

Confidential Release

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Part 11

MCI Exhibits

1-48

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C:\123R24\LCATR028\INVEST.WK1

TABLE - EQUIP_INV

HELP INFORMATION

Bellcore (M)

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 Site.	1 & 5
REM Field Item 4	FITL Hubbed Arrangements, RING Span Equip, HUB Site.	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

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.

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***** 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\LCATR028\LOADING		LOOP COST ANALYSIS TOOL		Bellcore (R)
TABLE -- ADDNL_INV Sheet 1 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS PBX		LCAT Ref: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 09:39
PLANT UTILIZATION FACTORS:				
Land	1.0000	ALL Non-Traffic Sensitive Equipment	1.0000	
Building	1.0000			
ALL Copper Cables, or		ALL Digital Loop Carrier Equip., or		
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		
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	1.0000	
Conduit	1.0000	PC Hut	1.0000	
		Comm. Svc. Cab.	1.0000	

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C:\123R24\LCATR028\LOADING		LOOP COST ANALYSIS TOOL		Bellcore [®]																																																																											
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SEGMENT <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 colspan="3" style="text-align: center;">② use DEFAULT</td> </tr> <tr> <td colspan="3">POLE LOADINGS:</td> </tr> <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 colspan="3">Fiber Cable Pole Loadings:</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> <tr> <td colspan="3">CONDUIT LOADINGS:</td> </tr> <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 colspan="3">Fiber Cable Conduit Loadings:</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> DROP WIRE (DW) INVESTMENT ADJUSTMENT: The Cable PFI is being Adjusted for DW? NO <table border="1" style="width: 100%; border-collapse: collapse;"> <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> use DEFAULT ① ② for: CENT. OFC. REMOTE SITE LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Other or ALL 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> BUILDING LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Other or ALL 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> MISC. EQUIPMENT & POWER LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Other or ALL 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>						DISTRIBUTION	FEEDER	② use DEFAULT			POLE LOADINGS:			Copper Cable Pole Investment Factor	0.2530	0.2530	Copper Cable Pole Unit Investment			Fiber Cable Pole Loadings:			Fiber Cable Pole Investment Factor	0.1965	0.1965	Fiber Cable Pole Unit Investment			CONDUIT LOADINGS:			Copper Cable Conduit Investment Factor	0.5165	0.5165	Copper Cable Conduit Unit Investment			Fiber Cable Conduit Loadings:			Fiber Cable Conduit Investment Factor	0.5232	0.5232	Fiber Cable Conduit Unit Investment			Aerial Cable		Buried Cable		Underground Cable		Other or ALL ①	0.0056	0.0056	Digital Loop Carrier	0.0056	0.0056	Fiber Optic Mux	0.0056	0.0056	Other or ALL ①	0.1316	0.1316	Digital Loop Carrier	0.1316	0.1316	Fiber Optic Mux	0.1316	0.1316	Other or ALL 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 SCREEN**Belcore** (R)

LCAT Ref: 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	cpfi	_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	fpfi	_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	fucff	_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.
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C:\123R24\LCATR028\SPAN		LOOP COST ANALYSIS TOOL		Bellcore (R)								
INPUT - PLANT_CHAR Sheet 1 / 5		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS		LCAT Rel: 1.0.4 Issued: 07/31/95								
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OH-O		FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS PBX		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 10:18								
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY												
LOOP TOPOLOGY Loop FEEDER Network Configuration Is (S)tar Or (R)ing Average Number Of Hubs In Each Ring Loop DISTRIBUTION Network Configuration Is (S)tar or (B)us		ACTION SEGMENT										
SPAN LENGTHS ① Average Distance From the Central Office to the Service Access Point ② Average Distance From the Serving Area Interface to the Service Access Point ③ Average Distance From the Remote Terminal to the Serving Area Interface ④ Average Distance From the Central Office to the Fiber Hub or S.A.I. ⑤ Average Distance From the Fiber Hub to the Remote Terminal		<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>			PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR		
		PRIMARY	STAR									
PRIMARY	NA											
DISTRIBUTION	STAR											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>TOTAL LOOP</td><td>15677.0</td></tr> <tr><td>DISTRIBUTION</td><td>2046.0</td></tr> <tr><td>SUB-PRIMARY</td><td>300.0</td></tr> <tr><td>PRIMARY</td><td>13331.0</td></tr> <tr><td>PRIMARY-EXTENSION</td><td></td></tr> </table>			TOTAL LOOP	15677.0	DISTRIBUTION	2046.0	SUB-PRIMARY	300.0	PRIMARY	13331.0	PRIMARY-EXTENSION	
TOTAL LOOP	15677.0											
DISTRIBUTION	2046.0											
SUB-PRIMARY	300.0											
PRIMARY	13331.0											
PRIMARY-EXTENSION												
LOOP LENGTH AT EACH COST BAND		DISTRIBUTION OF COST BANDS IN THE NETWORK										
BAND 1		BAND 1										
BAND 2		BAND 2										
BAND 3		BAND 3										
BAND 4		BAND 4										
BAND 5		BAND 5										
LAST 15677.0		LAST 1.0000 1.0000 Hint										

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C:\123R24\LCATR028\SPAN		LOOP COST ANALYSIS TOOL		Bellcore TM
INPUT - PLANT_CHAR. Sheet 1 / 1 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS PBX		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 10:16
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY				
LOOP LENGTH ① 15677 FEET DROP ② DISTRIBUTION ③ FEEDER ④ 2046 FEET 300.0 FEET 13331 FEET SUB-PRIMARY ⑤ FIBER DISTRIBUTION EXTENSION ⑥ PRIMARY ⑦ NETWORK INTERFACE SERVICE ACCESS POINT ON1 SERVING AREA INTERFACE REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) REMOTE NODE (LOOP TRANSFER) FIBER Fiber END OFFICE				

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C:\123R24\LCATR028\SPAN		LOOP COST ANALYSIS TOOL	Belcore (R)
INPUT - PLANT_CHAR. Sheet 1 of 2	LOOP FACILITY INPUT HELP SCREEN	LCAT 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 multiplex bandwidth transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designating the mix of usage develops 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 ***** CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO PRESS 'ENTER' TO RETURN TO THE MAIN MENU			

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C:\123R24\LCATR028\SPAN		LOOP COST ANALYSIS TOOL		Bellcore (R)	
INPUT = FLAT_CHAR. Sheet 2 of 2		HELP SCREEN		LCAT Rev: 1.0.4 Issued : 07/31/95	
COST DETAILS	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. 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.				
LOOP TOPOLOGY	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.				
CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC ***** THE INPUT DATA NAMES IN RED CROSS - REFERENCE TO THEIR DATA CATALOG NAMES ***** ***** PLEASE REFER TO THE USER MANUAL FOR SPECIFIC INFORMATION ***** PROVIDED TO PUBLIC PRESS 'ENTER' TO RETURN TO THE MAIN MENU					

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C:\123R24\LCATR028\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (R)	
INPUT - PLANT_CHAR		LCOP FACILITY INPUT				LCAT Rel: 1.0.4	
Sheet 2a / 5		FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER				Issued: 07/31/95	
COMPANY: 0		FOR INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: 0		LOOP STUDY YEAR: 1996				TEST CASE: 1	
STATE / PROV: 0		SERVICE CLASS: BAND 1 - BUSINESS PBX				LAST UPDATE: 28-Oct-96	
						TIME: 10:16	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A			
CAPACITY		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
[C]	idx	CUMULATIVE FEEDER LENGTH [D _A]	EFFECTIVE LENGTH BY PAIR FOOT [E _A]	CUMULATIVE FEEDER LENGTH [D _B]	EFFECTIVE LENGTH BY PAIR FOOT [E _B]	CUMULATIVE FEEDER LENGTH [D _U]	EFFECTIVE LENGTH BY PAIR FOOT [E _U]
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:							
AERIAL FIBER SUBTOTAL		0		0		0	
BURIED FIBER SUBTOTAL		0		0		0	
UNDGRD FIBER SUBTOTAL		0		0		0	
FIBER SUBTOTAL		0		0		0	

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C:\123R24\LCATR028\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (P)			
PLANT CHAR - WORKSHEET 28 Sheet 2b / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR				LCAT Rel: 1.0.4 Issued: 07/31/95			
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996		TEST CASE: 1			
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		LAST UPDATE: 28-Oct-96		TIME: 10:16			
STATE: OHIO		SERVICE CLASS: BAND 1 - BUSINESS PBX							
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET B					
EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E]WKSH A/[F]WKSH C CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A]*[C]*UNIT INV FACILITY WKSH B									
For these sizes ...		CAPACITY [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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C:\123R24\LCATR028\SPAN		LOOP COST ANALYSIS TOOL						Bellcore		
INPUT - PLANT CHAR. Sheet 3a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/95		
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 1 - BUSINESS						STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 28-Oct-96 TIME: 10:16		
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY pr	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
TOTALS				0.0			0.0			0.0

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CA123R24\LCATR028\SPAN

LOOP COST ANALYSIS TOOL

Bellcore

PLANT CHAR - WORKSHEET 3B
Sheet 3b / 5LOOP FACILITY INPUT
COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER
FORLCAT Rel : 1.0.4
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 - BUSINESS

LAST UPDATE: 25-Oct-96

TIME: 10:16

NETWORK CIRCUIT LAYOUT STUDIES

WORKSHEET B

CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT

CABLE SHEATH SIZES	CAPACITY idx		26 GA.			24 GA.			22 GA.			
			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	\$ 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	foracti
5400 COPPER CABLE	2700 pr	\$	0.00	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	foracti
7200 COPPER CABLE	3600 pr	\$	0.00	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	foracti
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\LCATR028\SPAN		LOOP COST ANALYSIS TOOL			Bellcore						
INPUT - PLANT CHAR. Sheet 4a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER			LCAT Rel : 1.0.4						
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 - BUSINESS			LAST UPDATE: 25-Oct-96						
					TIME: 10:16						
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A									
		CUMULATIVE LENGTHS BY CABLE PAIR FOOT									
CABLE SHEATH SIZES	CAPACITY 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	0.0
TOTALS				0.0			0.0			0.0	0.0

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C:\123R24\LCATR028\SPAN		LOOP COST ANALYSIS TOOL										Bellcore	
PLANT CHAR - WORKSHEET 4B Sheet 4b / 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER										LCAT Rel : 1.0.4 Issued : 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996										STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 28-Oct-96 TIME : 10:16	
SERVICE CLASS: BAND 1 - BUSINESS													
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\LCATR028\SPAN		LOOP COST ANALYSIS TOOL										Bellcore [®]																																																								
INPUT - PLANT CHAR. Sheet 5 / 5		LOOP FACILITY INPUT DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX FOR										LCAT Rel: 1.0.4 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 - BUSINESS PBX										LAST UPDATE: 28-Oct-96																																																								
												TIME: 10:16																																																								
FIBER BANDWIDTH																																																																				
TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL ☐ BIDIRECTIONAL																																																																				
LEVEL OF SERVICE: NARBAND																																																																				
<table border="1"> <thead> <tr> <th>BITRATE INDEX</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>SERVICE</th> <th>PROTECTION</th> <th>WEIGHTED</th> </tr> </thead> <tbody> <tr> <td>FIBER BANDWIDTH</td> <td>45 Mbps</td> <td>90 Mbps</td> <td>155 Mbps</td> <td>180 Mbps</td> <td>0</td> <td>0</td> <td>0</td> <td>LEVEL</td> <td></td> <td>EQUIVALENT</td> </tr> <tr> <td>MUX DS3 MULTIPLIER</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td>MULTIPLE</td> <td>1:1</td> <td>CHANNELS</td> </tr> <tr> <td>VOICE GRADE CHANNELS</td> <td>572</td> <td>1344</td> <td>2016</td> <td>2688</td> <td>0</td> <td>0</td> <td>0</td> <td>[SLM]</td> <td>[E]</td> <td>PERFO PAIR</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[F]</td> </tr> </tbody> </table>														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	1:1	CHANNELS	VOICE GRADE CHANNELS	572	1344	2016	2688	0	0	0	[SLM]	[E]	PERFO PAIR											[F]
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	1:1	CHANNELS																																																										
VOICE GRADE CHANNELS	572	1344	2016	2688	0	0	0	[SLM]	[E]	PERFO PAIR																																																										
										[F]																																																										
FEEDER - PRIMARY																																																																				
<table border="1"> <tbody> <tr> <td>0.0000</td> <td>0.1370</td> <td>0.7810</td> <td>0.0820</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>2</td> <td>1</td> <td>1979.04</td> </tr> </tbody> </table>														0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04																																													
0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04																																																											
FEEDER - EXTENSION																																																																				
<table border="1"> <tbody> <tr> <td>0.0000</td> <td>0.1370</td> <td>0.7810</td> <td>0.0820</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>2</td> <td>1</td> <td>1979.04</td> </tr> </tbody> </table>														0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04																																													
0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04																																																											
CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUBLIC																																																																				
FOOTNOTES 1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BROADBAND, TIMES {2 for Unidirectional and 1 for Bidirectional}. 2 Where Wtd Eqv Chan per FO Pr [F] EQUALS {The Avg Wtd VGE for BR1 -> 7} DIVIDED BY {The [SLM] TIMES TIMES OVER PROT [E]}																																																																				

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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: 28-Oct-96

TIME: 10:16

WORKSHEET DS

DIGITAL SIGNAL TABLE (diagsig.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	0.08	30 BIDIR 2WCU CA
6	MODE1	DS1C	3.2 Mbps	NA		48 BIDIR 2WCU CA
7	MODE2	DS1C	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		OC1	50 Mbps	28	1	672 UNDIR FIBER
17	X		90 Mbps		2	1344 UNDIR FIBER
18			90 Mbps		2	1344 BIDIR MWRADIO
19		DS4	135 Mbps		3	2016 UNDIR FIBER
20			135 Mbps		3	2016 BIDIR MWRADIO
21		DS4NA	139 Mbps		3	2016 UNDIR FIBER
22		E4	140 Mbps		3	1920 UNDIR FIBER
23		4M	139 Mbps		6	4032 BIDIR COAX
24		PT40	139 Mbps		6	4032 BIDIR COAX
25	X		155 Mbps		3	2016 UNDIR FIBER
26	X	OC3	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
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: OHIO

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

STUDY YR.: 1996
TEST CASE: 1
LAST UPDATE: 28-Oct-95
TIME: 10:18

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

CA123R24\LCATR028\SPAN	LOOP COST ANALYSIS TOOL	Bellcore (R)
PLANT CHAR. = WORKSHEET SA Sheet 1 / 1 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO	WORKSHEET SA	LCAT Ver: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 10:16

Sub Feeder Allocation Table

Sub Feeder Allocation Table										
cur_lplgth	15677	15677	15677	15677	15677	15677	15677	15677	15677	15677
colocated	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000
dstop	2048	2048	2048	2048	2048	2048	2048	2048	2048	2048
nom_range	cur	dis	sub	feed	pr	feed	sub	feed	pr	feed
[C]	[D=C-I]	[E]	[F=D-E]	[G]	[H=D-G]	[I]	[J=C-I]	[K]	[L=C-K]	[M=A-C]
0	0	0	0	0	0	0	0	0	0	15677
500	0	0	0	0	0	0	0	0	0	15177
1000	0	0	0	0	0	0	0	0	0	14677
2000	0	0	0	0	0	0	0	0	0	13677
3000	954	954	0	954	0	3000	0	3000	0	12677
4000	1954	1954	0	1954	0	4000	0	4000	0	11677
5000	2954	2954	0	2954	0	5000	0	5000	0	10677
6000	3954	3954	0	3954	0	6000	0	6000	0	9677
7000	4954	4954	0	4954	0	7000	0	7000	0	8677
8000	5954	5954	0	5954	0	8000	0	8000	0	7677
9000	6954	6954	0	6954	0	9000	0	9000	0	6677
10000	7954	7954	0	7954	0	10000	0	10000	0	5677
11000	8954	8954	0	8954	0	11000	0	11000	0	4677
12000	9954	4977	4977	0	9954	6000	6000	0	12000	3677
13000	10954	5477	5477	0	10954	6500	6500	0	13000	2677
14000	11954	5977	5977	0	11954	7000	7000	0	14000	1677
15000	12954	6477	6477	0	12954	7500	7500	0	15000	677
16000	13954	6977	6977	0	13954	8000	8000	0	16000	323
17000	14954	7477	7477	1000	13954	8500	8500	0	17000	1323
18000	15954	7977	7977	2000	13954	9000	9000	1000	17000	-2323
19000	16954	8477	8477	3000	13954	9500	9500	2000	17000	-3323
20000	17954	8977	8977	4000	13954	10000	10000	3000	17000	-4323
80000	77954	9954	68000	5000	72954	9954	70046	4000	76000	64323

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^{act} Equals CUR_LPLGTH - NOM_RANGE difference
- > DISTSPAN and < DLCDEPL, then CUR_SEGLGTH^{stor} Equals CUR_LPLGTH - NOM_RANGE difference
- = > DLCDEPL, then CUR_SEGLGTH^{pr} 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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C:\123R24\LCATRD28\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: 1996
TEST CASE: 1
LAST UPDATE: 28-Oct-96
TIME: 09:29

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

FOOTNOTES

① THESE ASSIGNMENTS APPLY TO DEDICATED COPPER - PAIRS (NON-MULTI-EXED) FEEDER & DISTRIBUTION
 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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C:\123R24\LCATR028\COSTMETH

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 - 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 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. 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 - F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component.
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function - DIRECT for Dedicated or Circuit Specific Investment. 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 *****

PRESS <ENTER> TO RETURN TO THE MAIN MENU

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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	1,091	5,608
46			41		
23,301	4,826	28,127	23,419	3,178	28,190
56			30		
0.4510			0.5778		
0.5490			0.4225		
1.0000			1.0000		

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Ex. 20 13

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FEB 21 1967
MARKETING DIVISION
U.S. Federal Communications Commission

EXHIBIT NOs.
13-16

OHIO ONLY
REVISED JAN 1997 VERSION
BAND 2
BUSINESS PBX

MCI Depo
Ex. No. 13

ODR 11-24-97

INDEX

BAND 2

Business PBX

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

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Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

28-Jan-97

Issued: 8/31/95

07:58

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS PBX 0 - 14000 FEET INTRAS

CURRENT TEST PLAN :

CURRENT JOB IDENT: CINCINNATI

BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	# BANDS	0
SVC LEVEL	NARBAND	PORTS	1
CST METH	UN INCH	INV LEVEL	ANN COST

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your run is finished

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

LOOP COST ANALYSIS TOOL

Bellcore®

BASIC INVESTMENT WORKSHEET

SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

FACILITY TYPE: COPPER CABLE

CIRCUIT SEGMENT: DISTRIBUTION PLAN (NON-DLC, NON-COLLOC)

COMPANY: CINCINNATI BELL TEL.

CITY / AREA: CINCINNATI

STATE / PROV: OHIO

SERVICE CLASS: BAND 2 - BUSINESS PBX

LCAT Release: 1.0.4

Issue Date: 8/31/95

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 28-Jan-97

TIME: 08:31

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 - RELATIVE MIX OF TYPE OF CA. PLANT	LENGTH SUBSET BY TYPE OF PLANT	FROM TABLE 4 - CABLE INVESTMENT PER PAIR FOOT	CABLE INVESTMENT PER PAIR	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
		[B]	[C=A*B]	[D]	[E=C*D]		[F=E*factr]	[F=E*factr]	
1013.0	AERIAL	0.620000	628.1	0.042600	26.76		0.00	0.00	
CONSIDERS:	BURIED	0.330000	334.3	0.066800	22.33		0.00	0.00	
MELDED									
COPPER	UNDERGRND	0.050000	50.7	0.058000			0.00	0.00	
CABLE									
Check =		1.000000	1013.0						

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OUTSIDE PLANT LOADINGS

(NOTE 4)

DROP WIRE ADJUSTMENT:

AERIAL CA. = 0.0000
BURIED CA. = 0.0000
UNDERGRND = 0.0000

AIR DRYER LOADINGS:

AERIAL CA. = 0.0000
BURIED CA. = 0.0000
UNDERGRND = 0.0000

OTHER INVESTMENT

	inv / unit lgth:	inv rtn factr:
POLE LINE FACTOR (PLF) =	0.0000	0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =	\$ 19.34	
UG CONDUIT FACTOR (UCF) =	0.0000	0.5163
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) =	\$ 4.34	

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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C:\123R24\LCATCALQDIST
DIST_PLNT - WORKSHEET A
Sheet 2 of 3

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

LOOP COST ANALYSIS TOOL

ACCOUNT INVESTMENT WORKSHEET

SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

FACILITY TYPE: COPPER CABLE

CIRCUIT SEGMENT: DIST. REL. ON PLANT (NON-DLC, NON-COLLOC)

SERVICE CLASS: BAND 2 - BUSINESS PBX

Belcore (P)

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 08:31

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED VARI	RESOURCE ALLOCATION	1996 UNIT INVESTMENT BY ACCOUNT	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION	
				COST EQUATION		SHARED RESOURCES	DIRECT RESOURCES		SHARED RESOURCES	DIRECT RESOURCES
LAND	20C	F	SHARED					1.0000		
BUILDING	10C	F	SHARED					1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
INTRABLDG CABLE	52C	V	DIRECT					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	26.76	1		\$ 27	0.3500		\$ 76
BURIED CABLE (COPPER)	45C	V	DIRECT	22.33	1		\$ 22	0.3500		\$ 64
UNDERGROUND (CU) CA.	5C	V	DIRECT	2.94	1		\$ 3	0.3500		\$ 8
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					0.0000		
CO EQPT - DIGITAL SW	377C	V	DIRECT					0.0000		
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					0.0000		
POLE LINE	1C	F	DIRECT	19.34	1		\$ 19	1.0000		\$ 19
CONDUIT	4C	F	DIRECT	4.34	1		\$ 4	1.0000		\$ 4

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\$ 0 \$ 172

\$ 172

distivity

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.

CA123R24\LCATCALC\DIST
DIST PLNT - WORKSHEET A
Sheet 3 of 3

LOOP COST ANALYSIS TOOL

Bellcore (R)

PROSPECTIVE AND ANNUAL COSTS WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC NON-COLLOC)

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 08:31

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

SERVICE CLASS: BAND 2 - BUSINESS PBX

		1996 UNIT LOOP INVESTMENT BY ACCOUNT			1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT		
PLANT ITEM	PLANT ACCT CODE	1996 TO	SHARED	DIRECT	ANNUAL COST FACTOR	SHARED	DIRECT	SHARED	DIRECT
		1996 TPI	RESOURCES	RESOURCES		RESOURCES	RESOURCES	RESOURCES	RESOURCES
		[L]	[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[R=P/12]	[R'=P'/12]
LAND	20C	1.0000			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 76	0.4033		\$ 30.83		\$ 2.57
BURIED CABLE (COPPER)	45C	1.0000		\$ 64	0.3457		\$ 22.12		\$ 1.84
UNDERGROUND (CU) CA.	5C	1.0000		\$ 8	0.3663		\$ 3.07		\$ 0.26
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000		\$ 19	0.3807		\$ 3.36		\$ 0.61
CONDUIT	4C	1.0000		\$ 4	0.2521		\$ 1.09		\$ 0.09
TOTALS			\$ 0	\$ 172		\$ 0.00	\$ 64.48	\$ 0.00	\$ 5.37
				\$ 172			\$ 64.48		\$ 5.37
			dstshrinv	dstdirinv		dstshrann	dstdirann	dstshrnc	dstdirnc

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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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CA123R24 LCATCALC.DIST		LOOP COST ANALYSIS TOOL		Bellcore (R)	
DIST. PLANT - WORKSHEET B		BASIC INVESTMENT WORKSHEET		LCAT	
Sheet 1 of 3		FACILITY TYPE: COPPER CABLE		Release: 1.0.4	
COMPANY: CINCINNATI BELL TEL.		CIRCUIT SEGMENT: SERVICE ACCESS		STUDY YR: 1996	
CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 2 - BUSINESS PBX		TEST CASE: 1	
STATE / PROV: OHIO				RUN DATE: 28-Jan-97	
				TIME: 08:31	
TYPE OF PLANT	UNIT	PROB.	WEIGHTED		
ITEM	PLANT	OF	TERMINAL		
	INVEST.	OCCURANCE	INVESTMENT		
	[A]	[B]	[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 (PL) =		from length: 0.0000	from invest.: 0.2530		
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PL) =		\$ 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\LCAT\CALC\DIST
DIST PLNT - WORKSHEET 3
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: 28-Jan-97
TIME: 08:31

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 2 - BUSINESS PBX

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	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		

\$ 0 \$ 75
\$ 75
Activity

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

LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Bellcore (R)

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 2 - BUSINESS PBX

Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 08:31

G W M O

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996	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 [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			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3457				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2589				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				

TOTALS

botshrinv botdirinv

\$ 0 \$ 75
 \$ 75
 bctinvsv

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PRIOR TO RELEASE TO PUBLIC
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botshrinv botdirinv

\$ 0.00 \$ 29.42
 \$ 29.42
 bctshrinv bctdirinv
\$ 0.00 \$ 2.45
 \$ 2.45
 bctshrinv bctdirinv

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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CA123R24\LCATCALC\DIST

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:

28-Jan-97

08:31

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - BUSINESS PBX

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PROB. OF OCCURANCE [B]	WEIGHTED TERMINAL INVESTMENT [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 invest.:

0.0000

0.2530

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

\$ 0.00

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PROVIDED TO PUCO

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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03123R24LCATCALC.DIST
DIST_PLNT - WORKSHEET B
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET

Bellcore (R)
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 08:31

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS
SERVICE CLASS: BAND 2 - BUSINESS PBX

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		

\$ 0 \$ 75
\$ 75
bctmrvy

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PROVIDED TO PUCO

47 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 3 of 3

LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Belcore (R)

LCAT

Release: 1.0.4

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 25-Jan-97

TIME: 08:31

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - BUSINESS PBX

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			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS			\$ 0	\$ 75		\$ 0.00	\$ 29.42	\$ 0.00	\$ 2.45
				\$ 75			\$ 29.42		\$ 2.45

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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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C:\123R24\LCAT\CALC\DIST				LOOP COST ANALYSIS TOOL				Bellcore [®]	
DIST PLNT - REPORT 14A				PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3				FACILITY TYPE: COPPER CABLE				Issue Date: 8/31/95	
COMPANY: CINCINNATI BELL TEL.				CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-CC, LOC)				STUDY YR: 1996	
CITY / AREA: CINCINNATI				SERVICE CLASS: BAND 2 - BUSINESS PBX				TEST CASE: 1	
STATE / PROV: OHIO								RUN DATE: 28-Jan-97	
								TIME: 08:31	
logic-14a				1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(See Note)	
BAND MIX				0				TOTAL	
ACCT				1.0000				AVG. WEIGHTED	
CODE				6711				INVESTMENT	
SEG. LGTH.				1013.0				1013	
PLANT ITEM									
SHARED RESOURCES									
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	\$ 2.57					\$ 2.57	
34	BURIED CABLE (COPPER)	45C	\$ 1.84					\$ 1.84	
35	UNDERGROUND (CU) CA.	5C	\$ 0.26					\$ 0.26	
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	\$ 0.61					\$ 0.61	
48	CONDUIT	4C	\$ 0.09					\$ 0.09	
49									
50	SPAN SUMMARY		\$ 5.37	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 5.37	
51	AVG. WTD. SPAN SUMMARY		\$ 5.37	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 5.37	
52									
53	NOTE:		[sum(INV _{ACCT} BAND + MIX BAND)]						
54									
55									

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DIST_PLNT - REPORT 148

Sheet 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore®

LCAT

Release: 1.0.4

STUDY YR:

1996

TEST CASE:

RUN DATE:

28-Jan-97

TIME:

08:31

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

CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - BUSINESS PBX

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

ALL

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PLANT ITEM

PLANT
ACCT
CODEBAND
MIX
AVG.
LGTH.

SHARED RESOURCES

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

DIRECT RESOURCES

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

SPAN TOTAL

2.45

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C:\123R24\LCAT\CALC\CUTECH

RUN - SUB PRI

LAST UPDATE

28-Jan-97

07:59

LOOP COST ANALYSIS TOOL**Belcore** (R)

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY**STUDY NAME:** 1996 BAND 2 (OHIO ONLY) BUSINESS PBX 0 - 14000 FEET INTRAST

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\OUTECH
SUB PRI - WORKSHEET
Sheet 1 of 3

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
SERVICE CLASS: BAND 2 - BUSINESS PBX

Bellcore[®]
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1995
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 08:32

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 RELATIVE MIX OF TYPE OF CA. PLANT	LENGTH SUBSET BY TYPE OF PLANT	FROM TABLE 4 MLD CABLE DESIGN INVEST. PER PAIR FOOT	CABLE INVESTMENT PER PAIR	WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR	WEIGHTED DROP WIRE ADJUSTMENT PER PAIR
		[B]	[C=A*B]	[D]	[E=C*D]	[UI*DTC]		[E*fcfr]	[UI*DTC]
5698	AERIAL	0.290000	1652.42	0.011900	19.66		0.00	0.00	
MELDED GAUGE/S/ COPPER	BURIED	0.020000	113.96	0.020500	2.34		0.00	0.00	
CABLE	UNDERGRND	0.690000	3931.62	0.011000	43.25		0.00	0.00	
CHECK =		1.000000							

ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS

INVESTMENT PER CIRCUIT TERMINATION		MISC. COMMON EQPT. & POWER FACTOR =	0.112700
(CO CONN) CONNECTORS (coi77c) =	\$ 79.08	MCE&P INVESTMENT (CO CONN x FACTOR) =	\$ 8.91
POLE LINE FACTOR =	inv / unit lath: inv rtn fcfr:	LAND FACTOR =	0.00560
	0.000000 0.253000	LAND NVST (CO CONN + MCE&P) x FACTOR =	\$ 0.40
POLE LINE INVESTMENT =	\$ 8.29	BUILDING FACTOR =	0.13500
(UTIL AERIAL INVEST x PLF)		BLDG NVST (CO CONN + MCEP) x FACTOR =	\$ 11.58
UG CONDUIT FACTOR =	0.000000 0.516500	PERCENT OF CO CONN AT DIGITAL SWITCHES	100.0000
CONDUIT INVESTMENT =	\$ 37.23	PERCENT OF CO CONN AT ANALOG SWITCHES	0.0000
(UTIL UNDGRND INVEST x UCF)			

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 * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURRENCE.

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

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LOOP COST ANALYSIS TOOL										Bellcore [®]	
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/SUB-PRIMARY										TEST CASE: 1	
SERVICE CLASS: BAND 2 - BUSINESS PBX										RUN DATE: 28-Jan-97	
										TIME: 08:32	
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	0.49	1	\$ 0		1.0000	\$ 0		
BUILDING	10C	F	SHARED	11.58	1	\$ 12		1.0000	\$ 12		
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000			
INTRABLDG CABLE	52C	V	DIRECT					0.3500			
AERIAL CABLE (COPPER)	22C	V	DIRECT	19.66	1		\$ 20	0.6000		\$ 33	
BURIED CABLE (COPPER)	45C	V	DIRECT	2.34	1		\$ 2	0.6000		\$ 4	
UNDERGROUND (CU) CA.	5C	V	DIRECT	43.25	1		\$ 43	0.6000		\$ 72	
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	79.08	1		\$ 79	1.0000		\$ 79	
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	8.91	1	\$ 9		1.0000	\$ 9	\$ 8	
POLE LINE	1C	F	DIRECT	8.29	1			1.0000		\$ 8	
CONDUIT	4C	F	DIRECT	37.23	1			1.0000		\$ 37	
TOTALS									\$ 21	\$ 233	
										\$ 254	

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culpmv

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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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: MELOD GALCES/ SUB-PRIMARY

Bellcore (R)
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 26-Jan-97
TIME: 08:32

SERVICE CLASS: BAND 2 - BUSINESS PBX

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		0.2322	\$ 0.11		\$ 0.01	
BUILDING	10C	1.0000	\$ 12		0.2937	\$ 3.40		\$ 0.28	
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 33	0.4033		\$ 13.22		\$ 1.10
BURIED CABLE (COPPER)	45C	1.0000		\$ 4	0.3467		\$ 1.35		\$ 0.11
UNDERGROUND (CU) CA.	5C	1.0000		\$ 72	0.3663		\$ 26.40		\$ 2.20
CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000		\$ 79	0.3458		\$ 27.35		\$ 2.28
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000	\$ 9		0.3881	\$ 3.46		\$ 0.29	
POLE LINE	1C	1.0000		\$ 8	0.3807				\$ 0.26
CONDUIT	4C	1.0000		\$ 37	0.2521				\$ 0.78
SUBTOTALS			\$ 21	\$ 233					\$ 6.73
TOTALS				\$ 254					\$ 7.31

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PROVIDED TO PUCO

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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LOOP COST ANALYSIS TOOL

Bellcore®

SUB_PRT - REPORT 14

PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

LCAT Release: 1.0.4

Sheet 1 of 1

Issue Date: 7/31/95

COMPANY: CINCINNATI BELL TEL

FACILITY SEGMENT: SUB-PRIMARY PLANT

STUDY YR: 1996

CITY / AREA: CINCINNATI

TEST CASE: 1

STATE / PROV: OHIO

SERVICE CLASS: BAND 2 - BUSINESS PBX

RUN DATE: 28-Jan-97

TIME: 08:32

1996 UNIT MONTHLY RECURRING COST BY ACCOUNT

(SEE NOTE)

PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH	1996 UNIT MONTHLY RECURRING COST BY ACCOUNT	(SEE NOTE)	
				TOTAL	AVG. WEIGHTED
			logic-14a 0		
			1.0000		
			6711		
			5698		5698
SHARED RESOURCES					
LAND	20C		\$ 0.01		\$ 0.01
BUILDING	10C		\$ 0.28		\$ 0.28
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		\$ 0.29		\$ 0.29
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		\$ 1.10		\$ 1.10
BURIED CABLE (COPPER)	45C		\$ 0.11		\$ 0.11
UNDERGROUND (CU) CA.	5C		\$ 2.20		\$ 2.20
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		\$ 2.28		\$ 2.28
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	0.2	\$ 0.26		\$ 0.26
CONDUIT	4C	0.7	\$ 0.78		\$ 0.78
SPAN SUMMARY					
			\$ 7.31	\$ 0.00	\$ 0.00
AVG. WTD. SPAN SUMMARY					
			\$ 7.31	\$ 0.00	\$ 0.00
NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]					

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RUN - CDLC PLANT

BellcoreTM

LCAT

Release: 1.0.4

Issued: 8/31/95

LAST UPDATE

28-Jan-97

08:00

LOOP COST ANALYSIS TOOL

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS PBX 0 - 14000 FEET INTRASTATE

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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LOOP COST ANALYSIS TOOL										Bellore	
ACCOUNT 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 CXR										TEST CASE : 1	
CIRCUIT DESIGN : T1C										DATE : 28-Jan-97	
SERVICE CLASS : BAND 2 - BUSINESS PRX										TIME : 08:33 AM	
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: OHIO											
STATE / PROV: CINCINNATI											
PLANT ITEM	PLANT ACOCT CODE	FIXED VAR: 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	4.17	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			1.0000			
TOTALS											

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FEEDTY

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

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Bellcore (R)

RUN - FO MUX

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

28-Jan-97

Issued: 7/31/95

08:02

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS PBX 0 - 14000 FEET INTRASTATE

CURRENT TEST PLAN :

CURRENT JOB IDENT.		CINCINNATI
BASIS	NETWORK	TEST CASE
FR / DS	FLAT RATE	#BANDS
SVC LEVEL	NARBAND	#CKT8
CST METH	UN INCR	INV LEVEL
		ANN COST

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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										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 - BUSIN SERVICE LEVEL: NARBAND										LAST RUN: 28-Jan-97	
										TIME: 08:34	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from sidr_tbl: 5698 cur_sldrigh 0 cur_pnigh from bw_mix: f = 1979.04 wtdeqvmn											
CABLE COMPONENTS (NOTE 5)											
SEGMENT LENGTH IN FEET TYPE OF CABLE PLANT RELATIVE MIX OF TYPE OF CA 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 [U1*DTC] AIR DRYER INVESTMENT PER PAIR [E*atr] DROP WIRE ADJUSTMENT PER PAIR [E*atr] WEIGHTED DROP WIRE INVESTMENT PER PAIR [U1*DTC]											
fo3pri_segldgh [A] 0 AERIAL 0.480000 0.00 0.193000 0.00 0.00 0.00 CO TO HUB LINK ON BURIED 0.000000 0.00 0.269400 0.00 0.00 0.00 FIBER OPTIC FACILITIES UNDERGRND 0.520000 0.00 0.182700 0.00 0.00 0.00 1.000000											
EQUIPMENT INVESTMENT LOADINGS											
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) = tpif 0.0000 0.1965 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 0.00 UNDERGROUND CONDUIT FACTOR (PLF) = tucl 0.0000 0.5232 CONDUIT INVESTMENT (UTIL UNDERGRND INVEST x UCF) = \$ 0.00											
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 IS MULTIPLY 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 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 - BUSINSERVICE LEVEL: NARBAND										LAST RUN: 28-Jan-97	
										TIME: 09:34	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION SHARED RESOURCES	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION DIRECT RESOURCES	ADMIN. UTIL LINE FILL	1996 UNIT LOOP INVESTMENT INCL UTILIZATION SHARED RESOURCES	1996 UNIT LOOP INVESTMENT INCL UTILIZATION 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											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: P GAIN CO EQPT = RG 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 TM	
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 / REV.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - BU: SERVICE LEVEL: NAR3AND										LAST RUN: 28-Jan-97	
										TIME: 08:34	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
1996 UNIT LOOP INVESTMENT BY ACCOUNT 1996 UNIT ANNUAL COSTS BY ACCOUNT 1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT											
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TPI	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			0.2322						
BUILDING	10C	1.0000			0.2937						
BLDG ENTRANCE CABLE	12C	1.0000			0.3922						
INTRABLDG CABLE	52C	1.0000			0.3922						
AERIAL CABLE (COPPER)	22C	1.0000			0.4033						
BURIED CABLE (COPPER)	45C	1.0000			0.3467						
UNDERGROUND (CU) CA.	5C	1.0000			0.3663						
CO EQPT - LOW CAP TERM	257C	1.0000			0.3881						
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881						
CO EQPT - HI CAP TERM	857C	1.0000			0.3881						
CO EQPT - HI CAP CHAN	857C	1.0000			0.3881						
CO EQPT - ANALOG SW	77C	1.0000			0.0000						
CO EQPT - DIGITAL SW	377C	1.0000			0.3458						
AERIAL CABLE (FIBER)	822C	1.0000			0.2983						
BURIED CABLE (FIBER)	845C	1.0000			0.2724						
UNDERGROUND (FO) CA.	85C	1.0000			0.2689						
CONNECTORS	57C	1.0000			0.3881						
MISC. COM EQP & PWR	57C	1.0000			0.3881						
POLE LINE	1C	1.0000			0.3807						
CONDUIT	4C	1.0000			0.2521						
TOTALS			\$ 0	\$ 0	\$ 0	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
				\$ 0			\$ 0.00		\$ 0.00		\$ 0.00
				feed3sy			feed3ann		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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5. **GENERAL COMMENTS**

C:\123R24\LCATR029\RESULTS1
OUTPUT - WORKSHEET D
SHEET 4 of 10

LOOP COST ANALYSIS TOOL
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Belcore ⁽²⁾

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LCAT Rel : 1.0.4
Issued : 7/31/95
STUDY YR : 1996
TEST CASE : 1
RUN DATE : 28-Jan-97
TIME : 08:35

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

CIRCUIT DESIGN : 1 FOMUX
 LOOP SPAN DIVISION : ALL LOOP SPANS
 SERVICE CLASS : BAND 2 - BUSINESS PBX
 TOTAL LOOP LENGTH : 6711 FEET

Circuit Design Mix		0.0000	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				TOTAL	WEIGHTED
	PLANT NAME	FEEDER	DISTRIBUTION	NETWORK	INTERFACE	LOOP	TOTAL LOOP	
	SEG. NAME	PRIMARY	EXTENSION	SUB-				
	EQPT							
	PLANT	CODE						
	ITEM DESCRIPTION							
7	<u>SHARED RESOURCES</u>							
8	LAND	20C					\$0	
9	BUILDING	10C					\$0	
10	BLDG ENTRANCE CABLE	12C					\$0	
11	INTRABLDG CABLE	52C					\$0	
12	AERIAL CABLE (COPPER)	22C					\$0	
13	BURIED CABLE (COPPER)	45C					\$0	
14	UNDERGROUND (CU) CA.	5C					\$0	
15	CO EQPT ~ LOW CAP TERM	257C					\$0	
16	CO EQPT ~ LOW CAP CHAN	257C					\$0	
17	CO EQPT ~ HI CAP TERM	857C					\$0	
18	CO EQPT ~ HI CAP CHAN	857C					\$0	
19	CO EQPT ~ ANALOG SW	77C					\$0	
20	CO EQPT ~ DIGITAL SW	377C					\$0	
21	AERIAL CABLE (FIBER)	822C					\$0	
22	BURIED CABLE (FIBER)	845C					\$0	
23	UNDERGROUND (FO) CA.	85C					\$0	
24	CONNECTORS	57C					\$0	
25	MISC. COM EQP & PWR	57C					\$0	
26	POLE LINE	1C					\$0	
27	CONDUIT	4C					\$0	
28								
29	<u>DIRECT RESOURCES</u>							
30	LAND	20C					\$0	
31	BUILDING	10C					\$0	
32	BLDG ENTRANCE CABLE	12C					\$0	
33	INTRABLDG CABLE	52C					\$0	
34	AERIAL CABLE (COPPER)	22C					\$0	
35	BURIED CABLE (COPPER)	45C					\$0	
36	UNDERGROUND (CU) CA.	5C					\$0	
37	CO EQPT ~ LOW CAP TERM	257C					\$0	
38	CO EQPT ~ LOW CAP CHAN	257C					\$0	
39	CO EQPT ~ HI CAP TERM	857C					\$0	
40	CO EQPT ~ HI CAP CHAN	857C					\$0	
41	CO EQPT ~ ANALOG SW	77C					\$0	
42	CO EQPT ~ DIGITAL SW	377C					\$0	
43	AERIAL CABLE (FIBER)	822C					\$0	
44	BURIED CABLE (FIBER)	845C					\$0	
45	UNDERGROUND (FO) CA.	85C					\$0	
46	CONNECTORS	57C					\$0	
47	MISC. COM EQP & PWR	57C					\$0	
48	POLE LINE	1C					\$0	
49	CONDUIT	4C					\$0	
50								
51	SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0	
52							\$0	
53								
54								
55								

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C:\23R24\LCATR029\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore (R)	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 5 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 2 FOMUX		STUDY YR: 1998			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS PBX		RUN DATE: 28-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6711 FEET		TIME: 08:35			
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				TOTAL	WEIGHTED
PLANT NAME	FEEDER	DISTRIBUTION	NETWORK	INTERFACE	LOOP	TOTAL	LOOP
SEG. NAME	PRIMARY	EXTENSION	SUB-				
EQPT							
PLANT	CODE						
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	\$0	\$0	\$0	\$0	\$0
						\$0	

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C:\123R24\LCATR029\RESULTS1		LOOP COST ANALYSIS TOOL					Bellcore	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4	
SHEET 6 of 10							Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN:		3 FOMUX		STUDY YR: 1996		
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP		SPANS		TEST CASE: 1		
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS PBX				RUN DATE: 28-Jan-97		
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6711 FEET				TIME: 08:35		

Circuit Design Mix: 1.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		TOTAL
SEG. NAME		PRIMARY		EXTENSION		SUB--		LOOP
EQPT								LOOP
CODE								
PLANT								
ITEM DESCRIPTION								
SHARED RESOURCES								
LAND		20C		\$ 0.00		\$ 0.01		\$ 0.01
BUILDING		10C		\$ 0.00		\$ 0.28		\$ 0.28
BLDG ENTRANCE CABLE		12C		\$ 0.00		\$ 0.00		\$ 0.00
INTRABLDG CABLE		52C		\$ 0.00		\$ 0.00		\$ 0.00
AERIAL CABLE (COPPER)		22C		\$ 0.00		\$ 0.00		\$ 0.00
BURIED CABLE (COPPER)		45C		\$ 0.00		\$ 0.00		\$ 0.00
UNDERGROUND (CU) CA.		5C		\$ 0.00		\$ 0.00		\$ 0.00
CO EQPT - LOW CAP TERM		257C		\$ 0.00		\$ 0.00		\$ 0.00
CO EQPT - LOW CAP CHAN		257C		\$ 0.00		\$ 0.00		\$ 0.00
CO EQPT - HI CAP TERM		857C		\$ 0.00		\$ 0.00		\$ 0.00
CO EQPT - HI CAP CHAN		857C		\$ 0.00		\$ 0.00		\$ 0.00
CO EQPT - ANALOG SW		77C		\$ 0.00		\$ 0.00		\$ 0.00
CO EQPT - DIGITAL SW		377C		\$ 0.00		\$ 0.00		\$ 0.00
AERIAL CABLE (FIBER)		822C		\$ 0.00		\$ 0.00		\$ 0.00
BURIED CABLE (FIBER)		845C		\$ 0.00		\$ 0.00		\$ 0.00
UNDERGROUND (FO) CA.		85C		\$ 0.00		\$ 0.00		\$ 0.00
CONNECTORS		57C		\$ 0.00		\$ 0.00		\$ 0.00
MISC. COM EQP & PWR		57C		\$ 0.00		\$ 0.29		\$ 0.29
POLE LINE		1C		\$ 0.00		\$ 0.00		\$ 0.00
CONDUIT		4C		\$ 0.00		\$ 0.00		\$ 0.00
DIRECT RESOURCES								
LAND		20C		\$ 0.00		\$ 0.00		\$ 0.00
BUILDING		10C		\$ 0.00		\$ 0.00		\$ 0.00
BLDG ENTRANCE CABLE		12C		\$ 0.00		\$ 0.00		\$ 2.45
INTRABLDG CABLE		52C		\$ 0.00		\$ 0.00		\$ 0.00
AERIAL CABLE (COPPER)		22C		\$ 0.00		\$ 1.10		\$ 2.57
BURIED CABLE (COPPER)		45C		\$ 0.00		\$ 0.11		\$ 1.84
UNDERGROUND (CU) CA.		5C		\$ 0.00		\$ 2.20		\$ 0.26
CO EQPT - LOW CAP TERM		257C		\$ 0.00		\$ 0.00		\$ 0.00
CO EQPT - LOW CAP CHAN		257C		\$ 0.00		\$ 0.00		\$ 0.00
CO EQPT - HI CAP TERM		857C		\$ 0.00		\$ 0.00		\$ 0.00
CO EQPT - HI CAP CHAN		857C		\$ 0.00		\$ 0.00		\$ 0.00
CO EQPT - ANALOG SW		77C		\$ 0.00		\$ 0.00		\$ 0.00
CO EQPT - DIGITAL SW		377C		\$ 0.00		\$ 2.28		\$ 0.00
AERIAL CABLE (FIBER)		822C		\$ 0.00		\$ 0.00		\$ 0.00
BURIED CABLE (FIBER)		845C		\$ 0.00		\$ 0.00		\$ 0.00
UNDERGROUND (FO) CA.		85C		\$ 0.00		\$ 0.00		\$ 0.00
CONNECTORS		57C		\$ 0.00		\$ 0.00		\$ 0.00
MISC. COM EQP & PWR		57C		\$ 0.00		\$ 0.00		\$ 0.00
POLE LINE		1C		\$ 0.00		\$ 0.26		\$ 0.87
CONDUIT		4C		\$ 0.00		\$ 0.78		\$ 0.09
SPAN SUMMARY				\$ 0.00		\$ 7.31		\$ 5.37
						\$ 2.45		\$ 15.13
								\$ 15.13

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C:\123R24\LCATR029\RESULTS1		LOOP COST ANALYSIS TOOL					Belcore [®]	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4	
SHEET 7 of 10		COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 4 FOMUX		Issued: 7/31/95		
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		STUDY YR: 1996		TEST CASE: 1		
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS PBX		RUN DATE: 26-Jan-97		TIME: 08:35		
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 6711 FEET						
Circuit Design Mix: 0.0000		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	
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	\$0	\$0	\$0	\$0	\$0	
						\$0	\$0	

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A B C D E F G		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY						Bellcore [®]	
0		CA:123R24\LCATR029\RESULTS1						LCAT Rel: 1.0.4	
1		OUTPUT - WORKSHEET D						Issued: 7/31/95	
2		SHEET 8 of 10						STUDY YR: 1996	
3		COMPANY: CINCINNATI BELL TEL						TEST CASE: 1	
4		CITY / AREA: CINCINNATI						RUN DATE: 28-Jan-97	
5		STATE / PROV: OHIO						TIME: 08:35	
6		JOB IDENT: CINCINNATI							
7		CIRCUIT DESIGN: 5 FOMUX							
8		LOOP SPAN DIVISION: ALL LOOP SPANS							
9		SERVICE CLASS: BAND 2 - BUSINESS PBX							
10		TOTAL LOOP LENGTH: 6711 FEET							
11		Circuit Design Mix: 0.0000						UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY	
12		PLANT NAME						TOTAL LOOP	
13		SEG. NAME						WEIGHTED TOTAL LOOP	
14		EQPT							
15		CODE							
16		PLANT							
17		ITEM DESCRIPTION							
18		<u>SHARED RESOURCES</u>							
19		LAND 20C						\$0 \$0	
20		BUILDING 10C						\$0 \$0	
21		BLDG ENTRANCE CABLE 12C						\$0 \$0	
22		INTRABLDG CABLE 52C						\$0 \$0	
23		AERIAL CABLE (COPPER) 22C						\$0 \$0	
24		BURIED CABLE (COPPER) 45C						\$0 \$0	
25		UNDERGROUND (CU) CA. 5C						\$0 \$0	
26		CO EQPT - LOW CAP TERM 257C						\$0 \$0	
27		CO EQPT - LOW CAP CHAN 257C						\$0 \$0	
28		CO EQPT - HI CAP TERM 857C						\$0 \$0	
29		CO EQPT - HI CAP CHAN 857C						\$0 \$0	
30		CO EQPT - ANALOG SW 77C						\$0 \$0	
31		CO EQPT - DIGITAL SW 377C						\$0 \$0	
32		AERIAL CABLE (FIBER) 822C						\$0 \$0	
33		BURIED CABLE (FIBER) 845C						\$0 \$0	
34		UNDERGROUND (FO) CA. 85C						\$0 \$0	
35		CONNECTORS 57C						\$0 \$0	
36		MISC. COM EQP & PWR 57C						\$0 \$0	
37		POLE LINE 1C						\$0 \$0	
38		CONDUIT 4C						\$0 \$0	
39		<u>DIRECT RESOURCES</u>							
40		LAND 20C						\$0 \$0	
41		BUILDING 10C						\$0 \$0	
42		BLDG ENTRANCE CABLE 12C						\$0 \$0	
43		INTRABLDG CABLE 52C						\$0 \$0	
44		AERIAL CABLE (COPPER) 22C						\$0 \$0	
45		BURIED CABLE (COPPER) 45C						\$0 \$0	
46		UNDERGROUND (CU) CA. 5C						\$0 \$0	
47		CO EQPT - LOW CAP TERM 257C						\$0 \$0	
48		CO EQPT - LOW CAP CHAN 257C						\$0 \$0	
49		CO EQPT - HI CAP TERM 857C						\$0 \$0	
50		CO EQPT - HI CAP CHAN 857C						\$0 \$0	
51		CO EQPT - ANALOG SW 77C						\$0 \$0	
52		CO EQPT - DIGITAL SW 377C						\$0 \$0	
53		AERIAL CABLE (FIBER) 822C						\$0 \$0	
54		BURIED CABLE (FIBER) 845C						\$0 \$0	
55		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	

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C:\123R24\LCATR029\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore [®]	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 9 of 10		COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 6 FOMUX		STUDY YR: 1996	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1		RUN DATE: 28-Jan-97	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS PBX		TOTAL LOOP LENGTH: 6711 FEET		TIME: 08:35	
JOB IDENT: CINCINNATI							
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				TOTAL	WEIGHTED
PLANT NAME		FEEDER				LOOP	TOTAL
SEG. NAME		DISTRIBUTION NETWORK					
EQPT		INTERFACE					
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
51	SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0
52						\$0	\$0
53							
54							
55							

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A
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GCA123R24\LCATR029\RESULTS1
OUTPUT - WORKSHEET D
SHEET 10 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore

LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1995
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 08:35COMPANY: 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 - BUSINESS PBX
TOTAL LOOP LENGTH: 6711 FEET

Technology Type Mix: 1.0000		UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						TECHNOLOGY
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		WEIGHTED
SEG. NAME		PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	LOOP	TOTAL
EQPT								LOOP
CODE								
PLANT								
ITEM DESCRIPTION								
SHARED RESOURCES								
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 0.00	\$ 0.00	\$ 0.01	\$ 0.0100
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.28	\$ 0.00	\$ 0.00	\$ 0.28	\$ 0.2800
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	\$ 0.29	\$ 0.00	\$ 0.00	\$ 0.29	\$ 0.2900
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	\$ 2.45	\$ 2.45	\$ 2.4513
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	\$ 1.10	\$ 2.57	\$ 0.00	\$ 3.67	\$ 3.6700
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.11	\$ 1.84	\$ 0.00	\$ 1.95	\$ 1.9500
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.20	\$ 0.26	\$ 0.00	\$ 2.46	\$ 2.4600
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	\$ 2.28	\$ 0.00	\$ 0.00	\$ 2.28	\$ 2.2800
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	\$ 0.26	\$ 0.61	\$ 0.00	\$ 0.87	\$ 0.8700
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.78	\$ 0.09	\$ 0.00	\$ 0.87	\$ 0.8700
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 7.37	\$ 5.34	\$ 2.45	\$ 15.13	\$ 15.13
							\$ 15.13	

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A B C D E F G	LOOP COST ANALYSIS TOOL							Bellcore [®]	
	PROSPECTIVE INVESTMENT SUMMARY REPORT							LCAT Rel: 1.0.4	
0	CM123R24LCATR029 RESULTS1							Issued: 7/31/95	
1	OUTPUT - REPORT D							STUDY YR: 1995	
2	SHEET 1 of 1							TEST CASE: 1	
3	COMPANY: CINCINNATI BELL TEL							RUN DATE: 25-Jan-97	
4	CITY / AREA: CINCINNATI							TIME: 08:35	
5	STATE / PROV: OHIO								
6	JOB IDENT: CINCINNATI								
7	CIRCUIT DESIGN: TOTAL TECHNOLOGIES								
8	LOOP SPAN DIVISION: ALL LOOP SPANS								
9	SERVICE CLASS: BAND 2 - BUSINESS PBX								
10	TOTAL LOOP LENGTH: 6711 FEET								
11	Loop Span Set Weighting: 1								
12	UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							WEIGHTED	
13	PLANT NAME							TOTAL	
14	SEG. NAME							LOOP	
15	EQPT								
16	CODE								
17	SEG. LGTH.								
18	ITEM DESCRIPTION								
19	SHARED RESOURCES								
20	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 0.00	\$ 0.00	\$ 0.0100	
21	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.28	\$ 0.00	\$ 0.00	\$ 0.2800	
22	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
23	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
24	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
25	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
26	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
27	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
28	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
29	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
30	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
31	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
32	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
33	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
34	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
35	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
36	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
37	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.29	\$ 0.00	\$ 0.00	\$ 0.2900	
38	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
39	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
40	DIRECT RESOURCES								
41	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
42	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
43	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513	
44	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
45	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 1.10	\$ 2.57	\$ 0.00	\$ 3.6700	
46	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.11	\$ 1.84	\$ 0.00	\$ 1.9500	
47	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.20	\$ 0.26	\$ 0.00	\$ 2.4600	
48	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
49	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
50	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
51	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
52	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
53	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 2.28	\$ 0.00	\$ 0.00	\$ 2.2800	
54	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
55	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
56	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
57	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
58	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
59	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.26	\$ 0.00	\$ 0.00	\$ 0.2600	
60	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
61	SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 7.30	\$ 2.45	\$ 0.00	\$ 15.13	
62								\$ 15.13	

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C:\123R24\LCATR029\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 ONLY) BUSINESS PBX 0 - 14000 FEET INTRASTATE

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR / DS	FLAT RATE	# BANDS	Q: 25	Jan-97
SVC LEVEL	NARROWBAND	PORTS		09:08
CST METH	UNINCH	INV LEVEL	ANNOOST	TIME

NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUC
.....your report is ready for viewing

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

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C:\123R24\LCATR029\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 2 - BUSINESS PBX
TOTAL LOOP LENGTH: 6711 FEET

Bellcore^(R)
LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 08:35

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Circuit Design Mix: 1.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

PLANT NAME SEG. NAME EQPT CODE	FEEDER			DISTRIBUTION NETWORK		TOTAL LOOP	WEIGHTED TOTAL LOOP
	PRIMARY	EXTENSION	SUB-	INTERFACE			
<u>SHARED RESOURCES</u>							
LAND 20C	\$ 0.00		\$ 0.01	\$ 0.00		\$ 0.01	\$ 0.01
BUILDING 10C	\$ 0.00		\$ 0.28	\$ 0.00		\$ 0.28	\$ 0.28
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		\$ 0.29	\$ 0.00		\$ 0.29	\$ 0.29
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
<u>DIRECT RESOURCES</u>							
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	\$ 2.45	\$ 2.45	\$ 2.45
INTRABLDG CABLE 52C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER) 22C	\$ 0.00		\$ 1.10	\$ 2.57		\$ 3.67	\$ 3.67
BURIED CABLE (COPPER) 45C	\$ 0.00		\$ 0.11	\$ 1.84		\$ 1.95	\$ 1.95
UNDERGROUND (CU) CA. 5C	\$ 0.00		\$ 2.20	\$ 0.26		\$ 2.46	\$ 2.46
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		\$ 2.28	\$ 0.00		\$ 2.28	\$ 2.28
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		\$ 0.78	\$ 0.09		\$ 0.87	\$ 0.87
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 7.37	\$ 5.37	\$ 2.45	\$ 15.13
CIRCUIT DESIGN SUMMARY							\$ 15.13

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A B C D E F G		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 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		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY Bellicore [®] LCAT Rel: 1.0.4 Issued: 7/31/95 STUDY YR: 1998 TEST CASE: 1 DATE: 28-Jan-97 TIME: 08:35									
CM123R24\LCATR029\RESULTS1 OUTPUT - WORKSHEET D SHEET 2 of 10		COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO JOB IDENT: CINCINNATI		CIRCUIT DESIGN: 2 CDLC LOOP SPAN DIVISION: ALL LOOP SPANS SERVICE CLASS: BAND 2 - BUSINESS PBX TOTAL LOOP LENGTH: 6711 FEET									
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL LOOP		WEIGHTED TOTAL LOOP					
SEG. NAME		PRIMARY		EXTENSION		SUB-		INTERFACE					
EQPT													
PLANT CODE													
ITEM DESCRIPTION													
<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 - P GAIN TERM	257C								\$0	\$0		
38	CO EQPT - P GAIN CHAN	257C								\$0	\$0		
39	CO EQPT - FO MUX TERM	857C								\$0	\$0		
40	CO EQPT - FO MUX 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		
52	CIRCUIT DESIGN SUMMARY									\$0	\$0		
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A B C D E F G	LOOP COST ANALYSIS TOOL							Bellcore (R)	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY							LCAT Rel: 1.0.4 Issued: 7/31/95	
	C:\123R24\LCATR029 RESULTS1							STUDY YR: 1996	
	OUTPUT - WORKSHEET D							TEST CASE: 1	
	SHEET 3 of 10							RUN DATE: 28-Jan-97	
	COMPANY: CINCINNATI BELL TEL							TIME: 08:35	
	CITY / AREA: CINCINNATI								
	STATE / PROV: OHIO								
	JOB IDENT: CINCINNATI								
	CIRCUIT DESIGN: MELDED CDLC								
	LOOP SPAN DIVISION: ALL LOOP SPANS								
	SERVICE CLASS: BAND 2 - BUSINESS PBX								
	TOTAL LOOP LENGTH: 6711 FEET								
0	Technology Type Mix: 0.0000							TECHNOLOGY	
1	UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							WEIGHTED	
2	PLANT NAME							TOTAL	
3	SEG. NAME							LOOP	
4	EQPT							TOTAL	
5	CODE							LOOP	
6	PLANT								
7	ITEM DESCRIPTION								
8	SHARED RESOURCES								
9	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 0.00	\$ 0.00	\$ 0.01	\$ 0.0000
10	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.28	\$ 0.00	\$ 0.00	\$ 0.28	\$ 0.0000
11	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
12	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
13	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
14	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
15	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
16	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
17	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
18	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
19	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
20	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
21	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
22	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
23	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
24	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
25	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
26	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.29	\$ 0.00	\$ 0.00	\$ 0.29	\$ 0.0000
27	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
28	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
29	DIRECT RESOURCES								
30	LAND	20C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 0.0000
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 1.10	\$ 2.57	\$ 0.00	\$ 3.67	\$ 0.0000
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.11	\$ 1.84	\$ 0.00	\$ 1.95	\$ 0.0000
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.20	\$ 0.26	\$ 0.00	\$ 2.46	\$ 0.0000
37	CO EQPT - P GAIN TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
38	CO EQPT - P GAIN CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
39	CO EQPT - FO MUX TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
40	CO EQPT - FO MUX CHAN	857C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 2.28	\$ 0.00	\$ 0.00	\$ 2.28	\$ 0.0000
43	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
48	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.26	\$ 0.61	\$ 0.00	\$ 0.87	\$ 0.0000
49	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.09	\$ 0.00	\$ 0.09	\$ 0.0000
50	SPAN SUMMARY								
51									
52	TECHNOLOGY DESIGN SUMMARY								
53									
54									
55									

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C:\123R24\LCATR029\COSTMETH

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: 28-Oct-96

TIME: 10:32

COMPANY: CINCINNATI BELL TEL

STATE: OHIO

SWITCHED

SERVICES

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

FOOTNOTES

① THESE ASSIGNMENTS APPLY TO DEDICATED COPPER - PAIRS (NON-MULTIPLAIED) FEEDER & DISTRIBUTION
 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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HELP SCREEN

Bellcore (R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 1 of 2

Issued : 07/31/95

Field / Group Title	Valid Inputs	This field or grouping defines -
SERVICES	(none)	The system matrix for DISTRIBUTION cost methodology for - 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 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. 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 - F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component.
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function - DIRECT for Dedicated or Circuit Specific Investment. 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 *****

PRESS <ENTER> TO RETURN TO THE MAIN MENU

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C:\123R24\LCAT029\COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore^(R)TABLE - COST_METH
SHEET 2 of 2COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENTCOMPANY: CINCINNATI BELL TEL.
STATE: OHIO

SWITCHED SERVICES

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 28-Oct-96
TIME: 10:32

PLANT ITEM	WHEN BANDWIDTH DELIVERY IS						
	NARROWBAND		WIDEBAND		BROADBAND		
	PLANT CODE	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE 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(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**Bellcore**^(R)

TABLE - COST_METH

LCAT Rel : 1.0.4

Sheet 2 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 FEEDER cost methodology for - 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 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. 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 - F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component.
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function DIRECT for Dedicated or Circuit Specific Investment. 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 *****

PRESS <ENTER> TO RETURN TO THE MAIN MENU

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C:\123R24\LCAT\029\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore (R)	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 28-Jan-97	
LCAT Rel.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				28-Oct-96 10:57 AM	
STUDY NAME		1996 BAND 2 (OHIO ONLY) BUSINESS PBX 0 - 14000 FEET INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 2 - BUSINESS PBX		STUDY BASIS	
				☒ NETWORK	
				☐ 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			
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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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PECO

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CA123R24\LCAT025\CRITERIA		HELP SCREEN	Belcore®
INPUT - STUDY SETUP			LCAT Rel. 1.0.4
Sheet 1 of 2			ISSUED: 3/31/95
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>, , <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 <u>percent of technology mix</u> , 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 <u>scope of the jurisdiction</u> and the definitions of the cell layers: C1, C2, C3, C4; which represent the <u>VERY HIGH, HIGH, MEDIUM, LOW</u> qualifiers, such as, METRO, URBAN, SUBURBAN, and RURAL.		
***** 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\LCATR029\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore (R)																		
INPUT - STUDY SETUP SHEET 2 / 2 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		GENERAL STUDY REQUIREMENTS STUDY QUESTIONS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 10:57 AM																		
<table style="width: 100%; border: none;"> <tr> <td style="width: 15%; vertical-align: top;"> CONCERNING ~ SERVICE SPEC. </td> <td style="width: 55%; vertical-align: top;"> SELECTED QUESTIONS 1. Is this Study for a NEW Installation or an ADDITION ? 2. Is this Study for a SWITCHED or PRIVATE LINE Service ? 3. Is this Study for Narrow, Wide, or Broadband Services 4. Is this Study for 2 Wire or 4 Wire Transmission ? OFFICE CHAR. 5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ? RESULTS SPEC. 9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? 9a. If Distance Sensitive, what band increment do you want ? 10. How many Cost Bands in this study ? 11. Should this Study result in Investment, Cost, or All values ? 12. Is this study for Total Incremental or Marginal Costs ? 13. How many circuits (loops) in this Study ? 14. The study classification is (e.g.; RATES PLAN, TEST DATA, NEW SERVICE) Required for the "Footer" of each Report page. </td> <td style="width: 30%; vertical-align: top;"> VALID RESPONSE SET N or A <table border="1" style="display: inline-table; text-align: center;"><tr><td>NEW</td></tr></table> S or P <table border="1" style="display: inline-table; text-align: center;"><tr><td>SWITCHED</td></tr></table> N, W or B <table border="1" style="display: inline-table; text-align: center;"><tr><td>NARROWBAND</td></tr></table> 2 or 4 <table border="1" style="display: inline-table; text-align: center;"><tr><td>2</td></tr></table> 0 → 100 <table border="1" style="display: inline-table; text-align: center;"><tr><td>100</td></tr></table> 0 → 100 <table border="1" style="display: inline-table; text-align: center;"><tr><td>0</td></tr></table> 0 → 100 <table border="1" style="display: inline-table; text-align: center;"><tr><td> </td></tr></table> e.g., 12000 <table border="1" style="display: inline-table; text-align: center;"><tr><td>14000</td></tr></table> Feet F or D <table border="1" style="display: inline-table; text-align: center;"><tr><td>FLAT RATE</td></tr></table> 1,2,3,4 <table border="1" style="display: inline-table; text-align: center;"><tr><td> </td></tr></table> 0 → 5 <table border="1" style="display: inline-table; text-align: center;"><tr><td> </td></tr></table> I, C or A <table border="1" style="display: inline-table; text-align: center;"><tr><td>COST</td></tr></table> T or M <table border="1" style="display: inline-table; text-align: center;"><tr><td>TOT INCR</td></tr></table> 1 or 2 <table border="1" style="display: inline-table; text-align: center;"><tr><td> </td></tr></table> 1996 <table border="1" style="display: inline-table; text-align: center;"><tr><td>RATES PLAN</td></tr></table> </td> </tr> </table>					CONCERNING ~ SERVICE SPEC.	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CA123R24\LCATR029\CRITERIA

HELP SCREEN**Bellcore** (R)

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 Cost 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

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR029\DESIGN		LOOP COST ANALYSIS TOOL		Bellcore
INPUT - LOOP DESIGN Sheet 1 / 1 COMPANY : CINCINNATI BELL TEL. CITY / AREA : CINCINNATI STATE / PROV : OHIO		CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX		LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 28-Oct-96 TIME : 10:59

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 0.0000

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

Proportion of links on CDLC / MAR 0.0000

CIRCUIT DESIGN REQUIREMENTS -
SELECTION & DISTRIBUTION:
 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	0.0000
1.0000 ChkSum	

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

C:\123R24\LCATR029\DESIGN

HELP SCREEN

Bellcore

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.

***** 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\LCATR029\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN INV SHEET 1 / 4		LOOP FACILITY INPUT FIBER CABLE DATA		LCAT Rel: 1.0.4	
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 - BUSINESS PBX		LAST UPDATE: 28-Oct-95	
				TIME: 11:03	
FIBER CABLE INVESTMENT AND CHARACTERISTICS					
CABLE TYPE MIX (DISTRIBUTION TO CODE) : Proportion of FIBER cable installations that are		FOR FEEDER SEGMENTS		FOR DISTRIBUTION SEGMENTS	
		AERIAL	0.4800	0.0000	factors
		BURIED	0.0000	0.0000	factors
		UNDGRD	0.5200	0.0000	factors
INVESTMENT PER CABLE PAIR FOOT BY CABLE TYPE :					
Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y/N)			N	[Required with INDIVIDUAL Mode]	
If not, Update Unit Averages as Follows :					
PRIMARY SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.1930	per fiber pair Foot per fiber pair Foot per fiber pair Foot	
		BURIED	\$ 0.2694		
		UNDGRD	\$ 0.1827		
		(to Fiber Hub)			
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT					
Average Unit Investment for FIBER cable, Installed as		AERIAL	\$ 0.1930	\$ 0.0000	per fiber pair Foot per fiber pair Foot per fiber pair Foot
		BURIED	\$ 0.2694	\$ 0.0000	
		UNDGRD	\$ 0.1827	\$ 0.0000	
		(Fiber Hub to Remote Terminal)			(Remote Terminal to Service Point)

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CA123R24\LCAT029\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore
TABLE - SPAN INV SHEET 1A / 4		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR		LCAT Ver: 1.0.4 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 - BUSINESS PSX		LAST UPDATE: 28-Oct-96 TIME: 11:03

FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE

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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CM123R24\LCATR029\FACILITY
TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

BelcoreTM
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 *****

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CA123R24ILCATR029/FACILITY		LOOP COST ANALYSIS TOOL				Bellcore [®]																																		
TABLE - SPAN_INV SHEET 2/4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE/PROV: OHIO		LOOP FACILITY INPUT COPPER CABLE DATA FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX			LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 11:03																																			
COPPER CABLE CHARACTERISTICS AND INVESTMENTS																																								
Cable Gauge Mix : The Proportion of Copper Cable that is	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">GAUGE</th> <th style="text-align: center;">FEEDER SEGMENT</th> <th style="text-align: center;">DISTRIBUTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td>26 GA.</td> <td style="text-align: center;">0.1500</td> <td style="text-align: center;">0.1500</td> </tr> <tr> <td>24 GA.</td> <td style="text-align: center;">0.8500</td> <td style="text-align: center;">0.8500</td> </tr> <tr> <td>22 GA.</td> <td style="text-align: center;">0.0000</td> <td style="text-align: center;">0.0000</td> </tr> </tbody> </table>	GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT	26 GA.	0.1500	0.1500	24 GA.	0.8500	0.8500	22 GA.	0.0000	0.0000	Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge : Update Cable Sheath Prices [Required with INDIVIDUAL Mode] on the FULL SET Input SHEET ? (Y/N) N If not, Update																										
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NOTE : If the DROP WIRE resource Investment is a zero value, it may be backed out through input of the Drop Wire Unit Investment (Sheet 5) and the flagging of the Adjustment either there or in the ADJUST input file worksheet.																																								

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CA123R24\LCATR029\FACILITY	LOOP COST ANALYSIS TOOL	Bellcore
TABLE = SPAN INV SHEET 2A / 4	LOOP FACILITY INPUT COPPER CABLE DATA - BY CABLE SHEATH DETAIL FOR	LCAT Ver: 1.0.4 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 - BUSINESS PBX	LAST UPDATE: 28-Oct-96 TIME: 11:03

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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CM123R24\LCATR029\FACILITY
TABLE - SPAN_INV
SHEET 2 / 4

HELP SCREEN

Bellcore
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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C:\123R24\LCATR029\FACILITY.WK1

LOOP COST ANALYSIS TOOL

Bellcore[®]SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTION'S WELDING
WORKSHEET A
 LCAT R# 10.4
 Issue Date: 07/31/95
 STUDY YR 1996
 TEST CASE 1996
 DATE 1
 LAST UPDATE 28-Oct-96
 TIME 11:03

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

 FACILITY TYPE: COPPER CABLE
 DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 2 - BUSINESS PBX

MELDED CABLE INVESTMENT PER PAIR FOOT					
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfl..ds)	CABLE GAUGE MIX (copper..dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:					
AERIAL @ 26 GA.	[A] 0.620000	[B] \$ 0.042600	[C] 0.1500	[D=A*C] 0.093000	[E=B*C] \$ 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 RANGE NAME	MELDED GAUGES
CHARACTERISTICS FOR:		
AERIAL	(F=sum(D*TYPE))	0.620000
BURIED		0.330000
UNDERGRND		0.050000

Check = 1.000000

PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
(G=sum(E*TYPE))	
	\$ 0.042600
	\$ 0.066800
	\$ 0.058000

PAIR / FOOT INVESTMENT RENORMALIZED AERIAL / BURIED	MELDED GAUGES
(H=sum(F*TYPE))	
	\$ 0.652632
	\$ 0.347368

Check = 1.000000

FOOTNOTES

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C: 123R24\LCATR029\FACILITY.WK1		LOOP COST ANALYSIS TOOL			Bellcore (R)	
SPAY INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR FACILITY TYPE: COPPER CABLE DESIGN TYPE: SUBFEEDER SEGMENT			LCAT Ver: 1.0.4 Issue Date: 07/31/95 STUDY YR: 1996 TEST CASE: 1906 DATE: 1 LAST UPDATE: 28-Oct-96 TIME: 11:03	
COMPANY: CINCINNATI BELL TEL. CITY/AREA: CINCINNATI STATE/PROV: OHIO		SERVICE CLASS: SAND 2 - BUSINESS PBX				
MELDED CABLE INVESTMENT PER PAIR FOOT						
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)	PER FOOT INVESTMENT (pfi...fd)	CABLE GAUGE MIX (copper...fdr)	ADJUSTED CABLE TYPE	ADJUSTED 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	0.248500	\$ 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 DESC.	CABLE TYPE MIX RANGE NAME MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME MELDED GAUGES	PAIR / FOOT INVESTMENT RENORMALIZED, AERIAL / BURIED	MELDED GAUGES		
CHARACTERISTICS FOR:	[F=sum(D*Type)]	[G=sum(E*Type)]	[H=F*Type / sum(F*Type)]			
AERIAL	0.290000	\$ 0.011900	\$ 0.935484			
BURIED	0.020000	\$ 0.020500	\$ 0.064516			
UNDERGRND	0.690000	\$ 0.011000				
Check = 1.000000		Check = 1.000000				
FOOTNOTES						

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C:\1123R24\LCAT\029\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (P)	
TABLE - SPAN_NV SHEET 3 / 4		LOOP FACILITY INPUT COPPER PAIRGAIN CABLE DATA		LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL		FOR		STUDY YR: 1996	
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996		TEST CASE: 1	
STATE/PROV: OHIO		LCOP STUDY YEAR: 1996		LAST UPDATE: 28-Oct-96	
		SERVICE CLASS: BAND 2 - BUSINESS PBX		TIME: 11:03	
COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS					
FOR DLC SYSTEMS ON COPPER LOOPS					
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
NOTE: 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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C:\123R24\LCATH029\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN**Bellcore**®

LCAT Ref : 07/31/95
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 *****

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CA123R24\LCATR029\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore	
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS MELLING WORKSHEET B		LCAT Ver: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		FOR 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 - BUSINESS PBX		DATE: 1	
				LAST UPDATE: 28-Oct-96	
				TIME: 11:03	
INVESTMENT DEVELOPMENT FOR:		MELDED CABLE INVESTMENT PER PAIR FOOT LINE REPEATER EQUIPMENT			
DESCRIPTION	REPEATER SPACING	UNIT REPEATER INVESTMENT	REPEATER INVEST. 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	
ADJUSTED PAIR / FOOT INVESTMENT	PAIR / FOOT INVESTMENT	REPEATER BY GAUGE	WORKING CHANNEL INVESTMENT / FOOT	- TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT	
DESCRIPTION	2 * (B/C) [D]	(R/PTR) [E=C]	(A/DLCPF) [F=D+E]	(A/DLCPF) [G]	
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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CM123R24\LCATR029\FACILITY	LOOP COST ANALYSIS TOOL	Bellcore (R)
TABLE - SPAN_INV SHEET 4 / 4	LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR	LCAT Rel: 1.0.4 Issued: 07/31/95
COM: 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 - BUSINESS PBX	LAST UPDATE: 28-Oct-96
		TIME: 11:03

SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS**AVERAGE UNIT MIX :****AVERAGE UNIT INVESTMENT :**

The Average Number of Terminals in the Service Access Segment of a Loop -

Proportion of Loops that use.....

Aerial	0.00
Buried	0.00

Per Unit Installation.....

Aerial Termination	0
Buried Termination	0

The Average Drop Wire & Building Entrance Cable Installation -

Proportion of Loops that use..

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)

Per Unit Installation.....

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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\\LCATRD29\FACILITY
SPAN_INV
14

HELP SCREEN

Bellcore (R)
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
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.

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C:\123R24\LCATR029\FACTORS		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - FACTORS SHEET 1 / 1		INVESTMENT RELATED FACTOR TABLES FOR ANNUALIZATION FACTORS		LCAT Rel : 1.0.4 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 - BUSINESS PBX		LAST UPDATE : 17-Jan-97	
				TIME : 15:22	

plant list	PRICE INDEX	ANNUAL COST
LAND	1.0000	0.2322
BUILDING	1.0000	0.2937
BLDG ENTRANCE CABLE	1.0000	0.3922
INTRABLDG CABLE	1.0000	0.3922
AERIAL CABLE (COPPER)	1.0000	0.4033
BURIED CABLE (COPPER)	1.0000	0.3467
UNDERGROUND (CU) CA.	1.0000	0.3663
CO EQPT - LOW CAP TERM	1.0000	0.3881
CO EQPT - LOW CAP CHAN	1.0000	0.3881
CO EQPT - HI CAP TERM	1.0000	0.3881
CO EQPT - HI CAP CHAN	1.0000	0.3881
CO EQPT - ANALOG SW	1.0000	0.0000
CO EQPT - DIGITAL SW	1.0000	0.3458
AERIAL CABLE (FIBER)	1.0000	0.2983
BURIED CABLE (FIBER)	1.0000	0.2724
UNDERGROUND (FO) CA.	1.0000	0.2589
CONNECTORS	1.0000	0.3881
MISC. COM EQP & PWR	1.0000	0.3881
POLE LINE	1.0000	0.3807
CONDUIT	1.0000	0.2521

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C:\123R24\LCATR029\INVEST		LOOP COST ANALYSIS TOOL				Bellcore	
TABLE - EQUIP_INV Sheet 1 of 1		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR				LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 11:05	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 SERVICE LEVEL: NARBAND SERVICE CLASS: BAND 2 - BUSINESS PBX					
EQUIPMENT INVESTMENT (including Engineer, Furnish, & Install Costs)							
		CENTRAL OFFICE			REMOTE LOCATION		
		LINE	CHANNEL	TERMINAL	CHANNEL	TERMINAL	
AIR DRYERS INVESTMENT:							
For an AERIAL Installed Cable Pair				\$ 0.00			
For a BURIED Installed Cable Pair				\$ 0.00			
For an UNDERGROUND Installed Cable Pair				\$ 0.00			
CENTRAL OFFICE TERMINATION INVESTMENT:							
For each cable pair associated with twisted pair copper cable				\$ 79.08			
For each per cable pair associated with digital loop carrier technology				\$ 0.00			
COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:							
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	
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:							
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	
CEV HOUSING per CIRCUIT by SERVICE LEVEL:							
For CEV's used as fiber hubs for FO Multiplexer equipment						\$ 0.00	
For CEV's used as remote terminals for CDLC equipment						\$ 8.33	
[Unit Investment denotes average weighted unit E.F. Investment at DS0, DS1, or DS3 service equiv.]							

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TABLE -- EQUIP_INV

HELP INFORMATION

Bellcore

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 -

Otc 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

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C:\123R24\LCATR029\LOADING		LOOP COST ANALYSIS TOOL		Bellcore ^(R)
TABLE - ADDNL INV Sheet : of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX		LCAT Ref: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-95 TIME: 11:07
PLANT UTILIZATION FACTORS:				
Land	1.0000	ALL Non-Traffic Sensitive Equipment	1.0000	
Building	1.0000			
ALL Copper Cables, or		ALL Digital Loop Carrier Equip., or		
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		
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	CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO		
Conduit	1.0000			
		Remote Housing: CEV	1.0000	
		PCB	1.0000	
		Comm. Sys. 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
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C:\123R24\LCATR029\LOADING		LOOP COST ANALYSIS TOOL		Bellcore (R)															
TABLE - ADDNL_INV Sheet 2 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX		LCAT Ref: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 11:07															
SEGMENT DISTRIBUTION FEEDER ② use DEFAULT		DROP WIRE (DW) INVESTMENT ADJUSTMENT: The Cable PFI is being Adjusted for DW ? NO																	
POLE LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Copper Cable Pole Investment Factor</td> <td>0.2530</td> <td>0.2530</td> </tr> <tr> <td>Copper Cable Pole Unit Investment</td> <td></td> <td></td> </tr> </table>		Copper Cable Pole Investment Factor	0.2530	0.2530	Copper Cable Pole Unit Investment			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Aerial Cable</td> <td></td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> <td></td> </tr> </table>			Aerial Cable			Buried Cable			Underground Cable		
Copper Cable Pole Investment Factor	0.2530	0.2530																	
Copper Cable Pole Unit Investment																			
Aerial Cable																			
Buried Cable																			
Underground Cable																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Fiber Cable Pole Investment Factor</td> <td>0.1965</td> <td>0.1965</td> </tr> <tr> <td>Fiber Cable Pole Unit Investment</td> <td></td> <td></td> </tr> </table>		Fiber Cable Pole Investment Factor	0.1965	0.1965	Fiber Cable Pole Unit Investment			use DEFAULT ① ② for: CENT. OFC. REMOTE SITE											
Fiber Cable Pole Investment Factor	0.1965	0.1965																	
Fiber Cable Pole Unit Investment																			
CONDUIT LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Copper Cable Conduit Investment Factor</td> <td>0.5165</td> <td>0.5165</td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </table>		Copper Cable Conduit Investment Factor	0.5165	0.5165	Copper Cable Conduit Unit Investment			LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or ALL ①</td> <td>0.0056</td> <td>0.0056</td> </tr> <tr> <td>Digital Loop Carrier</td> <td>0.0056</td> <td>0.0056</td> </tr> <tr> <td>Fiber Optic Mux</td> <td>0.0056</td> <td>0.0056</td> </tr> </table>			Other or ALL ①	0.0056	0.0056	Digital Loop Carrier	0.0056	0.0056	Fiber Optic Mux	0.0056	0.0056
Copper Cable Conduit Investment Factor	0.5165	0.5165																	
Copper Cable Conduit Unit Investment																			
Other or ALL ①	0.0056	0.0056																	
Digital Loop Carrier	0.0056	0.0056																	
Fiber Optic Mux	0.0056	0.0056																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td>0.5232</td> <td>0.5232</td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </table>		Fiber Cable Conduit Investment Factor	0.5232	0.5232	Fiber Cable Conduit Unit Investment			BUILDING LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or ALL ①</td> <td>0.1316</td> <td>0.1316</td> </tr> <tr> <td>Digital Loop Carrier</td> <td>0.1316</td> <td>0.1316</td> </tr> <tr> <td>Fiber Optic Mux</td> <td>0.1316</td> <td>0.1316</td> </tr> </table>			Other or ALL ①	0.1316	0.1316	Digital Loop Carrier	0.1316	0.1316	Fiber Optic Mux	0.1316	0.1316
Fiber Cable Conduit Investment Factor	0.5232	0.5232																	
Fiber Cable Conduit Unit Investment																			
Other or ALL ①	0.1316	0.1316																	
Digital Loop Carrier	0.1316	0.1316																	
Fiber Optic Mux	0.1316	0.1316																	
		MISC. EQUIPMENT & POWER LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or ALL ①</td> <td>0.1127</td> <td>0.1127</td> </tr> <tr> <td>Digital Loop Carrier</td> <td>0.1127</td> <td>0.1127</td> </tr> <tr> <td>Fiber Optic Mux</td> <td>0.1127</td> <td>0.1127</td> </tr> </table>			Other or ALL ①	0.1127	0.1127	Digital Loop Carrier	0.1127	0.1127	Fiber Optic Mux	0.1127	0.1127						
Other or ALL 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 SCREEN

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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	cpufi	__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	fpufi	__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	fucff	__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:\123P24\LCATR029\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]
INPUT - FANT_CHAR. Sheet 1 of 5		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR		LCAT Rel: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 25-Oct-96 TIME: 12:52
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY				
LOOP TOPOLOGY		ACTION SEGMENT		
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		
SPAN LENGTHS				
①	Average Distance From the Central Office to the Service Access Point	TOTAL LOOP 6711.0		
②	Average Distance From the Serving Area Interface to the Service Access Point	DISTRIBUTION 1013.0		
③	Average Distance From the Remote Terminal to the Serving Area Interface	SUB-PRIMARY 300.0		
④	Average Distance From the Central Office to the Fiber Hub or S.A.I.	PRIMARY 5398.0		
⑤	Average Distance From the Fiber Hub to the Remote Terminal	PRIMARY-EXTENSION		
LOOP LENGTH AT EACH COST BAND		DISTRIBUTION OF COST BANDS IN THE NETWORK		
BAND 1		BAND 1		CONFIDENTIAL NOTICE MUST BE GIVEN PRIOR TO RELEASE TO PUBLIC PROVIDED TO PUCO
BAND 2		BAND 2		
BAND 3		BAND 3		
BAND 4		BAND 4		
BAND 5		BAND 5		
LAST	6711.0	LAST	1.0000	1.0000

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C:\123R24\LCATR029\SPAN		LOOP COST ANALYSIS TOOL		Belcore [®]
INPUT - PLANT_CHAR Sheet 1 / 1		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS FOR		LCAT Rel : 1.0.4 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 - BUSINESS PBX		LAST UPDATE : 28-Oct-96 TIME : 12:52
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY				
LOOP LENGTH ① 6711 FEET				
DROP DISTRIBUTION FEEDER ② ③				
1013 FEET 5698 FEET SUB-PRIMARY EXTENSION ④ ⑤				
FIBER DISTRIBUTION FIBER HUB ⑥ ⑦				
NETWORK INTERFACE	SERVICE ACCESS POINT	SERVING AREA INTERFACE	REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) REMOTE NODE (LOOP TRANSFER)	END OFFICE

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C:\123R24\LCATR029\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - PLANT CHAR. Sheet 1 of 2		LOOP FACILITY INPUT HELP SCREEN		LCAT 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*****					
PRESS 'ENTER' TO RETURN TO THE MAIN MENU					

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LOOP COST ANALYSIS TOOL

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INPUT - PLANT_CHAR.

LCAT Rel : T.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 NAMES *****

PRESS 'ENTER' TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR029\SPAN		LOOP COST ANALYSIS TOOL				Bellcore®	
INPUT - PLANT_CHAR.		LOOP FACILITY INPUT				LCAT Rel: 1.0.4	
Sheet 2a / 5		FIBER OPTIC CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER				Issued: 07/31/95	
COMPANY: 0		INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: 0		LOOP STUDY YEAR: 1996				TEST CASE: 1	
STATE / PROV: 0		SERVICE CLASS: BAND 2 - BUSINESS PBX				LAST UPDATE: 28-Oct-96	
						TIME: 12:52	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A			
		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
		CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT	CUMULATIVE FEEDER LENGTH	EFFECTIVE LENGTH BY PAIR FOOT
CAPACITY [C]	idx	[D _A]	[E _A]	[D _B]	[E _B]	[D _U]	[E _U]
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\LCATR029\SPAN		LOOP COST ANALYSIS TOOL				Bellcore®	
PLANT CHAR - WORKSHEET 2B Sheet 2b / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR				LCAT Rel : 1.0.4 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 - BUSINESS PBX				LAST UPDATE: 28-Oct-96	
						TIME: 12:52	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET B			
EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E] WKSH A / [F] WKSH C CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A] * [C] * UNIT INV FACILITY WKSH B							
CAPACITY		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
For these sizes ...	[C]	idx	[A]	[B]	[A]	[B]	[A]
4 FIBER CABLE	2 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
6 FIBER CABLE	3 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
12 FIBER CABLE	6 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
18 FIBER CABLE	9 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
24 FIBER CABLE	12 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
36 FIBER CABLE	18 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
48 FIBER CABLE	24 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
60 FIBER CABLE	30 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
72 FIBER CABLE	36 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
84 FIBER CABLE	42 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
96 FIBER CABLE	48 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
144 FIBER CABLE	72 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
192 FIBER CABLE	96 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
216 FIBER CABLE	108 pr		0.000	\$ 0.00	0.000	\$ 0.00	0.000
SUBTOTAL			\$ 0.00		\$ 0.00		\$ 0.00
			for total		for total		for total

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INPUT - PLANT CHAR. Sheet 3a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER FOR				LCAT Rel : 1.0.4 Issued : 07/31/95				
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS				STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 28-Oct-96 TIME : 12:52				
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY IDK	26 GA.			24 GA.			22 GA.		
		AERIAL	BURIED	UNDGRO	AERIAL	BURIED	UNDGRO	AERIAL	BURIED	UNDGRO
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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PLANT CHAR - WORKSHEET 3B Sheet 3b / 5			LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER						LCAT Rel : 1.0.4 Issued : 07/31/95		
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI			INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996 TEST CASE : 1		
STATE: OHIO			SERVICE CLASS: BAND 2 - BUSINESS						LAST UPDATE: 28-Oct-95 TIME: 12:52		
NETWORK CIRCUIT LAYOUT STUDIES			WORKSHEET B								
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES	CAPACITY idx		26 GA.			24 GA.			22 GA.		
			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

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C:\123R24\LCATR029\SPAN		LOOP COST ANALYSIS TOOL				Bellcore				
INPUT - PLANT_CHAR. Sheet 4a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER FOR				LCAT Rel : 1.0.4 Issued : 07/31/95				
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS				STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 12:52				
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A								
		CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY 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

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C:\123R24\LCATR029\SPAN		LOOP COST ANALYSIS TOOL						Bellcore			
PLANT CHAR - WORKSHEET 4B Sheet 4b / 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER FOR						LCAT Rel: 1.0.4 Issued: 07/31/95			
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 12:52			
SERVICE CLASS: BAND 2 - BUSINESS		WORKSHEET B									
NETWORK CIRCUIT LAYOUT STUDIES											
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			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UNDGRD CABLE SUBTOTAL			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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C:\123R24\LCATR029\SPAN		LOOP COST ANALYSIS TOOL							Bellcore [®]	
INPUT - PLANT_CHAR. Sheet 5 / 5		LOOP FACILITY INPUT DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX FOR							LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX							STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 12:52	
FIBER BANDWIDTH TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL ☐ 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
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, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 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: OHIO

WORKSHEET DS

LCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 28-Oct-96
TIME: 12:52

DIGITAL SIGNAL TABLE (digsig.tbl)						
SELECT	MODE	HIERARCHY	BNDWDT	DS1MULT	DS3MULT	VEG
0						
1						
2						
3	MODE3	DS111.5 Mbps	1	0.04	24	BIDIR 2WCU CA
4		DS111.5 Mbps	1	0.04	24	UNDIR.FIBER
5		VTT.511.5 Mbps	1	0.04	24	UNDIR.FIBER
6		VT12 Mbps	1	0	30	BIDIR 2WCU CA
7	MODE1	ET12 Mbps	1	0.06	48	BIDIR 2WCU CA
8	MODE2	DSTC13.2 Mbps	NA	0.07	48	BIDIR 2WCU CA
9		DSTC13.2 Mbps	2	0.07	56	UNDIR.FIBER
10		VT13.2 Mbps	2	0.07	60	
11		4 Mbps	2	0	72	BIDIR 2WCU CA
12	MODE4	DS216.3 Mbps	NA	0.14	72	BIDIR 2WCU CA
13		DS216.3 Mbps	4	0.14	84	UNDIR.FIBER
14		VT16.3 Mbps	4	0.14	120	BIDIR 2WCU CA
15		E218 Mbps	4	0.25	480	
16		E3134 Mbps	16	1	672	BIDIR 2WCU CA
17	X	DS3145 Mbps	28	1	672	UNDIR.FIBER
18	STS1	OC1150 Mbps	28	1	1344	UNDIR.FIBER
19		90 Mbps	2	1	1344	BIDIR.MW RADIO
20		90 Mbps	2	1	2016	UNDIR.FIBER
21		DS41135 Mbps	3	1	2016	BIDIR.MW RADIO
22		135 Mbps	3	1	2016	UNDIR.FIBER
23		DS4NA1139 Mbps	3	1	1920	UNDIR.FIBER
24		E41140 Mbps	3	1	4032	BIDIR.COAX
25		14M 139 Mbps	6	1	4032	BIDIR.COAX
26	X	PT40 139 Mbps	6	1	2016	UNDIR.FIBER
27		OC31155 Mbps	4	1	2688	UNDIR.FIBER
28		180 Mbps	9	1	6048	UNDIR.FIBER
29		417 Mbps	9	1	6048	UNDIR.FIBER
30		OC91466 Mbps	12	1	7680	UNDIR.FIBER
31		OC121560 Mbps	12	1	8064	UNDIR.FIBER
32		565 Mbps	24	1	16128	UNDIR.FIBER
33		1.2 Gbps	36	1	24192	UNDIR.FIBER
34		1.7 Gbps	24	1	24192	UNDIR.FIBER
35		OC2411.8 Gbps	24	1	34608	UNDIR.FIBER
36		2.5 Gbps	24	1		
0 1 2 3 4 5 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

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 28-Oct-96

TIME: 12:52

COMPANY: CINCINNATI BELL TEL.

CITY / AREA: CINCINNATI

STATE: OHIO

INVESTMENT YEAR: 1996

LOOP STUDY YEAR: 1996

SERVICE CLASS: BAND 2 - BUSINESS

WORKSHEET F

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

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ERROR MESSAG 0

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

LOOP COST ANALYSIS TOOL										Bellcore																																																																																																																																																																																																																																																																																																												
C:\123R24\LCATR029\SPAN PLANT CTR: - WORKSHEET: SA Sheet 1 / 1 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO										LCAT R01: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 12:52																																																																																																																																																																																																																																																																																																												
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<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th colspan="2">Sub Feeder Allocation Table</th> <th colspan="2">section alloc</th> <th colspan="2">COLOCATED RT AND CP, where</th> <th colspan="2">COLOCATED fdstopo = BUS</th> <th colspan="2">COLOCATED fdstopo = BUS</th> <th colspan="2">COLOCATED fdstopo = BUS</th> </tr> <tr> <th>cur lplgth</th> <th>dlcdepl</th> <th>distspa</th> <th>nom_range</th> <th>cur</th> <th>dlcdepl</th> <th>distspa</th> <th>nom_range</th> <th>cur</th> <th>dlcdepl</th> <th>distspa</th> <th>nom_range</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>500</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>500</td><td>0</td><td>500</td><td>0</td></tr> <tr><td>1000</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1000</td><td>0</td><td>1000</td><td>0</td></tr> <tr><td>2000</td><td>987</td><td>987</td><td>0</td><td>987</td><td>0</td><td>2000</td><td>0</td><td>2000</td><td>0</td><td>2000</td><td>0</td></tr> <tr><td>3000</td><td>1987</td><td>1987</td><td>0</td><td>1987</td><td>0</td><td>3000</td><td>0</td><td>3000</td><td>0</td><td>3000</td><td>0</td></tr> <tr><td>4000</td><td>2987</td><td>2987</td><td>0</td><td>2987</td><td>0</td><td>4000</td><td>0</td><td>4000</td><td>0</td><td>4000</td><td>0</td></tr> <tr><td>5000</td><td>3987</td><td>3987</td><td>0</td><td>3987</td><td>0</td><td>5000</td><td>0</td><td>5000</td><td>0</td><td>5000</td><td>0</td></tr> <tr><td>6000</td><td>4987</td><td>4987</td><td>0</td><td>4987</td><td>0</td><td>6000</td><td>0</td><td>6000</td><td>0</td><td>6000</td><td>0</td></tr> <tr><td>7000</td><td>5987</td><td>5987</td><td>0</td><td>5987</td><td>0</td><td>7000</td><td>0</td><td>7000</td><td>0</td><td>7000</td><td>0</td></tr> <tr><td>8000</td><td>6987</td><td>6987</td><td>0</td><td>6987</td><td>0</td><td>8000</td><td>0</td><td>8000</td><td>0</td><td>8000</td><td>0</td></tr> <tr><td>9000</td><td>7987</td><td>7987</td><td>0</td><td>7987</td><td>0</td><td>9000</td><td>0</td><td>9000</td><td>0</td><td>9000</td><td>0</td></tr> <tr><td>10000</td><td>8987</td><td>8987</td><td>0</td><td>8987</td><td>0</td><td>10000</td><td>0</td><td>10000</td><td>0</td><td>10000</td><td>0</td></tr> <tr><td>11000</td><td>9987</td><td>9987</td><td>0</td><td>9987</td><td>0</td><td>11000</td><td>0</td><td>11000</td><td>0</td><td>11000</td><td>0</td></tr> <tr><td>12000</td><td>10987</td><td>10987</td><td>0</td><td>10987</td><td>0</td><td>12000</td><td>0</td><td>12000</td><td>0</td><td>12000</td><td>0</td></tr> <tr><td>13000</td><td>11987</td><td>11987</td><td>0</td><td>11987</td><td>0</td><td>13000</td><td>0</td><td>13000</td><td>0</td><td>13000</td><td>0</td></tr> <tr><td>14000</td><td>12987</td><td>6493.5</td><td>6493.5</td><td>0</td><td>12987</td><td>7000</td><td>7000</td><td>0</td><td>14000</td><td>0</td><td>-7289</td></tr> <tr><td>15000</td><td>13987</td><td>6993.5</td><td>6993.5</td><td>0</td><td>13987</td><td>7500</td><td>7500</td><td>0</td><td>15000</td><td>0</td><td>-8289</td></tr> <tr><td>16000</td><td>14987</td><td>7493.5</td><td>7493.5</td><td>0</td><td>14987</td><td>8000</td><td>8000</td><td>0</td><td>16000</td><td>0</td><td>-9289</td></tr> <tr><td>17000</td><td>15987</td><td>7993.5</td><td>7993.5</td><td>0</td><td>15987</td><td>8500</td><td>8500</td><td>0</td><td>17000</td><td>0</td><td>-10289</td></tr> <tr><td>18000</td><td>16987</td><td>8493.5</td><td>8493.5</td><td>0</td><td>16987</td><td>9000</td><td>9000</td><td>0</td><td>18000</td><td>0</td><td>-11289</td></tr> <tr><td>19000</td><td>17987</td><td>8993.5</td><td>8993.5</td><td>0</td><td>17987</td><td>9500</td><td>9500</td><td>0</td><td>19000</td><td>0</td><td>-12289</td></tr> <tr><td>20000</td><td>18987</td><td>9493.5</td><td>9493.5</td><td>0</td><td>18987</td><td>10000</td><td>10000</td><td>0</td><td>20000</td><td>0</td><td>-13289</td></tr> <tr><td>80000</td><td>78987</td><td>12987</td><td>66000</td><td>1000</td><td>77987</td><td>12987</td><td>67013</td><td>1000</td><td>79000</td><td>0</td><td>-13289</td></tr> </tbody> </table>											Sub Feeder Allocation Table		section alloc		COLOCATED RT AND CP, where		COLOCATED fdstopo = BUS		COLOCATED fdstopo = BUS		COLOCATED fdstopo = BUS		cur lplgth	dlcdepl	distspa	nom_range	cur	dlcdepl	distspa	nom_range	cur	dlcdepl	distspa	nom_range	0	0	0	0	0	0	0	0	0	0	0	0	500	0	0	0	0	0	0	0	500	0	500	0	1000	0	0	0	0	0	0	0	1000	0	1000	0	2000	987	987	0	987	0	2000	0	2000	0	2000	0	3000	1987	1987	0	1987	0	3000	0	3000	0	3000	0	4000	2987	2987	0	2987	0	4000	0	4000	0	4000	0	5000	3987	3987	0	3987	0	5000	0	5000	0	5000	0	6000	4987	4987	0	4987	0	6000	0	6000	0	6000	0	7000	5987	5987	0	5987	0	7000	0	7000	0	7000	0	8000	6987	6987	0	6987	0	8000	0	8000	0	8000	0	9000	7987	7987	0	7987	0	9000	0	9000	0	9000	0	10000	8987	8987	0	8987	0	10000	0	10000	0	10000	0	11000	9987	9987	0	9987	0	11000	0	11000	0	11000	0	12000	10987	10987	0	10987	0	12000	0	12000	0	12000	0	13000	11987	11987	0	11987	0	13000	0	13000	0	13000	0	14000	12987	6493.5	6493.5	0	12987	7000	7000	0	14000	0	-7289	15000	13987	6993.5	6993.5	0	13987	7500	7500	0	15000	0	-8289	16000	14987	7493.5	7493.5	0	14987	8000	8000	0	16000	0	-9289	17000	15987	7993.5	7993.5	0	15987	8500	8500	0	17000	0	-10289	18000	16987	8493.5	8493.5	0	16987	9000	9000	0	18000	0	-11289	19000	17987	8993.5	8993.5	0	17987	9500	9500	0	19000	0	-12289	20000	18987	9493.5	9493.5	0	18987	10000	10000	0	20000	0	-13289	80000	78987	12987	66000	1000	77987	12987	67013	1000	79000	0	-13289
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13000	11987	11987	0	11987	0	13000	0	13000	0	13000	0																																																																																																																																																																																																																																																																																																											
14000	12987	6493.5	6493.5	0	12987	7000	7000	0	14000	0	-7289																																																																																																																																																																																																																																																																																																											
15000	13987	6993.5	6993.5	0	13987	7500	7500	0	15000	0	-8289																																																																																																																																																																																																																																																																																																											
16000	14987	7493.5	7493.5	0	14987	8000	8000	0	16000	0	-9289																																																																																																																																																																																																																																																																																																											
17000	15987	7993.5	7993.5	0	15987	8500	8500	0	17000	0	-10289																																																																																																																																																																																																																																																																																																											
18000	16987	8493.5	8493.5	0	16987	9000	9000	0	18000	0	-11289																																																																																																																																																																																																																																																																																																											
19000	17987	8993.5	8993.5	0	17987	9500	9500	0	19000	0	-12289																																																																																																																																																																																																																																																																																																											
20000	18987	9493.5	9493.5	0	18987	10000	10000	0	20000	0	-13289																																																																																																																																																																																																																																																																																																											
80000	78987	12987	66000	1000	77987	12987	67013	1000	79000	0	-13289																																																																																																																																																																																																																																																																																																											
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 ^{STOR} Equals CUR_LPLGTH - NOM_RANGE difference > DISTSPAN and < DLCDEPL, then CUR_SEGLGTH ^{STOR} Equals CUR_LPLGTH - NOM_RANGE difference >= DLCDEPL, then CUR_SEGLGTH ^{STOR} 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.																																																																																																																																																																																																																																																																																																																						

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 F1 Length	Average F2 Length	Average Loop
A	B	C
6,081	1,103	7,184
107		
14,881	2,346	17,226
53		
0.5744		
0.4256		
1.0000		

Business		
Average F1 Length	Average F2 Length	Average Loop
D	E	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

6,697	1,836	8,534
69		
19,582	2,699	22,282
70		
0.4964		
0.5036		
1.0000		

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

4,845	1,981	6,825
46		
23,301	4,826	28,127
56		
0.4510		
0.5490		
1.0000		

4,512	1,095	5,608
30		
27,360		
0.5275		
0.4725		
1.0000		

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A B C D E F G	LOOP COST ANALYSIS TOOL							Bellicore (R)	
	PROSPECTIVE INVESTMENT SUMMARY REPORT							LCAT Rel: 1.0.4	STUDY YR: 1996
1	C:\23R24\LCATR030\RESULTS1							Issued: 7/31/95	TEST CASE: 1
2	OUTPUT - REPORT D								RUN DATE: 28-Jan-97
3	SHEET 1 of 1								TIME: 08:53
4	COMPANY: CINCINNATI BELL TEL							CIRCUIT DESIGN: TOTAL TECHNOLOGIES	
5	CITY / AREA: CINCINNATI							LOOP SPAN DIVISION: ALL LOOP SPANS	
6	STATE / PROV: OHIO							SERVICE CLASS: BAND 2 - BUSINESS PBX	
7	JOB IDENT: CINCINNATI							TOTAL LOOP LENGTH: 23774 FEET	
8	Loop Span Set Weighting: 1							UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY	
9	PLANT NAME							WEIGHTED	
10	SEG. NAME							TOTAL	
11	EQPT							LOOP	
12	CODE								
13	ITEM DESCRIPTION								
14	SEG. LGTH.								
15	SHARED RESOURCES								
16	LAND	20C	\$ 0.03	\$ 0.00	\$ 0.01	\$ 0.00	\$ 0.00	\$ 0.0437	
17	BUILDING	10C	\$ 1.00	\$ 0.00	\$ 0.28	\$ 0.00	\$ 0.00	\$ 1.2810	
18	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
19	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
20	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
21	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
22	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
23	CC EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
24	CC EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
25	CC EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
26	CC EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
27	CC EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
28	CC EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
29	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
30	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
31	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
32	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
33	MISC. COM EQP & PWR	57C	\$ 0.44	\$ 0.00	\$ 0.29	\$ 0.00	\$ 0.00	\$ 0.7333	
34	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
35	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
36	DIRECT RESOURCES								
37	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
38	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
39	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513	
40	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
41	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.06	\$ 5.04	\$ 0.00	\$ 5.1000	
42	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 3.62	\$ 0.00	\$ 3.6300	
43	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.12	\$ 0.50	\$ 0.00	\$ 0.6200	
44	CC EQPT - LOW CAP TERM	257C	\$ 2.94	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.9436	
45	CC EQPT - LOW CAP CHAN	257C	\$ 7.98	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7.9833	
46	CC EQPT - HI CAP TERM	857C	\$ 0.73	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.7268	
47	CC EQPT - HI CAP CHAN	857C	\$ 1.23	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.2325	
48	CC EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
49	CC EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
50	AERIAL CABLE (FIBER)	822C	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0758	
51	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
52	UNDERGROUND (FO) CA.	85C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0700	
53	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
54	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
55	POLE LINE	1C	\$ 0.02	\$ 0.00	\$ 0.01	\$ 1.20	\$ 0.00	\$ 1.2290	
56	CONDUIT	4C	\$ 0.03	\$ 0.00	\$ 0.04	\$ 0.18	\$ 0.00	\$ 0.2544	
57	SPAN SUMMARY		\$ 14.56	\$ 0.00	\$ 0.82	\$ 10.54	\$ 2.45	\$ 28.37	
58								\$ 28.37	

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C:\123R24\LCATR030\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 ONLY) BUSINESS PBX 14001 FEET - INFINITY INTRASTATE

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		09:12
CST METH	UN INCR	INV LEVEL	ANNCOST	TIME

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

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GC:\123R24\LCATR030\RESULTS:
OUTPUT - WORKSHEET D
SHEET 1 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
RUN DATE: 28-Jan-97
TIME: 08:53COMPANY: 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 - BUSINESS PBX
TOTAL LOOP LENGTH: 23774 FEET

Circuit Design Mix: 1.0000		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								
20C	LAND	\$ 0.03		\$ 0.01		\$ 0.00	\$ 0.04	\$ 0.04
10C	BUILDING	\$ 0.85		\$ 0.28		\$ 0.00	\$ 1.13	\$ 1.13
12C	BLDG ENTRANCE CABLE	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
52C	INTRABLDG CABLE	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
22C	AERIAL CABLE (COPPER)	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
45C	BURIED CABLE (COPPER)	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
5C	UNDERGROUND (CU) CA.	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
257C	CO EQPT - LOW CAP TERM	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
257C	CO EQPT - LOW CAP CHAN	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
857C	CO EQPT - HI CAP TERM	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
857C	CO EQPT - HI CAP CHAN	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
77C	CO EQPT - ANALOG SW	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
377C	CO EQPT - DIGITAL SW	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
822C	AERIAL CABLE (FIBER)	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
845C	BURIED CABLE (FIBER)	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
85C	UNDERGROUND (FO) CA.	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
57C	CONNECTORS	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
57C	MISC. COM EQP & PWR	\$ 0.36		\$ 0.29		\$ 0.00	\$ 0.65	\$ 0.65
1C	POLE LINE	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
4C	CONDUIT	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
DIRECT RESOURCES								
20C	LAND	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
10C	BUILDING	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
12C	BLDG ENTRANCE CABLE	\$ 0.00		\$ 0.00		\$ 0.00	\$ 2.45	\$ 2.45
52C	INTRABLDG CABLE	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
22C	AERIAL CABLE (COPPER)	\$ 1.04		\$ 0.06		\$ 5.04	\$ 6.14	\$ 6.14
45C	BURIED CABLE (COPPER)	\$ 0.11		\$ 0.01		\$ 3.62	\$ 3.74	\$ 3.74
5C	UNDERGROUND (CU) CA.	\$ 2.29		\$ 0.12		\$ 0.50	\$ 2.91	\$ 2.91
257C	CO EQPT - LOW CAP TERM	\$ 3.66		\$ 0.00		\$ 0.00	\$ 3.66	\$ 3.66
257C	CO EQPT - LOW CAP CHAN	\$ 7.98		\$ 0.00		\$ 0.00	\$ 7.98	\$ 7.98
857C	CO EQPT - HI CAP TERM	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
857C	CO EQPT - HI CAP CHAN	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
77C	CO EQPT - ANALOG SW	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
377C	CO EQPT - DIGITAL SW	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
822C	AERIAL CABLE (FIBER)	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
845C	BURIED CABLE (FIBER)	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
85C	UNDERGROUND (FO) CA.	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
57C	CONNECTORS	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
57C	MISC. COM EQP & PWR	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
1C	POLE LINE	\$ 0.25		\$ 0.01		\$ 1.20	\$ 1.46	\$ 1.46
4C	CONDUIT	\$ 0.74		\$ 0.04		\$ 0.18	\$ 0.96	\$ 0.96
SPAN SUMMARY		\$ 17.30	\$ 0.00	\$ 0.82		\$ 10.54	\$ 31.11	\$ 31.11
CIRCUIT DESIGN SUMMARY								

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C:\123R24\LCATR030\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore	
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 - BUSINESS PBX		DATE: 28-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 23774 FEET		TIME: 08:53			
Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	WEIGHTED
SEG. NAME		PRIMARY		EXTENSION		LOOP	TOTAL
EQPT		SUB-		INTERFACE			LOOP
CODE							
PLANT							
ITEM DESCRIPTION							
SHARED RESOURCES							
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
DIRECT RESOURCES							
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							
CIRCUIT DESIGN SUMMARY							

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CN123R24\LCATR030\RESULTS1
OUTPUT - WORKSHEET D
SHEET 3 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: 1
RUN DATE: 28-Jan-97
TIME: 08:53

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 - BUSINESS PBX
TOTAL LOOP LENGTH: 23774 FEET

Technology Type Mix : 0.0000		UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TOTAL	
PLANT NAME		FEEDER			DISTRIBUTION NETWORK		TOTAL	TOTAL
SEG. NAME		PRIMARY	EXTENSION	SUB--	INTERFACE		LOOP	LOOP
PLANT	EQPT							
DESCRIPTION	CODE							
RESOURCES								
	20C	\$ 0.03	\$ 0.00	\$ 0.01	\$ 0.00	\$ 0.00	\$ 0.04	\$ 0.0000
	10C	\$ 0.85	\$ 0.00	\$ 0.28	\$ 0.00	\$ 0.00	\$ 1.13	\$ 0.0000
FRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
OG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
ABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
ABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
OUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
- LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
- LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
- HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
- HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
- ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
- DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
ABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
ABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
OUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
TORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
M EQP & PWR	57C	\$ 0.36	\$ 0.00	\$ 0.29	\$ 0.00	\$ 0.00	\$ 0.65	\$ 0.0000
E	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
RESOURCES								
	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
FRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 0.0000
OG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
ABLE (COPPER)	22C	\$ 1.04	\$ 0.00	\$ 0.06	\$ 5.04	\$ 0.00	\$ 6.14	\$ 0.0000
ABLE (COPPER)	45C	\$ 0.11	\$ 0.00	\$ 0.01	\$ 3.62	\$ 0.00	\$ 3.74	\$ 0.0000
OUND (CU) CA.	5C	\$ 2.29	\$ 0.00	\$ 0.12	\$ 0.50	\$ 0.00	\$ 2.91	\$ 0.0000
- P GAIN TERM	257C	\$ 3.66	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.66	\$ 0.0000
- P GAIN CHAN	257C	\$ 7.98	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7.98	\$ 0.0000
- FO MUX TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
- FO MUX CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
- ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
- DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
ABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
ABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
OUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
TORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
M EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
E	1C	\$ 0.25	\$ 0.00	\$ 0.01	\$ 1.20	\$ 0.00	\$ 1.46	\$ 0.0000
	4C	\$ 0.74	\$ 0.00	\$ 0.04	\$ 0.18	\$ 0.00	\$ 0.96	\$ 0.0000
SPAN SUMMARY		\$ 17.30	\$ 0.00	\$ 0.82	\$ 10.65	\$ 2.45	\$ 3.11	\$ 0.00
OLOGY DESIGN SUMMARY								

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A B C D E F G		LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				Bellcore	
C:\123R24\LCAT\030\RESULTS1 OUTPUT - WORKSHEET D SHEET 4 of 10		COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 1 FOMUX		LCAT Rel: 1.0.4 Issued: 7/31/95	
CITY / AREA: CINCINNATI		STATE / PROV: OHIO		LOOP SPAN DIVISION: ALL LOOP SPANS		STUDY YR: 1996	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 23774 FEET		SERVICE CLASS: BAND 2 - BUSINESS PBX		TEST CASE: 1	
						RUN DATE: 28-Jan-97	
						TIME: 08:53	
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	
SEG. NAME		PRIMARY		EXTENSION		SUB-	
EQPT		INTERFACE		TOTAL		WEIGHTED	
PLANT		CODE		LOOP		TOTAL	
ITEM DESCRIPTION							
<u>SHARED RESOURCES</u>							
LAND		20C				\$0	
BUILDING		10C				\$0	
BLDG ENTRANCE CABLE		12C				\$0	
INTRABLDG CABLE		52C				\$0	
AERIAL CABLE (COPPER)		22C				\$0	
BURIED CABLE (COPPER)		45C				\$0	
UNDERGROUND (CU) CA.		5C				\$0	
CO EQPT - LOW CAP TERM		257C				\$0	
CO EQPT - LOW CAP CHAN		257C				\$0	
CO EQPT - HI CAP TERM		857C				\$0	
CO EQPT - HI CAP CHAN		857C				\$0	
CO EQPT - ANALOG SW		77C				\$0	
CO EQPT - DIGITAL SW		377C				\$0	
AERIAL CABLE (FIBER)		822C				\$0	
BURIED CABLE (FIBER)		845C				\$0	
UNDERGROUND (FO) CA.		85C				\$0	
CONNECTORS		57C				\$0	
MISC. COM EQP & PWR		57C				\$0	
POLE LINE		1C				\$0	
CONDUIT		4C				\$0	
<u>DIRECT RESOURCES</u>							
LAND		20C				\$0	
BUILDING		10C				\$0	
BLDG ENTRANCE CABLE		12C				\$0	
INTRABLDG CABLE		52C				\$0	
AERIAL CABLE (COPPER)		22C				\$0	
BURIED CABLE (COPPER)		45C				\$0	
UNDERGROUND (CU) CA.		5C				\$0	
CO EQPT - LOW CAP TERM		257C				\$0	
CO EQPT - LOW CAP CHAN		257C				\$0	
CO EQPT - HI CAP TERM		857C				\$0	
CO EQPT - HI CAP CHAN		857C				\$0	
CO EQPT - ANALOG SW		77C				\$0	
CO EQPT - DIGITAL SW		377C				\$0	
AERIAL CABLE (FIBER)		822C				\$0	
BURIED CABLE (FIBER)		845C				\$0	
UNDERGROUND (FO) CA.		85C				\$0	
CONNECTORS		57C				\$0	
MISC. COM EQP & PWR		57C				\$0	
POLE LINE		1C				\$0	
CONDUIT		4C				\$0	
SPAN SUMMARY		\$0		\$0		\$0	

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A
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GC:\123R24\LCATR030\RESULTS1
OUTPUT - WORKSHEET D
SHEET 5 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
RUN DATE: 28-Jan-97
TIME: 08:53COMPANY: 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 - BUSINESS PBX
TOTAL LOOP LENGTH: 23774 FEET

Circuit Design Mix: 0.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

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

PLANT

ITEM DESCRIPTION

SHARED RESOURCES

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

DIRECT RESOURCES

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

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A B C D E F G	LOOP COST ANALYSIS TOOL										Belcore	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
	C:\123R24\LCATR030\RESULTS1										Issued: 7/31/95	
	OUTPUT - WORKSHEET D										STUDY YR: 1996	
	SHEET 6 of 10										TEST CASE: 1	
	COMPANY: CINCINNATI BELL TEL										RUN DATE: 28-Jan-97	
	CITY / AREA: CINCINNATI										TIME: 08:53	
	STATE / PROV: OHIO											
	JOB IDENT: CINCINNATI											
	CIRCUIT DESIGN: 3 FOMUX											
	LOOP SPAN DIVISION: ALL LOOP SPANS											
	SERVICE CLASS: BAND 2 - BUSINESS PBX											
	TOTAL LOOP LENGTH: 23774 FEET											
0	Circuit Design Mix: 153001											
1	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
2	PLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK											
3	SEG. NAME PRIMARY EXTENSION SUB- INTERFACE											
4	EQPT											
5	PLANT CODE											
6	ITEM DESCRIPTION											
7	<u>SHARED RESOURCES</u>											
8	LAND	20C	\$ 0.03		\$ 0.01	\$ 0.00		\$ 0.04	\$ 0.04			
9	BUILDING	10C	\$ 1.00		\$ 0.28	\$ 0.00		\$ 1.28	\$ 1.28			
10	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
11	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
12	AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
13	BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
14	UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
15	CO EQPT - LOW CAP TERM	257C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
16	CO EQPT - LOW CAP CHAN	257C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
17	CO EQPT - HI CAP TERM	557C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
18	CO EQPT - HI CAP CHAN	557C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
19	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
20	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
21	AERIAL CABLE (FIBER)	822C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
22	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
23	UNDERGROUND (FO) CA.	85C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
24	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
25	MISC. COM EQP & PWR	57C	\$ 0.44		\$ 0.29	\$ 0.00		\$ 0.73	\$ 0.73			
26	POLE LINE	1C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
27	CONDUIT	4C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
28												
29	<u>DIRECT RESOURCES</u>											
30	LAND	20C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
31	BUILDING	10C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
32	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.45			
33	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
34	AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 0.06	\$ 5.04		\$ 5.10	\$ 5.10			
35	BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.01	\$ 3.62		\$ 3.63	\$ 3.63			
36	UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.12	\$ 0.50		\$ 0.62	\$ 0.62			
37	CO EQPT - LOW CAP TERM	257C	\$ 2.94		\$ 0.00	\$ 0.00		\$ 2.94	\$ 2.94			
38	CO EQPT - LOW CAP CHAN	257C	\$ 7.98		\$ 0.00	\$ 0.00		\$ 7.98	\$ 7.98			
39	CO EQPT - HI CAP TERM	557C	\$ 0.73		\$ 0.00	\$ 0.00		\$ 0.73	\$ 0.73			
40	CO EQPT - HI CAP CHAN	557C	\$ 1.23		\$ 0.00	\$ 0.00		\$ 1.23	\$ 1.23			
41	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
42	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
43	AERIAL CABLE (FIBER)	822C	\$ 0.08		\$ 0.00	\$ 0.00		\$ 0.08	\$ 0.08			
44	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
45	UNDERGROUND (FO) CA.	85C	\$ 0.07		\$ 0.00	\$ 0.00		\$ 0.07	\$ 0.07			
46	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
47	MISC. COM EQP & PWR	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00	\$ 0.00			
48	POLE LINE	1C	\$ 0.02		\$ 0.01	\$ 1.20		\$ 1.23	\$ 1.23			
49	CONDUIT	4C	\$ 0.03		\$ 0.04	\$ 0.18		\$ 0.25	\$ 0.25			
50												
51	SPAN SUMMARY		\$ 14.56	\$ 0.00	\$ 0.82	\$ 10.54	\$ 2.45	\$ 28.37	\$ 28.37			
52												
53												
54												
55												

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RATES PLAN

A B C D E F G		CH123R24\LCATR030\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	
		COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 5 FOMUX		STUDY YR: 1998			
		CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
		STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS PBX		RUN DATE: 28-Jan-97			
		JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 23774 FEET		TIME: 08:53			
0		Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY				WEIGHTED	
1		PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL	
2		SEG. NAME		PRIMARY		EXTENSION		SUB-	
3		EQPT		INTERFACE		TOTAL		WEIGHTED	
4		CODE		LOOP		LOOP		LOOP	
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	
52									
53									
54									
55									

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RATES PLAN

A
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GC:\123R24\LCATR030\RESULTS1
OUTPUT - WORKSHEET D
SHEET 10 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARYBellcore^(R)

LCAT Ref: 1.0.4

Issued: 7/31/95

STUDY YR: 1996

TEST CASE: 1

RUN DATE: 28-Jan-97

TIME: 08:53

COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELED FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - BUSINESS PBX
TOTAL LOOP LENGTH: 23774 FEET

Technology Type Mix: 1.0000

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

TECHNOLOGY

Technology Type Mix: 1.0000		UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						TECHNOLOGY WEIGHTED TOTAL	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL LOOP		TOTAL LOOP	
SEG. NAME		PRIMARY	EXTENSION	SUB-	INTERFACE				
EQPT									
CODE									
PLANT									
ITEM DESCRIPTION									
7 SHARED RESOURCES									
8 LAND	20C	\$ 0.03	\$ 0.00	\$ 0.01	\$ 0.00	\$ 0.00	\$ 0.04	\$ 0.0437	
9 BUILDING	10C	\$ 1.00	\$ 0.00	\$ 0.28	\$ 0.00	\$ 0.00	\$ 1.28	\$ 1.2810	
10 BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
12 AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
14 UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
16 CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
18 CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
20 CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
22 BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
24 CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
25 MISC. COM EQP & PWR	57C	\$ 0.44	\$ 0.00	\$ 0.29	\$ 0.00	\$ 0.00	\$ 0.73	\$ 0.7333	
26 POLE LINE	1C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
28									
29 DIRECT RESOURCES									
30 LAND	20C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
32 BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45	\$ 2.4513	
33 INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
34 AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.06	\$ 5.04	\$ 0.00	\$ 5.10	\$ 5.1000	
35 BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 3.62	\$ 0.00	\$ 3.63	\$ 3.6300	
36 UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.12	\$ 0.50	\$ 0.00	\$ 0.62	\$ 0.6200	
37 CO EQPT - LOW CAP TERM	257C	\$ 2.94	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.94	\$ 2.9436	
38 CO EQPT - LOW CAP GHAN	257C	\$ 7.98	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 7.98	\$ 7.9833	
39 CO EQPT - HI CAP TERM	857C	\$ 0.73	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.73	\$ 0.7268	
40 CO EQPT - HI CAP CHAN	857C	\$ 1.23	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.23	\$ 1.2325	
41 CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
43 AERIAL CABLE (FIBER)	822C	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.08	\$ 0.0758	
44 BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
45 UNDERGROUND (FO) CA.	85C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.07	\$ 0.0700	
46 CONNECTORS	57C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
48 POLE LINE	1C	\$ 0.02	\$ 0.00	\$ 0.01	\$ 1.20	\$ 0.00	\$ 1.23	\$ 1.2290	
49 CONDUIT	4C	\$ 0.03	\$ 0.00	\$ 0.04	\$ 0.18	\$ 0.00	\$ 0.25	\$ 0.2544	
50									
51 SPAN SUMMARY		\$ 14.56	\$ 0.00	\$ 0.82	\$ 2.45	\$ 2.45	\$ 28.37	\$ 28.37	
52									
53									
54									
55									

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JA123R24\LCATCALC\DIST

Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

28-Jan-97

Issued: 8/31/95

08:32

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS PBX 14001 FEET - INFINITY

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	ANY COST

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GA123R24\LCATCALC.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-5.0-NON-COLLOC.)

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

SERVICE CLASS: BAND 2 - BUSINESS PBX

LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
EST CASE: 1
RUN DATE: 28-Jan-97
TIME: 08:48

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM - TABLE 2 -	FROM - TABLE 4 -	CABLE INVESTMENT PER PAIR FOOT	CABLE INVESTMENT PER PAIR	CABLE COMPONENTS			(NOTE 4) WEIGHTED TERMINAL INVESTMENT	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
		RELATIVE MIX OF TYPE OF CA. PLANT	LENGTH SUBSET BY TYPE OF PLANT			INVESTMENT	INVESTMENT	AIR DRYER INVESTMENT PER PAIR		
[A]		[B]	[C=A*B]	[D]	[E=C*D]		[F=E*fctr]	[F=E*fctr]		
1989.0	AERIAL	0.620000	1233.2	0.042600	52.53		0.00	0.00		
CONSIDERS:	BURIED	0.330000	656.4	0.066800	43.85		0.00	0.00		
MELDED										
COPPER	UNDERGRND	0.050000	99.5	0.058000	5.77		0.00	0.00		
CABLE										
Check =		1.000000	1989.0							
OUTSIDE PLANT LOADINGS		(NOTE 4)								
DROP WIRE ADJUSTMENT:		AIR DRYER LOADINGS:								
AERIAL CA. =	0.0000	AERIAL CA. =		0.0000						
BURIED CA. =	0.0000	BURIED CA. =		0.0000						
UNDERGRND =	0.0000	UNDERGRND =		0.0000						
OTHER INVESTMENT										
POLE LINE FACTOR (PLF) =		inv / unit lgth:		inv rtrn fctr:						
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =		0.0000		0.2530						
UG CONDUIT FACTOR (UCF) =		0.0000		0.5168						
CONDUIT INVESTMENT (UTIL UNDGRND INVST x UCF) =		\$ 37.97		\$ 8.51						
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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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\$14.48
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\$0.00
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\$126.61
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CM123R24\LCATCALC\DIST

DIST_PLNT - WORKSHEET B

Sheet 1 of 3

LOOP COST ANALYSIS TOOL

BASIC INVESTMENT WORKSHEET

Bellcore[®]

LCAT

Release: 1.0.4

1996

STUDY YR:

TEST CASE:

RUN DATE:

28-Jan-97

TIME:

06:48

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - BUSINESS PBX

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PROB. OF OCCURRENCE [B]	WEIGHTED TERMINAL INVESTMENT [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

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CA123R24\LCATCALC\DIST DIST_PLNT - WORKSHEET B Sheet 3 of 3			LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET					Bellcore [®] LCAT Release: 1.0.4 STUDY YR: 1996 TEST CASE: 1 RUN DATE: 28-Jan-97 TIME: 06:46	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO			FACILITY TYPE: COPPER CABLE CIRCUIT SEGMENT: SERVICE ACCESS SERVICE CLASS: BAND 2 - BUSINESS PSX						
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			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
INTRA BLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				
TOTALS			\$ 0	\$ 75		\$ 0.00	\$ 29.42	\$ 0.00	\$ 2.45
				\$ 75			\$ 29.42		\$ 2.45

bctshrinv bctdrinv
 =====
 bctinvsv bctmrc

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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C:\123R24\LCAT\CALC\DIST
 DIST_PLNT - WORKSHEET B
 Sheet 1 of 3

LOOP COST ANALYSIS TOOL
 BASIC INVESTMENT WORKSHEET

Belcore[®]
 LCAT
 Release: 1.0.4
 STUDY YR: 1996
 TEST CASE: 1
 RUN DATE: 28-Jan-97
 TIME: 08:49

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

FACILITY TYPE: COPPER CABLE
 CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - BUSINESS PBX

TYPE OF PLANT ITEM	UNIT PLANT INVEST. [A]	PROB. OF OCCURANCE [B]	WEIGHTED TERMINAL INVESTMENT [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

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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LOOP COST ANALYSIS TOOL										Belcore (R)	
ACCOUNT INVESTMENT WORKSHEET										LCAT	
DIST PLANT - WORKSHEET B										Release: 1.0.4	
Sheet 2 of 3										STUDY YR: 1996	
COMPANY: CINCINNATI BELL TEL.										TEST CASE: 1	
CITY / AREA: CINCINNATI										RUN DATE: 28-Jan-97	
STATE / PROV: OHIO										TIME: 08:49	
FACILITY TYPE: COPPER CABLE											
CIRCUIT SEGMENT: SERVICE ACCESS											
SERVICE CLASS: BAND 2 - BUSINESS PBX											
PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	1996 UNIT INVESTMENT 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				1.0000				
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				
										\$ 0	\$ 75
										bctmiv	
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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C:\123R24\LCAT\CALC\DIST
DIST_PLNT - WORKSHEET B
Sheet 3 of 3

LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET

Belcore[®]

LCAT

Release: 1.0.4

STUDY YR: 1996
TEST CASE: 1
RUN DATE: 25-Jan-97
TIME: 06:49

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERV OF ACCESS

SERVICE CLASS: BAND 2 - BUSINESS PBX

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			0.2322				
BUILDING	10C	1.0000			0.2937				
BLDG ENTRANCE CABLE	12C	1.0000		\$ 75	0.3922		\$ 29.42		\$ 2.45
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3467				
UNDERGROUND (CU) CA.	5C	1.0000			0.3663				
CO EQPT - P GAIN TERM	257C	1.0000			0.3881				
CO EQPT - P GAIN CHAN	257C	1.0000			0.3881				
CO EQPT - FO MUX TERM	857C	1.0000			0.3881				
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2953				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2659				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000			0.3881				
POLE LINE	1C	1.0000			0.3807				
CONDUIT	4C	1.0000			0.2521				

TOTALS

\$ 0 \$ 75
\$ 75
bctinvsy

\$ 0.00 \$ 29.42 \$ 0.00 \$ 2.45
\$ 29.42
bctana bctmrc

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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.

C:\123R24\LCAT\CALC\DIST				LOOP COST ANALYSIS TOOL				Bellcore®	
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: 1998	
STATE / PROV: OHIO				CIRCUIT SEGMENT: C.DISTRIBUTION PLANT: NON-BLC:NON-COLLOC				TEST CASE: 1	
				SERVICE CLASS: BAND 2 - BUSINESS PBX				RUN DATE: 28-Jan-97	
				TIME: 08:49					
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(See Note)		TOTAL			
1989.0				AVG. WEIGHTED		INVESTMENT			
1989									
SHARED RESOURCES									
1	LAND	20C							\$ 0.00
2	BUILDING	10C							\$ 0.00
3	BLDG ENTRANCE CABLE	12C							\$ 0.00
4	INTRABLDG CABLE	52C							\$ 0.00
5	AERIAL CABLE (COPPER)	22C							\$ 0.00
6	BURIED CABLE (COPPER)	45C							\$ 0.00
7	UNDERGROUND (CU) CA.	5C							\$ 0.00
8	CO EQPT - P GAIN TERM	257C							\$ 0.00
9	CO EQPT - P GAIN CHAN	257C							\$ 0.00
10	CO EQPT - FO MUX TERM	857C							\$ 0.00
11	CO EQPT - FO MUX CHAN	857C							\$ 0.00
12	CO EQPT - ANALOG SW	77C							\$ 0.00
13	CO EQPT - DIGITAL SW	377C							\$ 0.00
14	AERIAL CABLE (FIBER)	822C							\$ 0.00
15	BURIED CABLE (FIBER)	845C							\$ 0.00
16	UNDERGROUND (FO) CA.	85C							\$ 0.00
17	CONNECTORS	57C							\$ 0.00
18	MISC. COM EQP & PWR	57C							\$ 0.00
19	POLE LINE	1C							\$ 0.00
20	CONDUIT	4C							\$ 0.00
DIRECT RESOURCES									
21	LAND	20C							\$ 0.00
22	BUILDING	10C							\$ 0.00
23	BLDG ENTRANCE CABLE	12C							\$ 0.00
24	INTRABLDG CABLE	52C							\$ 0.00
25	AERIAL CABLE (COPPER)	22C	\$ 5.04						\$ 5.04
26	BURIED CABLE (COPPER)	45C	\$ 3.62						\$ 3.62
27	UNDERGROUND (CU) CA.	5C	\$ 0.50						\$ 0.50
28	CO EQPT - P GAIN TERM	257C							\$ 0.00
29	CO EQPT - P GAIN CHAN	257C							\$ 0.00
30	CO EQPT - FO MUX TERM	857C							\$ 0.00
31	CO EQPT - FO MUX CHAN	857C							\$ 0.00
32	CO EQPT - ANALOG SW	77C							\$ 0.00
33	CO EQPT - DIGITAL SW	377C							\$ 0.00
34	AERIAL CABLE (FIBER)	822C							\$ 0.00
35	BURIED CABLE (FIBER)	845C							\$ 0.00
36	UNDERGROUND (FO) CA.	85C							\$ 0.00
37	CONNECTORS	57C							\$ 0.00
38	MISC. COM EQP & PWR	57C							\$ 0.00
39	POLE LINE	1C	\$ 1.20						\$ 1.20
40	CONDUIT	4C	\$ 0.18						\$ 0.18
SPAN SUMMARY				\$ 10.54	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 10.54
AVG. WTD. SPAN SUMMARY				\$ 10.54	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 10.54
NOTE: [sum(INV ACCT BAND * MIX BAND)]									

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CA123R24.LCATCALC.DIST		LOOP COST ANALYSIS TOOL		Bellcore [®]	
DIST PLANT - REPORT 14B		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY		LCAT	
Sheet 1 of 1		CIRCUIT SEGMENT : SERVICE ACCESS		Release : 1.0.4	
COMPANY: CINCINNATI BELL TEL.		SERVICE CLASS: BAND 2 - BUSINESS PBX		STUDY YR: 1996	
CITY / AREA: CINCINNATI				TEST CASE: 1	
STATE / PROV: OHIO				RUN DATE: 28-Jan-97	
				TIME: 08:49	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					
0			ALL		
1					
2					
3					
4	PLANT ITEM	PLANT ACCT CODE	BAND MIX AVG. LGTH.		
5					
6	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			
27					
28	DIRECT RESOURCES				
29	LAND	20C			
30	BUILDING	10C			
31	BLDG ENTRANCE CABLE	12C	2.45		
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			
49					
50	SPAN TOTAL				
51					
52					
53					
54					
55					

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RUN - SUB PRI

LAST UPDATE

28-Jan-97

08:33

LOOP COST ANALYSIS TOOL

Bellcore^(TM)

LCAT

Release: 1.0.4

Issued: 7/31/95

FEEDER SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS PBX 14001 FEET - INFINITY IN

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

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

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LOOP COST ANALYSIS TOOL										Bellcore (R)	
BASIC 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: MELDED GAUGE 5/5 JB - PRIMARY										TEST CASE: 1	
SERVICE CLASS: BAND 2 - BUSINESS PBX										RUN DATE: 28-Jan-97	
										TIME: 08:49	
SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 -- RELATIVE MIX OF TYPE OF CA. PLANT [B]	LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 -- MLD CABLE DESIGN INVEST. PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	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]		
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									
23 ADDITIONAL CALCULATIONS FOR CENTRAL OFFICE INVESTMENTS 24 INVESTMENT PER CIRCUIT TERMINATION 25 (CO CONN) CONNECTORS (col77c) = \$ 0.00 26 inv / unit lgth: inv rth fctr: 27 POLE LINE FACTOR = 0.000000 0.253000 28 POLE LINE INVESTMENT = \$ 0.44 29 (UTIL AERIAL INVEST x PL) 30 31 UG CONDUIT FACTOR = 0.000000 0.516500 32 CONDUIT INVESTMENT = \$ 1.96 33 (UTIL UNDGRND INVEST x UG) 34 35 36 37 38 39 40 41 42 43 44 45 46 47 FOOTNOTES 48 NOTE 1: APPARENT INCONSISTANCIES MAY BE CAUSED BY COMPUTER ROUNDING. 49 NOTE 2: E * fctr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISCA or MISCB) 50 NOTE 3: UI * DTC = UNIT INVESTMENT x PROBABILITY OF OCCURANCE. 51 NOTE 4: MATRIX 2 & 4 DEVELOPMENT SHOWN ON WORKSHEET C (#5,#6). 52 53 54 55											

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SUB_PRI - WORKSHEET
Sheet 2 of 3

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: [MELODED GAUGE/S/ SUB - FF VARY]
SERVICE CLASS: BAND 2 - BUSINESS PBX

Belcore (R)
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 28-Jan-97
TIME: 08:49

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]
LAND	20C	F	SHARED	0.49	1	\$ 0		1.0000	\$ 0	
BUILDING	10C	F	SHARED	11.58	1	\$ 12		1.0000	\$ 12	
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	8.91	1	\$ 9		1.0000	\$ 9	
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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SUB_PR1 - WORKSHEET
Sheet 1 of 3

COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: C-H-O

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 2 - BUSINESS PBX

Bellcore®
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 26-Jan-97
TIME: 08:49

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		0.2322	\$ 0.11		\$ 0.01	
BUILDING	10C	1.0000	\$ 12		0.2937	\$ 3.40		\$ 0.28	
BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 2	0.4033		\$ 0.70		\$ 0.06
BURIED CABLE (COPPER)	45C	1.0000		\$ 0	0.3467		\$ 0.07		\$ 0.01
UNDERGROUND (CU) CA.	5C	1.0000		\$ 4	0.3663		\$ 1.39		\$ 0.12
CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
CO EQPT - ANALOG SW	77C	1.0000			0.0000				
CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
BURIED CABLE (FIBER)	845C	1.0000			0.2724				
UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
CONNECTORS	57C	1.0000			0.3881				
MISC. COM EQP & PWR	57C	1.0000	\$ 9		0.3881	\$ 3.46		\$ 0.29	
POLE LINE	1C	1.0000		\$ 0	0.3807		\$ 0.17		\$ 0.01
CONDUIT	4C	1.0000		\$ 2	0.2521		\$ 0.49		\$ 0.04
SUBTOTALS			\$ 21	\$ 8		\$ 6.97	\$ 2.82	\$ 0.57	\$ 0.24
TOTALS				\$ 29		\$ 6.97	\$ 2.82	\$ 0.57	\$ 0.24

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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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C:\123R24\LCAT\CALC\CUTECH		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		SERVICE CLASS: BAND 2 - BUSINESS PBX				STUDY YR: 1996	
STATE / PROV: OHIO						TEST CASE: 1	
						RUN DATE: 28-Jan-97	
						TIME: 08:49	
logic-14a		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)	
						TOTAL	
						AVG. WEIGHTED	
BAND		0					
PLANT MIX		1.0000					
ACCT		23774					
CODE LGTH		300					
SEGLGTH						300	
SHARED RESOURCES							
7	LAND	20C		\$ 0.01			\$ 0.01
8	BUILDING	10C		\$ 0.28			\$ 0.28
9	BLDG ENTRANCE CABLE	12C					\$ 0.00
10	INTRABLDG CABLE	52C					\$ 0.00
	AERIAL CABLE (COPPER)	22C					\$ 0.00
	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		\$ 0.29			\$ 0.29
25	POLE LINE	1C					\$ 0.00
26	CONDUIT	4C					\$ 0.00
DIRECT RESOURCES							
27	LAND	20C					\$ 0.00
28	BUILDING	10C					\$ 0.00
29	BLDG ENTRANCE CABLE	12C					\$ 0.00
30	INTRABLDG CABLE	52C					\$ 0.00
31	AERIAL CABLE (COPPER)	22C		\$ 0.06			\$ 0.06
32	BURIED CABLE (COPPER)	45C		\$ 0.01			\$ 0.01
33	UNDERGROUND (CU) CA.	5C		\$ 0.12			\$ 0.12
34	CO EQPT - P GAIN TERM	257C					\$ 0.00
35	CO EQPT - P GAIN CHAN	257C					\$ 0.00
36	CO EQPT - FO MUX TERM	857C					\$ 0.00
37	CO EQPT - FO MUX CHAN	857C					\$ 0.00
38	CO EQPT - ANALOG SW	77C					\$ 0.00
39	CO EQPT - DIGITAL SW	377C					\$ 0.00
40	AERIAL CABLE (FIBER)	822C					\$ 0.00
41	BURIED CABLE (FIBER)	845C					\$ 0.00
42	UNDERGROUND (FO) CA.	85C					\$ 0.00
43	CONNECTORS	57C					\$ 0.00
44	MISC. COM EQP & PWR	57C					\$ 0.00
45	POLE LINE	1C	0.0	\$ 0.01			\$ 0.01
46	CONDUIT	4C	0.0	\$ 0.04			\$ 0.04
47	SPAN SUMMARY			\$ 0.82	\$ 0.00	\$ 0.00	\$ 0.82
48	AVG. WTD. SPAN SUMMARY			\$ 0.82	\$ 0.00	\$ 0.00	\$ 0.82
49	NOTE: (sum((INV _{ACCT} ^{BAND} * MIX ^{BAND}))						

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RUN - CDLC PLANT

LAST UPDATE

28-Jan-97

08:34

LOOP COST ANALYSIS TOOL

BelcoreTM

LCAT

Release: 1.0.4

Issued: 8/31/95

FEEDER SEGMENT COST MODEL - COPPER DLC TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS PBX 14001 FEET - INFINITY INTRASTATE

CURRENT TEST PLAN : CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1
FR / DS	FLAT RATE	#BANDS	0
SVC LEVEL	NARBAND	#OK'S	0
CST METH	UN INCR	INV LEVEL	ANN COST

NO. 100-100000-1
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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 CXR										TEST CASE: 1	
CIRCUIT DESIGN: T1C										DATE: 26-Jan-97	
SERVICE CLASS: BAND 2 - BUSINESS PRX										TIME: 08:50 AM	
COMPANY: CINCINNATI BELL TEL CITY / AREA: OHIO STATE / PROV: CINCINNATI											
23774 cur lgth 300 cursldr-igh f = 0.125 pgtfactor											
SEGMENT LENGTH IN FEET		CABLE TYPE	RELATIVE MIX OF TYPE OF PLANT	EFFECTIVE LENGTH BY TYPE OF PLANT	MELDED INVEST. PER UNIT FOOT	CABLE INVESTMENT PER CHAN	WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAR	DROP WIRE ADJUSTMENT PER PAR	WEIGHTED DROP WIRE INVESTMENT PER PAR	
[A]			[B]	[C=A*B*f]	[D]	[E=C*D]	[U1*DTC]	[E*factr]	[E*factr]	[U1*DTC]	
21485	AERIAL	0.290000	778.83	0.023800	\$ 18.54		\$ 0.00				
CO TO RT LINK											
ON	BURIED	0.020000	53.71	0.041000	\$ 2.20		\$ 0.00				
COPPER CABLE DLC											
24.00 GA. FACILITIES	UNDERGRND	0.690000	1853.08	0.022000	\$ 40.77		\$ 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) =	intdlert	\$ 51.57	\$ 85.28								
UNIV DLC EQUIP INVEST. (CU COMUX) =	unvdlcco	\$ 12.14	\$ 87.51								
UNIV DLC EQUIP INVEST. (CU RTMUX) =	unvdlert	\$ 51.57	\$ 85.28								
DLC EQUIP INVEST. (CU LINE) =	dlcco		\$ 0.00								
EQUIPMENT INVESTMENT LOADINGS											
INVEST. PER CHAN. FOR DLC TERM (co conn) =										\$ 0.00	
MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) =										0.1127	
MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) =										0.1127	
MCE&P INVEST. (CU REMMUX x MCEP) =										\$ 15.42	
MCE&P INVEST. (CDLCMUX x MCEP) =										\$ 11.23	
MCE&P INVEST. (CO CONN x MCEP) =										\$ 0.00	
OTHER INVESTMENT											
LAND FACTOR FOR DLC (LANDf rem) =										0.0056	
LAND FACTOR FOR DLC (LANDf c.o.) =										0.0056	
LAND INVEST. (CU COMUX+MCEP) x LANDf =										\$ 1.47	
LAND INVEST. ((CO CONN+MCEP) x LANDf) =										\$ 0.00	
BUILDING FACTOR FOR DLC (BLDGF rem) =										0.1316	
BUILDING FACTOR FOR DLC (BLDGF c.o.) =										0.1316	
BLDG INVEST. (CDLCMUX+MCEP) x BLDGF =										\$ 34.63	
BLDG INVEST. ((CO CONN+MCEP) x BLDGF) =										\$ 0.00	
LOOP TOPOLOGY											
AVERAGE NUMBER OF HUBS										STAR	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 INTEGRATED DIGITAL 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 WORKSEET 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										Belcore [®]	
ACCOUNT 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 CXR										TEST CASE: 1	
CIRCUIT DESIGN: 1 C										DATE: 28-Jan-97	
SERVICE CLASS: BAND 2 - BUSINESS PBX										TIME: 08:50 AM	
COMPANY: CINCINNATI BELL TEL CITY / AREA: OHIO STATE / PROV: CINCINNATI											
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. JNE FILL [J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION 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	18.54	1		\$ 19	0.6000		\$ 31	
BURIED CABLE (COPPER)	45C	V	DIRECT	2.20	1		\$ 2	0.6000		\$ 4	
UNDERGROUND (CU) CA.	5C	V	DIRECT	44.93	1		\$ 45	0.6000		\$ 75	
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	11.23	1	\$ 11		1.0000			
POLE LINE	1C	F	DIRECT	7.82	1		\$ 8	1.0000			
CONDUIT	4C	F	DIRECT	35.09	1		\$ 35	1.0000			
TOTALS											
										\$ 512	
										\$ 580	

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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

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PLANT ITEM		PLANT ACCT CODE	1996 TO 1996 TPI [L]	1996 UNIT LOOP INVESTMENT BY ACCOUNT SHARED RESOURCES [M=K*L] DIRECT RESOURCES [M'=K'*L]	ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT SHARED RESOURCES [P=M*N] DIRECT RESOURCES [P'=M'*N]	1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT SHARED RESOURCES [R=P/12] DIRECT RESOURCES [R'=P'/12]
LAND	20C	1.0000	\$ 1		0.2322	\$ 0.34	\$ 0.03
BUILDING	10C	1.0000	\$ 35		0.2937	\$ 10.21	\$ 0.85
BLDG ENTRANCE CABLE	12C	1.0000			0.3922		
INTRABLDG CABLE	52C	1.0000			0.3922		
AERIAL CABLE (COPPER)	22C	1.0000		\$ 31	0.4033	\$ 12.46	\$ 1.04
BURIED CABLE (COPPER)	45C	1.0000		\$ 4	0.3467	\$ 1.27	\$ 0.11
UNDERGROUND (CU) CA.	5C	1.0000		\$ 75	0.3663	\$ 27.43	\$ 2.29
CO EQPT - P GAIN TERM	257C	1.0000		\$ 113	0.3881	\$ 43.87	\$ 3.66
CO EQPT - P GAIN CHAN	257C	1.0000		\$ 247	0.3881	\$ 95.80	\$ 7.98
CO EQPT - FO MUX TERM	857C	1.0000			0.3881		
CO EQPT - FO MUX CHAN	857C	1.0000			0.3881		
CO EQPT - ESS - ANALOG	77C	1.0000			0.0000		
CO EQPT - ESS - DIGITAL	377C	1.0000			0.3458		
AERIAL CABLE (FIBER)	822C	1.0000			0.2983		
BURIED CABLE (FIBER)	845C	1.0000			0.2724		
UNDERGROUND (FO) CA.	85C	1.0000			0.2689		
CONNECTORS	57C	1.0000			0.3881		
MISC. COM EQP & PWR	57C	1.0000	\$ 11		0.3881	\$ 4.36	\$ 0.36
POLE LINE	1C	1.0000		\$ 8	0.3807	\$ 2.98	\$ 0.25
CONDUIT	4C	1.0000		\$ 35	0.2521	\$ 8.85	\$ 0.74
TOTALS			\$ 47	\$ 512		\$ 14.91	\$ 1.25
				\$ 560		\$ 207.57	\$ 16.05
				FEED1SY		FEED1ANN	FEED1MRC
							\$ 17.30

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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\CUPR3N		LOOP COST ANALYSIS TOOL				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: 6/31/95	
CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 1 COPPER DIG LOOP CXR				STUDY YR: 1996	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS PBX				TEST CASE: 1	
						DATE: 28-Jan-97	
						TIME: 09:51 AM	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT							
(SEE NOTE)							
TOTAL							
AVG. WEIGHTED							
INVESTMENT							
21485							
SHARED RESOURCES							
1	LAND	20C		\$ 0.03			\$ 0.03
2	BUILDING	10C		\$ 0.85			\$ 0.85
3	BLDG ENTRANCE CABLE	12C					\$ 0.00
4	INTRABLDG CABLE	52C					\$ 0.00
5	AERIAL CABLE (COPPER)	22C					\$ 0.00
6	BURIED CABLE (COPPER)	45C					\$ 0.00
7	UNDERGROUND (CU) CA.	5C					\$ 0.00
8	CO EQPT - P GAIN TERM	257C					\$ 0.00
9	CO EQPT - P GAIN CHAN	257C					\$ 0.00
10	CO EQPT - FO MUX TERM	857C					\$ 0.00
11	CO EQPT - FO MUX CHAN	857C					\$ 0.00
12	CO EQPT - ANALOG SW	77C					\$ 0.00
13	CO EQPT - DIGITAL SW	377C					\$ 0.00
14	AERIAL CABLE (FIBER)	822C					\$ 0.00
15	BURIED CABLE (FIBER)	845C					\$ 0.00
16	UNDERGROUND (FO) CA.	85C					\$ 0.00
17	CONNECTORS	57C					\$ 0.00
18	MISC. COM EQP & PWR	57C		\$ 0.36			\$ 0.36
19	POLE LINE	1C					\$ 0.00
20	CONDUIT	4C					\$ 0.00
DIRECT RESOURCES							
21	LAND	20C					\$ 0.00
22	BUILDING	10C					\$ 0.00
23	BLDG ENTRANCE CABLE	12C					\$ 0.00
24	INTRABLDG CABLE	52C					\$ 0.00
25	AERIAL CABLE (COPPER)	22C		\$ 1.04			\$ 1.04
26	BURIED CABLE (COPPER)	45C		\$ 0.11			\$ 0.11
27	UNDERGROUND (CU) CA.	5C		\$ 2.29			\$ 2.29
28	CO EQPT - P GAIN TERM	257C		\$ 3.66			\$ 3.66
29	CO EQPT - P GAIN CHAN	257C		\$ 7.96			\$ 7.96
30	CO EQPT - FO MUX TERM	857C					\$ 0.00
31	CO EQPT - FO MUX CHAN	857C					\$ 0.00
32	CO EQPT - ANALOG SW	77C					\$ 0.00
33	CO EQPT - DIGITAL SW	377C					\$ 0.00
34	AERIAL CABLE (FIBER)	822C					\$ 0.00
35	BURIED CABLE (FIBER)	845C					\$ 0.00
36	UNDERGROUND (FO) CA.	85C					\$ 0.00
37	CONNECTORS	57C					\$ 0.00
38	MISC. COM EQP & PWR	57C					\$ 0.00
39	POLE LINE	1C		\$ 0.25			\$ 0.25
40	CONDUIT	4C	*****	\$ 0.74			\$ 0.74
41	SPAN SUMMARY			17.30	0.00	0.00	0.00
42	AVG. WTD. SPAN SUMMARY			17.30	0.00	0.00	0.00
NOTE: [sum(INV _{ACT} * MIX _{MANU})]							

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C:\123R24\LCATCALC\FOPRGN

Bellcore (R)

RUN - FO MUX

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

28-Jan-97

Issued: 7/31/95

08:35

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS PBX 14001 FEET - INFINITY INTR

CURRENT TEST PLAN :

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

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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: 1995	
CIRCUIT DESIGN: 3: FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - BUSIN SERVICE LEVEL: NARBAND										LAST RUN: 25-Jan-97	
										TIME: 06:32	
from star: 300 cur stdlgrth from dw_mux: 12779.5 cur_pnlgth f = 1979.04 wtdqvmn											
SEGMENT LENGTH IN FEET TYPE OF CABLE PLANT RELATIVE MIX OF TYPE OF CA. PLANT EFFECTIVE LENGTH SUBSET BY TYPE OF PLANT MLD CABLE DESIGN INVEST. PER PAIR FOOT CABLE COMPONENTS (NOTE 5) WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT WEIGHTED TERMINAL INVESTMENT AIR DRYER INVESTMENT PER PAIR DROP WIRE ADJUSTMENT PER PAIR DROP WIRE INVESTMENT PER PAIR											
fo3pri_segldth [A] 21485 CO TO HUB LINK ON FIBER OPTIC FACILITIES AERIAL BURIED UNDERGRND 0.480000 0.000000 0.520000 5.21 0.00 5.65 0.193000 0.00 0.269400 0.182700 1.01 0.00 0.00 1.03 0.00											
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 (MUXc.o.) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (DLCc.o.) = 0.1127 MISC. COM. EQPT. & POWER FACTOR (OTHc.o.) = 0.1127 MCE&P INVST. (MUXc.o.+DLCc.o.) 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) = 0.0056 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0056 LAND FACTOR FOR OTH (LANDfrem) = 0.0056 LAND FACTOR FOR DLC EQP (LANDfc.o.) = 0.0056 LAND FACTOR FOR MUX EQP (LANDfc.o.) = 0.0056 LAND FACTOR FOR OTH (LANDfc.o.) = 0.0056 LAND INVST. (DLC+MUX+MCEP) x LANDfc.o. = \$ 0.76 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 0.98 BUILDING FACTOR FOR DLC EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BUILDING FACTOR FOR DLC EQP (BLDGfc.o.) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfc.o.) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfc.o.) = 0.1316 BLDG INVST. (DLC+MUX+MCEP) x BLDGfc.o. = \$ 17.81 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 23.09											
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) = FIBER MUX EQUIP. INV. (FO COMUX) = FIBER MUX EQUIP. INV. (FO RTMUX) = DROP WIRE AIR DRYER NA 0.0000 NA 0.0000 NA 0.0000 TERM CHAN \$ 0.00 \$ 0.00 \$ 51.57 \$ 85.28 \$ 12.14 \$ 87.51 \$ 51.57 \$ 85.28 \$ 2.35 \$ 19.62 \$ 2.35 \$ 18.49 inv / unit lgth.: inv rth fctr: 0.0000 0.1965 \$ 0.60 0.0000 0.5232 \$ 1.64											
OTHER INVESTMENT POLE LINE FACTOR (PLf) = POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = UNDERGROUND CONDUIT FACTOR (PLf) = CONDUIT INVESTMENT (UTIL UNDERGRND INVST x UCF) = inv / unit lgth.: inv rth fctr: 0.0000 0.1965 \$ 0.60 0.0000 0.5232 \$ 1.64											
LOOP TOPOLOGY STAR AVERAGE NUMBER OF HUBS ADDITIONAL LENGTH OF RING OSP REQUIRED MIX OF CENT. OFC. ANALOG INTFC MIX OF CENT. OFC. DIGITAL INTFC MIX OF UNIVERSAL DLC INTFC MIX OF CENT. OFC. INTEGRATED DLC 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 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.											

LOOP COST ANALYSIS TOOL										Bellcore	
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 - BUSINSERVICE LEVEL: NARBAND										LAST RUN: 28-Jan-97	
										TIME: 08:52	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION SHARED RESOURCES	DIRECT RESOURCES	ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL UTILIZATION SHARED RESOURCES	DIRECT RESOURCES	
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	1.01	1		\$ 1	0.3300		\$ 3	
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300			
UNDERGROUND (FO) CA.	85C	F	DIRECT	1.03	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	0.60	1		\$ 1	1.0000		\$ 1	
CONDUIT	4C	F	DIRECT	1.64	1		\$ 2	1.0000		\$ 2	
TOTALS											\$ 407
											\$ 463
FOOTNOTES											feed3y
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 [®]	
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 - BU: SERVICE LEVEL: NARBAND										LAST RUN: 28-Jan-97	
										TIME: 08:52	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO											
C:\123R24\LCATCALC\FOPRGN.WK1 FO_MUX - WORKSHEET 3 Sheet 3 of 3											
PLANT ITEM		PLANT ACCT CODE	1996 TO 1996 TPI	1996 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT		
				SHARED RESOURCES fo3sixaset	DIRECT RESOURCES fo3dixaset		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]	
9.	LAND	20C	1.0000	\$ 2		0.2322	\$ 0.40		\$ 0.03		
10.	BUILDING	10C	1.0000	\$ 41		0.2937	\$ 12.01		\$ 1.00		
11.	BLDG ENTRANCE CABLE	12C	1.0000			0.3922					
12.	INTRABLDG CABLE	52C	1.0000			0.3922					
13.	AERIAL CABLE (COPPER)	22C	1.0000			0.4033					
14.	BURIED CABLE (COPPER)	45C	1.0000			0.3467					
15.	UNDERGROUND (CU) CA.	5C	1.0000			0.3663					
16.	CO EQPT - LOW CAP TERM	257C	1.0000		\$ 91	0.3881		\$ 35.32		\$ 2.94	
17.	CO EQPT - LOW CAP CHAN	257C	1.0000		\$ 247	0.3881		\$ 95.60		\$ 7.96	
18.	CO EQPT - HI CAP TERM	857C	1.0000		\$ 22	0.3881		\$ 8.72		\$ 0.73	
19.	CO EQPT - HI CAP CHAN	857C	1.0000		\$ 38	0.3881		\$ 14.79		\$ 1.23	
20.	CO EQPT - ANALOG SW	77C	1.0000			0.0000					
21.	CO EQPT - DIGITAL SW	377C	1.0000			0.3458					
22.	AERIAL CABLE (FIBER)	822C	1.0000		\$ 3	0.2983		\$ 0.91		\$ 0.08	
23.	BURIED CABLE (FIBER)	845C	1.0000			0.2724					
24.	UNDERGROUND (FO) CA.	85C	1.0000		\$ 3	0.2689		\$ 0.84		\$ 0.07	
25.	CONNECTORS	57C	1.0000			0.3881					
26.	MISC. COM EQP & PWR	57C	1.0000	\$ 14		0.3881	\$ 5.32		\$ 0.44		
27.	POLE LINE	1C	1.0000		\$ 1	0.3807		\$ 0.23		\$ 0.02	
28.	CONDUIT	4C	1.0000		\$ 2	0.2521		\$ 0.41		\$ 0.03	
TOTALS				\$ 56	\$ 407		\$ 17.74	\$ 157.06	\$ 1.49	\$ 13.09	
					\$ 463			\$ 4.76		\$ 14.56	
				feed3sy			feed3ann		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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C:\23R24\LCAT\CALC\FOPRGN.WK1		LOOP COST ANALYSIS TOOL				Bellicore [®]	
FO_MUX - REPORT 14.3		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
Sheet 1 of 1		FOR PRIMARY FEEDER PLANT				ISSUE DATE: 7/31/95	
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: FIBER IN THE LOOP				STUDY YR: 1995	
CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSIN SERVICE LEVEL: NARBAND				LAST RUN: 28-Jan-97	
						TIME: 08:52	
data - 14a3		1995 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)	
BAND		0				TOTAL	
PLANT MIX		1.0000				AVG WEIGHTED	
ACCT AVG.						INVESTMENT	
CODE LGTH		23774					
SEG.LGTH		21485				21485	
SHARED RESOURCES							
7	LAND	20C		\$ 0.03			\$ 0.03
8	BUILDING	10C		\$ 1.00			\$ 1.00
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 - LOW CAP TERM	257C					\$ 0.00
15	CO EQPT - LOW CAP CHAN	257C					\$ 0.00
16	CO EQPT - HI CAP TERM	857C					\$ 0.00
17	CO EQPT - HI CAP 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		\$ 0.44			\$ 0.44
25	POLE LINE	1C					\$ 0.00
26	CONDUIT	4C					\$ 0.00
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					\$ 0.00
34	BURIED CABLE (COPPER)	45C					\$ 0.00
35	UNDERGROUND (CU) CA.	5C					\$ 0.00
36	CO EQPT - LOW CAP TERM	257C		\$ 2.94			\$ 2.94
37	CO EQPT - LOW CAP CHAN	257C		\$ 7.98			\$ 7.98
38	CO EQPT - HI CAP TERM	857C		\$ 0.73			\$ 0.73
39	CO EQPT - HI CAP CHAN	857C		\$ 1.23			\$ 1.23
40	CO EQPT - ANALOG SW	77C					\$ 0.00
41	CO EQPT - DIGITAL SW	377C					\$ 0.00
42	AERIAL CABLE (FIBER)	822C		\$ 0.08			\$ 0.08
43	BURIED CABLE (FIBER)	845C					\$ 0.00
44	UNDERGROUND (FO) CA.	85C		\$ 0.07			\$ 0.07
45	CONNECTORS	57C					\$ 0.00
46	MISC. COM EQP & PWR	57C					\$ 0.00
47	POLE LINE	1C		\$ 0.02			\$ 0.02
48	CONDUIT	4C		\$ 0.03			\$ 0.03
50	SPAN SUMMARY		14.56	0.00	0.00		\$ 14.56
51	AVG. WTD. SPAN SUMMARY		14.56	0.00	0.00		
NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]							

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C:\123R24\LCATR030 COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore (R)

TABLE - COST METH SHEET 1 of 2		COST METHODS ASSIGNMENT TABLE DISTRIBUTION SEGMENT		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 13:08				
COMPANY: CINCINNATI BELL TEL STATE: OHIO		☐ SWITCHED ☐ SERVICES						
PLANT ITEM	LCAT CODE	PLANT CODE	WHEN BANDWIDTH DELIVERY IS					
			NARROWBAND		WIDEBAND		BROADBAND	
			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	F	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-MULTI-LEXTED FEEDER & DISTRIBUTION 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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C:\123R24\LCATR030\COSTMETH
TABLE - COST_METH
Sheet 1 of 2

HELP SCREEN**Belcore** (M)

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 - 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 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. 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 - F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function - DIRECT for Dedicated or Circuit Specific Investment. 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 *****

PRESS <ENTER> TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR030\COSTMETH

LOOP COST ANALYSIS TOOL

Bellcore (R)

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

SWITCHED SERVICES

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 28-Oct-96

TIME: 13:08

PLANT ITEM	PLANT CODE	WHEN BANDWIDTH DELIVERY IS					
		NARROWBAND		WIDEBAND		BROADBAND	
		SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE 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(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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CA123R24\LCATR030\COSTMETH
TABLE - COST_METH
Sheet 2 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel : 1.0.4

Issued : 07/31/93

<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 - 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 - Narrowband - denotes voice grade and sub-voice grade band width. Wideband - denotes bandwidths of the first level of digital hierarchy. 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 - F for Fixed Value, Low sensitivity to Distance or Demand. V for Variable Usage, Cost Sensitive to Distance or Demand. S for Sunk Investment which only has an Annual Component.
RESOURCE ASSIGNMENT	SHARED, DIRECT	The Assigned Category of Circuit Function - DIRECT for Dedicated or Circuit Specific Investment. 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\LCATR0301\CPTR1A		LOOP COST ANALYSIS TOOL		Bellcore (R)	
INPUT - STUDY SET UP		GENERAL STUDY REQUIREMENTS		LAST UPDATE: 28-Jan-97	
LCAT Rel.: 1.0.4				13-Dec-96 01:24 PM	
Issue Date: 3/31/95					
STUDY NAME		1996 BAND 2 (OHIO ONLY) BUSINESS PBX 14001 FEET - INFINITY INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 2 - BUSINESS PBX		☒ NETWORK	
				☐ 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 7	
		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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C:\123R24\LCATR030\CRITERIA		HELP SCREEN	Belcore [®]
INPUT - STUDY SETUP			LCAT Rel. 1.0.4
Sheet 1 of 2			ISSUED: 3/31/95
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>, , <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. ***** 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\030\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore TM																																					
INPUT - STUDY SETUP SHEET 2 / 2 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		GENERAL STUDY REQUIREMENTS STUDY QUESTIONS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 13-Dec-96 TIME: 01:24 PM																																					
SELECTED QUESTIONS																																									
CONCERNING - SERVICE SPEC.	1. Is this Study for a NEW Installation or an ADDITION ? 2. Is this Study for a SWITCHED or PRIVATE LINE Service ? 3. Is this Study for Narrow, Wide, or Broadband Services 4. Is this Study for 2 Wire or 4 Wire Transmission ?																																								
OFFICE CHAR.	5. What Percent of the C.O. Switch Installations are DIGITAL Switches? 6. What Percent of Loop Carrier Installations are INTEGRATED DLC's? 7. What Percent of Loop Carrier Cross-connects are Electronic DCS's? 8. Deploy Digital Loop Carrier (loop pair gain) exclusively at ?																																								
RESULTS SPEC.	9. Do you want FLAT RATE or DISTANCE SENSITIVE parameters ? 9a. If Distance Sensitive, what band increment do you want ? 10. How many Cost Bands in this study ? 11. Should this Study result in Investment, Cost, or All values ? 12. Is this study for Total Incremental or Marginal Costs ? 13. How many circuits (loops) in this Study ? 14. The study classification is(e.g.; RATES PLAN, TEST DATA, NEW SERVICE) Required for the "Footer" of each Report page.																																								
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th colspan="2" style="text-align: center;">VALID RESPONSE</th></tr> <tr><td style="text-align: center;">SET</td><td></td></tr> <tr><td style="text-align: center;">N or A</td><td style="text-align: center;">NEW</td></tr> <tr><td style="text-align: center;">S or P</td><td style="text-align: center;">SWITCHED</td></tr> <tr><td style="text-align: center;">N, W or B</td><td style="text-align: center;">NARBAND</td></tr> <tr><td style="text-align: center;">2 or 4</td><td style="text-align: center;">2</td></tr> <tr><td colspan="2"> </td></tr> <tr><td style="text-align: center;">0 → 100</td><td style="text-align: center;">100</td></tr> <tr><td style="text-align: center;">0 → 100</td><td style="text-align: center;">0</td></tr> <tr><td style="text-align: center;">0 → 100</td><td></td></tr> <tr><td style="text-align: center;">e.g., 12000</td><td style="text-align: center;">14000 Feet</td></tr> <tr><td colspan="2"> </td></tr> <tr><td style="text-align: center;">For D</td><td style="text-align: center;">FLAT RATE</td></tr> <tr><td style="text-align: center;">1,2,3,4</td><td></td></tr> <tr><td style="text-align: center;">0 → 5</td><td style="text-align: center;">0</td></tr> <tr><td style="text-align: center;">I.C or A</td><td style="text-align: center;">COST</td></tr> <tr><td style="text-align: center;">T or M</td><td style="text-align: center;">TOT INCR</td></tr> <tr><td style="text-align: center;">0 → 999</td><td style="text-align: center;">RATES PLAN</td></tr> </table>				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	I.C or A	COST	T or M	TOT INCR	0 → 999	RATES PLAN
VALID RESPONSE																																									
SET																																									
N or A	NEW																																								
S or P	SWITCHED																																								
N, W or B	NARBAND																																								
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HELP SCREENBellcore[®]

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\LCAT\030\DESIGN		LOOP COST ANALYSIS TOOL		Bellcore	
INPUT - LOOP_DESIGN Sheet 1 / 1		CIRCUIT DESIGN REQUIREMENTS CHARACTERISTICS FOR		LCAT Rel :1.0.4 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 - BUSINESS PBX		LAST UPDATE : 28-Oct-96 TIME : 13:11	

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 0.0000

FACILITY TECHNOLOGIES:

Of the Hubbed Circuits -

Proportion of links on Fiber Tech. 0.0000

Proportion of links on CDLC / MAR 0.0000

FOR SERVICE ACCESS NETWORK

(REMOTE TERMINAL TO CUSTOMER LINK)

FACILITY INTERFACE SITES :

Proportion of Remote terminals
colocated at Customer Premises 0.0000

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

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 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\LCATR030\DESIGN

HELP SCREEN

Bellcore

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.

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

***** CONCERNING ANY OTHER DATA INPUT ITEMS ON THIS DISPLAY *****

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C:\123R24\LCATR030\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN INV SHEET 1 / 4		LOOP FACILITY INPUT FIBER CABLE DATA		LCAT Rel: 1.0.4	
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 - BUSINESS PBX		LAST UPDATE: 28-Oct-96	
				TIME: 13:13	
FIBER CABLE INVESTMENT AND CHARACTERISTICS					
CABLE TYPE MIX (DISTRIBUTION TO CODE) : Proportion of FIBER cable installations that are		FOR FEEDER SEGMENTS		FOR DISTRIBUTION SEGMENTS	
		AERIAL	0.4800	0.0000	factors
		BURIED	0.0000	0.0000	factors
		UNDGRD	0.5200	0.0000	factors
INVESTMENT PER CABLE PAIR FOOT BY CABLE TYPE :					
Update Cable Sheath Prices on the FULL SET Input SHEET ? (Y / N) ☐ N [Required with INDIVIDUAL Mode]					
If not, Update Unit Averages as Follows :					
PRIMARY SEGMENT					
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	
		(Fiber Hub to Remote Terminal)			
FEEDER - EXTENSION SEGMENT AND DISTRIBUTION SEGMENT					
Average Unit Investment for FIBER cable.		AERIAL	\$ 0.1930	\$ 0.0000	per fiber pair Foot
Installed as		BURIED	\$ 0.2694	\$ 0.0000	per fiber pair Foot
		UNDGRD	\$ 0.1827	\$ 0.0000	per fiber pair Foot
		(Remote Terminal to Service Point)			

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C:\123\24\LCATR030\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore	
TABLE - SPAN_INV SHEET 1A/4		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL				LCAT No: 1.0.4	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX				Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 13:13	
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE							
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\LCATRC30 FACILITY
TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

BellcoreTM
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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C:\123R24\LCATR030\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore [®]	
TABLE - SPAN_INV SHEET 2 / 4		LOOP FACILITY INPUT COPPER CABLE DATA FOR		LCAT Rel: 1.0.4 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 - BUSINESS PBX		LAST UPDATE: 28-Oct-96 TIME: 13:13	
COPPER CABLE CHARACTERISTICS AND INVESTMENTS					
Cable Gauge Mix :		FEEDER SEGMENT	DISTRIBUTION SEGMENT	Unit Investment per Cable Pair Foot By Cable Type, By Cable Gauge :	
The Proportion of Copper Cable that is ...		26 GA.	0.1500	Update Cable Sheath Prices [Required with INDIVIDUAL Mode] on the FULL SET Input SHEET ? (Y / N) N	
		24 GA.	0.8500	If not, Update	
		22 GA.	0.0000		
Cable Type Mix, By Gauge :					
The Proportion of Copper Cable that is ...		26 GA.	AERIAL 0.2900	Average Unit Investment for Copper Cable Installed as	
			BURIED 0.0200		
			UNDGRND 0.6900		
		24 GA.	AERIAL 0.2900		
			BURIED 0.0200		
			UNDGRND 0.6900		
		22 GA.	AERIAL 0.0000		
			BURIED 0.0000		
			UNDGRND 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\LCATR030\FACILITY			LOOP COST ANALYSIS TOOL						Bellcore			
TABLE - SPAN INV SHEET 2A / 4			LOOP FACILITY INPUT COPPER CABLE DATA - BY CABLE SHEATH DETAIL						LCAT Ver: 1.0.4 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 - BUSINESS PBX						LAST UPDATE: 28-Oct-96 TIME: 13:13			
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: =>	26 GA.			24 GA.			22 GA.		
			INDEX	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\LCATR030\FACILITY
TABLE ~ SPAN_INV
SHEET 2 / 4

HELP SCREEN

Bellcore
LCAT Rel : 1.0.4
Issued : 07/31/95

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LCAT

INPUT SCREEN

Page -1-

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LCAT

INPUT SCREEN

Page -2-

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C:\123R24\LCATR030\FACILITY.WK1

LOOP COST ANALYSIS TOOL

BellcoreTMSPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET ALCAT R# : 1.0.4
Issue Date: 07/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE/PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENTSTUDY YR : 1996
TEST CASE : 1996
DATE : 1
LAST UPDATE : 28-Oct-96
TIME : 13:13

SERVICE CLASS : BAND 2 - BUSINESS PBX

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pfi...ds)	CABLE GAUGE MIX (copper...dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
	[A]	[B]	[C]	[D=A*C]	[E=B*C]
CHARACTERISTICS FOR :					
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 DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES
CHARACTERISTICS FOR :		
AERIAL		[F=sum(D*TYPE)]
BURIED		0.620000
UNDERGRND		0.330000
		0.050000

Check = 1.000000

--- TABLE 4 ---

PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
PAIR / FOOT INVESTMENT	
RENORMALIZED	
AERIAL BURIED	
	[G=sum(E*TYPE)]
	\$ 0.042600
	\$ 0.066800
	\$ 0.058000

Check = 1.00

--- TABLE 6 ---

PAIR / FOOT INVESTMENT RENORMALIZED AERIAL BURIED	MELDED GAUGES
PAIR / FOOT INVESTMENT	
RENORMALIZED	
AERIAL BURIED	
	[H=F*TYPE / sum(F*TYPE)]
	\$ 0.652633
	\$ 0.347367

Check = 1.000000

FOOTNOTES

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C:\123R24\LCATR030\FACILITY.WK1		LOOP COST ANALYSIS TOOL				Bellcore [®]	
SPAN: 100 - WORKSHEET Sheet 2 of 3		COPPER CABLE DISTRIBUTION'S MELDING WORKSHEET A FOR				LCAT Ver: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		FACILITY TYPE: COPPER CABLE DESIGN TYPE: SUBFEEDER SEGMENT SERVICE CLASS: BAND 2 - BUSINESS PBX				STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 28-Oct-96 TIME: 13:13	
(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fdr)		MELDED CABLE INVESTMENT PER PAIR FOOT				ADJUSTED CABLE TYPE	
DATA DESC.		PER FOOT INVESTMENT (pfi...fdr)		CABLE GAUGE MIX (copper...fdr)		ADJUSTED PFI	
CHARACTERISTICS FOR:		[A]		[B]		[C]	
AERIAL @ 26 GA.		0.290000		\$ 0.011900		0.1500	
BURIED @ 26 GA.		0.020000		\$ 0.020500		0.1500	
UNDGRND @ 26 GA.		0.690000		\$ 0.011000		0.1500	
AERIAL @ 24 GA.		0.290000		\$ 0.011900		0.8500	
BURIED @ 24 GA.		0.020000		\$ 0.020500		0.8500	
UNDGRND @ 24 GA.		0.690000		\$ 0.011000		0.8500	
AERIAL @ 22 GA.		0.000000		\$ 0.000000		0.0000	
BURIED @ 22 GA.		0.000000		\$ 0.000000		0.0000	
UNDGRND @ 22 GA.		0.000000		\$ 0.000000		0.0000	
Check =		1.00		TABLE		[D=A*C]	
TABLE 2		TABLE 4		PAIR / FOOT INVESTMENT		PAIR / FOOT INVESTMENT	
CABLE TYPE MIX		PAIR / FOOT INVESTMENT		RENORMALIZED		RENORMALIZED	
RANGE		RANGE		AERIAL		AERIAL	
NAME		NAME		BURIED		BURIED	
MELDED		MELDED		GAUGES		GAUGES	
GAUGES		GAUGES		[F=sum(D*TYPE)]		[G=sum(E*TYPE)]	
CHARACTERISTICS FOR:		AERIAL		0.290000		\$ 0.011900	
BURIED		0.020000		\$ 0.020500		\$ 0.035464	
UNDERGRND		0.690000		\$ 0.011000		\$ 0.064516	
Check =		1.000000		Check =		1.000000	
FOOTNOTES							

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C:\123R24\LCATRC30\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)
TABLE - SPAN_INV SHEET 3 / 4		LOOP FACILITY INPUT COPPER PAIR GAIN CABLE DATA FOR		LCAT Rel: 1.0.4 Issued: 07/31/95
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE/PROV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 13:13
COPPER CABLE CHARACTERISTICS FOR CDLC SYSTEMS				
FOR DLC SYSTEMS ON COPPER LOOPS				
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] :			0.125
NOTE: • 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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C:\123R24\LCATRD30\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREENBellcore^(R)

LCAT Rel : 07/31/95
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 : $pgfactor = (\# \text{ of } xmsnpr + \# \text{ of } suptpr) / vgcheqv$

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C:\123R24\LCATR030\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore [®]
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET B		LCAT Rel: 1.0.4 Issue Date: 07/31/95
COMPANY: CINCINNATI BELL TEL. CITY / AREA: OHIO STATE / PROV: CINCINNATI		FOR FACILITY TYPE: COPPER CABLE for DLC DESIGN TYPE: FEEDER SEGMENT SERVICE CLASS: BAND 2 - BUSINESS PBX		STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 28-Oct-96 TIME: 13:13
INVESTMENT DEVELOPMENT FOR:		MELDED CABLE INVESTMENT PER PAIR FOOT LINE REPEATER EQUIPMENT		
DESCRIPTION	REPEATER SPACING (A)	UNIT REPEATER INVESTMENT (B)	REPEATER INVEST. PER FOOT (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 PAIR / FOOT INVESTMENT DESCRIPTION	PAIR / FOOT INVESTMENT BY CODE BY GAUGE 2 * (PF1cgg) [D]	REPEATER BY GAUGE BY GAUGE (RPTR ggG) [E=C]	WORKING CHANNEL INVESTMENT / FOOT (ADLCPF1cgg) [F=D+E]	FOR DLC Gauge: 24.00 - TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT (ADLCPF1c) [G=F+H]
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\030\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore (R)							
TABLE - SPAN_INV SHEET 4 of 4 COM: COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX		LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 13:13							
SERVICE ACCESS CHARACTERISTICS AND INVESTMENTS											
AVERAGE UNIT MIX :		AVERAGE UNIT INVESTMENT :									
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)	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>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	\$ 0.00										
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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LOOP COST ANALYSIS TOOL

Bellcore

TABLE - FACTORS
SHEET 1 / 1

INVESTMENT RELATED FACTOR TABLES

LCAT Rel: 1.0.4

Issued: 3/31/95

ANNUALIZATION FACTORS

INVESTMENT YEAR: 1996

STUDY YEAR: 1996

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 17-Jan-97

TIME: 15:22

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

SERVICE CLASS: BAND 2 - BUSINESS PBX

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	0.2322
1.0000	0.2937
1.0000	0.3922
1.0000	0.3922
1.0000	0.4033
1.0000	0.3467
1.0000	0.3663
1.0000	0.3881
1.0000	0.3881
1.0000	0.3881
1.0000	0.0000
1.0000	0.3458
1.0000	0.2983
1.0000	0.2724
1.0000	0.2689
1.0000	0.3881
1.0000	0.3881
1.0000	0.3807
1.0000	0.2520

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C:\123R24\LCATR030\INVEST		LOOP COST ANALYSIS TOOL				Bellcore ^(R)	
TABLE - EQUIP_INV Sheet 1 of 1		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR				LCAT Rel: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 23-Oct-96 13:15	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1996 SERVICE LEVEL: NARBAND SERVICE CLASS: BAND 2 - BUSINESS PBX					
EQUIPMENT INVESTMENT (Including Engineer, Furnish, & Install Costs)							
		CENTRAL OFFICE			REMOTE LOCATION		
		LINE	CHANNEL	TERMINAL	CHANNEL	TERMINAL	
AIR DRYERS INVESTMENT:							
For an AERIAL Installed Cable Pair				\$ 0.00			
For a BURIED Installed Cable Pair				\$ 0.00			
For an UNDERGROUND Installed Cable Pair				\$ 0.00			
CENTRAL OFFICE TERMINATION INVESTMENT:							
For each cable pair associated with twisted pair copper cable				\$ 79.08			
For each per cable pair associated with digital loop carrier technology				\$ 0.00			
COPPER LOOP CARRIER UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:							
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	
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:							
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	
CEV HOUSING per CIRCUIT by SERVICE LEVEL:							
For CEV's used as fiber hubs for FO Multiplexer equipment						\$ 0.00	
For CEV's used as remote terminals for CDLC equipment						\$ 8.33	
[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

BellcoreTM

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	FTL/CDLC Hub Extension or FTL non-Hubbing Arrangements, CO End Equip.	2,3,4 & 6
REM Field Item 1	FTL/CDLC Hub Extension or FTL non-Hubbing Arrangements, REM End Equip.	2,3,4 & 6
COE Field Item 2	FTL Hubbed Arrangements, CO to HUB Span Equip, CO End.	1 & 5
REM Field Item 2	FTL Hubbed Arrangements, CO to HUB Span Equip, Remote Site.	1 & 5
REM Field Item 3	FTL Hubbed Arrangements, HUB to RT Span Equip, Remote Sites.	1 & 5
REM Field Item 4	FTL 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\LCATR030\LOADING		LOOP COST ANALYSIS TOOL		Bellcore (R)
TABLE - ADDNL_INV Sheet 1 of 2 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE: OHIO		INVESTMENT RELATED FACTOR TABLES ADJUSTMENT AND LOADING FACTORS FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS PBX		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 13:17
PLANT UTILIZATION FACTORS:				
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. Cable		1.0000

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TABLE - ADDNL_07V
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 *****

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LOOP COST ANALYSIS TOOL**Belcore[®]**TABLE - ADDNL INV
Sheet 2 of 2INVESTMENT RELATED FACTOR TABLES
ADJUSTMENT AND LOADING FACTORS
FOR

LCAT Rel: 1.0.4

Issued: 3/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 28-Oct-96

TIME: 13:17

COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE: OHIOINVESTMENT YEAR: 1996
LOOP STUDY YEAR: 1996
SERVICE CLASS: BAND 2 - BUSINESS PBX

SEGMENT

DISTRIBUTION | FEEDER

② use DEFAULT**POLE LOADINGS:**

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		

CONDUIT LOADINGS:

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		

DROP WIRE (DW) INVESTMENT ADJUSTMENT:

The Cable PFI is being Adjusted for DW?	NO
Aerial Cable	
Buried Cable	
Underground Cable	

use DEFAULT

for: CENT. OFC. | REMOTE SITE

LAND LOADING FACTORS:

Other or <u>ALL</u> ①	0.0056	0.0056
Digital Loop Carrier	0.0056	0.0056
Fiber Optic Mux	0.0056	0.0056

BUILDING LOADING FACTORS:

Other or <u>ALL</u> ①	0.1316	0.1316
Digital Loop Carrier	0.1316	0.1316
Fiber Optic Mux	0.1316	0.1316

MISC. EQUIPMENT & OTHER LOADING FACTORS:

Other or <u>ALL</u> 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 SCREEN

Bellcore[®]

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	cpufi	__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	fpufi	__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	fucff	__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 *****

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CM123R24\LCATR030\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]
INPUT - PLANT_CHAR. Sheet 1 / 5		LOOP FACILITY INPUT LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS		LCAT Rel: 1.0.4 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 - BUSINESS PBX		LAST UPDATE: 28-Oct-96 TIME: 13:20
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY				
LOOP TOPOLOGY			ACTION SEGMENT	
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	
SPAN LENGTHS				
①	Average	Distance From the Central Office to the Service Access Point	TOTAL LOOP	23774.0
②	Average	Distance From the Serving Area Interface to the Service Access Point	DISTRIBUTION	1989.0
③	Average	Distance From the Remote Terminal to the Serving Area Interface	SUB-PRIMARY	300.0
④	Average	Distance From the Central Office to the Fiber Hub or S.A.I.	PRIMARY	21485.0
⑤	Average	Distance From the Fiber Hub to the Remote Terminal	PRIMARY-EXTENSION	
LOOP LENGTH AT EACH COST BAND			DISTRIBUTION OF COST BANDS IN THE NETWORK	
BAND 1			BAND 1	
BAND 2			BAND 2	
BAND 3			BAND 3	
BAND 4			BAND 4	
BAND 5			BAND 5	
LAST 23774.0			LAST 1.0000	

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C:\123R24\LCATR030\SPAN		LOOP COST ANALYSIS TOOL		Belcore [®]
INPUT - PANT_CHAR Sheet 1 / 1		LOOP FACILITY INPUT		LCAT Rel : 1.0.4
COMPANY: CINCINNATI BELL TEL.		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS		Issued : 07/31/95
CITY / AREA: CINCINNATI	INVESTMENT YEAR : 1996	FOR		STUDY YR : 1996
STATE / PROV: OHIO	LOOP STUDY YEAR : 1996	SERVICE CLASS : BAND 2 - BUSINESS PBX		TEST CASE : 1
				LAST UPDATE : 28-Oct-96
				TIME : 13:20
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY				
LOOP LENGTH ① 23774 FEET				
DROP	DISTRIBUTION ②	FEEDER ④		
1989 FEET	SUB-PRIMARY ③	PRIMARY ⑤		
300.0 FEET	EXTENSION ⑥		21485 FEET PRIMARY ⑤	
FIBER DISTRIBUTION				
ONI	SERVING AREA INTERFACE	REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) REMOTE NODE (LOOP TRANSFER)		FIBER HUB
NETWORK INTERFACE	SERVICE ACCESS POINT	END OFFICE		

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C:\123R24\LCATR030\SPAN		LOOP COST ANALYSIS TOOL		Bellcore (R)	
INPUT - PLANT - CHAR. Sheet 1 of 2		LOOP FACILITY INPUT HELP SCREEN		LCAT 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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C:\123R24\LCATR030\SPAN		LOOP COST ANALYSIS TOOL		Belcore TM	
INPUT - PLANT_CHAR. Sheet 2 of 2		HELP SCREEN		LCAT Rev 1.0.4 Issued : 07/31/95	
COST DETAILS	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. 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.				
LOOP TOPOLOGY	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.				
***** 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\LCATR030\SPAN		LOOP COST ANALYSIS TOOL				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: 07/31/95	
COMPANY: 0		FOR				STUDY YR: 1996	
CITY / AREA: 0		INVESTMENT YEAR: 1996				TEST CASE: 1	
STATE / PROV: 0		LOOP STUDY YEAR: 1996				LAST UPDATE: 28-Oct-96	
		SERVICE CLASS: BAND 2 - BUSINESS PBX				TIME: 13:20	
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET A			
CAPACITY		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
[C]	idx	CUMULATIVE FEEDER LENGTH [D _A]	EFFECTIVE LENGTH BY PAIR FOOT [E _A]	CUMULATIVE FEEDER LENGTH [D _B]	EFFECTIVE LENGTH BY PAIR FOOT [E _B]	CUMULATIVE FEEDER LENGTH [D _U]	EFFECTIVE LENGTH BY PAIR FOOT [E _U]
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	
BURIED FIBER SUBTOTAL		0		BURIED FIBER SUBTOTAL		0	
UNDGRD FIBER SUBTOTAL		0		UNDGRD FIBER SUBTOTAL		0	
FIBER SUBTOTAL		0		FIBER SUBTOTAL		0	

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C:\123R24\LCATR030\SPAN		LOOP COST ANALYSIS TOOL				Bellcore			
PLANT C-AR - WORKSHEET 2B Sheet 2B / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR				LCAT Rel: 1.0.4 Issued: 07/31/95			
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR: 1996		TEST CASE: 1			
CITY/AREA: CINCINNATI		LOOP STUDY YEAR: 1996		LAST UPDATE: 28-Oct-96		TIME: 13:20			
STATE: OHIO		SERVICE CLASS: BAND 2 - BUSINESS PBX							
NETWORK CIRCUIT LAYOUT STUDIES				WORKSHEET B					
EFFECTIVE CHANNEL LENGTH BY CABLE PAIR FOOT [A] = [E] WKSH A / [F] WKSH C CUMULATIVE INVESTMENT BY CABLE CHANNEL FOOT [B] = [A] * [C] * UNIT INV FACILITY WKSH B									
For these sizes ...		CAPACITY	idx	AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
		[C]		[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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INPUT - PLANT CHAR.		LOOP FACILITY INPUT						LCAT Rel: 1.0.4		
Sheet 3a / 5		COPPER CABLE SPAN CHARACTERISTICS FOR THE FEEDER LAYER						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: 28-Oct-96		
		SERVICE CLASS: BAND 2 - BUSINESS						TIME: 13:29		
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A								
		CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES	CAPACITY 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									
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

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C:\123R24\LCATR030\SPAN		LOOP COST ANALYSIS TOOL				Bellcore					
PLANT CHAR - WORKSHEET 38 Sheet 3b / 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR				LCAT Rel : 1.0.4 Issued : 07/31/95					
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996				STUDY YR : 1996 TEST CASE : 1					
STATE: OHIO		SERVICE CLASS: BAND 2 - BUSINESS				LAST UPDATE: 28-Oct-96 TIME: 13:20					
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 LCATR030\SPAN		LOOP COST ANALYSIS TOOL						Bellcore			
PLANT CHAR - WORKSHEET 4B Sheet 4b - 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE DISTRIBUTION LAYER FOR						LCAT Ref: 1.0.4 Issued: 07/31/95			
COMPANY CINCINNATI BELL TEL. CITY / AREA CINCINNATI		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR: 1996 TEST CASE: 1			
STATE: OHIO		SERVICE CLASS: BAND 2 - BUSINESS						LAST UPDATE: 28-Oct-96 TIME: 13:20			
NETWORK CIRCUIT LAYOUT STUDIES											
WORKSHEET B											
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES	CAPACITY idx		26 GA.			24 GA.			22 GA.		
			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			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
UNDGRD CABLE SUBTOTAL			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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C:\123R24\LCATR03D\SPAN		LOOP COST ANALYSIS TOOL										Bellcore®	
INPUT - PLANT_CHAR		LOOP FACILITY INPUT										LCAT Rel: 1.0.4	
Sheet 5 / 5		DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX FOR										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 - BUSINESS PBX										LAST UPDATE: 28-Oct-96	
												TIME: 13:20	
FIBER BANDWIDTH													
TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL ☐ BIDIRECTIONAL													
LEVEL OF SERVICE: <u>NARBAND</u>													
BITRATE INDEX									WEIGHTED				
FIBER BANDWIDTH		1	2	3	4	5	6	7	SERVICE	PROTECTION	EQUIVALENT		
MUX DS3 MULTIPLIER		45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	LEVEL		CHANNELS		
VOICE GRADE CHANNELS		1	2	3	4	0	0	0	MULTIPLE	n:1	PER FO PAIR		
		672	1344	2016	2688	0	0	0	[SLM]	[E]	[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		
FOOTNOTES 1 Where Service Level Multiple EQUALS {1 for NARBAND, 28 for WIDEBAND, 672 for BRDBAND} TIMES {2 for Unidirectional and 1 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 / 1

COMPANY: 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: 28-Oct-96
TIME: 13:20

WORKSHEET DS

DIGITAL SIGNAL TABLE (digital bit)						
SELECT	MODE	HIERARCHY	DS1MULT	DS3MULT	VGE	MEDIA
0		DS1 1.5 Mbps	1	0.04		24 BIDIR 2WCU CA
1		DS1 1.5 Mbps	1	0.04		24 UNDIR FIBER CA
2	MODE3	VT1 1.5 Mbps	1	0.04		24 UNDIR FIBER
3		VT2 2 Mbps	1	0		UNDIR FIBER
4		ET 2 Mbps	1	0.06		30 BIDIR 2WCU CA
5		DS1C 3.2 Mbps	NA			48 BIDIR 2WCU CA
6	MODE1	DS1C 3.2 Mbps	2	0.07		48 BIDIR 2WCU CA
7	MODE2	VT3 3.2 Mbps	2	0.07		56 UNDIR FIBER
8		ET 3.2 Mbps	2	0		60
9		DS2 5.3 Mbps	4	0.14		72 BIDIR 2WCU CA
10		DS2 5.3 Mbps	NA	0		72 BIDIR 2WCU CA
11	MODE4	VT6 5.3 Mbps	4	0.14		84 UNDIR FIBER
12		E2 8 Mbps	4	0.25		120 BIDIR 2WCU CA
13		E3 34 Mbps	16	1		480
14	X	DS3 45 Mbps	26	1		572 BIDIR 2WCU CA
15		OC1 50 Mbps	26	1		572 UNDIR FIBER
16	X	ST51	90 Mbps	2		1344 UNDIR FIBER
17		DS4 135 Mbps	3			1344 BIDIR MW RADIO
18		DS4NA 135 Mbps	3			2016 UNDIR FIBER
19		DS4NA 139 Mbps	3			2016 BIDIR MW RADIO
20		E4 140 Mbps	3			2016 UNDIR FIBER
21		14M 139 Mbps	6			1920 UNDIR FIBER
22		PT140 139 Mbps	6			4032 BIDIR COAX
23	X	OC3 155 Mbps	3			4032 BIDIR COAX
24	X	OC3 180 Mbps	4			2016 UNDIR FIBER
25		417 Mbps	9			2688 UNDIR FIBER
26		OC9 466 Mbps	9			6048 UNDIR FIBER
27		OC12 560 Mbps	12			6048 UNDIR FIBER
28		565 Mbps	12			7680 UNDIR FIBER
29		1.2 Gbps	24			8064 UNDIR FIBER
30		1.7 Gbps	36			16128 UNDIR FIBER
31		OC24 1.8 Gbps	24			24192 UNDIR FIBER
32		2.5 Gbps	24			24192 UNDIR FIBER
33						34560 UNDIR FIBER
34						
35						
36						
OFFSET						
	0	1	2	3	4	5

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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 - BUSINESS
WORKSHEET F

STUDY YR.: 1996
TEST CASE:
LAST UPDATE: 28-Oct-96
TIME: 13:20

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

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ERROR MESSAG 0

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

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
46		
23,301	4,826	28,127
56		
0.4510		
0.5490		
1.0000		

4,512 7,095 27,360
23,301 30 27,360
0.4510 0.5490 1.0000
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**OHIO ONLY
REVISED JAN 1997 VERSION
BAND 3
BUSINESS PBX**

MCI Depo.
Ex. No 14
CDR 1126-97

INDEX

BAND 3

Business PBX

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