |        |        |        |        |        |        |
| 800 Copper Cable   | 400 pr   | \$                 |        |        |        |        |        |        |        |        |        |
| 1200 Copper Cable  | 600 pr   | \$                 |        |        |        |        |        |        |        |        |        |
| 1800 Copper Cable  | 900 pr   | \$                 |        |        |        |        |        |        |        |        |        |
| 2400 Copper Cable  | 1200 pr  | \$                 |        |        |        |        |        |        |        |        |        |
| 3000 Copper Cable  | 1500 pr  | \$                 |        |        |        |        |        |        |        |        |        |
| 3600 Copper Cable  | 1800 pr  | \$                 |        |        |        |        |        |        |        |        |        |
| 4200 Copper Cable  | 2100 pr  | \$                 |        |        |        |        |        |        |        |        |        |
| 4800 Copper Cable  | 2400 pr  | \$                 |        |        |        |        |        |        |        |        |        |
| 5400 Copper Cable  | 2700 pr  | \$                 |        |        |        |        |        |        |        |        |        |
| 6000 Copper Cable  | 3000 pr  | \$                 |        |        |        |        |        |        |        |        |        |
| 7200 Copper Cable  | 3600 pr  | \$                 |        |        |        |        |        |        |        |        |        |
| 8400 Copper Cable  | 4200 pr  | \$                 |        |        |        |        |        |        |        |        |        |

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C:\123R24\LCATR073\FACILITY  
TABLE - SPAN\_INV  
SHEET 2 / 4

HELP SCREEN

**Belcore**<sup>TM</sup>  
LCAT Rel: 1.0.4  
Issued: 07/31/95

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES

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LCAT

INPUT SCREEN

Page -1-

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LCAT

INPUT SCREEN

Page -2-

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## LOOP COST ANALYSIS TOOL

Bellcore<sup>®</sup>SPAN INV - WORKSHEET  
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELDING  
WORKSHEET A

LCAT R#1: 1.0.4

Issue Date: 07/31/95

STUDY YR: 1996

TEST CASE: 1996

DATE: 1

LAST UPDATE: 09-Dec-96

TIME: 08:51

COMPANY: CINCINNATI BELL TEL.  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE  
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 2 - RESIDENCE LINE

| DATA<br>DESC.        | (DISTRIBUTION<br>TO CODE)<br>CABLE TYPE MIX<br>(p...dst) | MELDED CABLE INVESTMENT PER PAIR FOOT<br>PER FOOT<br>INVESTMENT<br>(pfi..ds) | CABLE<br>GAUGE MIX<br>(copper..dst) | ADJUSTED<br>CABLE TYPE<br>[D=A*C] | ADJUSTED<br>PFI<br>[E=B*C] |
|----------------------|----------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------|-----------------------------------|----------------------------|
| CHARACTERISTICS FOR: | [A]                                                      | [B]                                                                          | [C]                                 |                                   |                            |
| AERIAL @ 26 GA.      | 0.620000                                                 | \$ 0.042600                                                                  | 0.1500                              | 0.093000                          | \$ 0.006390                |
| BURIED @ 26 GA.      | 0.330000                                                 | \$ 0.066800                                                                  | 0.1500                              | 0.049500                          | \$ 0.010020                |
| UNDGRND @ 26 GA.     | 0.050000                                                 | \$ 0.058000                                                                  | 0.1500                              | 0.007500                          | \$ 0.008700                |
| AERIAL @ 24 GA.      | 0.620000                                                 | \$ 0.042600                                                                  | 0.8500                              | 0.527000                          | \$ 0.036210                |
| BURIED @ 24 GA.      | 0.330000                                                 | \$ 0.066800                                                                  | 0.8500                              | 0.280500                          | \$ 0.056780                |
| UNDGRND @ 24 GA.     | 0.050000                                                 | \$ 0.058000                                                                  | 0.8500                              | 0.042500                          | \$ 0.049300                |
| AERIAL @ 22 GA.      | 0.000000                                                 | \$ 0.000000                                                                  | 0.0000                              | 0.000000                          | \$ 0.000000                |
| BURIED @ 22 GA.      | 0.000000                                                 | \$ 0.000000                                                                  | 0.0000                              | 0.000000                          | \$ 0.000000                |
| UNDGRND @ 22 GA.     | 0.000000                                                 | \$ 0.000000                                                                  | 0.0000                              | 0.000000                          | \$ 0.000000                |

--- TABLE 2 ---

| DATA<br>DESC.        | CABLE TYPE MIX<br>RANGE<br>NAME | WELDED<br>GAUGES |
|----------------------|---------------------------------|------------------|
| CHARACTERISTICS FOR: |                                 | [F=sum(D*type)]  |
| AERIAL               |                                 | 0.620000         |
| BURIED               |                                 | 0.330000         |
| UNDERGRND            |                                 | 0.050000         |
| Check =              | 1.000000                        |                  |

## FOOTNOTES

--- TABLE 4 ---

| PAIR / FOOT INVESTMENT<br>RANGE<br>NAME | MELDED<br>GAUGES |
|-----------------------------------------|------------------|
| [G=sum(E*type)]                         |                  |
| \$ 0.042600                             |                  |
| \$ 0.066800                             |                  |
| \$ 0.058000                             |                  |

Check = 1.000000

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--- TABLE 6 ---

| PAIR / FOOT INVESTMENT<br>RENORMALIZED<br>AERIAL / BURIED | MELDED<br>GAUGES |
|-----------------------------------------------------------|------------------|
| [H=F*type / sum(F*type)]                                  |                  |
| \$ 0.652632                                               |                  |
| \$ 0.347368                                               |                  |
| Check =                                                   | 1.000000         |

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LCAT

INPUT SCREEN

Page -4

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| C:\123R24\LCATR073\FACILITY.WK1                                              |                                                          | LOOP COST ANALYSIS TOOL                                                                                                                                             |                                      |                        | Bellcore (P)                                                                                                                     |                  |
|------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------|
| SPAN INV - WORKSHEET<br>Sheet 2 / 3                                          |                                                          | COPPER CABLE DISTRIBUTIONS MELDING<br>WORKSHEET A<br>FOR<br>FACILITY TYPE: COPPER CABLE<br>DESIGN TYPE: SUBFEEDER SEGMENT<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |                                      |                        | LCAT Ver: 1.0.4<br>Issue Date: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1996<br>DATE: 1<br>LAST UPDATE: 09-Dec-96<br>TIME: 08:51 |                  |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE/PROV: OHIO |                                                          |                                                                                                                                                                     |                                      |                        |                                                                                                                                  |                  |
| MELDED CABLE INVESTMENT PER PAIR FOOT                                        |                                                          |                                                                                                                                                                     |                                      |                        |                                                                                                                                  |                  |
| DATA<br>DESC.                                                                | (DISTRIBUTION<br>TO CODE)<br>CABLE TYPE MIX<br>(p...fdi) | PER FOOT<br>INVESTMENT<br>(pfi..fd)                                                                                                                                 | CABLE<br>GAUGE MIX<br>(copper..fdi)  | ADJUSTED<br>CABLE TYPE | ADJUSTED<br>PFI                                                                                                                  |                  |
| CHARACTERISTICS FOR:                                                         | [A]                                                      | [B]                                                                                                                                                                 | [C]                                  | [D=A*C]                | [E=B*C]                                                                                                                          |                  |
| AERIAL @ 26 GA.                                                              | 0.290000                                                 | \$ 0.011900                                                                                                                                                         | 0.1500                               | 0.043500               | \$ 0.001785                                                                                                                      |                  |
| BURIED @ 26 GA.                                                              | 0.020000                                                 | \$ 0.020500                                                                                                                                                         | 0.1500                               | 0.003000               | \$ 0.003075                                                                                                                      |                  |
| UNDGRND @ 26 GA.                                                             | 0.690000                                                 | \$ 0.011000                                                                                                                                                         | 0.1500                               | 0.103500               | \$ 0.001650                                                                                                                      |                  |
| AERIAL @ 24 GA.                                                              | 0.290000                                                 | \$ 0.011900                                                                                                                                                         | 0.8500                               | 0.246500               | \$ 0.010115                                                                                                                      |                  |
| BURIED @ 24 GA.                                                              | 0.020000                                                 | \$ 0.020500                                                                                                                                                         | 0.8500                               | 0.017000               | \$ 0.017425                                                                                                                      |                  |
| UNDGRND @ 24 GA.                                                             | 0.690000                                                 | \$ 0.011000                                                                                                                                                         | 0.8500                               | 0.586500               | \$ 0.009350                                                                                                                      |                  |
| AERIAL @ 22 GA.                                                              | 0.000000                                                 | \$ 0.000000                                                                                                                                                         | 0.0000                               | 0.000000               | \$ 0.000000                                                                                                                      |                  |
| BURIED @ 22 GA.                                                              | 0.000000                                                 | \$ 0.000000                                                                                                                                                         | 0.0000                               | 0.000000               | \$ 0.000000                                                                                                                      |                  |
| UNDGRND @ 22 GA.                                                             | 0.000000                                                 | \$ 0.000000                                                                                                                                                         | 0.0000                               | 0.000000               | \$ 0.000000                                                                                                                      |                  |
| Check = 1.00                                                                 |                                                          |                                                                                                                                                                     |                                      |                        |                                                                                                                                  |                  |
| TABLE 2                                                                      |                                                          | TABLE 4                                                                                                                                                             |                                      | TABLE 6                |                                                                                                                                  |                  |
| DATA<br>DESC.                                                                | CABLE TYPE MIX<br>RANGE NAME                             | MELDED<br>GAUGES                                                                                                                                                    | PAIR / FOOT INVESTMENT<br>RANGE NAME | MELDED<br>GAUGES       | PAIR / FOOT INVESTMENT<br>RENORMALIZED<br>AERIAL / BURIED                                                                        | MELDED<br>GAUGES |
| CHARACTERISTICS FOR:                                                         | [F=sum(D*TYPE)]                                          |                                                                                                                                                                     | [G=sum(E*TYPE)]                      |                        | [H=F*PFI / sum(F*TYPE)]                                                                                                          |                  |
| AERIAL                                                                       | 0.290000                                                 |                                                                                                                                                                     | \$ 0.011900                          |                        | \$ 0.004484                                                                                                                      |                  |
| BURIED                                                                       | 0.020000                                                 |                                                                                                                                                                     | \$ 0.020500                          |                        | \$ 0.004516                                                                                                                      |                  |
| UNDERGRND                                                                    | 0.690000                                                 |                                                                                                                                                                     | \$ 0.011000                          |                        |                                                                                                                                  |                  |
| Check = 1.000000                                                             |                                                          |                                                                                                                                                                     |                                      |                        |                                                                                                                                  |                  |
| FOOTNOTES                                                                    |                                                          |                                                                                                                                                                     |                                      |                        |                                                                                                                                  |                  |

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| C:\123R24\LCATR073\FACILITY                                                                                                                                                                                                                                                                                                                                                                                           |                                                                       | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                          |  | Bellcore (P)                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|
| TABLE - SPAN_INV<br>SHEET 3 / 4                                                                                                                                                                                                                                                                                                                                                                                       |                                                                       | LOOP FACILITY INPUT<br>COPPER PAIRGAIN CABLE DATA<br>FOR<br>INVESTMENT YEAR : 1996<br>LOOP STUDY YEAR : 1996<br>SERVICE CLASS : BAND 2 - RESIDENCE LINE |  | LCAT Ver : 1.0.4<br>ISSUED : 07/31/95<br>STUDY YR : 1996<br>TEST CASE : 1<br>LAST UPDATE : 09-Dec-96<br>TIME : 08:51 |
| COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE/PROV: OHIO                                                                                                                                                                                                                                                                                                                                           |                                                                       |                                                                                                                                                         |  |                                                                                                                      |
| <b><u>COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS</u></b>                                                                                                                                                                                                                                                                                                                                                           |                                                                       |                                                                                                                                                         |  |                                                                                                                      |
| <b><u>FOR DLC SYSTEMS ON COPPER LOOPS</u></b>                                                                                                                                                                                                                                                                                                                                                                         |                                                                       |                                                                                                                                                         |  |                                                                                                                      |
| Cable Gauge :                                                                                                                                                                                                                                                                                                                                                                                                         | Please Enter the NUMBER for 22 GA., 24 GA., or 26 GA. :               |                                                                                                                                                         |  | 24                                                                                                                   |
| Pair Gain Factor :                                                                                                                                                                                                                                                                                                                                                                                                    | (When Investment Utilities or Band Width Mix are NOT Used)            |                                                                                                                                                         |  |                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                       | The Average Number Of Voice Grade Circuit Equivalents Per System :    |                                                                                                                                                         |  | 96                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                       | The Average Number Of Transmission Pairs Plus Protection Per System : |                                                                                                                                                         |  | 10                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                       | The Average Number Of Support (Power, Alarm, Etc) Pairs Per System :  |                                                                                                                                                         |  | 2                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                       | Ratio Of Required Pairs To Derived Pairs [ Pair Gain Factor ] :       |                                                                                                                                                         |  | 0.1250                                                                                                               |
| <b>NOTE:</b><br>① The value represents the extent to which copper pairs are gained. For example, A 96 Channel System uses 4 Transmit Pairs, 4 Receive Pairs, 2 Protection Pairs and 2 Support Pairs (Test and Order Wire). Then the Derived Pairs would be the Sum of the Pairs divided by the Working Channels Or $(10 + 2) / 96 = 0.125$ . When applied to segment length it becomes the Effective Length per Pair. |                                                                       |                                                                                                                                                         |  |                                                                                                                      |

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TABLE - SPAN\_INV  
SHEET 3 / 4

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Issued : 07/31/95

|          |                                                                                                                                                                      |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| pggauge  | In CSA rules, a single gauge is preferred for CDLC                                                                                                                   |
| vgcheqv  | Each CDLC has a voice grade equivalent, usually referred to as a ____ Channel System. Domestic systems are basic 96 Channel, whereas, International are 120 Channel  |
| xmsnpr   | CDLC uses a Transmit/Receive Pair for each direction (unidirectional), therefore, the basic structure is four sets of two pairs plus one protection set ( 10 pairs ) |
| suptpr   | CDLC is customarily supported by a power pair and an alarm pair ( 2 pair)                                                                                            |
| pgfactor | Where : $pgfactor = ( \# \text{ of } xmsnpr + \# \text{ of } suptpr ) / vgcheqv$                                                                                     |

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS - REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*

\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION \*\*\*\*\*

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| C:\123R24\LCAT073\FACILITY.WK1                                                         |                     | LOOP COST ANALYSIS TOOL                           |                                                                  | Bellcore <sup>®</sup>                                                        |  |
|----------------------------------------------------------------------------------------|---------------------|---------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------|--|
| SPAN INV - WORKSHEET<br>Sheet 3 / 3                                                    |                     | COPPER CABLE DISTRIBUTIONS MELLING<br>WORKSHEET B |                                                                  | LCAT Ver: 1.0.4<br>Issue Date: 07/31/95                                      |  |
| COMPANY: CINCINNATI BELL TEL.                                                          |                     | FOR<br>FACILITY TYPE: COPPER CABLE for DLC        |                                                                  | STUDY YR: 1996                                                               |  |
| CITY / AREA: OHIO                                                                      |                     | DESIGN TYPE: FEEDER SEGMENT                       |                                                                  | TEST CASE: 1996                                                              |  |
| STATE/PROV: CINCINNATI                                                                 |                     | SERVICE CLASS: BAND 2 - RESIDENCE LINE            |                                                                  | DATE: 1                                                                      |  |
|                                                                                        |                     |                                                   |                                                                  | LAST UPDATE: 09-Dec-96                                                       |  |
|                                                                                        |                     |                                                   |                                                                  | TIME: 08:51                                                                  |  |
| INVESTMENT DEVELOPMENT FOR:                                                            |                     |                                                   | MELDED CABLE INVESTMENT PER PAIR FOOT<br>LINE REPEATER EQUIPMENT |                                                                              |  |
| DESCRIPTION                                                                            | REPEATER<br>SPACING | UNIT<br>REPEATER<br>INVESTMENT                    | REPEATER<br>INVEST.<br>PER FOOT                                  |                                                                              |  |
|                                                                                        | (A)                 | (B)                                               | (C=B/A)                                                          |                                                                              |  |
| LINE REPEATER AT 26 GA.                                                                | 3500                | \$ 0                                              | \$ 0.000000                                                      |                                                                              |  |
| LINE REPEATER AT 24 GA.                                                                | 4500                | \$ 0                                              | \$ 0.000000                                                      |                                                                              |  |
| LINE REPEATER AT 22 GA.                                                                | 5500                | \$ 0                                              | \$ 0.000000                                                      |                                                                              |  |
| TABLE 4 DEVELOPMENT FOR:                                                               |                     |                                                   | COPPER CABLE UNIT INVESTMENT                                     |                                                                              |  |
| ADJUSTED<br>PAIR / FOOT INVESTMENT                                                     | BY CODE<br>BY GAUGE | REPEATER<br>BY GAUGE                              | WORKING CHANNEL<br>INVESTMENT / FOOT                             | FOR DLC Gauge : 24.00<br>- TABLE 4 -<br>WORKING CHANNEL<br>INVESTMENT / FOOT |  |
| DESCRIPTION                                                                            | 2 * (PF1cgg)<br>(D) | 2 * (PF1cgg)<br>(E=C)                             | (ADLCFF1cgg)<br>(F=D+E)                                          | (ADLCFF1cgg)<br>(G=D+F)                                                      |  |
| AERIAL @ 26 GA.                                                                        | \$ 0.023800         | \$ 0.000000                                       | \$ 0.023800                                                      | \$ 0.023800                                                                  |  |
| BURIED @ 26 GA.                                                                        | \$ 0.041000         | \$ 0.000000                                       | \$ 0.041000                                                      | \$ 0.041000                                                                  |  |
| UNDGRND @ 26 GA.                                                                       | \$ 0.022000         | \$ 0.000000                                       | \$ 0.022000                                                      | \$ 0.022000                                                                  |  |
| AERIAL @ 24 GA.                                                                        | \$ 0.023800         | \$ 0.000000                                       | \$ 0.023800                                                      | \$ 0.023800                                                                  |  |
| BURIED @ 24 GA.                                                                        | \$ 0.041000         | \$ 0.000000                                       | \$ 0.041000                                                      | \$ 0.041000                                                                  |  |
| UNDGRND @ 24 GA.                                                                       | \$ 0.022000         | \$ 0.000000                                       | \$ 0.022000                                                      | \$ 0.022000                                                                  |  |
| AERIAL @ 22 GA.                                                                        | \$ 0.000000         | \$ 0.000000                                       | \$ 0.000000                                                      | \$ 0.000000                                                                  |  |
| BURIED @ 22 GA.                                                                        | \$ 0.000000         | \$ 0.000000                                       | \$ 0.000000                                                      | \$ 0.000000                                                                  |  |
| UNDGRND @ 22 GA.                                                                       | \$ 0.000000         | \$ 0.000000                                       | \$ 0.000000                                                      | \$ 0.000000                                                                  |  |
| NOTES:                                                                                 |                     |                                                   |                                                                  |                                                                              |  |
| ① The Facility Table Investments are for each Cable Pair Foot, DLC Systems are 4 wire. |                     |                                                   |                                                                  |                                                                              |  |

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| C:\123R24\LCAT\PROG\FACILITY                                                                                               |                                                                                                                                                                                                                                                                                 | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                    |         | Bellcore <sup>®</sup>                                                                                          |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------|--------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------|-------------------|---------|---------------------|----------|------------------------|---------|
| TABLE - SPAN_IN.<br>SHEET 4 / 4<br><br>COM. COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                                                                                                                                                                                                                                                                                 | LOOP FACILITY INPUT<br>SERVICE ACCESS SEGMENT<br>FOR:<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |         | LCAT Rel: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-96<br>TIME: 08:51 |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| <b>SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS</b>                                                                      |                                                                                                                                                                                                                                                                                 |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| <b>AVERAGE UNIT MIX :</b>                                                                                                  |                                                                                                                                                                                                                                                                                 | <b>AVERAGE UNIT INVESTMENT :</b>                                                                                                                  |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| The Average Number of Terminals in the Service Access Segment of a Loop -                                                  |                                                                                                                                                                                                                                                                                 |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Proportion of Loops that use.....                                                                                          | <table border="1" style="width: 100%;"> <tr> <td>Aerial</td> <td>0.00</td> </tr> <tr> <td>Buried</td> <td>0.00</td> </tr> </table>                                                                                                                                              | Aerial                                                                                                                                            | 0.00    | Buried                                                                                                         | 0.00   | Per Unit Installation..... | <table border="1" style="width: 100%;"> <tr> <td>Aerial Termination</td> <td>0</td> </tr> <tr> <td>Buried Termination</td> <td>0</td> </tr> </table> | Aerial Termination     | 0      | Buried Termination                                                                    | 0                                                                                                                                                                                                                                                                                    |                   |         |                   |         |                     |          |                        |         |
| Aerial                                                                                                                     | 0.00                                                                                                                                                                                                                                                                            |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Buried                                                                                                                     | 0.00                                                                                                                                                                                                                                                                            |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Aerial Termination                                                                                                         | 0                                                                                                                                                                                                                                                                               |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Buried Termination                                                                                                         | 0                                                                                                                                                                                                                                                                               |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| The Average Drop Wire & Building Entrance Cable Installation -                                                             |                                                                                                                                                                                                                                                                                 |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Proportion of Loops that use..                                                                                             | <table border="1" style="width: 100%;"> <tr> <td>Aerial Wire Drops</td> <td>0.0000</td> </tr> <tr> <td>Buried Wire Drops</td> <td>0.0000</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>1.0000</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>0.0000</td> </tr> </table> | Aerial Wire Drops                                                                                                                                 | 0.0000  | Buried Wire Drops                                                                                              | 0.0000 | Bldg Entrance Cable        | 1.0000                                                                                                                                               | Aerial Coax/Wire Drops | 0.0000 | Adjust Cable Pair Foot Invest. for DW Investment? (Y/N)<br>Per Unit Installation..... | <table border="1" style="width: 100%;"> <tr> <td>Aerial Wire Drops</td> <td>\$ 0.00</td> </tr> <tr> <td>Buried Wire Drops</td> <td>\$ 0.00</td> </tr> <tr> <td>Bldg Entrance Cable</td> <td>\$ 75.00</td> </tr> <tr> <td>Aerial Coax/Wire Drops</td> <td>\$ 0.00</td> </tr> </table> | Aerial Wire Drops | \$ 0.00 | Buried Wire Drops | \$ 0.00 | Bldg Entrance Cable | \$ 75.00 | Aerial Coax/Wire Drops | \$ 0.00 |
| Aerial Wire Drops                                                                                                          | 0.0000                                                                                                                                                                                                                                                                          |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Buried Wire Drops                                                                                                          | 0.0000                                                                                                                                                                                                                                                                          |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Bldg Entrance Cable                                                                                                        | 1.0000                                                                                                                                                                                                                                                                          |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Aerial Coax/Wire Drops                                                                                                     | 0.0000                                                                                                                                                                                                                                                                          |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Aerial Wire Drops                                                                                                          | \$ 0.00                                                                                                                                                                                                                                                                         |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Buried Wire Drops                                                                                                          | \$ 0.00                                                                                                                                                                                                                                                                         |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Bldg Entrance Cable                                                                                                        | \$ 75.00                                                                                                                                                                                                                                                                        |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Aerial Coax/Wire Drops                                                                                                     | \$ 0.00                                                                                                                                                                                                                                                                         |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| The Average Intrabuilding Cable Installation -                                                                             |                                                                                                                                                                                                                                                                                 |                                                                                                                                                   |         |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |
| Proportion of Installations with Intrabuilding Cable                                                                       | 0.0000                                                                                                                                                                                                                                                                          | Per Instn for a Intrabuilding Network Cable Pair                                                                                                  | \$ 0.00 |                                                                                                                |        |                            |                                                                                                                                                      |                        |        |                                                                                       |                                                                                                                                                                                                                                                                                      |                   |         |                   |         |                     |          |                        |         |

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HELP SCREEN

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LCAT Rel: 1.0.4  
Issued: 07/31/95

terma These terminals may include the Serving Area Interface Cross Box, Drop Wire Block, and/or the Network  
termb interface Block summary per circuit pair installation investment.

adropinv These facility investments may also include Drop Wire Block and/or Network Interface summary per circuit  
bdropinv pair installation investment.  
bec  
coaxinv

ibc This facility investment should include ALL the internal cross-connects and terminations for this type of  
installation as a circuit pair installation investment.

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*

\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION \*\*\*\*\*

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| C:\123R24\LCATR073\FACTORS     |  | LOOP COST ANALYSIS TOOL                                          |             | Bellcore                           |  |
|--------------------------------|--|------------------------------------------------------------------|-------------|------------------------------------|--|
| TABLE - FACTORS<br>SHEET 1 / 1 |  | INVESTMENT RELATED FACTOR TABLES<br>FOR<br>ANNUALIZATION FACTORS |             | LCAT Rel: 1.0.4<br>Issued: 3/31/95 |  |
| COMPANY: CINCINNATI BELL TEL.  |  | INVESTMENT YEAR: 1996                                            |             | STUDY YR: 1996                     |  |
| CITY / AREA: CINCINNATI        |  | STUDY YEAR: 1996                                                 |             | TEST CASE: 1                       |  |
| STATE / PROV: OHIO             |  | SERVICE CLASS: BAND 2 - RESIDENCE LINE                           |             | LAST UPDATE: 20-Jan-97             |  |
|                                |  |                                                                  |             | TIME: 12:52                        |  |
| plant list                     |  | PRICE INDEX                                                      | ANNUAL COST |                                    |  |
| LAND                           |  | 1.0000                                                           | 0.2232      |                                    |  |
| BUILDING                       |  | 1.0000                                                           | 0.2847      |                                    |  |
| BLDG ENTRANCE CABLE            |  | 1.0000                                                           | 0.3832      |                                    |  |
| INTRABLDG CABLE                |  | 1.0000                                                           | 0.3832      |                                    |  |
| AERIAL CABLE (COPPER)          |  | 1.0000                                                           | 0.3943      |                                    |  |
| BURIED CABLE (COPPER)          |  | 1.0000                                                           | 0.3377      |                                    |  |
| UNDERGROUND (CU) CA.           |  | 1.0000                                                           | 0.3573      |                                    |  |
| CO EQPT - LOW CAP TERM         |  | 1.0000                                                           | 0.3791      |                                    |  |
| CO EQPT - LOW CAP CHAN         |  | 1.0000                                                           | 0.3791      |                                    |  |
| CO EQPT - HI CAP TERM          |  | 1.0000                                                           | 0.3791      |                                    |  |
| CO EQPT - HI CAP CHAN          |  | 1.0000                                                           | 0.3791      |                                    |  |
| CO EQPT - ANALOG SW            |  | 1.0000                                                           | 0.0000      |                                    |  |
| CO EQPT - DIGITAL SW           |  | 1.0000                                                           | 0.3368      |                                    |  |
| AERIAL CABLE (FIBER)           |  | 1.0000                                                           | 0.2893      |                                    |  |
| BURIED CABLE (FIBER)           |  | 1.0000                                                           | 0.2634      |                                    |  |
| UNDERGROUND (FO) CA.           |  | 1.0000                                                           | 0.2599      |                                    |  |
| CONNECTORS                     |  | 1.0000                                                           | 0.3791      |                                    |  |
| MISC. COM EQP & PWR            |  | 1.0000                                                           | 0.3791      |                                    |  |
| POLE LINE                      |  | 1.0000                                                           | 0.3717      |                                    |  |
| CONDUIT                        |  | 1.0000                                                           | 0.2431      |                                    |  |

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| C:\123R24\LCATR073\INVEST                                                                          |  | LOOP COST ANALYSIS TOOL                                      |          |          | Bellcore <sup>®</sup>               |          |
|----------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|----------|----------|-------------------------------------|----------|
| TABLE - EQUIP_INV<br>Sheet 1 of 1                                                                  |  | DATA REFERENCE TABLE<br>EQUIPMENT & OTHER INVESTMENTS<br>FOR |          |          | LCAT Rel: 1.0.4<br>Issued: 07/31/95 |          |
| COMPANY: CINCINNATI BELL TEL                                                                       |  | INVESTMENT YEAR: 1996                                        |          |          | STUDY YR: 1996                      |          |
| CITY / AREA: CINCINNATI                                                                            |  | SERVICE LEVEL: NARBAND                                       |          |          | TEST CASE: 1                        |          |
| STATE / PROV: OHIO                                                                                 |  | SERVICE CLASS: BAND 2 - RESIDENCE LINE                       |          |          | LAST UPDATE: 09-Jan-97<br>14:53     |          |
| EQUIPMENT INVESTMENT (Including Engineer, Furnish, & Install Costs)                                |  |                                                              |          |          |                                     |          |
|                                                                                                    |  | CENTRAL OFFICE                                               |          |          | REMOTE LOCATION                     |          |
|                                                                                                    |  | LINE                                                         | CHANNEL  | TERMINAL | CHANNEL                             | TERMINAL |
| <b>AIR DRYERS INVESTMENT:</b>                                                                      |  |                                                              |          |          |                                     |          |
| For an AERIAL Installed Cable Pair                                                                 |  |                                                              |          | \$ 0.00  |                                     |          |
| For a BURIED Installed Cable Pair                                                                  |  |                                                              |          | \$ 0.00  |                                     |          |
| For an UNDERGROUND Installed Cable Pair                                                            |  |                                                              |          | \$ 0.00  |                                     |          |
| <b>CENTRAL OFFICE TERMINATION INVESTMENT:</b>                                                      |  |                                                              |          |          |                                     |          |
| For each cable pair associated with twisted pair copper cable                                      |  |                                                              |          | \$ 0.00  |                                     |          |
| For each per cable pair associated with digital loop carrier technology                            |  |                                                              |          | \$ 0.00  |                                     |          |
| <b>COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:</b>                               |  |                                                              |          |          |                                     |          |
| For each line repeater for one copper digroup (not svc lev)                                        |  |                                                              | \$ 0.00  |          |                                     |          |
| For an Office Repeater Bay for a T1 Line                                                           |  |                                                              | \$ 0.00  |          |                                     |          |
| For a Universal DLC Equipment Arrangement                                                          |  |                                                              | \$ 0.00  | \$ 87.51 | \$ 12.14                            | \$ 85.28 |
| For an Integrated DLC Equipment Arrangement                                                        |  |                                                              | \$ 0.00  | \$ 0.00  | \$ 0.00                             | \$ 85.28 |
|                                                                                                    |  |                                                              |          |          |                                     | \$ 51.57 |
|                                                                                                    |  |                                                              |          |          |                                     | \$ 51.57 |
| <b>FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:</b>                          |  |                                                              |          |          |                                     |          |
| 1. For a Hub with nonFiber Extensions or nonHub Arrangement                                        |  |                                                              | \$ 19.62 | \$ 2.35  | \$ 18.49                            | \$ 2.35  |
| 2. For a Hub with Fiber Extensions or a Fiber Ended Arrangement                                    |  |                                                              | \$ 0.00  | \$ 0.00  | \$ 0.00                             | \$ 0.00  |
| 3. For a Fiber HUB and Fiber Remote Terminal Arrangement                                           |  |                                                              |          |          | \$ 0.00                             | \$ 0.00  |
| 4. For Fiber Ring Hub Arrangements (Extensions)                                                    |  |                                                              |          |          | \$ 0.00                             | \$ 0.00  |
| <b>CEV HOUSING per CIRCUIT by SERVICE LEVEL:</b>                                                   |  |                                                              |          |          |                                     |          |
| For CEV's used as fiber hubs for FO Multiplexer equipment                                          |  |                                                              |          |          |                                     | \$ 0.00  |
| For CEV's used as remote terminals for CDLC equipment                                              |  |                                                              |          |          |                                     | \$ 0.00  |
| [Unit Investment denotes average weighted unit E.F.I Investment at DS0, DS1, or DS3 service equic] |  |                                                              |          |          |                                     |          |

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TABLE - EQUIP\_INV

## HELP INFORMATION

Bellcore<sup>TM</sup>

LCAT Rel : 1.0.4

Issued : 07/31/95

LCAT Commands      Description

This Command will allow the User -

EDIT                      To Enter Values with DIRECT Input on a cell by cell basis.  
 CLEAR                    To Erase the Display's Current Data Values, then Perform DIRECT Input.

Line Items              Description

This Equipment Item Represents -

Ofc Rept Bay              A Wideband Special Service Circuits Requirement, included in other DLC COE LINE.  
 Integrated DLC            The DLC Class for Source Bandwidth from Digital Line Cards or DSX Term for DS1.  
 Universal DLC            The DLC Class for Source Bandwidth from Analog Subs Line Cards or Voice Grade Term.

See Circuit Designs :

|                  |                                                                          |           |
|------------------|--------------------------------------------------------------------------|-----------|
| COE Field Item 1 | FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, CO End Equip.  | 2,3,4 & 6 |
| REM Field Item 1 | FITL/CDLC Hub Extension or FITL non-Hubbing Arrangements, REM End Equip. | 2,3,4 & 6 |
| COE Field Item 2 | FITL Hubbed Arrangements, CO to HUB Span Equip, CO End.                  | 1 & 5     |
| REM Field Item 2 | FITL Hubbed Arrangements, CO to HUB Span Equip, Remote Site.             | 1 & 5     |
| REM Field Item 3 | FITL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites.            | 1 & 5     |
| REM Field Item 4 | FITL Hubbed Arrangements, RING Span Equip, HUB Sites.                    | 1,2,5 & 6 |

NOTE: THE DATA VALUES FOR THESE ITEMS SHOULD ALWAYS REPRESENT  
 THE CIRCUIT EQUIVALENTS FOR THE BANDWIDTH DELIVERY OF THE STUDIED SERVICE

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*  
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| C:\123R24\LCATR073\LOADING                                                                                      |        | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                       |  | Bellcore <sup>®</sup>                                                                                         |
|-----------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------|
| TABLE = ADDNL_INV<br>Sheet 1 of 2<br><br>COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE: OHIO |        | INVESTMENT RELATED FACTOR TABLES<br>ADJUSTMENT AND LOADING FACTORS<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LIN |  | LCAT Rel: 1.0.4<br>Issued: 3/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-96<br>TIME: 09:10 |
| <b>PLANT UTILIZATION FACTORS:</b>                                                                               |        |                                                                                                                                                                      |  |                                                                                                               |
| Land                                                                                                            | 1.0000 | ALL Non-Traffic Sensitive Equipment                                                                                                                                  |  | 1.0000                                                                                                        |
| Building                                                                                                        | 1.0000 | ALL Digital Loop Carrier Equip., or                                                                                                                                  |  | 0.7000                                                                                                        |
| ALL Copper Cables, or                                                                                           |        | CO DLC Channel Unit                                                                                                                                                  |  | 0.7000                                                                                                        |
| Copper Feeder Cable                                                                                             | 0.6000 | REM DLC Channel Unit                                                                                                                                                 |  | 0.7000                                                                                                        |
| Copper Distribution Cable                                                                                       | 0.3500 | CO DLC Multiplex System                                                                                                                                              |  | 0.7000                                                                                                        |
| Copper Entrance Cable                                                                                           | 1.0000 | REM DLC Multiplex System                                                                                                                                             |  | 0.7000                                                                                                        |
| Copper Building Cable                                                                                           | 0.3500 | CO Digital Signal Crossconnect Bay                                                                                                                                   |  | 0.7000                                                                                                        |
| Copper Building Terminal                                                                                        | 0.3500 | REM Digital Signal Crossconnect Bay                                                                                                                                  |  | 0.7000                                                                                                        |
| ALL Fiber Cables, or                                                                                            |        | ALL Fiber Optic Multiplex Equip., or                                                                                                                                 |  | 1.0000                                                                                                        |
| Fiber Feeder Cable                                                                                              | 0.3300 | CO Fiber Optic Channel Unit                                                                                                                                          |  | 1.0000                                                                                                        |
| Fiber Distribution Cable                                                                                        |        | REM Fiber Optic Channel Unit                                                                                                                                         |  | 1.0000                                                                                                        |
| Fiber Entrance Cable                                                                                            |        | CO Fiber Optic Multiplex System                                                                                                                                      |  | 1.0000                                                                                                        |
| Fiber Building Cable                                                                                            |        | REM Fiber Optic Multiplex System                                                                                                                                     |  | 1.0000                                                                                                        |
| Fiber Building Terminal                                                                                         |        | CO Lightguide Terminating Equipment                                                                                                                                  |  | 1.0000                                                                                                        |
|                                                                                                                 |        | REM Lightguide Terminating Equipment                                                                                                                                 |  | 1.0000                                                                                                        |
| Poles                                                                                                           | 1.0000 | Remote Housing: CEV                                                                                                                                                  |  | 1.0000                                                                                                        |
| Conduit                                                                                                         | 1.0000 | PC Hut                                                                                                                                                               |  | 1.0000                                                                                                        |
|                                                                                                                 |        | Comm. Svc. Cab.                                                                                                                                                      |  | 1.0000                                                                                                        |

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TABLE - ADDNL\_INV  
Sheet 1 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel: 1.0.4  
Issued: 3/31/95

## NOTE :

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS.  
AN ENTRY SETS CATEGORY 2 VALUES TO THE CATEGORY 1 VALUE BY THE SYSTEM.
- ② THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES).  
THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY.  
ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.
- ③ THE DESIGNATION "CO" DENOTES CENTRAL OFFICE LOCATED.  
THE DESIGNATION "REM" DENOTES REMOTE SITE LOCATED.

\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR INFORMATION \*\*\*\*\*  
\*\*\*\*\* CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY \*\*\*\*\*

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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| C:\123R24\LCATR073\LOADING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                        |  | Bellcore <sup>(R)</sup>                                                                                       |  |              |        |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |  |              |        |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                          |    |              |  |              |  |                   |  |  |   |   |                       |        |        |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------|--|--------------|--------|-------------------------------------|--------|--------|-----------------------------------|--|--|------------------------------------|--------|--------|----------------------------------|--|--|--|--------------|--------|----------------------------------------|--------|--------|--------------------------------------|--|--|---------------------------------------|--------|--------|-------------------------------------|--|--|------------------------------------------|----|--------------|--|--------------|--|-------------------|--|--|---|---|-----------------------|--------|--------|----------------------|--------|--------|-----------------|--------|--------|--|---|---|-----------------------|--------|--------|----------------------|--------|--------|-----------------|--------|--------|--|---|---|-----------------------|--------|--------|----------------------|--------|--------|-----------------|--------|--------|
| TABLE = ADDNL_INV<br>Sheet 2 of 2<br><br>COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              | INVESTMENT RELATED FACTOR TABLES<br>ADJUSTMENT AND LOADING FACTORS<br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |  | LCAT Ref: 1.0.4<br>Issued: 3/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-96<br>TIME: 09:10 |  |              |        |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |  |              |        |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                          |    |              |  |              |  |                   |  |  |   |   |                       |        |        |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>POLE LOADINGS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">DISTRIBUTION</th> <th style="text-align: center;">FEEDER</th> </tr> </thead> <tbody> <tr> <td>Copper Cable Pole Investment Factor</td> <td style="text-align: center;">0.2530</td> <td style="text-align: center;">0.2530</td> </tr> <tr> <td>Copper Cable Pole Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Pole Investment Factor</td> <td style="text-align: center;">0.1965</td> <td style="text-align: center;">0.1965</td> </tr> <tr> <td>Fiber Cable Pole Unit Investment</td> <td></td> <td></td> </tr> </tbody> </table> <p><b>CONDUIT LOADINGS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">DISTRIBUTION</th> <th style="text-align: center;">FEEDER</th> </tr> </thead> <tbody> <tr> <td>Copper Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5165</td> <td style="text-align: center;">0.5165</td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5232</td> <td style="text-align: center;">0.5232</td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </tbody> </table> </div> <div style="width: 50%;"> <p><b>DROP WIRE (DW) INVESTMENT ADJUSTMENT:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>The Cable PFI is being Adjusted for DW ?</th> <th>NO</th> </tr> </thead> <tbody> <tr> <td>Aerial Cable</td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">use <u>DEFAULT</u> <sup>①</sup> <sup>②</sup></p> <p style="text-align: center;">for : <u>CENT. OFC.</u> <u>REMOTE SITE</u></p> <p><b>LAND LOADING FACTORS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">①</th> <th style="text-align: center;">②</th> </tr> </thead> <tbody> <tr> <td>Other or <u>ALL</u> ①</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> </tbody> </table> <p><b>BUILDING LOADING FACTORS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">①</th> <th style="text-align: center;">②</th> </tr> </thead> <tbody> <tr> <td>Other or <u>ALL</u> ①</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> </tbody> </table> <p><b>MISC. EQUIPMENT &amp; POWER LOADING FACTORS:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">①</th> <th style="text-align: center;">②</th> </tr> </thead> <tbody> <tr> <td>Other or <u>ALL</u> ①</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> </tbody> </table> </div> </div> |              |                                                                                                                                                                       |  |                                                                                                               |  | DISTRIBUTION | FEEDER | Copper Cable Pole Investment Factor | 0.2530 | 0.2530 | Copper Cable Pole Unit Investment |  |  | Fiber Cable Pole Investment Factor | 0.1965 | 0.1965 | Fiber Cable Pole Unit Investment |  |  |  | DISTRIBUTION | FEEDER | Copper Cable Conduit Investment Factor | 0.5165 | 0.5165 | Copper Cable Conduit Unit Investment |  |  | Fiber Cable Conduit Investment Factor | 0.5232 | 0.5232 | Fiber Cable Conduit Unit Investment |  |  | The Cable PFI is being Adjusted for DW ? | NO | Aerial Cable |  | Buried Cable |  | Underground Cable |  |  | ① | ② | Other or <u>ALL</u> ① | 0.0056 | 0.0056 | Digital Loop Carrier | 0.0056 | 0.0056 | Fiber Optic Mux | 0.0056 | 0.0056 |  | ① | ② | Other or <u>ALL</u> ① | 0.1316 | 0.1316 | Digital Loop Carrier | 0.1316 | 0.1316 | Fiber Optic Mux | 0.1316 | 0.1316 |  | ① | ② | Other or <u>ALL</u> ① | 0.1127 | 0.1127 | Digital Loop Carrier | 0.1127 | 0.1127 | Fiber Optic Mux | 0.1127 | 0.1127 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DISTRIBUTION | FEEDER                                                                                                                                                                |  |                                                                                                               |  |              |        |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |  |              |        |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                          |    |              |  |              |  |                   |  |  |   |   |                       |        |        |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |
| Copper Cable Pole Investment Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.2530       | 0.2530                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  |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |
| Copper Cable Pole Unit Investment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Fiber Cable Pole Investment Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Copper Cable Conduit Investment Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Copper Cable Conduit Unit Investment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Fiber Cable Conduit Investment Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Fiber Cable Conduit Unit Investment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| The Cable PFI is being Adjusted for DW ?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Aerial Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Fiber Optic Mux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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  |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |
| Digital Loop Carrier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.1127       | 0.1127                                                                                                                                                                |  |                                                                                                               |  |              |        |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |  |              |        |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                          |    |              |  |              |  |                   |  |  |   |   |                       |        |        |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |
| Fiber Optic Mux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.1127       | 0.1127                                                                                                                                                                |  |                                                                                                               |  |              |        |                                     |        |        |                                   |  |  |                                    |        |        |                                  |  |  |  |              |        |                                        |        |        |                                      |  |  |                                       |        |        |                                     |  |  |                                          |    |              |  |              |  |                   |  |  |   |   |                       |        |        |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |  |   |   |                       |        |        |                      |        |        |                 |        |        |

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TABLE - ADDNL\_INV  
Sheet 2 of 2

## HELP SCREEN

Bellcore<sup>®</sup>

LCAT Rel: 1.0.4

Issued: 3/31/95

|                                        |       |      |      |                                                                                 |
|----------------------------------------|-------|------|------|---------------------------------------------------------------------------------|
| Copper Cable Pole Investment Factor    | cpiff | _dst | _fdr | Based on aerial copper cable investment relationship to pole                    |
| Copper Cable Pole Unit Investment      | cpifi | _dst | _fdr | Per unit length of aerial copper cable effective pair feet placed.              |
| Fiber Cable Pole Investment Factor     | fpiff | _dst | _fdr | Based on aerial fiber cable investment relationship to pole                     |
| Fiber Cable Pole Unit Investment       | fpifi | _dst | _fdr | Per unit length of aerial fiber cable effective pair feet placed.               |
| Copper Cable Conduit Investment Factor | cucff | _dst | _fdr | Based on underground copper cable investment relationship to conduit investment |
| Copper Cable Conduit Unit Investment   | cucfi | _dst | _fdr | Per unit length of underground copper cable effective pair feet placed.         |
| Fiber Cable Conduit Investment Factor  | fuoff | _dst | _fdr | Based on underground fiber cable investment relationship to conduit investment  |
| Fiber Cable Conduit Unit Investment    | fucfi | _dst | _fdr | Per unit length of underground fiber cable effective pair feet placed.          |

## NOTES

- ① THIS VALUE REPRESENTS GLOBAL (CATEGORY 1) INPUT FOR THESE ITEMS.  
AN ENTRY SETS CATEGORY 2 VALUES TO THE CATEGORY 1 VALUE BY THE SYSTEM.
- ② THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES).  
THESE ITEMS ARE APPLIED IN THE COST EQUATIONS FOR THE COMPONENT THEY IDENTIFY.  
ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.

\*\*\*\*\* PLEASE REFER TO THE USER MANUAL FOR INFORMATION \*\*\*\*\*  
\*\*\*\*\* CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY \*\*\*\*\*

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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| C:\123R24\LCATR073\SPAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Bellcore (R)                                                                                                         |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|---------|------|---------|----|--------------|------|------------|---------|--------------|--------|-------------|-------|---------|---------|-------------------|--|
| INPUT - PLANT_CHAR.<br>Sheet 1 / 5<br><br>COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |         | LOOP FACILITY INPUT<br>LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS<br>FOR<br>INVESTMENT YEAR : 1996<br>LOOP STUDY YEAR : 1996<br>SERVICE CLASS : BAND 2 - RESIDENCE LINE                                                                                                                                                                                                                                                                                                                                                                                     |  | LCAT Rel : 1.0.4<br>Issued : 07/31/95<br>STUDY YR : 1996<br>TEST CASE : 1<br>LAST UPDATE : 09-Dec-95<br>TIME : 09:14 |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| <b>FLAT RATE BASIS DATA WITHOUT COST BANDS<br/>           FOR A NETWORK CIRCUIT CASE STUDY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                      |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| <b>LOOP TOPOLOGY</b><br>Loop FEEDER Network Configuration Is (S)tar Or (R)ing<br>Average Number Of Hubs In Each Ring<br>Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us<br><br><b>SPAN LENGTHS</b><br>① Average Distance From the Central Office to the Service Access Point<br>② Average Distance From the Serving Area Interface to the Service Access Point<br>③ Average Distance From the Remote Terminal to the Serving Area Interface<br>④ Average Distance From the Central Office to the Fiber Hub or S.A.I.<br>⑤ Average Distance From the Fiber Hub to the Remote Terminal |         | <b>ACTION SEGMENT</b><br><table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PRIMARY</td> <td>STAR</td> </tr> <tr> <td>PRIMARY</td> <td>NA</td> </tr> <tr> <td>DISTRIBUTION</td> <td>STAR</td> </tr> </table><br><table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>TOTAL LOOP</td> <td>22282.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td>2699.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td>300.0</td> </tr> <tr> <td>PRIMARY</td> <td>19283.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </table> |  |                                                                                                                      | PRIMARY | STAR | PRIMARY | NA | DISTRIBUTION | STAR | TOTAL LOOP | 22282.0 | DISTRIBUTION | 2699.0 | SUB-PRIMARY | 300.0 | PRIMARY | 19283.0 | PRIMARY-EXTENSION |  |
| PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | STAR    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                      |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NA      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                      |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | STAR    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                      |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| TOTAL LOOP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22282.0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                      |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| DISTRIBUTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2699.0  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                      |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| SUB-PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 300.0   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                      |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| PRIMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19283.0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                      |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| PRIMARY-EXTENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                      |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| <b>LOOP LENGTH AT EACH COST BAND</b><br>BAND 1 <input type="text"/><br>BAND 2 <input type="text"/><br>BAND 3 <input type="text"/><br>BAND 4 <input type="text"/><br>BAND 5 <input type="text"/>                                                                                                                                                                                                                                                                                                                                                                                                 |         | <b>DISTRIBUTION OF COST BANDS IN THE NETWORK</b><br>BAND 1 <input type="text"/><br>BAND 2 <input type="text"/><br>BAND 3 <input type="text"/><br>BAND 4 <input type="text"/><br>BAND 5 <input type="text"/>                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                      |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |
| LAST <input type="text" value="22282.0"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         | LAST <input type="text" value="1.0000"/> <input type="text" value="2699.0"/> Hint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                      |         |      |         |    |              |      |            |         |              |        |             |       |         |         |                   |  |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|
| C:\123R24\LCATR073\SPAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <b>LOOP COST ANALYSIS TOOL</b>                                                              |  | Bellcore <sup>®</sup>                                                                                                |
| INPUT - PLANT_CHAR.<br>Sheet 1 / 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | LOOP FACILITY INPUT<br>LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS<br>FOR              |  | LCAT Rel : 1.0.4<br>Issued : 07/31/95<br>STUDY YR : 1996<br>TEST CASE : 1<br>LAST UPDATE : 09-Dec-96<br>TIME : 09:14 |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | INVESTMENT YEAR : 1996<br>LOOP STUDY YEAR : 1996<br>SERVICE CLASS : BAND 2 - RESIDENCE LINE |  |                                                                                                                      |
| <b>FLAT RATE BASIS DATA WITHOUT COST BANDS<br/>FOR A NETWORK CIRCUIT CASE STUDY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                             |  |                                                                                                                      |
| <div style="text-align: center; margin-bottom: 10px;"> <b>LOOP LENGTH</b><br/> <span style="border: 1px solid black; display: inline-block; width: 100px; height: 10px; margin: 0 auto;"></span><br/> <b>22282 FEET</b> </div> <p style="text-align: center; margin-top: 10px;"> <b>NETWORK INTERFACE</b>    <b>SERVICE ACCESS POINT</b>    <b>SERVING AREA INTERFACE</b>    <b>REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE)</b>    <b>REMOTE NODE (LOOP TRANSFER)</b>    <b>FIBER HUB</b>    <b>END OFFICE</b> </p> |  |                                                                                             |  |                                                                                                                      |

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## LOOP COST ANALYSIS TOOL

Bellcore (R)

INPUT - PLANT\_CHAR.  
Sheet 1 of 2LOOP FACILITY INPUT  
HELP SCREENLCAT Rel :1.0.4  
Issued : 07/31/95

## AVERAGE NETWORK STUDY -

This mode of LCAT is used where the cost study may be broad in scope and lack sufficient detail data to use the Loop OSP cost calculators on Sheets 2, 3, and 4. Instead, it relies on table data from the FACILITY file, representing jurisdictional average value mixes or proportions. Input for these values is placed on Sheet 1.

## INDIVIDUAL CIRCUIT STUDY -

This mode of LCAT is used to cost study circuit specifics on an individual Circuit Basis for Request For Proposals, Special Constructions, and CENTREX-like Services. Data input is usually actual per the circuit configuration's span by span requirements as detailed by Product Management. This mode will require the use of the Loop OSP calculators on Sheets 2, 3, and 4.

## DATA SAMPLE NETWORK STUDY -

This mode of LCAT functions well with the Loop OSP cost calculators on Sheets 2, 3, and 4. The data samples are inputted on the sheets cumulatively and cost calculated directly. Then the weightings formulae are applied to create an average weighted Loop cost per pair foot.

## BANDWIDTH AVERAGING -

This feature of LCAT permits study level weighting of fiber multiplexer bandwidth transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the mix of usage develops a more precise unit investment to the feeder calculations.

\*\*\*\*\* THE INPUT DATA NAMES IN RED CROSS--REFERENCE TO THEIR DATA CATALOG NAMES \*\*\*\*\*

\*\*\*\*\*PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION\*\*\*\*\*

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| CA123R24\LCATR073\SPAN                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LOOP COST ANALYSIS TOOL | Bellcore (R)                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------|
| INPUT = FRONT CHAR.<br>Sheet 2 of 2                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | HELP SCREEN             | LCAT Ver : 1.0.4<br>Issued : 07/31/95 |
| COST DETAILS                                                                                                                                                                                                        | <p>When the Loop Study is specified as <u>DISTANCE SENSITIVE</u>, the data required is inputted as part of STUDY SETUP input and the ROUTE TO AIR RATIO [ B ] on WORKSHEET F and the resultant Rate Band delimiters are copied into the RATE BANDS field on SCREEN 1 by the System. The SPAN LENGTHS data is input by the User.</p> <p>When the Loop Study is specified as <u>FLAT RATE</u>, then ALL the data required is input on SCREEN 1 in the COST BANDS field and/or SPAN LENGTHS field by the User.</p>                                                           |                         |                                       |
| LOOP TOPOLOGY                                                                                                                                                                                                       | <p>When the Loop Topology ( circuit layout format ) for the Feeder Layer is specified as <u>STAR</u>, the Primary Feeder ( C.O. to HUB ) is variable and the Feeder Extension ( HUB to R.T. ) is held as an average length link. When the Loop Topology is specified as <u>RING</u>, the Primary Feeder is held as an average length link and the Feeder Extension is variable. This Input Sheet is adjusted to each possibility. The SPAN LENGTHS input cells are rearranged to support the Topology specified and only request the necessary data that is required.</p> |                         |                                       |
| <p>***** THE INPUT DATA NAMES IN RED CROSS-REFERENCE TO THEIR DATA CATALOG NAMES *****<br/>***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION *****</p> <p>PRESS 'ENTER' TO RETURN TO THE MAIN MENU</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |                                       |

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| C:\123R24\LCATR073\SPAN                        |        |  | <b>LOOP COST ANALYSIS TOOL</b>                                                                  |                                     |                                             |                                     | Bellcore (R)                                                            |                                     |
|------------------------------------------------|--------|--|-------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------|-------------------------------------|-------------------------------------------------------------------------|-------------------------------------|
| INPUT - PLANT_CHAR.<br>Sheet 2a / 5            |        |  | LOOP FACILITY INPUT<br>FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER              |                                     |                                             |                                     | LCAT Rel: 1.0.4<br>Issued: 07/31/95                                     |                                     |
| COMPANY: 0<br>CITY / AREA: 0<br>STATE / ZIP: 0 |        |  | FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |                                     |                                             |                                     | STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-96<br>TIME: 09:14 |                                     |
| NETWORK CIRCUIT LAYOUT STUDIES                 |        |  | WORKSHEET A                                                                                     |                                     |                                             |                                     |                                                                         |                                     |
|                                                |        |  | AERIAL FIBER                                                                                    |                                     | BURIED FIBER                                |                                     | UNDERGROUND FIBER                                                       |                                     |
|                                                |        |  | CUMULATIVE<br>FEEDER<br>LENGTH                                                                  | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT | CUMULATIVE<br>FEEDER<br>LENGTH              | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT | CUMULATIVE<br>FEEDER<br>LENGTH                                          | EFFECTIVE<br>LENGTH BY<br>PAIR FOOT |
| CAPACITY<br>[C]                                | idx    |  | [D <sub>A</sub> ]                                                                               | [E <sub>A</sub> ]                   | [D <sub>B</sub> ]                           | [E <sub>B</sub> ]                   | [D <sub>U</sub> ]                                                       | [E <sub>U</sub> ]                   |
| 4 FIBER CABLE                                  | 2 pr   |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 6 FIBER CABLE                                  | 3 pr   |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 12 FIBER CABLE                                 | 6 pr   |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 18 FIBER CABLE                                 | 9 pr   |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 24 FIBER CABLE                                 | 12 pr  |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 36 FIBER CABLE                                 | 18 pr  |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 48 FIBER CABLE                                 | 24 pr  |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 60 FIBER CABLE                                 | 30 pr  |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 72 FIBER CABLE                                 | 36 pr  |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 84 FIBER CABLE                                 | 42 pr  |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 96 FIBER CABLE                                 | 48 pr  |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 144 FIBER CABLE                                | 72 pr  |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 192 FIBER CABLE                                | 96 pr  |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| 216 FIBER CABLE                                | 108 pr |  |                                                                                                 | 0.0                                 |                                             | 0.0                                 |                                                                         | 0.0                                 |
| CUMULATIVE LENGTHS OF FEEDER:                  |        |  |                                                                                                 |                                     | EFFECTIVE CABLE LENGTHS BY CABLE PAIR FOOT: |                                     |                                                                         |                                     |
| AERIAL FIBER SUBTOTAL                          |        |  |                                                                                                 | 0                                   | AERIAL FIBER SUBTOTAL                       |                                     |                                                                         | 0.0                                 |
| BURIED FIBER SUBTOTAL                          |        |  |                                                                                                 | 0                                   | BURIED FIBER SUBTOTAL                       |                                     |                                                                         | 0.0                                 |
| UNDGRD FIBER SUBTOTAL                          |        |  |                                                                                                 | 0                                   | UNDGRD FIBER SUBTOTAL                       |                                     |                                                                         | 0.0                                 |
| FIBER SUBTOTAL                                 |        |  |                                                                                                 | 0                                   | FIBER SUBTOTAL                              |                                     |                                                                         | 0.0                                 |

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| C:\123R24\LCATR073\SPAN                                                                                                                                                                                          |        | <b>LOOP COST ANALYSIS TOOL</b>                                                                                                                |         |                    |         | Bellcore <sup>®</sup>                                                                                          |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------|---------|----------------------------------------------------------------------------------------------------------------|---------|
| PLANT CHAR - WORKSHEET 2B<br>Sheet 2b / 5                                                                                                                                                                        |        | LOOP FACILITY INPUT<br><b>FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER</b><br>FOR<br>INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996 |         |                    |         | LCAT Ref: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-96<br>TIME: 00:14 |         |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE: OHIO                                                                                                                                          |        | SERVICE CLASS: BAND 2 - RESIDENCE LINE                                                                                                        |         |                    |         |                                                                                                                |         |
| <b>NETWORK CIRCUIT LAYOUT STUDIES</b>                                                                                                                                                                            |        |                                                                                                                                               |         | <b>WORKSHEET B</b> |         |                                                                                                                |         |
| <p>             EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E] WKSH A / [F] WKSH C<br/>             CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A] * [C] * UNIT INV FACILITY WKSH B           </p> |        |                                                                                                                                               |         |                    |         |                                                                                                                |         |
| CAPACITY                                                                                                                                                                                                         |        | AERIAL FIBER                                                                                                                                  |         | BURIED FIBER       |         | UNDERGROUND FIBER                                                                                              |         |
| [C]                                                                                                                                                                                                              | idx    | [A]                                                                                                                                           | [B]     | [A]                | [B]     | [A]                                                                                                            | [B]     |
| For these sizes ...                                                                                                                                                                                              |        |                                                                                                                                               |         |                    |         |                                                                                                                |         |
| 4 FIBER CABLE                                                                                                                                                                                                    | 2 pr   | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 6 FIBER CABLE                                                                                                                                                                                                    | 3 pr   | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 12 FIBER CABLE                                                                                                                                                                                                   | 6 pr   | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 18 FIBER CABLE                                                                                                                                                                                                   | 9 pr   | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 24 FIBER CABLE                                                                                                                                                                                                   | 12 pr  | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 36 FIBER CABLE                                                                                                                                                                                                   | 18 pr  | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 48 FIBER CABLE                                                                                                                                                                                                   | 24 pr  | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 60 FIBER CABLE                                                                                                                                                                                                   | 30 pr  | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 72 FIBER CABLE                                                                                                                                                                                                   | 36 pr  | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 84 FIBER CABLE                                                                                                                                                                                                   | 42 pr  | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 96 FIBER CABLE                                                                                                                                                                                                   | 48 pr  | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 144 FIBER CABLE                                                                                                                                                                                                  | 72 pr  | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 192 FIBER CABLE                                                                                                                                                                                                  | 96 pr  | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| 216 FIBER CABLE                                                                                                                                                                                                  | 108 pr | 0.000                                                                                                                                         | \$ 0.00 | 0.000              | \$ 0.00 | 0.000                                                                                                          | \$ 0.00 |
| SUBTOTAL                                                                                                                                                                                                         |        | \$ 0.00                                                                                                                                       |         | \$ 0.00            |         | \$ 0.00                                                                                                        |         |

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| C:\123R24\LCATR073\SPAN                                                        |                | LOOP COST ANALYSIS TOOL                                                              |        |        |        |        |        | Bellcore                                                                |        |        |         |
|--------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------|--------|--------|---------|
| INPUT - PLANT CHAR.<br>Sheet 3a / 5                                            |                | LOOP FACILITY INPUT<br>COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER<br>FOR |        |        |        |        |        | LCAT Ref: 1.0.4<br>Issued: 07/31/95                                     |        |        |         |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENC   |        |        |        |        |        | STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-96<br>TIME: 09:14 |        |        |         |
| NETWORK CIRCUIT LAYOUT STUDIES                                                 |                | WORKSHEET A<br>CUMULATIVE LENGTHS BY CABLE PAIR FOOT                                 |        |        |        |        |        |                                                                         |        |        |         |
| CABLE SHEATH SIZES                                                             | CAPACITY<br>pr | 26 GA.                                                                               |        |        | 24 GA. |        |        | 22 GA.                                                                  |        |        |         |
|                                                                                |                | AERIAL                                                                               | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD | AERIAL                                                                  | BURIED | UNDGRD |         |
| 40 COPPER CABLE                                                                | 20 pr          |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 50 COPPER CABLE                                                                | 25 pr          |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 80 COPPER CABLE                                                                | 40 pr          |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 100 COPPER CABLE                                                               | 50 pr          |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 140 COPPER CABLE                                                               | 70 pr          |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 200 COPPER CABLE                                                               | 100 pr         |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 400 COPPER CABLE                                                               | 200 pr         |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 600 COPPER CABLE                                                               | 300 pr         |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 800 COPPER CABLE                                                               | 400 pr         |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 1200 COPPER CABLE                                                              | 600 pr         |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 1800 COPPER CABLE                                                              | 900 pr         |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 2400 COPPER CABLE                                                              | 1200 pr        |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 3000 COPPER CABLE                                                              | 1500 pr        |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 3600 COPPER CABLE                                                              | 1800 pr        |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 4200 COPPER CABLE                                                              | 2100 pr        |                                                                                      |        |        |        |        |        |                                                                         |        |        |         |
| 4800 COPPER CABLE                                                              | 2400 pr        |                                                                                      |        |        |        |        |        |                                                                         |        |        | 0.0     |
| 5400 COPPER CABLE                                                              | 2700 pr        |                                                                                      |        |        |        |        |        |                                                                         |        |        | fdrcprf |
| 6000 COPPER CABLE                                                              | 3000 pr        |                                                                                      |        |        |        |        |        |                                                                         |        |        | 0.0     |
| 7200 COPPER CABLE                                                              | 3600 pr        |                                                                                      |        |        |        |        |        |                                                                         |        |        | fdrcprf |
| 8400 COPPER CABLE                                                              | 4200 pr        |                                                                                      |        |        |        |        |        |                                                                         |        |        | 0.0     |
| SUB TOTALS                                                                     |                | 0.0                                                                                  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                                                                     | 0.0    | 0.0    | fdrcprf |
| TOTALS                                                                         |                |                                                                                      |        | 0.0    |        |        | 0.0    |                                                                         |        | 0.0    | fdrcprf |

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| C:\123R24\LCATR0731\SPAN                                                |          |     | LOOP COST ANALYSIS TOOL                                                         |        |        |        |        |        | Bellcore                                                                   |        |        |
|-------------------------------------------------------------------------|----------|-----|---------------------------------------------------------------------------------|--------|--------|--------|--------|--------|----------------------------------------------------------------------------|--------|--------|
| PLANT CHAR - WORKSHEET 3B<br>Sheet 3b / 5                               |          |     | LOOP FACILITY INPUT<br>COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER<br>FOR |        |        |        |        |        | LCAT Rel : 1.0.4<br>Issued : 07/31/95                                      |        |        |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE: OHIO |          |     | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996                                  |        |        |        |        |        | STUDY YR : 1996<br>TEST CASE : 1<br>LAST UPDATE: 09-Dec-96<br>TIME : 09:14 |        |        |
| SERVICE CLASS: BAND 2 - RESIDENK                                        |          |     | WORKSHEET B                                                                     |        |        |        |        |        |                                                                            |        |        |
| NETWORK CIRCUIT LAYOUT STUDIES                                          |          |     | CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT                                      |        |        |        |        |        |                                                                            |        |        |
| CABLE SHEATH SIZES                                                      |          |     | 26 GA.                                                                          |        |        | 24 GA. |        |        | 22 GA.                                                                     |        |        |
|                                                                         | CAPACITY | idx | AERIAL                                                                          | BURIED | UNOGRD | AERIAL | BURIED | UNOGRD | AERIAL                                                                     | BURIED | UNOGRD |
| 40 COPPER CABLE                                                         | 20 pr    | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 50 COPPER CABLE                                                         | 25 pr    | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 80 COPPER CABLE                                                         | 40 pr    | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 100 COPPER CABLE                                                        | 50 pr    | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 140 COPPER CABLE                                                        | 70 pr    | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 200 COPPER CABLE                                                        | 100 pr   | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 400 COPPER CABLE                                                        | 200 pr   | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 600 COPPER CABLE                                                        | 300 pr   | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 800 COPPER CABLE                                                        | 400 pr   | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 1200 COPPER CABLE                                                       | 600 pr   | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 1800 COPPER CABLE                                                       | 900 pr   | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 2400 COPPER CABLE                                                       | 1200 pr  | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 3000 COPPER CABLE                                                       | 1500 pr  | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 3600 COPPER CABLE                                                       | 1800 pr  | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 4200 COPPER CABLE                                                       | 2100 pr  | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 4800 COPPER CABLE                                                       | 2400 pr  | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 5400 COPPER CABLE                                                       | 2700 pr  | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 6000 COPPER CABLE                                                       | 3000 pr  | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 7200 COPPER CABLE                                                       | 3600 pr  | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| 8400 COPPER CABLE                                                       | 4200 pr  | \$  | 0.00                                                                            | 0.00   | 0.00   | 0.00   | 0.00   | 0.00   | 0.00                                                                       | 0.00   | 0.00   |
| AERIAL CABLE SUBTOTAL                                                   |          |     | 0.00                                                                            |        |        | 0.00   |        |        | 0.00                                                                       |        |        |
| BURIED CABLE SUBTOTAL                                                   |          |     |                                                                                 | 0.00   |        |        | 0.00   |        |                                                                            | 0.00   |        |
| UNOGRD CABLE SUBTOTAL                                                   |          |     |                                                                                 |        | 0.00   |        |        | 0.00   |                                                                            |        | 0.00   |

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PROVIDED TO

| C:\123R24\LCATR073\SPAN                                                        |                 | LOOP COST ANALYSIS TOOL                                                                    |        |        |        |        |        | Bellcore                                                                  |        |           |
|--------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|---------------------------------------------------------------------------|--------|-----------|
| INPUT - PLANT_CHAR.<br>Sheet 4a / 5                                            |                 | LOOP FACILITY INPUT<br>COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER<br>FOR |        |        |        |        |        | LCAT Ref : 1.0.4<br>Issued : 07/31/95                                     |        |           |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO |                 | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENC         |        |        |        |        |        | STUDY YR : 1996<br>TEST CASE : 1<br>LAST UPDATE: 09-Dec-96<br>TIME: 09:14 |        |           |
| NETWORK CIRCUIT LAYOUT STUDIES                                                 |                 | WORKSHEET A<br>CUMULATIVE LENGTHS BY CABLE PAIR FOOT                                       |        |        |        |        |        |                                                                           |        |           |
| CABLE SHEATH SIZES                                                             | CAPACITY<br>idx | 26 GA.                                                                                     |        |        | 24 GA. |        |        | 22 GA.                                                                    |        |           |
|                                                                                |                 | AERIAL                                                                                     | BURIED | UNDGRD | AERIAL | BURIED | UNDGRD | AERIAL                                                                    | BURIED | UNDGRD    |
| 40 COPPER CABLE                                                                | 20 pr           |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 50 COPPER CABLE                                                                | 25 pr           |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 80 COPPER CABLE                                                                | 40 pr           |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 100 COPPER CABLE                                                               | 50 pr           |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 140 COPPER CABLE                                                               | 70 pr           |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 200 COPPER CABLE                                                               | 100 pr          |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 400 COPPER CABLE                                                               | 200 pr          |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 600 COPPER CABLE                                                               | 300 pr          |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 800 COPPER CABLE                                                               | 400 pr          |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 1200 COPPER CABLE                                                              | 600 pr          |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 1800 COPPER CABLE                                                              | 900 pr          |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 2400 COPPER CABLE                                                              | 1200 pr         |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 3000 COPPER CABLE                                                              | 1500 pr         |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 3600 COPPER CABLE                                                              | 1800 pr         |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 4200 COPPER CABLE                                                              | 2100 pr         |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 4800 COPPER CABLE                                                              | 2400 pr         |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 5400 COPPER CABLE                                                              | 2700 pr         |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 6000 COPPER CABLE                                                              | 3000 pr         |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 7200 COPPER CABLE                                                              | 3600 pr         |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| 8400 COPPER CABLE                                                              | 4200 pr         |                                                                                            |        |        |        |        |        |                                                                           |        |           |
| SUB TOTALS                                                                     |                 | 0.0                                                                                        | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0                                                                       | 0.0    | 0.0       |
| TOTALS                                                                         |                 |                                                                                            |        | 0.0    |        |        | 0.0    |                                                                           |        | 0.0       |
|                                                                                |                 |                                                                                            |        |        |        |        |        |                                                                           |        | 0.0       |
|                                                                                |                 |                                                                                            |        |        |        |        |        |                                                                           |        | distacprf |
|                                                                                |                 |                                                                                            |        |        |        |        |        |                                                                           |        | 0.0       |
|                                                                                |                 |                                                                                            |        |        |        |        |        |                                                                           |        | distacprf |
|                                                                                |                 |                                                                                            |        |        |        |        |        |                                                                           |        | 0.0       |
|                                                                                |                 |                                                                                            |        |        |        |        |        |                                                                           |        | distacprf |
|                                                                                |                 |                                                                                            |        |        |        |        |        |                                                                           |        | 0.0       |

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| CA123R24\LCATR073\SPAN                                   |         | LOOP COST ANALYSIS TOOL                                                               |        |             |        |        |        | Bellcore                              |        |        |        |
|----------------------------------------------------------|---------|---------------------------------------------------------------------------------------|--------|-------------|--------|--------|--------|---------------------------------------|--------|--------|--------|
| PLANT CHAR - WORKSHEET 4B<br>Sheet 4b / 5                |         | LOOP FACILITY INPUT<br>COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER<br>FOR |        |             |        |        |        | LCAT Rev: 1.0.4<br>Issued: 07/31/95   |        |        |        |
| COMPANY: CINCINNATI BELL TEL.<br>CITY / AREA: CINCINNATI |         | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996                                        |        |             |        |        |        | STUDY YR: 1996<br>TEST CASE: 1        |        |        |        |
| STATE: OHIO                                              |         | SERVICE CLASS: BAND 2 - RESIDENC                                                      |        |             |        |        |        | LAST UPDATE: 09-Dec-96<br>TIME: 09:14 |        |        |        |
| NETWORK CIRCUIT LAYOUT STUDIES                           |         |                                                                                       |        | WORKSHEET B |        |        |        |                                       |        |        |        |
| CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT               |         |                                                                                       |        |             |        |        |        |                                       |        |        |        |
| CABLE SHEATH SIZES                                       |         | CAPACITY                                                                              | 26 GA. |             |        | 24 GA. |        |                                       | 22 GA. |        |        |
|                                                          |         | idx                                                                                   | AERIAL | BURIED      | UNDGRD | AERIAL | BURIED | UNDGRD                                | AERIAL | BURIED | UNDGRD |
| 40 COPPER CABLE                                          | 20 pr   | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 50 COPPER CABLE                                          | 25 pr   | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 80 COPPER CABLE                                          | 40 pr   | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 100 COPPER CABLE                                         | 50 pr   | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 140 COPPER CABLE                                         | 70 pr   | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 200 COPPER CABLE                                         | 100 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 400 COPPER CABLE                                         | 200 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 600 COPPER CABLE                                         | 300 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 800 COPPER CABLE                                         | 400 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 1200 COPPER CABLE                                        | 600 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 1800 COPPER CABLE                                        | 900 pr  | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 2400 COPPER CABLE                                        | 1200 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 3000 COPPER CABLE                                        | 1500 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 3600 COPPER CABLE                                        | 1800 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 4200 COPPER CABLE                                        | 2100 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 4800 COPPER CABLE                                        | 2400 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 5400 COPPER CABLE                                        | 2700 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 6000 COPPER CABLE                                        | 3000 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 7200 COPPER CABLE                                        | 3600 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| 8400 COPPER CABLE                                        | 4200 pr | \$                                                                                    | 0.00   | 0.00        | 0.00   | 0.00   | 0.00   | 0.00                                  | 0.00   | 0.00   | 0.00   |
| AERIAL CABLE SUBTOTAL                                    |         |                                                                                       | 0.00   |             |        | 0.00   |        |                                       | 0.00   |        |        |
| BURIED CABLE SUBTOTAL                                    |         |                                                                                       |        | 0.00        |        |        | 0.00   |                                       |        | 0.00   |        |
| UNDGRD CABLE SUBTOTAL                                    |         |                                                                                       |        |             | 0.00   |        |        | 0.00                                  |        |        | 0.00   |

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| C:\123R24\LCATR073\SPAN                                                                                                               |         | LOOP COST ANALYSIS TOOL                                                                  |          |          |        |        |        | Bellcore <sup>®</sup>                                                   |                |                                              |
|---------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------|----------|----------|--------|--------|--------|-------------------------------------------------------------------------|----------------|----------------------------------------------|
| INPUT - PLANT_CHAR.<br>Sheet 5 / 5                                                                                                    |         | LOOP FACILITY INPUT<br>DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX<br>FOR        |          |          |        |        |        | LCAT Rel: 1.0.4<br>Issued: 07/31/95                                     |                |                                              |
| COMPANY: CINCINNATI BELL TEL<br>CITY / AREA: CINCINNATI<br>STATE / PROV: OHIO                                                         |         | INVESTMENT YEAR: 1996<br>LOOP STUDY YEAR: 1996<br>SERVICE CLASS: BAND 2 - RESIDENCE LINE |          |          |        |        |        | STUDY YR: 1996<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-95<br>TIME: 09:14 |                |                                              |
| FIBER BANDWIDTH<br>TRANSMISSION FLOW IS: <input checked="" type="checkbox"/> UNIDIRECTIONAL<br><input type="checkbox"/> BIDIRECTIONAL |         | LEVEL OF SERVICE: NARBAND                                                                |          |          |        |        |        |                                                                         |                |                                              |
| BITRATE INDEX                                                                                                                         | 1       | 2                                                                                        | 3        | 4        | 5      | 6      | 7      | SERVICE LEVEL MULTIPLE (SLM)                                            | PROTECTION (E) | WEIGHTED EQUIVALENT CHANNELS PER EQ PAIR (F) |
| FIBER BANDWIDTH                                                                                                                       | 45 Mbps | 90 Mbps                                                                                  | 155 Mbps | 180 Mbps | 0      | 0      | 0      | 2                                                                       | 1              | 1979.04                                      |
| MUX DS3 MULTIPLIER                                                                                                                    | 1       | 2                                                                                        | 3        | 4        | 0      | 0      | 0      |                                                                         |                |                                              |
| VOICE GRADE CHANNELS                                                                                                                  | 672     | 1344                                                                                     | 2016     | 2688     | 0      | 0      | 0      |                                                                         |                |                                              |
| FEEDER - PRIMARY                                                                                                                      | 0.0000  | 0.1370                                                                                   | 0.7810   | 0.0820   | 0.0000 | 0.0000 | 0.0000 | 2                                                                       | 1              | 1979.04                                      |
| FEEDER - EXTENSION                                                                                                                    | 0.0000  | 0.1370                                                                                   | 0.7810   | 0.0820   | 0.0000 | 0.0000 | 0.0000 | 2                                                                       | 1              | 1979.04                                      |
|                                                                                                                                       |         |                                                                                          |          |          |        |        |        |                                                                         |                |                                              |
|                                                                                                                                       |         |                                                                                          |          |          |        |        |        |                                                                         |                |                                              |
|                                                                                                                                       |         |                                                                                          |          |          |        |        |        |                                                                         |                |                                              |

**FOOTNOTES**

1 Where Service Level Multiple EQUALS {1 for NARBAND, 25 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 3 for Bidirectional}.

2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BR1 -> 7} DIVIDED BY {The [SLM]} TIMES {1 PLUS 1 OVER PROT [E]}

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PLANT CHAR. - WORKSHEET DS  
Sheet 1/1COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIOLCAT Rel: 1.0.4  
Issued: 07/31/95  
STUDY YR: 1996  
TEST CASE: 1  
LAST UPDATE: 09-Dec-95  
TIME: 09:14

## WORKSHEET DS

| DIGITAL SIGNAL TABLE (digsig.tbl) |       |               |        |         |         |                      |
|-----------------------------------|-------|---------------|--------|---------|---------|----------------------|
| SELECT                            | MODE  | HIERARCHY     | BNDWDT | DS1MULT | DS3MULT | VEGE                 |
| 0                                 |       | DS1 1.5 Mbps  |        | 1       | 0.04    | 24 BIDIR 2WCU CA     |
| 1                                 |       | DS1 1.5 Mbps  |        | 1       | 0.04    | 24 UNDIR 2WCU CA     |
| 2                                 | MODE3 | VT 1.5 Mbps   |        | 1       | 0.04    | 24 UNDIR FIBER       |
| 3                                 |       | VT 1.5 Mbps   |        | 1       | 0       | 30 BIDIR 2WCU CA     |
| 4                                 |       | VT 1.5 Mbps   |        | 1       | 0.06    | 48 BIDIR 2WCU CA     |
| 5                                 | MODE1 | DS1C 3.2 Mbps | NA     | 2       | 0.07    | 48 BIDIR 2WCU CA     |
| 6                                 | MODE2 | DS1C 3.2 Mbps |        | 2       | 0.07    | 56 UNDIR FIBER       |
| 7                                 |       | 4 Mbps        |        | 2       | 0       | 60                   |
| 8                                 |       | DS2 8.3 Mbps  |        | 4       | 0.14    | 72 BIDIR 2WCU CA     |
| 9                                 |       | DS2 8.3 Mbps  | NA     | 4       | 0       | 72 BIDIR 2WCU CA     |
| 10                                | MODE4 | VT 8.3 Mbps   |        | 4       | 0.14    | 84 UNDIR FIBER       |
| 11                                |       | E2 8 Mbps     |        | 4       | 0.25    | 120 BIDIR 2WCU CA    |
| 12                                |       | E3 34 Mbps    |        | 16      | 1       | 480                  |
| 13                                |       | DS3 45 Mbps   |        | 28      | 1       | 672 BIDIR 2WCU CA    |
| 14                                | SIS1  | OC1 50 Mbps   |        | 28      | 1       | 672 UNDIR FIBER      |
| 15                                |       | 90 Mbps       |        | 2       | 2       | 1344 UNDIR FIBER     |
| 16                                |       | 90 Mbps       |        | 2       | 2       | 1344 BIDIR MVY RADIO |
| 17                                |       | DS4 135 Mbps  |        | 3       | 3       | 2016 UNDIR FIBER     |
| 18                                |       | 135 Mbps      |        | 3       | 3       | 2016 BIDIR MVY RADIO |
| 19                                | DS4NA | 139 Mbps      |        | 3       | 3       | 2016 UNDIR FIBER     |
| 20                                |       | E4 140 Mbps   |        | 3       | 3       | 1920 UNDIR FIBER     |
| 21                                | 14M   | 139 Mbps      |        | 6       | 6       | 4032 BIDIR COAX      |
| 22                                | PT40  | 139 Mbps      |        | 6       | 6       | 4032 BIDIR COAX      |
| 23                                |       | OC3 155 Mbps  |        | 3       | 3       | 2016 UNDIR FIBER     |
| 24                                |       | 180 Mbps      |        | 4       | 4       | 2688 UNDIR FIBER     |
| 25                                |       | 417 Mbps      |        | 9       | 9       | 6048 UNDIR FIBER     |
| 26                                |       | OC9 466 Mbps  |        | 9       | 9       | 6048 UNDIR FIBER     |
| 27                                |       | OC12 560 Mbps |        | 12      | 12      | 7680 UNDIR FIBER     |
| 28                                |       | 565 Mbps      |        | 12      | 12      | 8064 UNDIR FIBER     |
| 29                                |       | 1.2 Gbps      |        | 24      | 24      | 16128 UNDIR FIBER    |
| 30                                |       | 1.7 Gbps      |        | 36      | 36      | 24192 UNDIR FIBER    |
| 31                                |       | OC24 1.8 Gbps |        | 24      | 24      | 24192 UNDIR FIBER    |
| 32                                |       | 2.5 Gbps      |        | 24      | 24      | 34560 UNDIR FIBER    |
| 33                                |       |               |        |         |         |                      |
| 34                                |       |               |        |         |         |                      |
| 35                                |       |               |        |         |         |                      |
| 36                                |       |               |        |         |         |                      |
| OFFSET                            |       |               |        |         |         |                      |
| 0                                 | 1     | 2             | 3      | 4       | 5       | 6                    |
| 7                                 |       |               |        |         |         |                      |

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PLANT CHAR. - WORKSHEET F  
Sheet 1 of 1

## LOOP LENGTH DEVELOPMENT WORKSHEET

LCAT Rel: 1.0.4

Issued: 07/31/95

COMPANY: CINCINNATI BELL TEL.  
CITY/AREA: CINCINNATI  
STATE: OHIO

FOR  
INVESTMENT YEAR: 1996  
LOOP STUDY YEAR: 1996  
SERVICE CLASS: BAND 2 - RESIDENCE  
WORKSHEET F

STUDY YR.: 1996  
TEST CASE: 1  
LAST UPDATE: 09-Dec-96  
TIME: 09:14

| [A]<br>[B]<br>BAND<br>NUMBER<br>[C] | DISTANCE INCREMENTS:<br>NUMBER OF BANDS:<br>TOTAL<br>WORKING<br>FEET<br>[D=input] | 0 / 4 MILE BETWEEN BANDS<br>0 TO BE CARRIED INTO THE STUDY<br>TOTAL<br>WORKING<br>FEET<br>[E=(B*D)] | [R]<br>[K]<br>TOTAL<br>AIR<br>FEET<br>[F=A*C*K] | ROUTE TO AIR RATIO:<br>UNIT MILE / FEET CONSTANT:<br>LOOP<br>LENGTH<br>@ MIDPOINT<br>[G (see note)] | 1.539947<br>1320<br>WORKING<br>FEET<br>@ MIDPOINT<br>[H=G*R] | ratio |
|-------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------|
| 1                                   |                                                                                   | 0                                                                                                   |                                                 | 0                                                                                                   |                                                              | 0     |
| 2                                   |                                                                                   | 0                                                                                                   |                                                 | 0                                                                                                   |                                                              | 0     |
| 3                                   |                                                                                   | 0                                                                                                   |                                                 | 0                                                                                                   |                                                              | 0     |
| 4                                   |                                                                                   | 0                                                                                                   |                                                 | 0                                                                                                   |                                                              | 0     |
| 5                                   |                                                                                   | 0                                                                                                   |                                                 | 0                                                                                                   |                                                              | 0     |

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NOTE - SPAN MIDPOINT [G] equals the  $\text{SQRT}((F_{\text{CURR}}^2/2) + (F_{\text{PREV}}^2/2))$

ERROR MESSAG 0

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| C:\123R24\LCATR0731SPAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | <b>LOOP COST ANALYSIS TOOL</b> |        |      |   |   |       |       |       |      |       | Bellcore <sup>®</sup>                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------|--------|------|---|---|-------|-------|-------|------|-------|----------------------------------------------------------------------------------------------------------------|
| PLANT CHAR. - WORKSHEET SA<br>Sheet 1 / 1<br>COMPANY: CINCINNATI BELL TEL.<br>CITY/AREA: CINCINNATI<br>STATE/PROV: OHIO                                                                                                                                                                                                                                                                                                                                                                         |       | WORKSHEET SA                   |        |      |   |   |       |       |       |      |       | LCAT Rpt: 1.0.4<br>Issued: 07/31/95<br>STUDY YR: 1995<br>TEST CASE: 1<br>LAST UPDATE: 09-Dec-95<br>TIME: 09:14 |
| <b>Sub Feeder Allocation Table</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                                |        |      |   |   |       |       |       |      |       |                                                                                                                |
| OFFSET<br>SUB Feeder Allocation Table      section alloc      COLOCATED FT AND CF, where<br>cur lplgth = 22282      NO COLOCATED stopo = BUS      COLOCATED Fdstopo = BUS<br>dlcdpl = 14000      (B) distspa = 2699      dstopo = STAF      dstopo = STAF      dstopo = BUS<br>nom_rangcur - dissubfeed      prifeedersubfeed      prifeedersubfeed      prifeedersubfeed      prifeedersubfeed<br>[C] [D=C-I]      [E] [F=D-E]      [G] [H=D-G]      [I] [J=C-I]      [K] [L=C-K]      [M=A-C] |       |                                |        |      |   |   |       |       |       |      |       |                                                                                                                |
| 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0     | 0                              | 0      | 0    | 0 | 0 | 500   | 0     | 500   | 0    | 22282 |                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0     | 0                              | 0      | 0    | 0 | 0 | 1000  | 0     | 1000  | 0    | 21782 |                                                                                                                |
| 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0     | 0                              | 0      | 0    | 0 | 0 | 2000  | 0     | 2000  | 0    | 20282 |                                                                                                                |
| 3000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 301   | 301                            | 0      | 0    | 0 | 0 | 3000  | 0     | 3000  | 0    | 19282 |                                                                                                                |
| 4000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1301  | 1301                           | 0      | 0    | 0 | 0 | 4000  | 0     | 4000  | 0    | 18282 |                                                                                                                |
| 5000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2301  | 2301                           | 0      | 0    | 0 | 0 | 5000  | 0     | 5000  | 0    | 17282 |                                                                                                                |
| 6000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3301  | 3301                           | 0      | 0    | 0 | 0 | 6000  | 0     | 6000  | 0    | 16282 |                                                                                                                |
| 7000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4301  | 4301                           | 0      | 0    | 0 | 0 | 7000  | 0     | 7000  | 0    | 15282 |                                                                                                                |
| 8000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5301  | 5301                           | 0      | 0    | 0 | 0 | 8000  | 0     | 8000  | 0    | 14282 |                                                                                                                |
| 9000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6301  | 6301                           | 0      | 0    | 0 | 0 | 9000  | 0     | 9000  | 0    | 13282 |                                                                                                                |
| 10000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7301  | 7301                           | 0      | 0    | 0 | 0 | 10000 | 0     | 10000 | 0    | 12282 |                                                                                                                |
| 11000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8301  | 8301                           | 0      | 0    | 0 | 0 | 11000 | 0     | 11000 | 0    | 11282 |                                                                                                                |
| 12000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9301  | 9301                           | 0      | 0    | 0 | 0 | 12000 | 0     | 12000 | 0    | 10282 |                                                                                                                |
| 13000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10301 | 10301                          | 0      | 0    | 0 | 0 | 13000 | 0     | 13000 | 0    | 9282  |                                                                                                                |
| 14000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 11301 | 5650.5                         | 5650.5 | 0    | 0 | 0 | 11301 | 7000  | 7000  | 0    | 14000 | 8282                                                                                                           |
| 15000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12301 | 6150.5                         | 6150.5 | 0    | 0 | 0 | 12301 | 7500  | 7500  | 0    | 15000 | 7282                                                                                                           |
| 16000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 13301 | 6650.5                         | 6650.5 | 0    | 0 | 0 | 13301 | 8000  | 8000  | 0    | 16000 | 6282                                                                                                           |
| 17000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14301 | 7150.5                         | 7150.5 | 0    | 0 | 0 | 14301 | 8500  | 8500  | 0    | 17000 | 5282                                                                                                           |
| 18000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 15301 | 7650.5                         | 7650.5 | 0    | 0 | 0 | 15301 | 9000  | 9000  | 0    | 18000 | 4282                                                                                                           |
| 19000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16301 | 8150.5                         | 8150.5 | 0    | 0 | 0 | 16301 | 9500  | 9500  | 0    | 19000 | 3282                                                                                                           |
| 20000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 17301 | 8650.5                         | 8650.5 | 1000 | 0 | 0 | 16301 | 10000 | 10000 | 0    | 20000 | 2282                                                                                                           |
| 80000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 77301 | 11301                          | 66000  | 2000 | 0 | 0 | 75301 | 11301 | 66000 | 1000 | 79000 | -57718                                                                                                         |

**RULES**

**ASSUMPTION** - Table LOOKUP will select from the lower NOM RANGE of a CUR LPLGTH intermediate value

IF CUR\_LPLGTH is

- = < DISTSPAN, then CUR\_SEGLGTH<sup>cur</sup> Equals CUR LPLGTH - NOM\_RANGE difference
- > DISTSPAN and < DLCDEPL, then CUR\_SEGLGTH<sup>stat</sup> Equals CUR LPLGTH - NOM\_RANGE difference
- = > DLCDEPL, then CUR\_SEGLGTH<sup>prior</sup> Equals CUR LPLGTH - NOM\_RANGE difference

**CUR\_SEGLGTH** - Calculation Assumptions

The DISTSPAN can not exceed the DLCDEPL value input on CRITERIA.

Therefore, set the DLCDEPL at the DISTSPAN to get an ALL FIBER Network.

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**OHIO ONLY**  
**3 Geographic Areas**

07/26/96  
Revised

**Band 1**

|   |                 |
|---|-----------------|
| 1 | 0-12,000        |
| 2 | # Of Entries    |
| 3 | 12,001-INFINITY |
| 4 | # Of Entries    |
| 5 | Ratio           |
| 6 | 0-12,000        |
| 7 | 12,001-INFINITY |

| Residence                 |                           |                      |
|---------------------------|---------------------------|----------------------|
| Average<br>F1 Length<br>A | Average<br>F2 Length<br>B | Average<br>Loop<br>C |
| 6,081                     | 1,103                     | 7,184                |
| 107                       |                           |                      |
| 14,881                    | 2,346                     | 17,228               |
| 53                        |                           |                      |
|                           |                           |                      |
| 0.5744                    |                           |                      |
| 0.4256                    |                           |                      |
| 1.0000                    |                           |                      |

| Business                  |                           |                      |
|---------------------------|---------------------------|----------------------|
| Average<br>F1 Length<br>D | Average<br>F2 Length<br>E | Average<br>Loop<br>F |
| 5,765                     | 638                       | 6,403                |
| 255                       |                           |                      |
| 13,630                    | 2,046                     | 15,677               |
| 38                        |                           |                      |
|                           |                           |                      |
| 0.7433                    |                           |                      |
| 0.2567                    |                           |                      |
| 1.0000                    |                           |                      |

**Band 2**

|    |                 |
|----|-----------------|
| 8  | 0-14,000        |
| 9  | # Of Entries    |
| 10 | 14,001-INFINITY |
| 11 | # Of Entries    |
| 12 | Ratio           |
| 13 | 0-14,000        |
| 14 | 14,001-INFINITY |

| Average<br>F1 Length<br>A | Average<br>F2 Length<br>B | Average<br>Loop<br>C |
|---------------------------|---------------------------|----------------------|
| 6,697                     | 1,836                     | 8,534                |
| 69                        |                           |                      |
| 19,582                    | 2,699                     | 22,282               |
| 70                        |                           |                      |
|                           |                           |                      |
| 0.4964                    |                           |                      |
| 0.5036                    |                           |                      |
| 1.0000                    |                           |                      |

| Average<br>F1 Length<br>D | Average<br>F2 Length<br>E | Average<br>Loop<br>F |
|---------------------------|---------------------------|----------------------|
| 5,698                     | 1,013                     | 6,711                |
| 90                        |                           |                      |
| 21,785                    | 1,989                     | 23,774               |
| 74                        |                           |                      |
|                           |                           |                      |
| 0.5488                    |                           |                      |
| 0.4512                    |                           |                      |
| 1.0000                    |                           |                      |

**Band 3**

|    |                 |
|----|-----------------|
| 15 | 0-18,000        |
| 16 | # Of Entries    |
| 17 | 18,001-INFINITY |
| 18 | # Of Entries    |
| 19 | Ratio           |
| 20 | 0-18,000        |
| 21 | 18,001-INFINITY |

| Average<br>F1 Length<br>A | Average<br>F2 Length<br>B | Average<br>Loop<br>C |
|---------------------------|---------------------------|----------------------|
| 4,845                     | 1,981                     | 6,825                |
| 46                        |                           |                      |
| 23,301                    | 4,826                     | 28,127               |
| 56                        |                           |                      |
|                           |                           |                      |
| 0.4510                    |                           |                      |
| 0.5490                    |                           |                      |
| 1.0000                    |                           |                      |

| Average<br>F1 Length<br>D | Average<br>F2 Length<br>E | Average<br>Loop<br>F |
|---------------------------|---------------------------|----------------------|
| 4,512                     | 1,006                     | 5,608                |
| 41                        |                           |                      |
| 23,890                    | 2,479                     | 27,360               |
| 60                        |                           |                      |
|                           |                           |                      |
| 0.5735                    |                           |                      |
| 0.4265                    |                           |                      |
| 1.0000                    |                           |                      |

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447  
448  
449

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FEB 28 1987  
DOCKETING DIVISION  
Public Utilities Commission

EXHIBIT NOs.  
44-48

**OHIO ONLY**  
**REVISED JAN 1997 VERSION**  
**BAND 3**  
**RESIDENCE LINE**  
**UNBUNDLED**

MCI Depo.  
Ex. No. 44  
DSH 11-26-97



# INDEX

## BAND 3

### Residence Line

|                              |                     |       |
|------------------------------|---------------------|-------|
| Copper Study -               | Results.....        | Tab 1 |
|                              | Outputs.....        | Tab 2 |
|                              | Inputs.....         | Tab 3 |
|                              | Miscellaneous ..... | Tab 4 |
| Digital Loop Carrier Study - | Results .....       | Tab 5 |
|                              | Outputs.....        | Tab 6 |
|                              | Inputs.....         | Tab 7 |
|                              | Miscellaneous ..... | Tab 8 |

A  
B  
C  
D  
E  
F  
GC:\123R24\LCAT074\RESULTS1  
OUTPUT - REPORT D  
SHEET 1 of 1**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT SUMMARY REPORT

Bellcore®

LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:49COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 6825 FEETLoop Span Set Weighting: ☐ 1 UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A BAND STUDYWEIGHTED  
TOTAL  
LOOPPLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK  
SEG. NAME PRIMARY EXTENSION SUB- INTERFACEEQPT  
CODE  
SEG. LGTH.PLANT  
ITEM DESCRIPTION**SHARED RESOURCES**

|    |                        |      |         |         |         |         |         |           |
|----|------------------------|------|---------|---------|---------|---------|---------|-----------|
| 8  | LAND                   | 20C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 9  | BUILDING               | 10C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 10 | BLDG ENTRANCE CABLE    | 12C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 11 | INTRABLDG CABLE        | 52C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 12 | AERIAL CABLE (COPPER)  | 22C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 13 | BURIED CABLE (COPPER)  | 45C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 14 | UNDERGROUND (CU) CA.   | 5C   | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 15 | CO EQPT - LOW CAP TERM | 257C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 16 | CO EQPT - LOW CAP CHAN | 257C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 17 | CO EQPT - HI CAP TERM  | 857C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 18 | CO EQPT - HI CAP CHAN  | 857C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 19 | CO EQPT - ANALOG SW    | 77C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 20 | CO EQPT - DIGITAL SW   | 377C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 21 | AERIAL CABLE (FIBER)   | 822C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 22 | BURIED CABLE (FIBER)   | 845C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 23 | UNDERGROUND (FO) CA.   | 85C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 24 | CONNECTORS             | 57C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 25 | MISC. COM EQP & PWR    | 57C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 26 | POLE LINE              | 1C   | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 27 | CONDUIT                | 4C   | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |

**DIRECT RESOURCES**

|    |                        |      |         |         |         |         |         |           |
|----|------------------------|------|---------|---------|---------|---------|---------|-----------|
| 30 | LAND                   | 20C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 31 | BUILDING               | 10C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 32 | BLDG ENTRANCE CABLE    | 12C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 2.40 | \$ 2.3950 |
| 33 | INTRABLDG CABLE        | 52C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 34 | AERIAL CABLE (COPPER)  | 22C  | \$ 0.00 | \$ 0.00 | \$ 2.43 | \$ 4.51 | \$ 0.00 | \$ 6.9400 |
| 35 | BURIED CABLE (COPPER)  | 45C  | \$ 0.00 | \$ 0.00 | \$ 0.17 | \$ 4.60 | \$ 0.00 | \$ 4.7700 |
| 36 | UNDERGROUND (CU) CA.   | 5C   | \$ 0.00 | \$ 0.00 | \$ 0.43 | \$ 0.00 | \$ 0.00 | \$ 0.4300 |
| 37 | CO EQPT - LOW CAP TERM | 257C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 38 | CO EQPT - LOW CAP CHAN | 257C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 39 | CO EQPT - HI CAP TERM  | 857C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 40 | CO EQPT - HI CAP CHAN  | 857C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 41 | CO EQPT - ANALOG SW    | 77C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 42 | CO EQPT - DIGITAL SW   | 377C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 43 | AERIAL CABLE (FIBER)   | 822C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 44 | BURIED CABLE (FIBER)   | 845C | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 45 | UNDERGROUND (FO) CA.   | 85C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 46 | CONNECTORS             | 57C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 47 | MISC. COM EQP & PWR    | 57C  | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.00 | \$ 0.0000 |
| 48 | POLE LINE              | 1C   | \$ 0.00 | \$ 0.00 | \$ 0.58 | \$ 1.68 | \$ 0.00 | \$ 1.6600 |
| 49 | CONDUIT                | 4C   | \$ 0.00 | \$ 0.00 | \$ 0.15 | \$ 0.00 | \$ 0.00 | \$ 0.1500 |

SPAN SUMMARY

|         |         |         |          |         |          |
|---------|---------|---------|----------|---------|----------|
| \$ 0.00 | \$ 0.00 | \$ 3.76 | \$ 10.19 | \$ 2.40 | \$ 16.35 |
|         |         |         |          |         | \$ 16.35 |

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C:\123R24\LCATR074\RESULTS1  
OUTPUT - COST\_REPORTS

**Bellcore** (R)  
LCAT  
Release: 1.0.4  
Issued: 7/31/95

### LOOP COST ANALYSIS TOOL

#### COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 3 (OHIO-UNBUNDLED) RESIDENCE LINE STUDY 0 - 18000 FEET IN

CURRENT TEST PLAN :

|                               |           |           |         |           |
|-------------------------------|-----------|-----------|---------|-----------|
| CURRENT JOB IDENT. CINCINNATI |           |           |         |           |
| BASIS                         | NETWORK   | TEST CASE | 1       | LAST SAVE |
| FR / DS                       | FLAT RATE | #BANDS    | 0       | 20-Jan-97 |
| SVC LEVEL                     | NARBAND   | #CKTS     | 1       | 13:20     |
| CST METH                      | UN INCR   | INV LEVEL | ANNCOST | TIME      |

**CONFIDENTIAL** .....your reports ready for viewing  
NOTICE MUST BE GIVEN  
PRIOR TO RELEASE TO PUBLIC  
PROVIDED TO PUCQ

PROPRIETARY - NOT FOR USE/DISCLOSURE OUTSIDE Bellcore WITHOUT LICENSED PERMISSION

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C:\123R24\LCATR074\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 1 of 10

COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATI

LOOP COST ANALYSIS TOOL  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

CIRCUIT DESIGN: 1 CDLC  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 6825 FEET

LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:49

Bellcore®

012345678910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455

Circuit Design Mix: 1.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

PLANT NAME  
SEG. NAME  
EQPT  
CODE

PRIMARY

FEEDER  
EXTENSION

SUB--

DISTRIBUTION NETWORK  
INTERFACE

TOTAL  
LOOP

WEIGHTED  
TOTAL  
LOOP

PLANT  
ITEM DESCRIPTION

SHARED RESOURCES

LAND 20C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BUILDING 10C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BLDG ENTRANCE CABLE 12C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

INTRABLDG CABLE 52C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

AERIAL CABLE (COPPER) 22C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BURIED CABLE (COPPER) 45C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

UNDERGROUND (CU) CA. 5C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - LOW CAP TERM 257C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - LOW CAP CHAN 257C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - HI CAP TERM 857C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - HI CAP CHAN 857C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - ANALOG SW 77C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - DIGITAL SW 377C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

AERIAL CABLE (FIBER) 822C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BURIED CABLE (FIBER) 845C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

UNDERGROUND (FO) CA. 85C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CONNECTORS 57C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

MISC. COM EQP & PWR 57C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

POLE LINE 1C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CONDUIT 4C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

DIRECT RESOURCES

LAND 20C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BUILDING 10C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BLDG ENTRANCE CABLE 12C \$ 0.00 \$ 0.00 \$ 0.00 \$ 2.40 \$ 2.40 \$ 2.40

INTRABLDG CABLE 52C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

AERIAL CABLE (COPPER) 22C \$ 0.00 \$ 2.43 \$ 4.51 \$ 6.94 \$ 6.94 \$ 6.94

BURIED CABLE (COPPER) 45C \$ 0.00 \$ 0.17 \$ 4.60 \$ 4.77 \$ 4.77 \$ 4.77

UNDERGROUND (CU) CA. 5C \$ 0.00 \$ 0.43 \$ 0.00 \$ 0.43 \$ 0.43 \$ 0.43

CO EQPT - LOW CAP TERM 257C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - LOW CAP CHAN 257C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - HI CAP TERM 857C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - HI CAP CHAN 857C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - ANALOG SW 77C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CO EQPT - DIGITAL SW 377C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

AERIAL CABLE (FIBER) 822C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

BURIED CABLE (FIBER) 845C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

UNDERGROUND (FO) CA. 85C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

CONNECTORS 57C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

MISC. COM EQP & PWR 57C \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00

POLE LINE 1C \$ 0.00 \$ 0.52 \$ 1.08 \$ 1.66 \$ 1.66 \$ 1.66

CONDUIT 4C \$ 0.00 \$ 0.15 \$ 0.00 \$ 0.15 \$ 0.15 \$ 0.15

SPAN SUMMARY \$ 0.00 \$ 0.00 \$ 0.76 \$ 10.19 \$ 2.40 \$ 16.35 \$ 16.35

CIRCUIT DESIGN SUMMARY \$ 16.35

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GCM123R24\LCATR074\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 2 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Bellcore** (R)

LCAT Rel: 1.0.4

Issued: 7/31/95

STUDY YR: 1996

TEST CASE: 1

DATE: 27-Jan-97

TIME: 08:49

COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 2 CDLC  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 6825 FEET

| Circuit Design Mix: 0.0000 |                               | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |        |           |      |                                   | TOTAL<br>LOOP | WEIGHTED<br>TOTAL<br>LOOP |
|----------------------------|-------------------------------|------------------------------------------------------------|--------|-----------|------|-----------------------------------|---------------|---------------------------|
| PLANT NAME                 | SEG. NAME                     | PRIMARY                                                    | FEEDER | EXTENSION | SUB- | DISTRIBUTION NETWORK<br>INTERFACE |               |                           |
| EQPT<br>CODE               |                               |                                                            |        |           |      |                                   |               |                           |
| PLANT                      | ITEM DESCRIPTION              |                                                            |        |           |      |                                   |               |                           |
|                            | <b>SHARED RESOURCES</b>       |                                                            |        |           |      |                                   |               |                           |
|                            | LAND                          | 20C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | BUILDING                      | 10C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | BLDG ENTRANCE CABLE           | 12C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | INTRABLDG CABLE               | 52C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | AERIAL CABLE (COPPER)         | 22C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | BURIED CABLE (COPPER)         | 45C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | UNDERGROUND (CU) CA.          | 5C                                                         |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - LOW CAP TERM        | 257C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - LOW CAP CHAN        | 257C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - HI CAP TERM         | 857C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - HI CAP CHAN         | 857C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - ANALOG SW           | 77C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - DIGITAL SW          | 377C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | AERIAL CABLE (FIBER)          | 822C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | BURIED CABLE (FIBER)          | 845C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | UNDERGROUND (FO) CA.          | 85C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | CONNECTORS                    | 57C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | MISC. COM EQP & PWR           | 57C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | POLE LINE                     | 1C                                                         |        |           |      |                                   | \$0           | \$0                       |
|                            | CONDUIT                       | 4C                                                         |        |           |      |                                   | \$0           | \$0                       |
|                            | <b>DIRECT RESOURCES</b>       |                                                            |        |           |      |                                   |               |                           |
|                            | LAND                          | 20C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | BUILDING                      | 10C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | BLDG ENTRANCE CABLE           | 12C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | INTRABLDG CABLE               | 52C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | AERIAL CABLE (COPPER)         | 22C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | BURIED CABLE (COPPER)         | 45C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | UNDERGROUND (CU) CA.          | 5C                                                         |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - P GAIN TERM         | 257C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - P GAIN CHAN         | 257C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - FO MUX TERM         | 857C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - FO MUX CHAN         | 857C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - ANALOG SW           | 77C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | CO EQPT - DIGITAL SW          | 377C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | AERIAL CABLE (FIBER)          | 822C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | BURIED CABLE (FIBER)          | 845C                                                       |        |           |      |                                   | \$0           | \$0                       |
|                            | UNDERGROUND (FO) CA.          | 85C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | CONNECTORS                    | 57C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | MISC. COM EQP & PWR           | 57C                                                        |        |           |      |                                   | \$0           | \$0                       |
|                            | POLE LINE                     | 1C                                                         |        |           |      |                                   | \$0           | \$0                       |
|                            | CONDUIT                       | 4C                                                         |        |           |      |                                   | \$0           | \$0                       |
|                            | <b>SPAN SUMMARY</b>           |                                                            |        |           |      |                                   | \$0           | \$0                       |
|                            | <b>CIRCUIT DESIGN SUMMARY</b> |                                                            |        |           |      |                                   | \$0           | \$0                       |

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GC:\123R24\LCATR074\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 3 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellcore<sup>12</sup>LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:49COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELDED CDLC  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 6825 FEET

| PLANT                       | ITEM DESCRIPTION | EQUIP CODE | UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |         |                      |           |            | TECHNOLOGY WEIGHTED TOTAL LOOP |
|-----------------------------|------------------|------------|---------------------------------------------------------------------|---------|----------------------|-----------|------------|--------------------------------|
|                             |                  |            | PLANT NAME                                                          | FEEDER  | DISTRIBUTION NETWORK | INTERFACE | TOTAL LOOP |                                |
| SEG. NAME                   | PRIMARY          | EXTENSION  | SUB-                                                                |         |                      |           |            |                                |
| Technology Type Mix: 0.0000 |                  |            |                                                                     |         |                      |           |            |                                |
| <b>SHARED RESOURCES</b>     |                  |            |                                                                     |         |                      |           |            |                                |
| LAND                        | 20C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| BUILDING                    | 10C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| BLDG ENTRANCE CABLE         | 12C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| INTRABLDG CABLE             | 52C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| AERIAL CABLE (COPPER)       | 22C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| BURIED CABLE (COPPER)       | 45C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| UNDERGROUND (CU) CA.        | 5C               | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CO EQPT - LOW CAP TERM      | 257C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CO EQPT - LOW CAP CHAN      | 257C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CO EQPT - HI CAP TERM       | 857C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CO EQPT - HI CAP CHAN       | 857C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CO EQPT - ANALOG SW         | 77C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CO EQPT - DIGITAL SW        | 377C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| AERIAL CABLE (FIBER)        | 822C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| BURIED CABLE (FIBER)        | 845C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| UNDERGROUND (FO) CA.        | 85C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CONNECTORS                  | 57C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| MISC. COM EQP & PWR         | 57C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| POLE LINE                   | 1C               | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CONDUIT                     | 4C               | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| <b>DIRECT RESOURCES</b>     |                  |            |                                                                     |         |                      |           |            |                                |
| LAND                        | 20C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| BUILDING                    | 10C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| BLDG ENTRANCE CABLE         | 12C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 2.40   | \$ 2.40    | \$ 0.0000                      |
| INTRABLDG CABLE             | 52C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| AERIAL CABLE (COPPER)       | 22C              | \$ 0.00    | \$ 0.00                                                             | \$ 2.43 | \$ 4.51              | \$ 0.00   | \$ 6.94    | \$ 0.0000                      |
| BURIED CABLE (COPPER)       | 45C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.17 | \$ 4.60              | \$ 0.00   | \$ 4.77    | \$ 0.0000                      |
| UNDERGROUND (CU) CA.        | 5C               | \$ 0.00    | \$ 0.00                                                             | \$ 0.43 | \$ 0.00              | \$ 0.00   | \$ 0.43    | \$ 0.0000                      |
| CO EQPT - P GAIN TERM       | 257C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CO EQPT - P GAIN CHAN       | 257C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CO EQPT - FO MUX TERM       | 857C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CO EQPT - FO MUX CHAN       | 857C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CO EQPT - ANALOG SW         | 77C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CO EQPT - DIGITAL SW        | 377C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| AERIAL CABLE (FIBER)        | 822C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| BURIED CABLE (FIBER)        | 845C             | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| UNDERGROUND (FO) CA.        | 85C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| CONNECTORS                  | 57C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| MISC. COM EQP & PWR         | 57C              | \$ 0.00    | \$ 0.00                                                             | \$ 0.00 | \$ 0.00              | \$ 0.00   | \$ 0.00    | \$ 0.0000                      |
| POLE LINE                   | 1C               | \$ 0.00    | \$ 0.00                                                             | \$ 0.58 | \$ 1.68              | \$ 0.00   | \$ 1.66    | \$ 0.0000                      |
| CONDUIT                     | 4C               | \$ 0.00    | \$ 0.00                                                             | \$ 0.15 | \$ 0.00              | \$ 0.00   | \$ 0.15    | \$ 0.0000                      |
| SPAN SUMMARY                |                  |            | \$ 0.00                                                             | \$ 0.00 | \$ 9.76              | \$ 10.19  | \$ 2.40    | \$ 16.35                       |
| TECHNOLOGY DESIGN SUMMARY   |                  |            |                                                                     |         |                      |           | \$ 16.35   |                                |

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GC:\123R24\LCAT074\RESULTS1  
OUTPUT - WORKSHEET D  
SHEET 4 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellicore<sup>®</sup>LCAT Rel: 1.0.4  
Issued: 7/31/95  
STUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:49COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 1 FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 6825 FEET

| Circuit Design Mix: 0.0000 |                        | UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY |        |           |      |                                   | TOTAL<br>LOOP | WEIGHTED<br>TOTAL<br>LOOP |
|----------------------------|------------------------|------------------------------------------------------------|--------|-----------|------|-----------------------------------|---------------|---------------------------|
| PLANT NAME                 | SEG. NAME              | PRIMARY                                                    | FEEDER | EXTENSION | SUB- | DISTRIBUTION NETWORK<br>INTERFACE |               |                           |
| EQPT<br>CODE               | EQPT<br>CODE           |                                                            |        |           |      |                                   |               |                           |
| PLANT                      | ITEM DESCRIPTION       |                                                            |        |           |      |                                   |               |                           |
| <b>7 SHARED RESOURCES</b>  |                        |                                                            |        |           |      |                                   |               |                           |
| 8                          | LAND                   | 20C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 9                          | BUILDING               | 10C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 10                         | BLDG ENTRANCE CABLE    | 12C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 11                         | INTRABLDG CABLE        | 52C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 12                         | AERIAL CABLE (COPPER)  | 22C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 13                         | BURIED CABLE (COPPER)  | 45C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 14                         | UNDERGROUND (CU) CA.   | 5C                                                         |        |           |      |                                   | \$0           | \$0                       |
| 15                         | CO EQPT - LOW CAP TERM | 257C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 16                         | CO EQPT - LOW CAP CHAN | 257C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 17                         | CO EQPT - HI CAP TERM  | 857C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 18                         | CO EQPT - HI CAP CHAN  | 857C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 19                         | CO EQPT - ANALOG SW    | 77C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 20                         | CO EQPT - DIGITAL SW   | 377C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 21                         | AERIAL CABLE (FIBER)   | 822C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 22                         | BURIED CABLE (FIBER)   | 845C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 23                         | UNDERGROUND (FO) CA.   | 85C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 24                         | CONNECTORS             | 57C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 25                         | MISC. COM EQP & PWR    | 57C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 26                         | POLE LINE              | 1C                                                         |        |           |      |                                   | \$0           | \$0                       |
| 27                         | CONDUIT                | 4C                                                         |        |           |      |                                   | \$0           | \$0                       |
| <b>29 DIRECT RESOURCES</b> |                        |                                                            |        |           |      |                                   |               |                           |
| 30                         | LAND                   | 20C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 31                         | BUILDING               | 10C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 32                         | BLDG ENTRANCE CABLE    | 12C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 33                         | INTRABLDG CABLE        | 52C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 34                         | AERIAL CABLE (COPPER)  | 22C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 35                         | BURIED CABLE (COPPER)  | 45C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 36                         | UNDERGROUND (CU) CA.   | 5C                                                         |        |           |      |                                   | \$0           | \$0                       |
| 37                         | CO EQPT - LOW CAP TERM | 257C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 38                         | CO EQPT - LOW CAP-CHAN | 257C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 39                         | CO EQPT - HI CAP TERM  | 857C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 40                         | CO EQPT - HI CAP CHAN  | 857C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 41                         | CO EQPT - ANALOG SW    | 77C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 42                         | CO EQPT - DIGITAL SW   | 377C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 43                         | AERIAL CABLE (FIBER)   | 822C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 44                         | BURIED CABLE (FIBER)   | 845C                                                       |        |           |      |                                   | \$0           | \$0                       |
| 45                         | UNDERGROUND (FO) CA.   | 85C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 46                         | CONNECTORS             | 57C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 47                         | MISC. COM EQP & PWR    | 57C                                                        |        |           |      |                                   | \$0           | \$0                       |
| 48                         | POLE LINE              | 1C                                                         |        |           |      |                                   | \$0           | \$0                       |
| 49                         | CONDUIT                | 4C                                                         |        |           |      |                                   | \$0           | \$0                       |
| 50                         |                        |                                                            |        |           |      |                                   |               |                           |
| 51                         | SPAN SUMMARY           |                                                            | \$0    | \$0       | \$0  | \$0                               | \$0           | \$0                       |
| 52                         |                        |                                                            |        |           |      |                                   | \$0           | \$0                       |
| 53                         |                        |                                                            |        |           |      |                                   |               |                           |
| 54                         |                        |                                                            |        |           |      |                                   |               |                           |
| 55                         |                        |                                                            |        |           |      |                                   |               |                           |

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OUTPUT - WORKSHEET D  
SHEET 5 of 10**LOOP COST ANALYSIS TOOL**  
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore

LCAT Rel: 1.0.4  
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL  
CITY / AREA: CINCINNATI  
STATE / PROV: OHIO  
JOB IDENT: CINCINNATICIRCUIT DESIGN: 2 FOMUX  
LOOP SPAN DIVISION: ALL LOOP SPANS  
SERVICE CLASS: BAND 3 - RESIDENCE LIN  
TOTAL LOOP LENGTH: 6825 FEETSTUDY YR: 1996  
TEST CASE: 1  
RUN DATE: 27-Jan-97  
TIME: 08:49

Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

|    | PLANT NAME              | FEEDER  | DISTRIBUTION NETWORK | TOTAL | TOTAL     |      |      |
|----|-------------------------|---------|----------------------|-------|-----------|------|------|
|    | SEG. NAME               | PRIMARY | EXTENSION            | SUB-  | INTERFACE | LOOP | LOOP |
|    | EQPT                    |         |                      |       |           |      |      |
|    | CODE                    |         |                      |       |           |      |      |
| 3  |                         |         |                      |       |           |      |      |
| 4  |                         |         |                      |       |           |      |      |
| 5  | PLANT                   |         |                      |       |           |      |      |
| 6  | ITEM DESCRIPTION        |         |                      |       |           |      |      |
| 7  | <u>SHARED RESOURCES</u> |         |                      |       |           |      |      |
| 8  | LAND                    | 20C     |                      |       |           | \$0  | \$0  |
| 9  | BUILDING                | 10C     |                      |       |           | \$0  | \$0  |
| 10 | BLDG ENTRANCE CABLE     | 12C     |                      |       |           | \$0  | \$0  |
| 11 | INTRABLDG CABLE         | 52C     |                      |       |           | \$0  | \$0  |
| 12 | AERIAL CABLE (COPPER)   | 22C     |                      |       |           | \$0  | \$0  |
| 13 | BURIED CABLE (COPPER)   | 45C     |                      |       |           | \$0  | \$0  |
| 14 | UNDERGROUND (CU) CA.    | 5C      |                      |       |           | \$0  | \$0  |
| 15 | CO EQPT - LOW CAP TERM  | 257C    |                      |       |           | \$0  | \$0  |
| 16 | CO EQPT - LOW CAP CHAN  | 257C    |                      |       |           | \$0  | \$0  |
| 17 | CO EQPT - HI CAP TERM   | 857C    |                      |       |           | \$0  | \$0  |
| 18 | CO EQPT - HI CAP CHAN   | 857C    |                      |       |           | \$0  | \$0  |
| 19 | CO EQPT - ANALOG SW     | 77C     |                      |       |           | \$0  | \$0  |
| 20 | CO EQPT - DIGITAL SW    | 377C    |                      |       |           | \$0  | \$0  |
| 21 | AERIAL CABLE (FIBER)    | 822C    |                      |       |           | \$0  | \$0  |
| 22 | BURIED CABLE (FIBER)    | 845C    |                      |       |           | \$0  | \$0  |
| 23 | UNDERGROUND (FO) CA.    | 85C     |                      |       |           | \$0  | \$0  |
| 24 | CONNECTORS              | 57C     |                      |       |           | \$0  | \$0  |
| 25 | MISC. COM EQP & PWR     | 57C     |                      |       |           | \$0  | \$0  |
| 26 | POLE LINE               | 1C      |                      |       |           | \$0  | \$0  |
| 27 | CONDUIT                 | 4C      |                      |       |           | \$0  | \$0  |
| 28 |                         |         |                      |       |           |      |      |
| 29 | <u>DIRECT RESOURCES</u> |         |                      |       |           |      |      |
| 30 | LAND                    | 20C     |                      |       |           | \$0  | \$0  |
| 31 | BUILDING                | 10C     |                      |       |           | \$0  | \$0  |
| 32 | BLDG ENTRANCE CABLE     | 12C     |                      |       |           | \$0  | \$0  |
| 33 | INTRABLDG CABLE         | 52C     |                      |       |           | \$0  | \$0  |
| 34 | AERIAL CABLE (COPPER)   | 22C     |                      |       |           | \$0  | \$0  |
| 35 | BURIED CABLE (COPPER)   | 45C     |                      |       |           | \$0  | \$0  |
| 36 | UNDERGROUND (CU) CA.    | 5C      |                      |       |           | \$0  | \$0  |
| 37 | CO EQPT - LOW CAP TERM  | 257C    |                      |       |           | \$0  | \$0  |
| 38 | CO EQPT - LOW CAP-CHAN  | 257C    |                      |       |           | \$0  | \$0  |
| 39 | CO EQPT - HI CAP TERM   | 857C    |                      |       |           | \$0  | \$0  |
| 40 | CO EQPT - HI CAP CHAN   | 857C    |                      |       |           | \$0  | \$0  |
| 41 | CO EQPT - ANALOG SW     | 77C     |                      |       |           | \$0  | \$0  |
| 42 | CO EQPT - DIGITAL SW    | 377C    |                      |       |           | \$0  | \$0  |
| 43 | AERIAL CABLE (FIBER)    | 822C    |                      |       |           | \$0  | \$0  |
| 44 | BURIED CABLE (FIBER)    | 845C    |                      |       |           | \$0  | \$0  |
| 45 | UNDERGROUND (FO) CA.    | 85C     |                      |       |           | \$0  | \$0  |
| 46 | CONNECTORS              | 57C     |                      |       |           | \$0  | \$0  |
| 47 | MISC. COM EQP & PWR     | 57C     |                      |       |           | \$0  | \$0  |
| 48 | POLE LINE               | 1C      |                      |       |           | \$0  | \$0  |
| 49 | CONDUIT                 | 4C      |                      |       |           | \$0  | \$0  |
| 50 |                         |         |                      |       |           |      |      |
| 51 | SPAN SUMMARY            | \$0     | \$0                  | \$0   | \$0       | \$0  | \$0  |
| 52 |                         |         |                      |       |           |      |      |
| 53 |                         |         |                      |       |           |      |      |
| 54 |                         |         |                      |       |           |      |      |
| 55 |                         |         |                      |       |           |      |      |

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