

Confidential Release

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Page Count 200

Part III Exhibit #3 & part of Exhibit #4

MCI Exhibits

1-48

C:\123R24\LCATR034\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore 9
TABLE = SPAN_INV SHEET 1A / 4		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR				LCAT Ver: 1.0.4
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1995				Issued: 07/31/95
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1995				STUDY YR: 1995
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN				TEST CASE: 1
						LAST UPDATE: 28-Oct-95
						TIME: 15:21
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE						
<u>Cable Sheath Sizes</u>		<u>CAPACITY</u>	Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size			
		INDEX	<u>AERIAL</u>	<u>BURIED</u>	<u>UNDERGROUND</u>	
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\LCATR034\FACILITY
TABLE - SPAN_INV
SHEET 1 / 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\LCATR034\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore (P)																																																							
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 1 - BUSINESS ISDN				LCAT Ver: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 26-Oct-96 TIME: 16:21																																																							
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		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>26 GA.</td><td>0.1500</td></tr> <tr><td>24 GA.</td><td>0.8500</td></tr> <tr><td>22 GA.</td><td>0.0000</td></tr> </table>		26 GA.	0.1500	24 GA.	0.8500	22 GA.	0.0000	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>0.1500</td><td>0.1500</td></tr> <tr><td>0.8500</td><td>0.8500</td></tr> <tr><td>0.0000</td><td>0.0000</td></tr> </table>		0.1500	0.1500	0.8500	0.8500	0.0000	0.0000	Update Cable Sheath Prices [Required with INDIVIDUAL Mode] on the FULL SET Input SHEET ? (Y / N) N If not, Update																																											
26 GA.	0.1500																																																												
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Cable Type Mix, By Gauge :		FEEDER SEGMENT		DISTRIBUTION SEGMENT		GUAGE																																																							
The Proportion of Copper Cable that is		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>26 GA. AERIAL</td><td>0.1200</td><td>0.5900</td></tr> <tr><td>BURIED</td><td>0.0000</td><td>0.1600</td></tr> <tr><td>UNDGRND</td><td>0.8800</td><td>0.2500</td></tr> <tr><td>24 GA. AERIAL</td><td>0.1200</td><td>0.5900</td></tr> <tr><td>BURIED</td><td>0.0000</td><td>0.1600</td></tr> <tr><td>UNDGRND</td><td>0.8800</td><td>0.2500</td></tr> <tr><td>22 GA. AERIAL</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>BURIED</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>UNDGRND</td><td>0.0000</td><td>0.0000</td></tr> </table>		26 GA. AERIAL	0.1200	0.5900	BURIED	0.0000	0.1600	UNDGRND	0.8800	0.2500	24 GA. AERIAL	0.1200	0.5900	BURIED	0.0000	0.1600	UNDGRND	0.8800	0.2500	22 GA. AERIAL	0.0000	0.0000	BURIED	0.0000	0.0000	UNDGRND	0.0000	0.0000	Average Unit Investment for Copper Cable Installed as		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>26 GA. AERIAL</td><td>\$ 0.0121</td><td>\$ 0.0397</td></tr> <tr><td>BURIED</td><td>\$ 0.0186</td><td>\$ 0.0657</td></tr> <tr><td>UNDGRND</td><td>\$ 0.0109</td><td>\$ 0.0569</td></tr> <tr><td>24 GA. AERIAL</td><td>\$ 0.0121</td><td>\$ 0.0397</td></tr> <tr><td>BURIED</td><td>\$ 0.0186</td><td>\$ 0.0657</td></tr> <tr><td>UNDGRND</td><td>\$ 0.0109</td><td>\$ 0.0569</td></tr> <tr><td>22 GA. AERIAL</td><td>\$ 0.0000</td><td>\$ 0.0000</td></tr> <tr><td>BURIED</td><td>\$ 0.0000</td><td>\$ 0.0000</td></tr> <tr><td>UNDGRND</td><td>\$ 0.0000</td><td>\$ 0.0000</td></tr> </table>		26 GA. AERIAL	\$ 0.0121	\$ 0.0397	BURIED	\$ 0.0186	\$ 0.0657	UNDGRND	\$ 0.0109	\$ 0.0569	24 GA. AERIAL	\$ 0.0121	\$ 0.0397	BURIED	\$ 0.0186	\$ 0.0657	UNDGRND	\$ 0.0109	\$ 0.0569	22 GA. AERIAL	\$ 0.0000	\$ 0.0000	BURIED	\$ 0.0000	\$ 0.0000	UNDGRND	\$ 0.0000	\$ 0.0000
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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 the ADJUST input in the worksheet.																																																													

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C:\123R2\LCATR034\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: 07/31/96	
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 ISDN		LAST UPDATE: 28-Oct-96 TIME: 15:21	

COPPER CABLE INVESTMENT REFERENCE TABLE

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

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

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C:\123R24\LCATR034\FACILITY
TABLE - SPAN_INV
SHEET 2 / 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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LCAT

INPUT SCREEN

Page -2-

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C:\123R24\LCATR034\FACILITY.WK1

LOOP COST ANALYSIS TOOL

Bellcore (R)

SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTION'S MELDING
WORKSHEET ALCAT Ver: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 28-Oct-96
TIME: 15:21COMPANY: CINCINNATI BELL TEL.
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 1 - BUSINESS ISDN

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...ds)	PER FOOT INVESTMENT (pf...ds)	CABLE GAUGE MIX (copper...dst)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR :	[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.	0.590000	\$ 0.039700	0.1500	0.088500	\$ 0.005955
BURIED @ 26 GA.	0.160000	\$ 0.065700	0.1500	0.024000	\$ 0.009855
UNDGRND @ 26 GA.	0.250000	\$ 0.056900	0.1500	0.037500	\$ 0.008535
AERIAL @ 24 GA.	0.590000	\$ 0.039700	0.8500	0.501500	\$ 0.033745
BURIED @ 24 GA.	0.160000	\$ 0.065700	0.8500	0.138000	\$ 0.055845
UNDGRND @ 24 GA.	0.250000	\$ 0.056900	0.8500	0.212500	\$ 0.046365
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 :	[F=sum(Dtype)]	
AERIAL	0.590000	
BURIED	0.160000	
UNDERGRND	0.250000	

Check = 1.000000

--- TABLE 4 ---

PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
[G=sum(Etype)]	
\$ 0.039700	
\$ 0.065700	
\$ 0.056900	

Check = 1.00

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FOOTNOTES

C:\123R24\LCATR034\FACILITY.WK1		LOOP COST ANALYSIS TOOL			Bellcore (P)	
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR			LCAT Ver: 1.0.4 Issue Date: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: COPPER CABLE			STUDY YR: 1996	
CITY / AREA: CINCINNATI		DESIGN TYPE: SUBFEEDER SEGMENT			TEST CASE: 1996	
STATE/PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS 1SON			DATE: 1	
					LAST UPDATE: 26-Oct-96	
					TIME: 15:21	
DATA DESC.		(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...fd)	PER FOOT INVESTMENT (pf...fd)	CABLE GAUGE MIX (copper...fd)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:		[A]	[B]	[C]	[D=A*C]	[E=B*C]
AERIAL @ 26 GA.		0.120000	\$ 0.012100	0.1500	0.018000	\$ 0.001815
BURIED @ 26 GA.		0.000000	\$ 0.016600	0.1500	0.000000	\$ 0.002490
UNDERGRND @ 26 GA.		0.880000	\$ 0.010900	0.1500	0.132000	\$ 0.001635
AERIAL @ 24 GA.		0.120000	\$ 0.012100	0.8500	0.102000	\$ 0.010285
BURIED @ 24 GA.		0.000000	\$ 0.016600	0.8500	0.000000	\$ 0.014110
UNDERGRND @ 24 GA.		0.880000	\$ 0.010900	0.8500	0.748000	\$ 0.009265
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
UNDERGRND @ 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 @ 26 GA.	USED GAUGES
CHARACTERISTICS FOR:		[F=sum(D*Type)]	[G=sum(E*Type)]		[H=sum(F*Type)]	
AERIAL		0.120000	\$ 0.012100		0.000000	
BURIED		0.000000	\$ 0.016600		0.000000	
UNDERGRND		0.880000	\$ 0.010900		0.000000	
Check =		1.000000	Check =		0.000000	
FOOTNOTES						

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C:\123R24\LCATR034\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.		INVESTMENT YEAR: 1996		STUDY YR: 1996
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1
STATE/PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN		LAST UPDATE: 28-Oct-96 TIME: 15:21
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 30 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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CA123R24\LCATR034\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN

Belcore (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 = (# of xmsnpr + # of suptpr) / vgcheqv

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CA123R24\LCATR034\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore (R)
SPAN INV - WORKSHEET Sheet 3 / 3		CUPPER CABLE DISTRIBUTIONS WELDING WORKSHEET B		LCAT Ref: T.D.4 Issue Date: 07/31/95 STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 28-Oct-96 TIME: 15:21
COMPANY: CINCINNATI BELL TEL. CITY / AREA: OHIO STATE / PROV: CINCINNATI		FOR FACILITY TYPE: COPPER CABLE for DLC DESIGN TYPE: FEEDER SEGMENT SERVICE CLASS: BAND 1 - BUSINESS ISDN		
MELDED CABLE INVESTMENT PER PAIR FOOT				
LINE REPEATER EQUIPMENT				
INVESTMENT DEVELOPMENT FOR:	REPEATER SPACING	UNIT REPEATER INVESTMENT	REPEATER INVEST. PER FOOT	
DESCRIPTION	[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	
COPPER CABLE UNIT INVESTMENT				
FOR DLC Gauge: 24.00				
- TABLE 4 -				
ADJUSTED PAIR / FOOT INVESTMENT	PAIR / FOOT INVESTMENT BY CODE BY GAUGE 2 * (PFlogg) (U) [D]	REPEATER BY GAUGE (RPTR qgg) [E=C]	WORKING CHANNEL INVESTMENT / FOOT (AOLCPFlogg) [F=D+E]	WORKING CHANNEL INVESTMENT / FOOT (AOLCPFlogg) [G=D+E]
DESCRIPTION				
AERIAL @ 26 GA.	\$ 0.024200	\$ 0.000000	\$ 0.024200	\$ 0.024200
BURIED @ 26 GA.	\$ 0.033200	\$ 0.000000	\$ 0.033200	\$ 0.033200
UNDGRND @ 26 GA.	\$ 0.021800	\$ 0.000000	\$ 0.021800	\$ 0.021800
AERIAL @ 24 GA.	\$ 0.024200	\$ 0.000000	\$ 0.024200	\$ 0.024200
BURIED @ 24 GA.	\$ 0.033200	\$ 0.000000	\$ 0.033200	\$ 0.033200
UNDGRND @ 24 GA.	\$ 0.021800	\$ 0.000000	\$ 0.021800	\$ 0.021800
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\LCATR034\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore TM								
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 1 - BUSINESS ISDN		LAST UPDATE: 28-Oct-96 TIME: 15:21								
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="display: inline-table; vertical-align: top;"> <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="display: inline-table; vertical-align: top;"> <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="display: inline-table; vertical-align: top;"> <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="display: inline-table; vertical-align: top;"> <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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\\LCATR034\FACILITY
SPAN_INV
14

HELP SCREEN

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

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

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

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

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

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

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C:\123R24\LCATR034\FACTORS		LOOP COST ANALYSIS TOOL		Belcore
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 YEAR: 1996	STUDY YR: 1996
CITY / AREA: CINCINNATI		TEST CASE: 1		LAST UPDATE: 17-Jan-97
STATE / PROV: OHIO		SERVICE CLASS: BAND 1 - BUSINESS ISDN		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	0.2932
BURIED CABLE (FIBER)	1.0000	0.2724
UNDERGROUND (FO) CA.	1.0000	0.2889
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\LCATR034\INVEST		LOOP COST ANALYSIS TOOL				Belcore (R)	
TABLE - EQUIP_INV Sheet 1 of 1 COMPANY: CINCINNATI BELL TEL CITY / AREA : CINCINNATI STATE / PROV : OHIO		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR INVESTMENT YEAR: 1996 SERVICE LEVEL: NARBAND SERVICE CLASS: BAND 1 - BUSINESS ISDN				LCAT Rel : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE: 25-Oct-96 15:23	
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				\$ 0.00			
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	\$ 381.90	\$ 39.17	\$ 348.82	\$ 141.70
For an Integrated DLC Equipment Arrangement			\$ 0.00	\$ 0.00	\$ 0.00	\$ 348.82	\$ 141.70
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :							
1. For a Hub with nonFiber Extensions or nonHub Arrangement			\$ 49.18		\$ 3.88	\$ 53.79	\$ 2.01
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							\$ 0.00
[Unit investment denotes average weighted unit E.F. investment at DS0, DS1, or DS3 service equiv.]							

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C:\123R24\LCATR034\INVEST.WK1

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

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

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

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CA123R24\LCATR034\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		LCAT Ref: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-95 TIME: 15:24
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	0.7000	
Copper Feeder Cable	0.6000	CO DLC Channel Unit	0.7000	
Copper Distribution Cable	0.3500	REM DLC Channel Unit	0.7000	
Copper Entrance Cable	1.0000	CO DLC Multiplex System	0.7000	
Copper Building Cable	0.3500	REM DLC Multiplex System	0.7000	
Copper Building Terminal	0.3500	CO Digital Signal Crossconnect Bay	0.7000	
		REM Digital Signal Crossconnect Bay	0.7000	
ALL Fiber Cables, or		ALL Fiber Optic Multiplex Equip., or	1.0000	
Fiber Feeder Cable	0.3300	CO Fiber Optic Channel Unit	1.0000	
Fiber Distribution Cable		REM Fiber Optic Channel Unit	1.0000	
Fiber Entrance Cable		CO Fiber Optic Multiplex System	1.0000	
Fiber Building Cable		REM Fiber Optic Multiplex System	1.0000	
Fiber Building Terminal		CO Lightguide Terminating Equipment	1.0000	
		REM Lightguide Terminating Equipment	1.0000	
Poles	1.0000	Remote Housing: CEV	1.0000	
Conduit	1.0000	PC Hdr	1.0000	
		Comm. Svc Cap.	1.0000	

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN**Belcore** (R)

LCAT Rel: 1.0.4
Issued: 3/31/95

NOTE :

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

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

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C:\123R24\LCATR034\LOADING		LOOP COST ANALYSIS TOOL		Bellcore [®]																																																																					
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 1 - BUSINESS ISDN		LCAT Ver: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 28-Oct-96 TIME: 15:24																																																																					
SEGMENT DISTRIBUTION FEEDER ② use <u>DEFAULT</u> POLE LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Copper Cable Pole Investment Factor</td> <td style="text-align: center;">0.2530</td> <td style="text-align: center;">0.2530</td> </tr> <tr> <td>Copper Cable Pole Unit Investment</td> <td></td> <td></td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>Fiber Cable Pole Investment Factor</td> <td style="text-align: center;">0.1965</td> <td style="text-align: center;">0.1965</td> </tr> <tr> <td>Fiber Cable Pole Unit Investment</td> <td></td> <td></td> </tr> </table> CONDUIT LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Copper Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5165</td> <td style="text-align: center;">0.5165</td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5232</td> <td style="text-align: center;">0.5232</td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </table> DROP WIRE (DW) INVESTMENT ADJUSTMENT: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>The Cable PFI is being Adjusted for DW ?</td> <td style="text-align: center;">NO</td> </tr> <tr> <td>Aerial Cable</td> <td></td> </tr> <tr> <td>Buried Cable</td> <td></td> </tr> <tr> <td>Underground Cable</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;">use <u>DEFAULT</u> ① ②</td> </tr> <tr> <td colspan="2" style="text-align: center;">for: <u>CENT. OFC.</u> REMOTE SITE</td> </tr> </table> LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or <u>ALL</u> ①</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> </table> BUILDING LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or <u>ALL</u> ①</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> </table> MISC. EQUIPMENT POWER LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Other or <u>ALL</u> ①</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> </table>					Copper Cable Pole Investment Factor	0.2530	0.2530	Copper Cable Pole Unit Investment						Fiber Cable Pole Investment Factor	0.1965	0.1965	Fiber Cable Pole Unit Investment			Copper Cable Conduit Investment Factor	0.5165	0.5165	Copper Cable Conduit Unit Investment						Fiber Cable Conduit Investment Factor	0.5232	0.5232	Fiber Cable Conduit Unit Investment			The Cable PFI is being Adjusted for DW ?	NO	Aerial Cable		Buried Cable		Underground Cable		use <u>DEFAULT</u> ① ②		for: <u>CENT. OFC.</u> REMOTE SITE		Other or <u>ALL</u> ①	0.0056	0.0056	Digital Loop Carrier	0.0056	0.0056	Fiber Optic Mux	0.0056	0.0056	Other or <u>ALL</u> ①	0.1316	0.1316	Digital Loop Carrier	0.1316	0.1316	Fiber Optic Mux	0.1316	0.1316	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 (R)

LCAT Rel : 1.0.4

Issued : 3/31/95

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

NOTES

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

2 THE VALUES IN THIS TABLE REPRESENT DETAIL FACTORS (CATEGORY 2 VALUES).
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ENTRIES NEGATE CATEGORY 1 VALUES BY THE SYSTEM.

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C:\123R24\LCATR034\SPAN		LOOP COST ANALYSIS TOOL		Belloore (P)
INPUT - PLANT_CHAR. Sheet 1 / 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 1 - BUSINESS ISDN		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 25-Oct-96 TIME: 15:27
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 21320.0		
②	Average Distance From the Serving Area Interface to the Service Access Point	DISTRIBUTION 2119.0		
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 18901.0		
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	21320.0	LAST	1.0000	1.0000 Hint

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C:\123R24\LCATR034\SPAN		LOOP COST ANALYSIS TOOL		Balloore TM	
INPUT - PLANT_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		FOR		STUDY YR : 1996	
STATE / PROV: OHIO		INVESTMENT YEAR : 1996		TEST CASE : 1	
		LOOP STUDY YEAR : 1996		LAST UPDATE : 26-Oct-96	
		SERVICE CLASS : BAND 1 - BUSINESS ISDN		TIME : 15:27	
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY					
LOOP LENGTH ① 21320 FEET					
DROP DISTRIBUTION ② FEEDER ③					
2119 FEET SUB-PRIMARY ④ 300.0 FEET EXTENSION ⑤ 17351 FEET					
FIBER DISTRIBUTION REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) REMOTE NODE (LOOP TRANSFER) FIBER HUB					
NETWORK INTERFACE SERVICE ACCESS POINT SERVING AREA INTERFACE END OFFICE					

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CA123P24\LCAT0034\SPAN	LOOP COST ANALYSIS TOOL	Bellcore SM
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 capacity transport. The range of multiplexers goes from 1.5 Mbps through 1.7 Gbps and designates the mix of usage levels to 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\LCATR034\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - PLANT_CRAH Sheet 2 of 2		HELP SCREEN		LCAT Ver: 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 [8] 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 designed for 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\LCATR034\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 INVESTMENT YEAR: 1996				STUDY YR: 1996	
CITY / AREA: 0		LOOP STUDY YEAR: 1996				TEST CASE: 1	
STATE / PROV: 0		SERVICE CLASS: BAND 1 - BUSINESS ISDN				LAST UPDATE: 28-Oct-96	
						TIME: 15:27	
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\LCATR034\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (R)			
PLANT CHAR - WORKSHEET 28 Sheet 28 / 5		LOOP FACILITY INPUT FIBER OPTIC CABLE SPAN INVESTMENT FOR THE FEEDER LAYER				LCAT Rel: 1.0.4 Issued: 07/31/96			
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 ISDN				LAST UPDATE: 28-Oct-96			
TIME: 15:27									
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	

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CA123R24\LCATR034\SPAN		LOOP COST ANALYSIS TOOL						Bellcore		
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.		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: 28-Oct-96		
TIME: 15:27										
NETWORK CIRCUIT LAYOUT STUDIES										
WORKSHEET A										
CUMULATIVE LENGTHS BY CABLE PAIR FOOT										
CABLE SHEATH SIZES	CAPACITY 10X	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									
60 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\LCATR034\SPAN		LOOP COST ANALYSIS TOOL						Bellore			
PLANT CHAR - WORKSHEET 3B 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 STATE: OHIO		INVESTMENT YEAR: 1995 LOOP STUDY YEAR: 1995						STUDY YR: 1995 TEST CASE: 1 LAST UPDATE: 25-Oct-95 TIME: 15:27			
SERVICE CLASS: BAND 1 - 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
60 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\LCATR034\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		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996 TEST CASE : 1			
STATE: OHIO		SERVICE CLASS: BAND 1 - BUSINESS						LAST UPDATE: 28-Oct-95			
TIME: 15:27											
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
60 COPPER CABLE	40 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100 COPPER CABLE	50 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140 COPPER CABLE	70 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200 COPPER CABLE	100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400 COPPER CABLE	200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600 COPPER CABLE	300 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800 COPPER CABLE	400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200 COPPER CABLE	600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1800 COPPER CABLE	900 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400 COPPER CABLE	1200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000 COPPER CABLE	1500 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600 COPPER CABLE	1800 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200 COPPER CABLE	2100 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4800 COPPER CABLE	2400 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5400 COPPER CABLE	2700 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6000 COPPER CABLE	3000 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7200 COPPER CABLE	3600 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8400 COPPER CABLE	4200 pr	\$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AERIAL CABLE SUBTOTAL			0.00			0.00			0.00		
BURIED CABLE SUBTOTAL				0.00			0.00			0.00	
UNDGRD CABLE SUBTOTAL					0.00			0.00			0.00

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LOOP COST ANALYSIS TOOL										Bellcore [®]																																																																																																																								
CA123R24\LCATR034\SPAN		LOOP FACILITY INPUT						LCAT Rel: 1.0.4																																																																																																																										
INPUT - PLANT CHAR. Sheet 5 / 5		DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX						Issued: 07/31/85																																																																																																																										
COMPANY: CINCINNATI BELL TEL		FOR						STUDY YR: 1988																																																																																																																										
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1998						TEST CASE: 1																																																																																																																										
STATE / PROV: OHIO		LOOP STUDY YEAR: 1998						LAST UPDATE: 28-Oct-88																																																																																																																										
		SERVICE CLASS: BAND 1 - BUSINESS ISDN						TIME: 1527																																																																																																																										
FIBER BANDWIDTH																																																																																																																																		
TRANSMISSION FLOW IS: ☒ UNIDIRECTIONAL																																																																																																																																		
☐ BIDIRECTIONAL																																																																																																																																		
LEVEL OF SERVICE: NARBAND																																																																																																																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">BITRATE INDEX</th> <th style="width: 10%;">1</th> <th style="width: 10%;">2</th> <th style="width: 10%;">3</th> <th style="width: 10%;">4</th> <th style="width: 10%;">5</th> <th style="width: 10%;">6</th> <th style="width: 10%;">7</th> <th style="width: 10%;">SERVICE LEVEL</th> <th style="width: 10%;">PROTECTION</th> <th style="width: 10%;">WEIGHTED EQUIVALENT CHANNELS</th> </tr> </thead> <tbody> <tr> <td>FIBER BANDWIDTH</td> <td>45 Mbps</td> <td>190 Mbps</td> <td>155 Mbps</td> <td>180 Mbps</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td></td> <td></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></td> <td></td> <td></td> </tr> <tr> <td>VOICE GRADE CHANNELS</td> <td>672</td> <td>1344</td> <td>2016</td> <td>2688</td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="8"></td> <td style="text-align: center;">MULTIPLE (SLM)</td> <td style="text-align: center;">N : 1 (E)</td> <td style="text-align: center;">PER FO PAIR (F)</td> </tr> <tr> <td>FEEDER - PRIMARY</td> <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> <tr> <td>FEEDER - EXTENSION</td> <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> <tr><td colspan="11"> </td></tr> <tr><td colspan="11"> </td></tr> <tr><td colspan="11"> </td></tr> <tr><td colspan="11"> </td></tr> </tbody> </table>										BITRATE INDEX	1	2	3	4	5	6	7	SERVICE LEVEL	PROTECTION	WEIGHTED EQUIVALENT CHANNELS	FIBER BANDWIDTH	45 Mbps	190 Mbps	155 Mbps	180 Mbps	0	0	0				MUX DS3 MULTIPLIER	1	2	3	4	0	0	0				VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0												MULTIPLE (SLM)	N : 1 (E)	PER FO PAIR (F)	FEEDER - PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04	FEEDER - EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04																																												
BITRATE INDEX	1	2	3	4	5	6	7	SERVICE LEVEL	PROTECTION	WEIGHTED EQUIVALENT CHANNELS																																																																																																																								
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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 {1 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: OHIOLCAT Rel: 1.0.4
Issued: 07/31/95STUDY YR: 1995
TEST CASE: 1
LAST UPDATE: 28-Oct-95
TIME: 15:27

WORKSHEET DS

DIGITAL SIGNAL TABLE (dissg.tbl)						
SELECT	MODE	HIERARCHY	ENDWIDTH	DS1MULT	DS3MULT	VGE MEDIA
0						
1		DS11.5 Mbps		1	0.04	24 BIDIR 2WCU CA
2	MODE3	DS11.5 Mbps		1	0.04	24 UNDIR 4WCU CA
3		VT1.511.5 Mbps		1	0.04	24 UNDIR FIBER
4		VT12 Mbps		1	0	UNDIR FIBER
5		ET12 Mbps		1	0.06	30 BIDIR 2WCU CA
6	MODE1	DS1C13.2 Mbps	NA			48 BIDIR 2WCU CA
7	MODE2	DS1C13.2 Mbps		2	0.07	48 BIDIR 2WCU CA
8		VT1313.2 Mbps		2	0.07	58 UNDIR FIBER
9		14 Mbps		2	0	60
10		US216.3 Mbps		4	0.14	72 BIDIR 2WCU CA
11	MODE4	US216.3 Mbps	NA		0	72 BIDIR 2WCU CA
12		VT1616.3 Mbps		4	0.14	84 UNDIR FIBER
13		E216 Mbps		4	0.25	120 BIDIR 2WCU CA
14		E3134 Mbps		16		480
15	X	US3145 Mbps		28	1	672 BIDIR 2WCU CA
16	STST	OC1150 Mbps		28	1	672 UNDIR FIBER
17	X	90 Mbps			2	1344 UNDIR FIBER
18		90 Mbps			2	1344 BIDIR MW RADIO
19		US41135 Mbps			3	2016 UNDIR FIBER
20		135 Mbps			3	2016 BIDIR MW RADIO
21		US4NAT139 Mbps			3	2016 UNDIR FIBER
22		E41140 Mbps			3	1920 UNDIR FIBER
23		14M 139 Mbps			6	4032 BIDIR COAX
24		PT40 139 Mbps			6	4032 BIDIR COAX
25	X	OC31155 Mbps			3	2016 UNDIR FIBER
26	X	180 Mbps			4	2688 UNDIR FIBER
27		417 Mbps			9	6048 UNDIR FIBER
28		OC91468 Mbps			9	6048 UNDIR FIBER
29		OC121560 Mbps			12	7680 UNDIR FIBER
30		568 Mbps			12	8064 UNDIR FIBER
31		1.2 Gbps			24	16128 UNDIR FIBER
32		1.7 Gbps			36	24192 UNDIR FIBER
33		OC2411.8 Gbps			24	24192 UNDIR FIBER
34		2.5 Gbps			24	34560 UNDIR FIBER
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 FOR		LCAT Rel: 1.0.4 Issued: 07/31/96	
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: 28-Oct-96	
		WORKSHEET F		TIME: 15:27	
[A]	DISTANCE INCREMENTS:	0.4 MILE BETWEEN BANDS		[R]	ROUTE TO AIR RATIO: 1.539947
[B]	NUMBER OF BANDS:	0 TO BE CARRIED INTO THE STUDY		[K]	UNIT MILE / FEET CONSTANT: 1320
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*RC]
[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 SQRT((F_{CURR}²/2) + (F_{PREV}²/2))

ERROR MESSAG 0

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C:\123R24\LCATR034\SPAN		LOOP COST ANALYSIS TOOL										Belcore (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: 15:27	
Sub Feeder Allocation Table													
OFFSET 0 1 2 3 4 5 6 7 8 9 10													
SUB FEEDER ALLOCATION TABLE SEQUENCE RANGE													
COLOCATED FT AND CP, where dcldepl = 18000 NO COLOCATION dstopo = BUS COLOCATED Fdstopo = BUS (B) distspa 2119 dstopo = STAF dstopo = BUS dstopo = STAF dstopo = BUS nom_range cur - dissubfeedprfeedersubfeed prfeedersubfeedprfeedersubfeed prfeedersubfeedprfeedersubfeed - [C] [D=C-I] [E] [F=D-E] [G] [H=D-G] [I] [J=C-I] [K] [L=C-K] [M=A-C]													
500	0	0	0	0	0	0	0	0	0	0	0	0	21320
1000	0	0	0	0	0	0	0	0	0	0	0	0	20820
2000	0	0	0	0	0	0	0	0	0	0	0	0	20320
3000	881	881	0	881	0	0	0	0	0	0	0	0	19320
4000	1881	1881	0	1881	0	0	0	0	0	0	0	0	18320
5000	2881	2881	0	2881	0	0	0	0	0	0	0	0	17320
6000	3881	3881	0	3881	0	0	0	0	0	0	0	0	16320
7000	4881	4881	0	4881	0	0	0	0	0	0	0	0	15320
8000	5881	5881	0	5881	0	0	0	0	0	0	0	0	14320
9000	6881	6881	0	6881	0	0	0	0	0	0	0	0	13320
10000	7881	7881	0	7881	0	0	0	0	0	0	0	0	12320
11000	8881	8881	0	8881	0	0	0	0	0	0	0	0	11320
12000	9881	9881	0	9881	0	0	0	0	0	0	0	0	10320
13000	10881	10881	0	10881	0	0	0	0	0	0	0	0	9320
14000	11881	11881	0	11881	0	0	0	0	0	0	0	0	8320
15000	12881	12881	0	12881	0	0	0	0	0	0	0	0	7320
16000	13881	13881	0	13881	0	0	0	0	0	0	0	0	6320
17000	14881	14881	0	14881	0	0	0	0	0	0	0	0	5320
18000	15881	7940.5	7940.5	0	15881	9000	9000	0	18000	0	0	0	4320
19000	16881	8440.5	8440.5	0	16881	9500	9500	0	18000	0	0	0	3320
20000	17881	8940.5	8940.5	0	17881	10000	10000	0	20000	0	0	0	2320
80000	77881	15881	62000	1000	78881	15881	64119	1000	79080	0	0	0	-58680

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^{OST} Equals CUR_LPLGTH - NOM_RANGE difference
- > DISTSPAN and < DLCDLPL, then CUR_SEGLGTH^{STOR} Equals CUR_LPLGTH - NOM_RANGE difference
- = > DLCDLPL, then CUR_SEGLGTH^{PROF} Equals CUR_LPLGTH - NOM_RANGE difference

CUR_SEGLGTH - Calculation Assumptions

The DISTSPAN can not exceed the DLCDLPL value input on CRITERIA

Therefore, set the DLCDLPL at the DISTSPAN to get an All-Fiber Network.

OHIO ONLY
3 Geographic Areas
ISDN

10/10/96 Revised

Band 1

		Residence			Business		
		Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
		A	B	C	D	E	F
1	0-18,000	8,298	1,390	9,688	7,007	971	7,977
2	# Of Entries	144			285		
3	18,001-INFINITY	17,880	2,925	20,805	19,201	2,119	21,320
4	# Of Entries	16			8		
5	Ratio						
6	0-18,000	0.8369			0.9378		
7	18,001-INFINITY	0.1631			0.0622		
		1.0000			1.0000		

Band 2

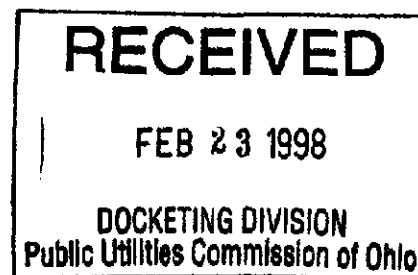
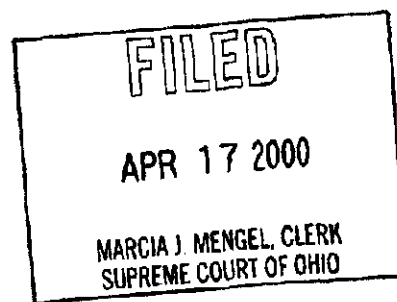
8	0-18,000	8,444	2,097	10,541	7,015	1,136	8,151
9	# Of Entries	95			107		
10	18,001-INFINITY	23,425	2,646	26,071	24,110	2,049	26,159
11	# Of Entries	44			57		
12	Ratio	0.6835			0.6524		
13	0-18,000	0.3165			0.3476		
14	18,001-INFINITY	1.0000			1.0000		

Band 3

15	0-18,000	4,845	1,981	6,825	4,512	1,095	5,608
16	# Of Entries	46			41		
17	18,001-INFINITY	23,301	4,826	28,127	23,887	3,479	27,360
18	# Of Entries	56			30		
19	Ratio	0.4510			0.5775		
20	0-18,000	0.5490			0.4223		
21	18,001-INFINITY	1.0000			1.0000		

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00-0507



EX. 200.
4

OHIO ONLY
REVISED JAN 1997 VERSION
BAND 2
BUSINESS ISDN

MCI Depo.
EX-NO 4
CDR 112697

INDEX

BAND 2

Business ISDN

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

C:\123R24\LCATR035\RESULTS1			LOOP COST ANALYSIS TOOL				Bellcore [®]	
OUTPUT - REPORT D			PROSPECTIVE INVESTMENT SUMMARY REPORT				LCAT Rel: 1.0.4	
SHEET 1 of 1							Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL			CIRCUIT DESIGN: TOTAL TECHNOLOGIES				STUDY YR: 1995	
CITY / AREA: CINCINNATI			LOOP SPAN DIVISION: ALL LOOP SPANS				TEST CASE: 1	
STATE / PROV: OHIO			SERVICE CLASS: BAND 2 - BUSINESS ISDN				RUN DATE: 23-Jan-97	
JOB IDENT: CINCINNATI			TOTAL LOOP LENGTH: 8151 FEET				TIME: 10:43	

Loop Span Set Weighting: ☐ 1		UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY						WEIGHTED
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		
SEG. NAME		PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP		
EQPT								
PLANT CODE								
ITEM DESCRIPTION		SEG.LGTH.						

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

<u>DIRECT RESOURCES</u>							
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 1.36	\$ 2.88	\$ 0.00	\$ 4.2400
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.14	\$ 2.07	\$ 0.00	\$ 2.2100
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.71	\$ 0.29	\$ 0.00	\$ 3.0000
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.32	\$ 0.69	\$ 0.00	\$ 1.0100
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.95	\$ 0.10	\$ 0.00	\$ 1.0600

SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 5.49	\$ 6.03	\$ 2.45	\$ 13.97
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C:\123R24\LCATR035\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 ISDN 0 - 18000 FEET INTRASTATE**

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

BASIS	NETWORK	TEST CASE	1	LAST SAVE
FR / DS	FLAT RATE	#BANDS	0	17-Jan-97
SVC LEVEL	NARBAND	#CKTS	1	17:00
CST METH	UN INCR	INV LEVEL	ANNCOST	TIME

.....your report is ready for viewing

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

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55C:\123R24\LCATR035\RESULTS1
OUTPUT - WORKSHEET D
SHEET 1 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Belcore®

LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 10:43COMPANY: 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 ISDA
TOTAL LOOP LENGTH: 8151 FEET

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

PLANT NAME	FEEDER	DISTRIBUTION	NETWORK	TOTAL	TOTAL	
SEQ. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	LOOP
EQPT						
PLANT						
CODE						
ITEM DESCRIPTION						
SHARED RESOURCES						
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
DIRECT RESOURCES						
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 1.36	\$ 2.88	\$ 4.24	\$ 4.24
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.14	\$ 2.07	\$ 2.21	\$ 2.21
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 2.71	\$ 0.29	\$ 3.00	\$ 3.00
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
POLE LINE	1C	\$ 0.00	\$ 0.32	\$ 0.69	\$ 1.01	\$ 1.01
CONDUIT	4C	\$ 0.00	\$ 0.96	\$ 0.10	\$ 1.06	\$ 1.06
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 5.49	\$ 6.03	\$ 13.97
CIRCUIT DESIGN SUMMARY					\$ 2.45	\$ 13.97

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GC:\123R24\LCATR035\RESULTS1
OUTPUT - WORKSHEET D
SHEET 2 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
DATE: 23-Jan-97
TIME: 10:43COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 2 CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - BUSINESS ISDN
TOTAL LOOP LENGTH: 8151 FEET

Circuit Design Mix: 0.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

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

EQPT
CODE

PLANT

ITEM DESCRIPTION

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 - LOW CAP TERM	257C
CO EQPT - LOW CAP CHAN	257C
CO EQPT - HI CAP TERM	857C
CO EQPT - HI CAP 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

\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
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\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0

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

\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0

SPAN SUMMARY

CIRCUIT DESIGN SUMMARY

\$0	\$0
\$0	\$0

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C:\123R24\LCATR035\RESULTS1
OUTPUT - WORKSHEET D
SHEET 3 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: MELDED CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - BUSINESS ISDA
TOTAL LOOP LENGTH: 8151 FEET

LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1995
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 10:43

Bellcore^(R)

Technology Type Mix : 0.0000								UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY		TECHNOLOGY	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		WEIGHTED		TOTAL	
SEQ. NAME		PRIMARY		EXTENSION		SUB-		INTERFACE		LOOP	
EQPT											
PLANT		CODE									
ITEM DESCRIPTION											
SHARED RESOURCES											
8	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
9	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
10	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
12	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
14	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
16	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
18	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
20	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
22	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
24	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
25	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
26	POLE LINE	1C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
DIRECT RESOURCES											
30	LAND	20C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 1.36	\$ 2.88	\$ 0.00	\$ 4.24	\$ 4.24	\$ 0.0000	
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.14	\$ 2.07	\$ 0.00	\$ 2.21	\$ 2.21	\$ 0.0000	
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.71	\$ 0.29	\$ 0.00	\$ 3.00	\$ 3.00	\$ 0.0000	
37	CO EQPT - P GAIN TERM	257C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
39	CO EQPT - FO MUX TERM	857C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
41	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
43	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
45	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 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	\$ 0.00	\$ 0.0000	
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
48	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.32	\$ 0.69	\$ 0.00	\$ 1.01	\$ 1.01	\$ 0.0000	
49	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.96	\$ 0.10	\$ 0.00	\$ 1.06	\$ 1.06	\$ 0.0000	
SPAN SUMMARY			\$ 0.00	\$ 0.00	\$ 5.49	\$ 6.03	\$ 2.45	\$ 13.97	\$ 13.97	\$ 0.00	
TECHNOLOGY DESIGN SUMMARY									\$ 13.97		

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C:\123R24\LCATR035\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: 1996	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION:		ALL LOOP SPANS		TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS:		BAND 2 - BUSINESS ISDN		RUN DATE: 23-Jan-97	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH:		8151 FEET		TIME: 10:43	

Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					WEIGHTED	
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		TOTAL
SEG. NAME		PRIMARY		EXTENSION		SUB-		LOOP
EQPT						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 - LOW CAP TERM		257C				\$0		\$0
CO EQPT - LOW CAP GHAN		257C				\$0		\$0
CO EQPT - HI CAP TERM		857C				\$0		\$0
CO EQPT - HI CAP CHAN		857C				\$0		\$0
CO EQPT - ANALOG SW		77C				\$0		\$0
CO EQPT - DIGITAL SW		377C				\$0		\$0
AERIAL CABLE (FIBER)		822C				\$0		\$0
BURIED CABLE (FIBER)		845C				\$0		\$0
UNDERGROUND (FO) CA.		85C				\$0		\$0
CONNECTORS		57C				\$0		\$0
MISC. COM EQP & PWR		57C				\$0		\$0
POLE LINE		1C				\$0		\$0
CONDUIT		4C				\$0		\$0
SPAN SUMMARY		\$0		\$0		\$0		\$0
								\$0

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C:\123R24\LCATR035\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore [®]	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 7 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 4 FOMUX		STUDY YR: 1998			
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS ISDN		RUN DATE: 23-Jan-97			
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 8151 FEET		TIME: 10:43			
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						
	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	\$0	\$0	\$0

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C:\123R24\LCATR035\RESULTS1		LOOP COST ANALYSIS TOOL					Ballcore [®]	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY					LCAT Rel: 1.0.4	
SHEET 9 of 10							Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 6 FOMUX		STUDY YR: 1995		TEST CASE: 1		
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		RUN DATE: 23-Jan-97		TIME: 10:43		
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS ISDN						
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 8151 FEET						
Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					TOTAL	WEIGHTED
PLANT NAME	SEG. NAME	PRIMARY	EXTENSION	SUB-	DISTRIBUTION NETWORK	LOOP	TOTAL LOOP	
EQPT	CODE				INTERFACE			
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	\$0	\$0	\$0	
						\$0	\$0	

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A
B
C
D
E
F
GC:\123R24\LCATR035.RESULTS1
OUTPUT - WORKSHEET D
SHEET 10 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Balcore**LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1998
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 10:43COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELEDO FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - BUSINESS ISDN
TOTAL LOOP LENGTH: 8151 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	
PLANT	SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	TOTAL	LOOP
ITEM DESCRIPTION	EQPT CODE							
SHARED RESOURCES								
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
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	\$ 1.36	\$ 2.88	\$ 0.00	\$ 4.24	\$ 4.2400
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.14	\$ 2.07	\$ 0.00	\$ 2.21	\$ 2.2100
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 2.71	\$ 0.29	\$ 0.00	\$ 3.00	\$ 3.0000
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.32	\$ 0.69	\$ 0.00	\$ 1.01	\$ 1.0100
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.96	\$ 0.10	\$ 0.00	\$ 1.06	\$ 1.0600
SPAN SUMMARY		\$ 0.00	\$ 0.00	\$ 5.49	\$ 6.03	\$ 2.45	\$ 13.97	\$ 13.97
							\$ 13.97	

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Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

23-Jan-97

Issued: 8/31/95

09:15

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS ISDN 0 - 18000 FEET INTRA

CURRENT TEST PLAN : CURRENT JOB IDENT: CINCINNATI

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

NOTICE MUST BE GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO YOU
your run is finished

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

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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-OLC, NON-COLLOC)

COMPANY: CINCINNATI BELL TEL.

CITY / AREA: CINCINNATI

STATE / PROV: OHIO

SERVICE CLASS: BAND 2 - BUSINESS ISDN

Belcore (R)

LCAT Release: 1.0.4

Issue Date: 8/31/95

STUDY YR: 1998

TEST CASE: 1

RUN DATE: 23-Jan-97

TIME: 10:33

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 - CABLE INVESTMENT PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR [F=E*fcdr]	DROP WIRE ADJUSTMENT PER PAIR [F=E*fcdr]	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
1136.0	AERIAL	0.620000	704.3	0.042900	30.00		0.00	0.00	
CONSIDERS:	BURIED	0.330000	374.9	0.066800	25.04		0.00	0.00	
MELDED									
COPPER	UNDERGRND	0.050000	56.8	0.058000	3.29		0.00	0.00	
CABLE									
Check =		1.000000	1136.0						
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									
inv / unit lgth:					inv rlin fcdr:				
POLE LINE FACTOR (PL) =	0.0000				0.2530				
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PL) =	\$ 21.69								
UG CONDUIT FACTOR (UC) =	0.0000				0.5165				
CONDUIT INVESTMENT (UTIL UNDERGRND INVEST x UC) =	\$ 4.86								
FOOTNOTES									
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.									
NOTE 2: TABLE 4 & 5 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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CA123R24\LCATCALC\DIST
DIST_PLNT = WORKSHEET A
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)
SERVICE CLASS: BAND 2 - BUSINESS ISDN

BelcoreTM
LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-JAN-97
TIME: 10:33

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 [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					1.0000		
INTRABLDG CABLE	52C	V	DIRECT					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	30.00	1		\$ 30	0.3500		\$ 88
BURIED CABLE (COPPER)	45C	V	DIRECT	25.04	1		\$ 25	0.3500		\$ 72
UNDERGROUND (CU) CA.	5C	V	DIRECT	3.29	1		\$ 3	0.3500		\$ 9
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)	848C	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	21.69	1		\$ 22	1.0000		\$ 22
CONDUIT	4C	F	DIRECT	4.88	1		\$ 5	1.0000		\$ 5

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PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

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 A

Sheet 3 of 3

COMPANY: CINCINNATI BELL TEL

CITY / AREA: CINCINNATI

STATE / PROV: OHIO

LCAT Release: 1.0.4

Issue Date: 8/31/95

STUDY YR: 1995

TEST CASE: 1

RUN DATE: 23-Jan-97

TIME: 10:33

LOOP COST ANALYSIS TOOL

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)

SERVICE CLASS: BAND 2 - BUSINESS ISDN

PLANT ITEM	PLANT ACCT CODE	1995 TO 1996 TPI [L]	1995 UNIT LOOP INVESTMENT BY ACCOUNT		ANNUAL COST FACTOR [N]	1995 UNIT ANNUAL COSTS BY ACCOUNT		1995 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			0.3922				
INTRABLDG CABLE	52C	1.0000			0.3922				
AERIAL CABLE (COPPER)	22C	1.0000		\$ 86	0.4033		\$ 34.57		\$ 2.88
BURIED CABLE (COPPER)	45C	1.0000		\$ 72	0.3467		\$ 24.81		\$ 2.07
UNDERGROUND (CU) CA.	5C	1.0000		\$ 9	0.3663		\$ 3.45		\$ 0.29
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			0.2963				
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		\$ 22	0.3807		\$ 8.26		\$ 0.69
CONDUIT	4C	1.0000		\$ 5	0.2521		\$ 1.25		\$ 0.10
TOTALS			\$ 0	\$ 193		\$ 0.00	\$ 72.31	\$ 0.00	\$ 6.03

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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\DIST		LOOP COST ANALYSIS TOOL		Bellcore®	
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 ISDN		TEST CASE: 1	
STATE / PROV: OHIO				RUN DATE: 23-Jan-97	
				TIME: 10:33	
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. :	0.2530		
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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C:\123R24\LCATCALC\DIST			LOOP COST ANALYSIS TOOL					Bellicore®	
DIST. PLNT - WORKSHEET B			PROSPECTIVE AND ANNUAL COSTS WORKSHEET					LCAT	
Sheet 3 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 ISDN					TEST CASE: 1	
STATE / PROV: OHIO								RUN DATE: 23-Jan-97	
								TIME: 10:33	
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TP1 [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			0.2963				
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		\$ 29.42		\$ 0.00	\$ 2.45

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PROVIDED TO PUBLIC

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\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: 23-Jan-97

TIME: 10:33

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - BUSINESS (SON)

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. :
0.2530

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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CA123R24:LCATCALC.DIST
DIST_PLANT - WORKSHEET B
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET

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

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

Bellicore[®]
LCAT
Release: 1.0.4
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 10:33

PLANT ITEM	PLANT ACCT CODE	CAT. FIXED RESOURCE VARI	COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	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		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
								\$ 0	\$ 75

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.D ST
 DIST PLNT - WORKSHEET B
 Sheet 3 of 3

LOOP COST ANALYSIS TOOL
 PROSPECTIVE AND ANNUAL COSTS WORKSHEET

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

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

Release: 1.0.4
 STUDY YR: 1996
 TEST CASE: 1
 RUN DATE: 23-Jan-97
 TIME: 10:33

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			0.2837				
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			0.3863				
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									
			bctshrinv	bctdirinv		bctshrann	bctdirann	bctshrnc	bctdirnc
			\$ 0	\$ 75		\$ 0.00	\$ 29.42	\$ 0.00	\$ 2.45
				\$ 75			\$ 29.42		\$ 2.45
			bctinvsv			bctann		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		LOOP COST ANALYSIS TOOL				Bellcore ^(R)	
DIST PLNT - REPORT 14A		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 3		COMPANY: CINCINNATI BELL TEL.				Issue Date: 8/31/95	
CITY / AREA: CINCINNATI		FACILITY TYPE: COPPER CABLE				STUDY YR: 1996	
STATE / PROV: OHIO		CIRCUIT SEGMENT: DISTRIBUTION PLANT (NON-DLC, NON-COLLOC)				TEST CASE: 1	
		SERVICE CLASS: BAND 2 - BUSINESS ISDN				RUN DATE: 23-Jan-97	
						TIME: 10:33	
		logic-14a 1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					
		BAND	MIX	AVG.	1.0000	(See Note)	
		ACCT	LGTH.	8151		TOTAL	
		CODE	SEG. LGTH.	1136.0		AVG. WEIGHTED	
						INVESTMENT	
						1136	

1		SHARED RESOURCES					
2		LAND	20C			\$0.00	
3		BUILDING	10C			\$0.00	
4		BLDG ENTRANCE CABLE	12C			\$0.00	
5		INTRABLDG CABLE	52C			\$0.00	
6		AERIAL CABLE (COPPER)	22C			\$0.00	
7		BURIED CABLE (COPPER)	45C			\$0.00	
8		UNDERGROUND (CU) CA.	5C			\$0.00	
9		CO EQPT - P GAIN TERM	257C			\$0.00	
10		CO EQPT - P GAIN CHAN	257C			\$0.00	
11		CO EQPT - FO MUX TERM	857C			\$0.00	
12		CO EQPT - FO MUX CHAN	857C			\$0.00	
13		CO EQPT - ANALOG SW	77C			\$0.00	
14		CO EQPT - DIGITAL SW	377C			\$0.00	
15		AERIAL CABLE (FIBER)	822C			\$0.00	
16		BURIED CABLE (FIBER)	845C			\$0.00	
17		UNDERGROUND (FO) CA.	85C			\$0.00	
18		CONNECTORS	57C			\$0.00	
19		MISC. COM EQP & PWR	57C			\$0.00	
20		POLE LINE	1C			\$0.00	
21		CONDUIT	4C			\$0.00	
22							
23		DIRECT RESOURCES					
24		LAND	20C			\$0.00	
25		BUILDING	10C			\$0.00	
26		BLDG ENTRANCE CABLE	12C			\$0.00	
27		INTRABLDG CABLE	52C			\$0.00	
28		AERIAL CABLE (COPPER)	22C	\$2.88		\$2.88	
29		BURIED CABLE (COPPER)	45C	\$2.07		\$2.07	
30		UNDERGROUND (CU) CA.	5C	\$0.29		\$0.29	
31		CO EQPT - P GAIN TERM	257C			\$0.00	
32		CO EQPT - P GAIN CHAN	257C			\$0.00	
33		CO EQPT - FO MUX TERM	857C			\$0.00	
34		CO EQPT - FO MUX CHAN	857C			\$0.00	
35		CO EQPT - ANALOG SW	77C			\$0.00	
36		CO EQPT - DIGITAL SW	377C			\$0.00	
37		AERIAL CABLE (FIBER)	822C			\$0.00	
38		BURIED CABLE (FIBER)	845C			\$0.00	
39		UNDERGROUND (FO) CA.	85C			\$0.00	
40		CONNECTORS	57C			\$0.00	
41		MISC. COM EQP & PWR	57C			\$0.00	
42		POLE LINE	1C	\$0.89		\$0.89	
43		CONDUIT	4C	\$0.10		\$0.10	
44							
45		SPAN SUMMARY					
46		AVG. WTD. SPAN SUMMARY	\$6.03	\$0.00	\$0.00	\$0.00	\$0.00
47			\$6.03	\$0.00	\$0.00	\$0.00	\$0.00
48		NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]					
49							\$6.03

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C:\123R24\LCAT\CALC\DIST		LOOP COST ANALYSIS TOOL		Bellcore [®]	
DIST_PLNT - REPORT 148		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 ISDN		STUDY YR: 1996	
CITY / AREA: CINCINNATI				TEST CASE:	
STATE / PROV: OHIO				RUN DATE: 23-Jan-97	
				TIME: 10:33	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					
ALL					
PLANT ITEM	PLANT ACCT CODE	BAND 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		2.45		
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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RUN - SUB PRI

LAST UPDATE

23-Jan-97

09:17

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 ISDN 0 - 18000 FEET INTRAS**CURRENT TEST PLAN :** CURRENT JOB IDENT. CINCINNATI

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

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 PRIOR TO 10-1-96 BY 6032 GIVE
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Q:\123R24\LCAT\CALC\OLTECH
SUB_PRI - WORKSHEET
Sheet 1 of 3

LOOP COST ANALYSIS TOOL
BASIC INVESTMENT WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS

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

CIRCUIT SEGMENT: MELDED GAUGE/S/ SUB-PRIMARY
SERVICE CLASS: BAND 2 - BUSINESS ISDN

LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 10:35

SEGMENT LENGTH IN FEET	TYPE OF CABLE PLANT	FROM TABLE 2 RELATIVE MIX OF TYPE OF		LENGTH SUBSET BY TYPE OF PLANT [C=A*B]	FROM TABLE 4 VLD CABLE DESIGN INVEST. PER PAIR FOOT		CABLE INVESTMENT PER PAIR [E=C*D]	WEIGHTED TERMINAL INVESTMENT [UI*DTC]	AIR DRYER INVESTMENT PER PAIR	DROP WIRE ADJUSTMENT PER PAIR [E*fdt]	WEIGHTED DROP WIRE ADJUSTMENT PER PAIR [UI*DTC]
		CA. PLANT [B]	OF PLANT		PAIR FOOT	PER PAIR					
7615	AERIAL	0.290000	2034.35	0.011900	24.21		0.00	0.00			
MELDED GAUGE/S/ COPPER	BURIED	0.020000	140.30	0.020500	2.88		0.00	0.00			
CABLE	UNDERGRND	0.690000	4840.35	0.011000	53.24		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) =	\$ 0.00	MCE&P INVESTMENT (CO CONN x FACTOR) =	\$ 0.00
	inv / unit lctn: inv rtn fctr:		
POLE LINE FACTOR =	0.000000 0.253000	LAND FACTOR =	0.00560
POLE LINE INVESTMENT =	\$ 10.21	LAND NVST (CO CONN + MCE&P) x FACTOR =	\$ 0.00
(UTIL AERIAL INVEST x PL)		BUILDING FACTOR =	0.13160
		BLDG NVST (CO CONN + MCEP) x FACTOR =	\$ 0.00
UG CONDUIT FACTOR =	0.000000 0.516500	PERCENT OF CO CONN AT DIGITAL SWITCHES	100.0000
CONDUIT INVESTMENT =	\$ 45.83	PERCENT OF CO CONN AT ANALOG SWITCHES	0.0000
(UTIL UNDGRND INVEST x UC)			

NOT FOR DISCLOSURE
PROVIDED TO PUBLIC

FOOTNOTES

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

NOTE 2: E * fctr = INVESTMENT x DROP WIRE ADJUSTMENT FACTOR (MISC 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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SUB_PRI - WORKSHEET
Sheet 2 of 3

LOOP COST ANALYSIS TOOL
ACCOUNT INVESTMENT WORKSHEET
CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: MELDED GAUGE/S/ SOB - PRIMARY
SERVICE CLASS: BAND 2 - BUSINESS ISDN

Bellcore®
LCAT Release: 1.0.4
Issue Date: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 10:35

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	0.00				1.0000		
BUILDING	10C	F	SHARED	0.00				1.0000		
BLDG ENTRANCE CABLE	12C	V	DIRECT					1.0000		
INTRABLDG CABLE	52C	V	DIRECT					0.3500		
AERIAL CABLE (COPPER)	22C	V	DIRECT	24.21	1		\$ 24	0.6000		\$ 40
BURIED CABLE (COPPER)	45C	V	DIRECT	2.88	1		\$ 3	0.6000		\$ 5
UNDERGROUND (CU) CA.	5C	V	DIRECT	53.24	1		\$ 53	0.6000		\$ 89
CO EQPT - LOW CAP TERM	257C	F	DIRECT					0.7000		
CO EQPT - LOW CAP CHAN	257C	V	DIRECT					0.7000		
CO EQPT - HI CAP TERM	857C	F	DIRECT					1.0000		
CO EQPT - HI CAP CHAN	857C	F	DIRECT					1.0000		
CO EQPT - ANALOG SW	77C	V	DIRECT	0.00				1.0000		
CO EQPT - DIGITAL SW	377C	V	DIRECT	0.00				1.0000		
AERIAL CABLE (FIBER)	822C	F	DIRECT					0.3300		
BURIED CABLE (FIBER)	845C	F	DIRECT					0.3300		
UNDERGROUND (FO) CA.	85C	F	DIRECT					0.3300		
CONNECTORS	57C	V	DIRECT					1.0000		
MISC. COM EQP & PWR	57C	V	SHARED	0.00				1.0000		
POLE LINE	1C	F	DIRECT	10.21	1		\$ 10	1.0000		\$ 10
CONDUIT	4C	F	DIRECT	45.83	1		\$ 45	1.0000		\$ 45
TOTALS										\$ 190
										\$ 190

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

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CA123R24\LCAT\CALC\CUTCH			LOOP COST ANALYSIS TOOL					Bellcore (R)	
SUB PRI - WORKSHEET			PROSPECTIVE AND ANNUAL COSTS WORKSHEET					LCAT Release: 1.0.4	
Sheet 1 of 3			CENTRAL OFFICE TO SERVING AREA INVESTMENT CALCULATIONS					Issue Date: 7/31/95	
COMPANY: CINCINNATI BELL TEL.			FACILITY TYPE: COPPER CABLE					STUDY YR: 1996	
CITY / AREA: CINCINNATI			CIRCUIT SEGMENT: WELDED GAUGE/S7 SUB-PRIMARY					TEST CASE: 1	
STATE / PROV: OHIO			SERVICE CLASS: BAND 2 - BUSINESS /SDN					RUN DATE: 23-Jan-97	
								TIME: 10:35	
PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TM [L]	1996 UNIT LOOP INVESTMENTS BY ACCOUNT		ANNUAL COST FACTOR [N]	1996 UNIT ANNUAL COSTS BY ACCOUNT		1996 UNIT MONTHLY RECURRING COSTS BY ACCOUNT	
			SHARED RESOURCES [M=K*L]	DIRECT RESOURCES [M'=K'*L]		SHARED RESOURCES [P=M*N]	DIRECT RESOURCES [P'=M'*N]	SHARED RESOURCES [R=P/12]	DIRECT RESOURCES [R'=P'/12]
8 LAND	20C	1.0000			0.2322				
9 BUILDING	10C	1.0000			0.2937				
10 BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
11 INTRABLDG CABLE	52C	1.0000			0.3922				
12 AERIAL CABLE (COPPER)	22C	1.0000		\$ 40	0.4033		\$ 16.27		\$ 1.36
13 BURIED CABLE (COPPER)	45C	1.0000		\$ 5	0.3487		\$ 1.66		\$ 0.14
14 UNDERGROUND (CU) CA.	5C	1.0000		\$ 89	0.3663		\$ 32.51		\$ 2.71
15 CO EQPT - LOW CAP TERM	257C	1.0000			0.3881				
16 CO EQPT - LOW CAP CHAN	257C	1.0000			0.3881				
17 CO EQPT - HI CAP TERM	857C	1.0000			0.3881				
18 CO EQPT - HI CAP CHAN	857C	1.0000			0.3881				
19 CO EQPT - ANALOG SW	77C	1.0000			0.0000				
20 CO EQPT - DIGITAL SW	377C	1.0000			0.3458				
21 AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
22 BURIED CABLE (FIBER)	845C	1.0000			0.2724				
23 UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
24 CONNECTORS	57C	1.0000			0.3881				
25 MISC. COM EQP & PWR	57C	1.0000			0.3881				
26 POLE LINE	1C	1.0000		\$ 10	0.3807		\$ 3.80		\$ 0.32
27 CONDUIT	4C	1.0000		\$ 46	0.2521		\$ 11.55		\$ 0.96
28									
29 SUBTOTALS			\$ 0	\$ 190		\$ 0.00	\$ 65.88	\$ 0.00	\$ 5.49
30									
31 TOTALS				\$ 190			\$ 65.88		\$ 5.49
32				culpmsy			culpms		culpms
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47 FOOTNOTES									
48 NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.									
49 NOTE 2: AN INVESTMENT - ONLY STUDY NEGATES ANNUAL COST COMPUTATION.									
50 THIS, THIS COLUMN MAY BE PRESENTED FOR CONSISTENCY ONLY.									
51									
52									
53									
54									
55									

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C:\123R24\LCAT\CALC\CUTECH		LOOP COST ANALYSIS TOOL				Bellcore (R)	
SUB_PRT - REPORT 14		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Release: 1.0.4	
Sheet 1 of 1		COMPANY: CINCINNATI BELL TEL				Issue Date: 7/31/95	
CITY / AREA: CINCINNATI		FACILITY SEGMENT: SUB-PRIMARY PLANT				STUDY YR: 1995	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS ISDN				TEST CASE: 1	
						RUN DATE: 23-Jan-97	
						TIME: 10:35	
logic-14a		1996 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)	
BAND		C				TOTAL	
MIX		1.0000				AVG. WEIGHTED	
ACCT		8151					
LGTH		7015					
SEG LGTH						7015	
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
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		\$ 1.36			\$ 1.36
34	BURIED CABLE (COPPER)	45C		\$ 0.14			\$ 0.14
35	UNDERGROUND (CU) CA.	5C		\$ 2.71			\$ 2.71
36	CO EQPT - P GAIN TERM	257C					\$ 0.00
37	CO EQPT - P GAIN CHAN	257C					\$ 0.00
38	CO EQPT - FO MUX TERM	857C					\$ 0.00
39	CO EQPT - FO MUX CHAN	857C					\$ 0.00
40	CO EQPT - ANALOG SW	77C					\$ 0.00
41	CO EQPT - DIGITAL SW	377C					\$ 0.00
42	AERIAL CABLE (FIBER)	822C					\$ 0.00
43	BURIED CABLE (FIBER)	845C					\$ 0.00
44	UNDERGROUND (FO) CA.	85C					\$ 0.00
45	CONNECTORS	57C					\$ 0.00
46	MISC. COM EQP & PWR	57C					\$ 0.00
47	POLE LINE	1C	0.3	\$ 0.32			\$ 0.32
48	CONDUIT	4C	0.9	\$ 0.96			\$ 0.96
50	SPAN SUMMARY		\$ 5.49	\$ 0.00	\$ 0.00	\$ 0.00	\$ 5.49
52	AVG. WTD. SPAN SUMMARY		\$ 5.49	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
NOTE: [sum(INV _{ACCT} * MIX ^{BAND})]							

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CDLC PLANT - WORKSHEET 1		ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
Sheet 2 of 3		CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
COMPANY: CINCINNATI BELL TEL.		FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
CITY / AREA: OHIO		FACILITY TYPE: COPPER DIG LOOP CRR										TEST CASE: 1	
STATE / PROV: CINCINNATI		CIRCUIT DESIGN: T1C										DATE: 23-Jan-97	
		SERVICE CLASS: HAND2 - BUSINESS ISDN										TIME: 10:37 AM	
PLANT ITEM	ACCT CODE	FIXED VARI SLINK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION				
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]			
LAND	20C	F	SHARED	3.16	0			1.0000					
BUILDING	10C	F	SHARED	74.31	0			1.0000					
BLDG ENTRANCE CABLE	12C	---	---		0			1.0000					
INTRABLDG CABLE	52C	---	---		0			0.3800					
AERIAL CABLE (COPPER)	22C	V	DIRECT	0.00	0			0.6000					
BURIED CABLE (COPPER)	45C	V	DIRECT	0.00	0			0.6000					
UNDERGROUND (CU) CA.	5C	V	DIRECT	0.00	0			0.6000					
CO EQPT - P GAIN TERM	257C	F	DIRECT	198.55	0			0.7000					
CO EQPT - P GAIN CHAN	257C	V	DIRECT	363.30	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	1.81	0			1.0000					
POLE LINE	1C	F	DIRECT	0.00	0			1.0000					
CONDUIT	4C	F	DIRECT	0.00	0			1.0000					
TOTALS													

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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LOOP COST ANALYSIS TOOL										Bellcore	
BASIC INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET										Issue Date: 8/31/95	
FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY										STUDY YR: 1996	
FACILITY TYPE: COPPER DIG LOOP CRR										TEST CASE: 1	
CIRCUIT DESIGN: T1C										DATE: 23-Jan-97	
SERVICE CLASS: BAND 2 - BUSINESS ISDN										TIME: 0:37 AM	
COMPANY: CINCINNATI BELL TEL											
CITY / AREA: OHIO											
STATE: OHIO PROV: CINCINNATI											
8161 cur. length											
7015 cur. length											
1 = 0.125 pcfactor											
CABLE COMPONENTS (NOTE 5)											
(NOTE 4)											
(NOTE 3)											
SEGMENT LENGTH IN FEET											
TYPE OF CABLE											
RELATIVE MIX OF TYPE OF											
EFFECTIVE LENGTH SUBSET BY TYPE											
MELDED INVEST. PER UNIT FOOT											
CABLE INVESTMENT PER CHAN											
WEIGHTED TERMINAL INVESTMENT											
AIR DRYER INVESTMENT PER PAIR											
DROP WIRE ADJUSTMENT PER PAIR											
WEIGHTED DROP WIRE INVESTMENT PER PAIR											
[A] [B] [C=A*B*F] [D] [E=C*D] [F=U*DTC] [E*factr] [E*factr] [U*DTC]											
0 AERIAL 0.290000 0.00 0.023800 \$ 0.00 \$ 0.00											
CO TO RT LINK ON BURIED 0.020000 0.00 0.041000 \$ 0.00 \$ 0.00											
COPPER CABLE DLC UNDERGRND 0.690000 0.00 0.022000 \$ 0.00 \$ 0.00											
24.00 GA. FACILITIES 1.000000											
OUTSIDE PLANT LOADINGS (NOTE 5):											
ADJUST. / LOAD FACTORS TO AERIAL PFI											
ADJUST. / LOAD FACTORS TO BURIED PFI											
ADJUST. / LOAD FACTORS TO UGD PFI											
DLC EQUIPMENT INVEST. (NOTE 2):											
INT DLC EQUIP INVEST. (CU COMUX) =											
INT DLC EQUIP INVEST. (CU RTMUX) =											
UNIV DLC EQUIP INVEST. (CU COMUX) =											
UNIV DLC EQUIP INVEST. (CU RTMUX) =											
DLC EQUIP INVEST. (CU LINE) =											
CONDUIT INVEST. FOR DLC DEV FACILITIES =											
OTHER INVESTMENT											
POLE LINE FACTOR (PLF) =											
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) =											
UGD CONDUIT FACTOR (UCF) =											
CONDUIT INVESTMENT (UTIL UNDGRD INVEST x UCF) =											
EQUIPMENT INVESTMENT LOADINGS											
INVEST. PER CHAN. FOR DLC TERM (co conn) =											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (rem) =											
MISC. COM. EQPT. & POWER FACTOR FOR DLC (c.o.) =											
MCE&P INVEST. (CU REMMUX x MCEP) =											
MCE&P INVEST. (CDLCMUX x MCEP) =											
MCE&P INVEST. (CO CONN x MCEP) =											
OTHER INVESTMENT											
LAND FACTOR FOR DLC (LANDf rem) =											
LAND FACTOR FOR DLC (LANDf c.o.) =											
LAND INVEST. (CU COMUX + MCEP) x LANDf =											
LAND INVEST. ((CO CONN + MCEP) x LANDf) =											
BUILDING FACTOR FOR DLC (BLDGf rem.) =											
BUILDING FACTOR FOR DLC (BLDGf c.o.) =											
BLDG INVEST. (CDLCMUX + MCEP) x BLDGf =											
BLDG INVEST. ((CO CONN + MCEP) x BLDGf) =											
LOOP TOPOLOGY											
STAR											
AVERAGE NUMBER OF HUBS											
ADDITIONAL LENGTH OF BING OSP REQUIRED											
MIX OF CENT. OFC. ANALOG (NTFC)											
MIX OF CENT. OFC. DIGITAL INTFC											
MIX OF UNIVERSAL DLC INTFC											
MIX OF INTEGRATED DIGITAL INTFC											
FOOTNOTES											
NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING.											
NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS ARRIVED.											
NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES TABLE 4 IS MULTI BY 2.											
NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT.											
NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

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Q:\123R24\LCAT\CALC\CUPRGN
RUN - CDLC PLANT

LAST UPDATE

23-Jan-97

09:19

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 ISDN 0 - 18000 FEET INTRASTATE

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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C:\23R24\LCAT\CALC\CUPRGN		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				STUDY YR: 8/31/95	
CITY / AREA: CINCINNATI		CIRCUIT DESIGN: 11 COPPER DIG LOOP DXR				TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS ISDN				DATE: 23-Jan-97	
						TIME: 10:38 AM	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT							
(SEE NOTE)							
TOTAL							
AVG. WEIGHTED INVESTMENT							
0							
SHARED RESOURCES							
LAND	20C						\$ 0.00
BUILDING	10C						\$ 0.00
BLDG ENTRANCE CABLE	12C						\$ 0.00
INTRABLDG CABLE	52C						\$ 0.00
AERIAL CABLE (COPPER)	22C						\$ 0.00
BURIED CABLE (COPPER)	45C						\$ 0.00
UNDERGROUND (CU) CA.	5C						\$ 0.00
CO EQPT - P GAIN TERM	257C						\$ 0.00
CO EQPT - P GAIN CHAN	257C						\$ 0.00
CO EQPT - FO MUX TERM	857C						\$ 0.00
CO EQPT - FO MUX CHAN	857C						\$ 0.00
CO EQPT - ANALOG SW	77C						\$ 0.00
CO EQPT - DIGITAL SW	377C						\$ 0.00
AERIAL CABLE (FIBER)	822C						\$ 0.00
BURIED CABLE (FIBER)	845C						\$ 0.00
UNDERGROUND (FO) CA.	85C						\$ 0.00
CONNECTORS	57C						\$ 0.00
MISC. COM EQP & PWR	57C						\$ 0.00
POLE LINE	1C						\$ 0.00
CONDUIT	4C						\$ 0.00
DIRECT RESOURCES							
LAND	20C						\$ 0.00
BUILDING	10C						\$ 0.00
BLDG ENTRANCE CABLE	12C						\$ 0.00
INTRABLDG CABLE	52C						\$ 0.00
AERIAL CABLE (COPPER)	22C						\$ 0.00
BURIED CABLE (COPPER)	45C						\$ 0.00
UNDERGROUND (CU) CA.	5C						\$ 0.00
CO EQPT - P GAIN TERM	257C						\$ 0.00
CO EQPT - P GAIN CHAN	257C						\$ 0.00
CO EQPT - FO MUX TERM	857C						\$ 0.00
CO EQPT - FO MUX CHAN	857C						\$ 0.00
CO EQPT - ANALOG SW	77C						\$ 0.00
CO EQPT - DIGITAL SW	377C						\$ 0.00
AERIAL CABLE (FIBER)	822C						\$ 0.00
BURIED CABLE (FIBER)	845C						\$ 0.00
UNDERGROUND (FO) CA.	85C						\$ 0.00
CONNECTORS	57C						\$ 0.00
MISC. COM EQP & PWR	57C						\$ 0.00
POLE LINE	1C						\$ 0.00
CONDUIT	4C						\$ 0.00
SPAN SUMMARY		0.00	0.00	0.00	0.00	0.00	0.00
AVG. WTD. SPAN SUMMARY		0.00	0.00	0.00	0.00	0.00	0.00
NOTE: [sum(INV ACCT * WTD) = MAX(WTD)]							

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CM123R24\LCATCALC\CLPRGN CCLC PLANT - WORKSHEET : Sheet 3 of 3 COMPANY: CINCINNATI BELL TEL. CITY / AREA : OHIO STATE / PRV : CINCINNATI	LOOP COST ANALYSIS TOOL PROSPECTIVE AND ANNUAL COSTS WORKSHEET CENTRAL OFFICE TO REMOTE TERMINAL (PRIMARY SECTION) WORKSHEET FOR DIGITAL LOOP CARRIER IN THE FEEDER SEGMENT ONLY FACILITY TYPE : COPPER DIG LOOP CXX CIRCUIT DESIGN : T1C SERVICE CLASS : BAND2 - BUSINESS ISDN	Bellcore TM LCAT Release : 1.0.4 Issue Date : 8/31/95 STUDY YR : 1996 TEST CASE : DATE : 23-Jan-97 TIME : 10:37 AM
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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	DIRECT RESOURCES		SHARED RESOURCES	DIRECT RESOURCES	SHARED RESOURCES	DIRECT RESOURCES
			[M=K*L]	[M'=K'*L]		[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			0.4033				
BURIED CABLE (COPPER)	45C	1.0000			0.3487				
UNDERGROUND (CU) CA.	5C	1.0000			0.3563				
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 - 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			0.2669				
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		\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
				\$ 0			\$ 0.00		\$ 0.00
				FEED1SY			FEED1ANN		FEED1MRC

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.

C:\123R24\LCAT\CALC\FOPRGN

Bellcore^(R)

RUN - FO MUX

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

23-Jan-97

Issued: 7/31/95

09:22

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS ISDN 0 - 18000 FEET INTRASTAT

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

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

....your run is finished

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PROVIDED BY BELL

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LOOP COST ANALYSIS TOOL										Bellore	
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: 1996	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - BUSIN SERVICE LEVEL: NARBAND										LAST RUN: 23-Jan-97	
										TIME: 10:40	
C:\123R24\LCAT\CALC\FOPRGN.WK1 FO_MUX - WORKSHEET 3 Sheet 1 of 3 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from sldr_tbi: 7015 cur_sldrigh 0 cur_pnigh from bw_mix: f = 1979.04 wtdeqvmn EFFECTIVE LENGTH MLD CABLE SUBSET DESIGN BY TYPE INVEST. PER OF PLANT PAIR FOOT [C=A*B/T] [D] [E=C*D] [U=I*DTCT]											
CABLE COMPONENTS (NOTE 5) WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D] WEIGHTED TERMINAL INVESTMENT [U=I*DTCT] AIR DRYER INVESTMENT PER PAIR [E*factr] DROP WIRE ADJUSTMENT PER PAIR [E*factr] (NOTE 4) (NOTE 6)											
SEGMENT LENGTH IN FEET TYPE OF CABLE PLANT RELATIVE MIX OF TYPE OF CA. PLANT [A] [B] [C=A*B/T] [D] [E=C*D] [U=I*DTCT]											
CO TO HUB LINK ON FIBER OPTIC FACILITIES BURIED UNDERGRND 0.000000 0.520000 1.000000											
EQUIPMENT INVESTMENT LOADINGS INVT. 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 INVT. (MUXc.o.+DLCc.o.) x MCEPfc.o.) = \$ 7.79 MCE&P INVT. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 61.57 MCE&P INVT. (CA CONN x MCEPfc.o.) = \$ 0.00 MCE&P INVT. (CA CONN x MCEPfc.o.) = \$ 0.00 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0088 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0088 LAND FACTOR FOR OTH (LANDfrem) = 0.0088 LAND FACTOR FOR DLC EQP (LANDfrem) = 0.0088 LAND FACTOR FOR MUX EQP (LANDfrem) = 0.0088 LAND FACTOR FOR OTH (LANDfrem) = 0.0088 LAND INVT. (DLC+MUX+MCEP) x LANDfrem = \$ 0.45 LAND INVT. (MUX+DLC+MCEP) x LANDfrem = \$ 3.40 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 (BLDGfrem) = 0.1316 BUILDING FACTOR FOR MUX EQP (BLDGfrem) = 0.1316 BUILDING FACTOR FOR OTH (BLDGfrem) = 0.1316 BLDG INVT. (DLC+MUX+MCEP) x BLDGfrem = \$ 10.12 BLDG INVT. (MUX+DLC+MCEP) x BLDGfrem = \$ 80.00											
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) = intdlcco \$ 0.00 \$ 0.00 INT DLC EQUIP INVEST. (CU RTMUX) = intdlcrt \$ 141.70 \$ 348.82 UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco \$ 39.17 \$ 381.90 UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcrt \$ 141.70 \$ 348.82 FIBER MUX EQUIP. INV. (FO COMUX) = hubmxcco \$ 3.88 \$ 49.18 FIBER MUX EQUIP. INV. (FO RTMUX) = hubmxort \$ 2.01 \$ 53.79											
OTHER INVESTMENT POLE LINE FACTOR (PLf) = fpf 0.0000 0.1985 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 0.00 UNDERGROUND CONDUIT FACTOR (PLf) = fuct 0.0000 0.5232 CONDUIT INVESTMENT (UTIL UNIDGRND INVT 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 0.0400 MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.9600											
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2. NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT. NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

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: 1995	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - BUSINSERVICE LEVEL: NARBAND										LAST RUN: 23-Jan-97	
										TIME: 10:40	
1995 UNIT INVESTMENTS BY ACCOUNT											
1995 UNIT LOOP INVESTMENT EXCL UTILIZATION											
1995 UNIT LOOP INVESTMENT INCL UTILIZATION											
PLANT ITEM	PLANT ACCT CODE	FIXED VARI SUNK	RESOURCE ALLOCATION	COST EQUATION	CIRCUIT QUANTITY	SHARED RESOURCES	DIRECT RESOURCES	ADMIN. UTIL. LINE FILL	SHARED RESOURCES	DIRECT RESOURCES	
	chstart			[F]	[G]	[H=F*G]	[H'=F*G]	utilstart	[J]	[K=H/J]	[K'=H'/J]
LAND	20C	F	SHARED	3.83	0			1.0000			
BUILDING	10C	F	SHARED	90.12	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	143.27	0			0.7000			
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	363.30	0			0.7000			
CO EQPT - HI CAP TERM	857C	F	DIRECT	67.46	0			1.0000			
CO EQPT - HI CAP CHAN	857C	F	DIRECT	102.97	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	7.79	0			1.0000			
POLE LINE	1C	F	DIRECT	0.00	0			1.0000			
CONDUIT	4C	F	DIRECT	0.00	0			1.0000			
TOTALS											
CONFIDENTIAL NOT FOR RELEASE OR DISCLOSURE IN ANY FORM OR BY ANY MEANS EXCEPT AS AUTHORIZED BY BELL RECEIVED TO 1995											
----- \$ 0 ----- \$ 0 feed31y											
FOOTNOTES											
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.C. 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 Ref: 1.0.4	
FOR PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/95	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1998	
CIRCUIT DESIGN: 3: FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: 84V0 2 - BU: SERVICE LEVEL: NARBAND										LAST RUN: 23-Jan-97	
										TIME: 10:40	
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 fo3dxcaset	DIRECT RESOURCES fo3dxcaset	ANNUAL COST FACTOR actstart	SHARED RESOURCES	DIRECT RESOURCES	SHARED RESOURCES fo3dxcaset	DIRECT RESOURCES fo3dxcaset		
[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			0.5807						
CONDUIT	4C	1.0000			0.2521						
TOTALS			\$ 0	\$ 0		\$ 0.00	\$ 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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C:\123R24\LCATRC35\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: 29-Oct-96

TIME: 08:43

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

FOOTNOTES

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

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C:\123R24\LCATR035\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 CCDE	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\LCAT\035\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: 1998
TEST CASE: 1
LAST UPDATE: 29-Oct-95
TIME: 08:43

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

FOOTNOTES

- 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 SCREENBellcore^(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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G:\123R2\ALCATEL\CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore	
INPUT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS : 15-Jan-97	
LCAT Rel. : 1.0.4				LAST UPDATE:	
Issue Date : 9/31/95				29-Oct-95 08:45 AM	
STUDY NAME		1995 BAND 2 (OHIO ONLY) BUSINESS ISDN 0 - 18000 FEET INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 2 - BUSINESS ISDN		STUDY BASIS	
				☒ NETWORK	
				☐ INDIVIDUAL	
COMPANY		CINCINNATI BELL TEL.		INVESTMENT YEAR	
				1995	
STATE / PROVINCE		OHIO		LOOP CHAR. STUDY YEAR	
				1996	
CITY / AREA		CINCINNATI		STUDY YEAR	
				1996	
DENSITY CELL MIX		0 100 0 0		TEST CASE	
		VH HI MED LO		1	
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:					
Type Percent Mix :					
100 FIBER IN THE LOOP					
0 COPPER DIG LOOP CXR					

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C:\123R24\LCATR035\CRITERIA
INPUT - STUDY SETUP
Sheet 1 of 2

HELP SCREEN**Bellcore**®

LCAT Rel. 1.0.4
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\035\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 ISDN		LCAT Rel. 1.0.4 ISSUED: 3/31/95 STUDY YEAR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 08:46 AM						
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 ?		VALID RESPONSE SET N or A S or P N, W or B 2 or 4	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>NEW</td></tr> <tr><td>SWITCHED</td></tr> <tr><td>NARBAND</td></tr> <tr><td>2</td></tr> </table>	NEW	SWITCHED	NARBAND	2		
NEW										
SWITCHED										
NARBAND										
2										
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 ?		0 → 100 0 → 100 0 → 100 e.g., 12000	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>100</td></tr> <tr><td>96</td></tr> <tr><td>18000 Feet</td></tr> </table>	100	96	18000 Feet			
100										
96										
18000 Feet										
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.		For D 1,2,3,4 0 → 5 1, C or A T or M 0 → 999	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>FLAT RATE</td></tr> <tr><td>100</td></tr> <tr><td>100</td></tr> <tr><td>COST</td></tr> <tr><td>TOTAL</td></tr> <tr><td>RATES PLAN</td></tr> </table>	FLAT RATE	100	100	COST	TOTAL	RATES PLAN
FLAT RATE										
100										
100										
COST										
TOTAL										
RATES PLAN										

NOTICE
PRIOR TO RELEASE
PROVIDED TO PUBLIC

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CA\123R24\LCATRD35\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 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.

PRESS <Enter> KEY TO RETURN TO THE MAIN MENU

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C:\123R24\LCATR035\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 ISDN		LAST UPDATE: 29-Oct-96 TIME: 08:47

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: <table style="width:100%; border-collapse: collapse;"> <tr><td style="width:80%;">Weighting of Design #1</td><td style="border: 1px solid black; text-align: center;">0.0000</td></tr> <tr><td>Weighting of Design #2</td><td style="border: 1px solid black; text-align: center;">0.0000</td></tr> <tr><td>Weighting of Design #3</td><td style="border: 1px solid black; text-align: center;">1.0000</td></tr> <tr><td>Weighting of Design #4</td><td style="border: 1px solid black; text-align: center;">NA 0.0000</td></tr> <tr><td>Weighting of Design #5</td><td style="border: 1px solid black; text-align: center;">NA 0.0000</td></tr> <tr><td>Weighting of Design #6</td><td style="border: 1px solid black; text-align: center;">NA 0.0000</td></tr> <tr><td></td><td style="border: 1px solid black; text-align: center;">1.0000</td></tr> </table> ChkSum FOR COPPER DLC DESIGNS: <table style="width:100%; border-collapse: collapse;"> <tr><td style="width:80%;">Weighting of Design #1</td><td style="border: 1px solid black; text-align: center;">1.0000</td></tr> <tr><td>Weighting of Design #2</td><td style="border: 1px solid black; text-align: center;">NA 0.0000</td></tr> <tr><td></td><td style="border: 1px solid black; text-align: center;">1.0000</td></tr> </table> ChkSum NA DENOTES THAT THE CIRCUIT DESIGN PROBABLY DOES NOT APPLY TO THIS SET OF STUDY PARAMETERS.	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	Weighting of Design #1	1.0000	Weighting of Design #2	NA 0.0000		1.0000
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																				
Weighting of Design #1	1.0000																				
Weighting of Design #2	NA 0.0000																				
	1.0000																				

C:\123R24\LCATR035\DESIGN
INPUT - LOOP_DESIGN
Sheet 1 of 1

HELP SCREEN**Belcore**

LCAT Rel :1.0.4
Issued :07/31/95

**DIGITAL LOOP
CARRIER
DESIGNS**

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

COLLOCATIONS

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

**FIBER HUBS &
FEEDER
EXTENSIONS**

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

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

**SERVICE
SPECIFIC**

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

***** 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

C:\123R24\LCATRD03\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore	
TABLE - SPAN_INV SHEET 1 / 4		LOOP FACILITY INPUT FIBER CABLE DATA				LCAT Rel Issued: 1.0.4 07/31/95	
COMPANY: CINCINNATI BELL TEL.		FOR INVESTMENT YEAR: 1996				STUDY YR 1996	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996				TEST CASE 1	
STATE/PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS / SDN				LAST UPDATE 20-Oct-95	
						TIME 08:49	
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				
		(Fiber Hub to Remote Terminal)					
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			
		(Remote Terminal to Service Point)					

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C:\123R24\LCATR035\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore
TABLE - SPAN_INV SHEET 1A / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS ISDN				LCAT R#1: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 08:49
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE						
Cable Sheath Sizes			Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size			
		CAPACITY	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\LCATR035\FACILITY
TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

Bellcore
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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 ISDN				LCAT Ref: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-95 TIME: 08:49																									
COPPER CABLE CHARACTERISTICS AND INVESTMENTS																															
Cable Gauge Mix: The Proportion of Copper Cable that is		GAUGE 28 GA. 24 GA. 22 GA.	FEEDER SEGMENT 0.1500 0.8500 0.0000	DISTRIBUTION SEGMENT 0.1500 0.8500 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																										
Cable Type Mix, By Gauge: The Proportion of Copper Cable that is		GAUGE 28 GA. 24 GA. 22 GA.	FEEDER SEGMENT AERIAL 0.2900 BURIED 0.0200 UNDGRND 0.5900 AERIAL 0.2900 BURIED 0.0200 UNDGRND 0.6900 AERIAL 0.0000 BURIED 0.0000 UNDGRND 0.0000	DISTRIBUTION SEGMENT 0.6200 0.3300 0.0500 0.6200 0.3300 0.0500 0.0000 0.0000 0.0000	Average Unit Investment for Copper Cable Installed as <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>GAUGE</th> <th>FEEDER SEGMENT</th> <th>DISTRIBUTION SEGMENT</th> </tr> </thead> <tbody> <tr><td rowspan="3">28 GA.</td><td>AERIAL</td><td>0.0119</td></tr> <tr><td>BURIED</td><td>0.0205</td></tr> <tr><td>UNDGRND</td><td>0.0510</td></tr> <tr><td rowspan="3">24 GA.</td><td>AERIAL</td><td>0.0119</td></tr> <tr><td>BURIED</td><td>0.0205</td></tr> <tr><td>UNDGRND</td><td>0.0510</td></tr> <tr><td rowspan="3">22 GA.</td><td>AERIAL</td><td>0.0000</td></tr> <tr><td>BURIED</td><td>0.0000</td></tr> <tr><td>UNDGRND</td><td>0.0000</td></tr> </tbody> </table>			GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT	28 GA.	AERIAL	0.0119	BURIED	0.0205	UNDGRND	0.0510	24 GA.	AERIAL	0.0119	BURIED	0.0205	UNDGRND	0.0510	22 GA.	AERIAL	0.0000	BURIED	0.0000	UNDGRND	0.0000
GAUGE	FEEDER SEGMENT	DISTRIBUTION SEGMENT																													
28 GA.	AERIAL	0.0119																													
	BURIED	0.0205																													
	UNDGRND	0.0510																													
24 GA.	AERIAL	0.0119																													
	BURIED	0.0205																													
	UNDGRND	0.0510																													
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 JUST Input file worksheet.																															

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TABLE - SPAN INV SHEET 2A / 4		LOOP FACILITY INPUT COPPER CABLE DATA - BY CABLE SHEATH DETAIL FOR										LCAT Rpt: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE/PRCV: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS ISDN										STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 08:49	
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	\$										
60	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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TABLE - SPAN_INV
SHEET 2 / 4

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LCAT Rel: 1.0.4
Issued: 07/31/95

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LOOP COST ANALYSIS TOOL

Bellcore (R)

SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET ALCAT Ver: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1996
TEST CASE: 1996
DATE: 1
LAST UPDATE: 29-Oct-96
TIME: 08:49COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 2 - BUSINESS ISDN

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

--- TABLE 2 ---

--- TABLE 4 ---

Check = 1.00
--- TABLE 6 ---

DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES	PAIR / FOOT INVESTMENT RANGE NAME	MELDED GAUGES
CHARACTERISTICS FOR :	[F=sum(D*TYPE)]		[G=sum(E*TYPE)]		[H=F*TYPE/sum(F*TYPE)]	
AERIAL	0.620000		\$ 0.042600		\$ 0.652832	
BURIED	0.330000		\$ 0.066800		\$ 0.347368	
UNDERGRND	0.050000		\$ 0.058000			
Check =	1.000000				1.000000	

FOOTNOTES

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C:\123R24\LCATR035\FACILITY.WK1		LOOP COST ANALYSIS TOOL			Bellcore TM																																									
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTIONS MELDING WORKSHEET A FOR			LCAT Ver: 1.02 Issue Date: 07/31/95																																									
COMPANY: CINCINNATI BELL TEL.		FACILITY TYPE: COPPER CABLE			STUDY YR: 1995																																									
CITY/AREA: CINCINNATI		DESIGN TYPE: SUBFEEDER SEGMENT			TEST CASE: 1995																																									
STATE/PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS ISDN			DATE: 1																																									
					LAST UPDATE: 29-Oct-95																																									
					TIME: 08:49																																									
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...tdr)	PER FOOT INVESTMENT (pft...td)	CABLE GAUGE MIX (copper...tdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI																																									
CHARACTERISTICS FOR:																																														
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	\$ 0.001850																																									
AERIAL @ 24 GA.	0.290000	\$ 0.011900	0.8500	0.246500	\$ 0.010115																																									
BURIED @ 24 GA.	0.020000	\$ 0.020500	0.8500	0.017000	\$ 0.017425																																									
UNDGRND @ 24 GA.	0.690000	\$ 0.011000	0.8500	0.586500	\$ 0.009350																																									
AERIAL @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																																									
BURIED @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																																									
UNDGRND @ 22 GA.	0.000000	\$ 0.000000	0.0000	0.000000	\$ 0.000000																																									
--- TABLE 2 --- <table border="1"> <thead> <tr> <th>DATA DESC.</th> <th>CABLE TYPE MIX RANGE NAME</th> <th>MELDED GAUGES</th> </tr> </thead> <tbody> <tr> <td colspan="3">CHARACTERISTICS FOR:</td> </tr> <tr> <td>AERIAL</td> <td></td> <td>[F=sum(Dtype)]</td> </tr> <tr> <td>BURIED</td> <td></td> <td>0.290000</td> </tr> <tr> <td>UNDERGRND</td> <td></td> <td>0.020000</td> </tr> <tr> <td></td> <td></td> <td>0.690000</td> </tr> <tr> <td colspan="2">Check =</td> <td>1.000000</td> </tr> </tbody> </table> --- TABLE 4 --- <table border="1"> <thead> <tr> <th>PAIR /FOOT INVESTMENT RANGE NAME</th> <th>MELDED GAUGES</th> </tr> </thead> <tbody> <tr> <td colspan="2">[G=sum(Etype)]</td> </tr> <tr> <td></td> <td>\$ 0.011900</td> </tr> <tr> <td></td> <td>\$ 0.020500</td> </tr> <tr> <td></td> <td>\$ 0.011000</td> </tr> </tbody> </table> --- TABLE 6 --- <table border="1"> <thead> <tr> <th>PAIR /FOOT INVESTMENT RENORMALIZED AERIAL/BURIED</th> <th>MELDED GAUGES</th> </tr> </thead> <tbody> <tr> <td colspan="2">[H=sum(Ftype)/sum(Ftype)]</td> </tr> <tr> <td></td> <td>\$ 0.935484</td> </tr> <tr> <td></td> <td>\$ 0.064516</td> </tr> <tr> <td colspan="2">Check =</td> </tr> </tbody> </table>						DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES	CHARACTERISTICS FOR:			AERIAL		[F=sum(Dtype)]	BURIED		0.290000	UNDERGRND		0.020000			0.690000	Check =		1.000000	PAIR /FOOT INVESTMENT RANGE NAME	MELDED GAUGES	[G=sum(Etype)]			\$ 0.011900		\$ 0.020500		\$ 0.011000	PAIR /FOOT INVESTMENT RENORMALIZED AERIAL/BURIED	MELDED GAUGES	[H=sum(Ftype)/sum(Ftype)]			\$ 0.935484		\$ 0.064516	Check =	
DATA DESC.	CABLE TYPE MIX RANGE NAME	MELDED GAUGES																																												
CHARACTERISTICS FOR:																																														
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Check =																																														
FOOTNOTES PROVIDED TO P...C																																														

C:\123R24\LCATRC35\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore TM
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/SDN		STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 08:49
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
NOT BE USED PRIOR TO RELEASE TO PUCO				
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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TABLE - SPAN_INV
SHEET 3 / 4

HELP SCREEN**Bellcore** (TM)

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 = (# of xmsnpr + # of suptpr) / vgcheqv

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C:\123R24\LCATR035\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore TM
SPAN INV - WORKSHEET Sheet 3 / 3 COMPANY: CINCINNATI BELL TEL. CITY / AREA: OHIO STATE / PROV: CINCINNATI		COPPER CABLE 25' RIBBONS WELDING WORKSHEET B FOR FACILITY TYPE: COPPER CABLE for DLC DESIGN TYPE: FEEDER SEGMENT SERVICE CLASS: BAND 2 - BUSINESS ISDN		LCAT Rpt: 1.0.4 Issue Date: 07/31/95 STUDY YR: 1995 TEST CASE: 1995 DATE: 1 LAST UPDATE: 29-Oct-95 TIME: 08:49
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 * (BFI _{eqg}) ¹ (D)	REPEATER BY GAUGE (BPIR _{eqG}) (E=C)	WORKING CHANNEL INVESTMENT / FOOT (ADLCPI _{eqg}) (F=D+E)	FOR DLC Gauge : 24.00 - TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT (ADLCPI _{eq})
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 use 4 wire.				

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CA123R24LCATRO35/FACILITY		LOOP COST ANALYSIS TOOL		Bellcore [®]								
TABLE - SPAN_INV SHEET 4/4		LOOP FACILITY INPUT SERVICE ACCESS SEGMENT FOR		LCAT Rel: 1.0.4 Issued: 07/31/95								
COM1 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 ISDN		LAST UPDATE: 29-Oct-96 TIME: 08:48								
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="display: inline-table; vertical-align: top;"> <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="display: inline-table; vertical-align: top;"> <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="display: inline-table; vertical-align: top;"> <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="display: inline-table; vertical-align: top;"> <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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ALCATR035\FACILITY
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HELP SCREEN

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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.

NO INFORMATION TO BE
GIVEN
PRIOR TO RELEASE TO PUBLIC
PROVIDED TO PUCO

***** 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\LCATR035\FACTORS

LOOP COST ANALYSIS TOOL

Bellcore[®]

TABLE - FACTORS

SHEET 1 / 1

INVESTMENT RELATED FACTOR TABLES

FOR

ANNUALIZATION FACTORS

INVESTMENT YEAR : 1996

STUDY YEAR : 1996

LCAT Rel : 1.0.4

Issued : 3/31/95

STUDY YR : 1996

TEST CASE : 1

LAST UPDATE : 17-Jan-97

TIME : 15:22

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

SERVICE CLASS: BAND 2 - BUSINESS ISDN

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	0.2689
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\LCATR035\INVEST		LOOP COST ANALYSIS TOOL			Bellcore (R)	
TABLE - EQUIP_INV Sheet 1 of 1 COMPANY: CINCINNATI BELL TEL CITY / AREA : CINCINNATI STATE / PROV : OHIO		DATA REFERENCE TABLE EQUIPMENT & OTHER INVESTMENTS FOR INVESTMENT YEAR: 1996 SERVICE LEVEL: NARBAND SERVICE CLASS: BAND 2 - BUSINESS ISDN			LCAT Ref: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 08:51	
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				\$ 0.00		
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	\$ 361.80	\$ 39.17	\$ 348.82
For an Integrated DLC Equipment Arrangement			\$ 0.00	\$ 0.00	\$ 0.00	\$ 348.82
						\$ 141.70
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL :						
1. For a Hub with nonFiber Extensions or nonHub Arrangement			\$ 49.18	\$ 3.88	\$ 53.79	\$ 2.01
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
Pl: -						
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						\$ 0.00
[Unit Investment denotes average weighted unit E.F.I Investment at DS0, DS1, or DS3 service equiv.]						

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C:\123R24\LCATR035\INVEST.WK1

TABLE - EQUIP_INV

HELP INFORMATION

Bellcore (R)

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 Sites	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*****

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C:\123R24\LCATR035\LOADING		LOOP COST ANALYSIS TOOL		Bellcore [®]
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 ISDN		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 08:52
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	0.7000	
Copper Feeder Cable	0.6000	CC DLC Channel Unit	0.7000	
Copper Distribution Cable	0.3500	REM DLC Channel Unit	0.7000	
Copper Entrance Cable	1.0000	CC DLC Multiplex System	0.7000	
Copper Building Cable	0.3500	REM DLC Multiplex System	0.7000	
Copper Building Terminal	0.3500	CC Digital Signal Crossconnect Bay	0.7000	
		REM Digital Signal Crossconnect Bay	0.7000	
ALL Fiber Cables, or		ALL Fiber Optic Multiplex Equip., or	1.0000	
Fiber Feeder Cable	0.3300	CC Fiber Optic Channel Unit	1.0000	
Fiber Distribution Cable		REM Fiber Optic Channel Unit	1.0000	
Fiber Entrance Cable		CC Fiber Optic Multiplex System	1.0000	
Fiber Building Cable		REM Fiber Optic Multiplex System	1.0000	
Fiber Building Terminal		CC Lightguide Terminating Equipment	1.0000	
		REM Lightguide Terminating Equipment	1.0000	
Poles	1.0000	Remote Housing: CEV	1.0000	
Conduit	1.0000	PC Hut	1.0000	
		Comm. Svc. Cab.	1.0000	

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TABLE - ADDNL_INV
Sheet 1 of 2

HELP SCREEN

Bellcore (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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C:\123R24\LCATR035\LOADING		LOOP COST ANALYSIS TOOL		Bellcore[®]																																											
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 ISDN		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 08:52																																											
POLE LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Copper Cable Pole Investment Factor</td> <td style="width: 20%; text-align: center;">0.2530</td> <td style="width: 20%; text-align: center;">0.2530</td> </tr> <tr> <td>Copper Cable Pole Unit Investment</td> <td></td> <td></td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>Fiber Cable Pole Investment Factor</td> <td style="text-align: center;">0.1965</td> <td style="text-align: center;">0.1965</td> </tr> <tr> <td>Fiber Cable Pole Unit Investment</td> <td></td> <td></td> </tr> </table>		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			SEGMENT DISTRIBUTION FEEDER ③ use DEFAULT DROP WIRE (DW) INVESTMENT ADJUSTMENT: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">The Cable PFI is being Adjusted for DW ?</td> <td style="text-align: center;">NO</td> </tr> <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> <tr> <td colspan="2" style="text-align: center;">use DEFAULT ③</td> <td style="text-align: center;">③</td> </tr> <tr> <td colspan="2" style="text-align: center;">for: CENT. OFC.</td> <td style="text-align: center;">REMOTE SITE</td> </tr> </table>				The Cable PFI is being Adjusted for DW ?		NO	Aerial Cable			Buried Cable			Underground Cable			use DEFAULT ③		③	for: CENT. OFC.		REMOTE SITE									
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CONDUIT LOADINGS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Copper Cable Conduit Investment Factor</td> <td style="width: 20%; text-align: center;">0.5165</td> <td style="width: 20%; text-align: center;">0.5165</td> </tr> <tr> <td>Copper Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> <tr> <td colspan="3"> </td> </tr> <tr> <td>Fiber Cable Conduit Investment Factor</td> <td style="text-align: center;">0.5232</td> <td style="text-align: center;">0.5232</td> </tr> <tr> <td>Fiber Cable Conduit Unit Investment</td> <td></td> <td></td> </tr> </table>		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			LAND LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Other or ALL ③</td> <td style="width: 20%; text-align: center;">0.0056</td> <td style="width: 20%; text-align: center;">0.0056</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.0056</td> <td style="text-align: center;">0.0056</td> </tr> </table> BUILDING LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Other or ALL ③</td> <td style="width: 20%; text-align: center;">0.1316</td> <td style="width: 20%; text-align: center;">0.1316</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1316</td> <td style="text-align: center;">0.1316</td> </tr> </table> MISC. EQUIPMENT & POWER LOADING FACTORS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Other or ALL ③</td> <td style="width: 20%; text-align: center;">0.1127</td> <td style="width: 20%; text-align: center;">0.1127</td> </tr> <tr> <td>Digital Loop Carrier</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> <tr> <td>Fiber Optic Mux</td> <td style="text-align: center;">0.1127</td> <td style="text-align: center;">0.1127</td> </tr> </table>				Other or ALL ③	0.0056	0.0056	Digital Loop Carrier	0.0056	0.0056	Fiber Optic Mux	0.0056	0.0056	Other or ALL ③	0.1316	0.1316	Digital Loop Carrier	0.1316	0.1316	Fiber Optic Mux	0.1316	0.1316	Other or ALL ③	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 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	cpifti	_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	fpifti	_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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PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

C:\123R24\LCATR035\SPAN		LOOP COST ANALYSIS TOOL		Belloore [®]																
INPUT - PLANT CHAR. Sheet 1 / 5 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 2 - BUSINESS ISDN		LCAT Ref: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 08:58																
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 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			ACTION SEGMENT <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> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>TOTAL LOOP</td> <td>8151.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td>1138.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td>300.0</td> </tr> <tr> <td>PRIMARY</td> <td>6715.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </table>		PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR	TOTAL LOOP	8151.0	DISTRIBUTION	1138.0	SUB-PRIMARY	300.0	PRIMARY	6715.0	PRIMARY-EXTENSION	
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LOOP LENGTH AT EACH COST BAND BAND 1 BAND 2 BAND 3 BAND 4 BAND 5			DISTRIBUTION OF COST BANDS IN THE NETWORK BAND 1 BAND 2 BAND 3 BAND 4 BAND 5																	
LAST 8151.0			LAST PR-9960 Coded Hint																	

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C:\123R24\LCATR035\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
INPUT - PLANT_CHAR		LOOP FACILITY INPUT		LCAT Ref: 1.0.4	
Sheet 1 / 1		LOOP LENGTH CRITERIA AND NETWORK CHARACTERISTICS		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: 29-Oct-96	
		SERVICE CLASS: BAND 2 - BUSINESS ISDN		TIME: 08:58	
FLAT RATE BASIS DATA WITHOUT COST BANDS FOR A NETWORK CIRCUIT CASE STUDY					
LOOP LENGTH ① 8151 FEET The diagram illustrates a network loop structure. At the top, a horizontal line represents the 'LOOP LENGTH' of 8151 FEET, marked with a circled 1. Below this, a series of components are connected in a loop. From left to right: a 'NETWORK INTERFACE' box, a 'SERVICE ACCESS POINT' box, a 'SERVING AREA INTERFACE' box, a 'REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) REMOTE NODE (LOOP TRANSFER)' box, a 'FIBER RUB' box, and an 'END OFFICE' box. The connections between these boxes are labeled with various network segments: 'DROP' (between Network Interface and Service Access Point), 'DISTRIBUTION' (between Service Access Point and Serving Area Interface, marked with a circled 2 and 1136 FEET), 'SUB-PRIMARY' (between Serving Area Interface and Remote Terminal, marked with a circled 3 and 7015 FEET), 'FEEDER' (between Remote Terminal and End Office, marked with a circled 4), 'EXTENSION' (between Remote Terminal and Fiber Rub, marked with a circled 5), and 'PRIMARY' (between Fiber Rub and End Office, marked with a circled 6). A 'FIBER DISTRIBUTION' label is also present between the Serving Area Interface and the Remote Terminal. A 'PRIOR TO RELEASE TO PUBLIC' watermark is visible across the diagram.					

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LOOP COST ANALYSIS TOOL		Bellcore TM
CA1123R24LCATROSS.SPAN	LOOP FACILITY INPUT HELP SCREEN	LCAT Rel : 1.0.4 Issued : 07/31/85
INPUT - PLANT CHAR. Sheet 1 of 2		
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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C:\123R24\LCAT035\SPAN	LOOP COST ANALYSIS TOOL		Bellcore®
INPUT - PLANT_CRAH. Sheet 2 of 2	HELP SCREEN		LCAT Rev 31.0.4 Issued : 07/31/85
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\LCATR035\SPAN		LOOP COST ANALYSIS TOOL				Bellcore [®]	
INPUT - PLANT_CHAR.		LOOP FACILITY INPUT				LCAT Rev: 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 2 - BUSINESS ISDN				LAST UPDATE: 29-Oct-96	
						TIME: 08:58	
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=D/C]
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\LCATR035\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 ISDN				LAST UPDATE: 29-Oct-95																																																																																																																																											
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET B				TIME : 08:58																																																																																																																																											
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 ...		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="2" style="text-align: left;">CAPACITY</th> <th colspan="2" style="text-align: left;">AERIAL FIBER</th> <th colspan="2" style="text-align: left;">BURIED FIBER</th> <th colspan="2" style="text-align: left;">UNDERGROUND FIBER</th> </tr> <tr> <th></th> <th>[C]</th> <th>[A]</th> <th>[B]</th> <th>[A]</th> <th>[B]</th> <th>[A]</th> <th>[B]</th> </tr> </thead> <tbody> <tr><td>4 FIBER CABLE</td><td>2 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>6 FIBER CABLE</td><td>3 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>12 FIBER CABLE</td><td>6 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>18 FIBER CABLE</td><td>9 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>24 FIBER CABLE</td><td>12 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>36 FIBER CABLE</td><td>18 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>48 FIBER CABLE</td><td>24 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>60 FIBER CABLE</td><td>30 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>72 FIBER CABLE</td><td>36 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>84 FIBER CABLE</td><td>42 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>96 FIBER CABLE</td><td>48 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>144 FIBER CABLE</td><td>72 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>192 FIBER CABLE</td><td>96 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr><td>216 FIBER CABLE</td><td>108 pr</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td><td>0.000</td><td>\$ 0.00</td></tr> <tr> <td colspan="2" style="text-align: right;">SUBTOTAL</td> <td></td> <td>\$ 0.00</td> <td></td> <td>\$ 0.00</td> <td></td> <td>\$ 0.00</td> </tr> </tbody> </table>								CAPACITY		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
CAPACITY		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																																																																																																																																										
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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																																																																																																																																										
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84 FIBER CABLE	42 pr	0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00																																																																																																																																										
96 FIBER CABLE	48 pr	0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00																																																																																																																																										
144 FIBER CABLE	72 pr	0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00																																																																																																																																										
192 FIBER CABLE	96 pr	0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00																																																																																																																																										
216 FIBER CABLE	108 pr	0.000	\$ 0.00	0.000	\$ 0.00	0.000	\$ 0.00																																																																																																																																										
SUBTOTAL			\$ 0.00		\$ 0.00		\$ 0.00																																																																																																																																										

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C:\123R24\LCATR035\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 Rev: 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: 29-Oct-96 TIME: 06:56						
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A CUMULATIVE LENGTHS BY CABLE PAIR FOOT									
CABLE SHEATH SIZES	CAPACITY 10X	26 GA.			24 GA.			22 GA.			
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	
40 COPPER CABLE	20 pr										
50 COPPER CABLE	25 pr										
80 COPPER CABLE	40 pr										
100 COPPER CABLE	50 pr										
140 COPPER CABLE	70 pr										
200 COPPER CABLE	100 pr										
400 COPPER CABLE	200 pr										
600 COPPER CABLE	300 pr										
800 COPPER CABLE	400 pr										
1200 COPPER CABLE	600 pr										
1800 COPPER CABLE	900 pr										
2400 COPPER CABLE	1200 pr										
3000 COPPER CABLE	1500 pr										
3600 COPPER CABLE	1800 pr										
4200 COPPER CABLE	2100 pr										
4800 COPPER CABLE	2400 pr										0.0
5400 COPPER CABLE	2700 pr										tdrcapri
6000 COPPER CABLE	3000 pr										0.0
7200 COPPER CABLE	3600 pr										tdrcapri
8400 COPPER CABLE	4200 pr										0.0
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 tdrcapri
TOTALS				0.0			0.0			0.0	0.0 tdrcapri

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C:\125R24\LCATR035\SPAN		LOOP COST ANALYSIS TOOL						Bellcore			
PLANT CHAR - WORKSHEET 3B Sheet 3b / 5		LOOP FACILITY INPUT COPPER CABLE SPAN INVESTMENT FOR THE FEEDER LAYER FOR						LCAT Rel : 1.0.4 Issued : 07/31/85			
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR : 1996 TEST CASE : 1			
CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 2 - BUSINESS						LAST UPDATE: 29-Oct-96			
STATE: OHIO		WORKSHEET B						TIME : 06:58			
NETWORK CIRCUIT LAYOUT STUDIES											
CUMMULATIVE INVESTMENTS BY CABLE PAIR FOOT											
CABLE SHEATH SIZES		CAPACITY	26 GA.			24 GA.			22 GA.		
	idx		AERIAL	BURIED	UNDRD	AERIAL	BURIED	UNDRD	AERIAL	BURIED	UNDRD
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
60 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	
UNDRD CABLE SUBTOTAL					0.00		0.00			0.00	0.00

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C:\123R24\LCATR035\SPAN		LOOP COST ANALYSIS TOOL						Balkore		
INPUT - PLANT_CHAR. Sheet 4a / 5		LOOP FACILITY INPUT COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER FOR						LCAT Ref: 1.0.4 Issued: 07/31/95		
COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		INVESTMENT YEAR: 1998 LOOP STUDY YEAR: 1998 SERVICE CLASS: BAND 2 - BUSINESS						STUDY YR: 1998 TEST CASE: 1 LAST UPDATE: 29-Oct-98 TIME: 08:58		
NETWORK CIRCUIT LAYOUT STUDIES		WORKSHEET A								
		CUMULATIVE LENGTHS BY CABLE PAIR FOOT								
CABLE SHEATH SIZES		26 GA.			24 GA.			22 GA.		
	CAPACITY 100x	AERIAL	BURIED	UNDERD	AERIAL	BURIED	UNDERD	AERIAL	BURIED	UNDERD
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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 PROVIDED TO PUCO

C:\123R24\LCATR035\SPAN			LOOP COST ANALYSIS TOOL									Bellcore	
PLANT CHAR - WORKSHEET 48 Sheet 46 / 6			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: 1995 LOOP STUDY YEAR: 1995									STUDY YR: 1995 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 08:58	
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	defect	
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	defect	
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	defect	
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		

PROVIDED

LOOP COST ANALYSIS TOOL										Bellcore [®]																																																																																																				
C:\123R24\LCATR035\SPAN										LCAT Rel: 1.0.4																																																																																																				
INPUT - PLANT_CHAR.										Issued: 07/31/95																																																																																																				
Sheet 5 / 5										STUDY YR: 1998																																																																																																				
LOOP FACILITY INPUT										TEST CASE: 1																																																																																																				
DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX										LAST UPDATE: 29-Oct-98																																																																																																				
FOR										TIME: 09:58																																																																																																				
COMPANY: CINCINNATI BELL TEL										INVESTMENT YEAR: 1998																																																																																																				
CITY / AREA: CINCINNATI										LOOP STUDY YEAR: 1998																																																																																																				
STATE / PROV: OHIO										SERVICE CLASS: BAND 2 - BUSINESS ISDN																																																																																																				
FIBER BANDWIDTH																																																																																																														
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☐ BIDIRECTIONAL																																																																																																														
LEVEL OF SERVICE: <u>NARBAND</u>																																																																																																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">BITRATE INDEX</th> <th style="width: 10%;">1</th> <th style="width: 10%;">2</th> <th style="width: 10%;">3</th> <th style="width: 10%;">4</th> <th style="width: 10%;">5</th> <th style="width: 10%;">6</th> <th style="width: 10%;">7</th> <th style="width: 10%;">SERVICE LEVEL</th> <th style="width: 10%;">PROTECTION</th> <th style="width: 10%;">WEIGHTED EQUIVALENT CHANNELS</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></td> <td></td> <td></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></td> <td></td> <td></td> </tr> <tr> <td>VOICE GRADE CHANNELS</td> <td>672</td> <td>1344</td> <td>2016</td> <td>2688</td> <td>0</td> <td>0</td> <td>0</td> <td>MULTIPLE (SLM)</td> <td>n: 1 [E]</td> <td>PER FO PAIR [F]</td> </tr> <tr> <td>FEEDER - PRIMARY</td> <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> <tr> <td>FEEDER - EXTENSION</td> <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> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												BITRATE INDEX	1	2	3	4	5	6	7	SERVICE LEVEL	PROTECTION	WEIGHTED EQUIVALENT CHANNELS	FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0				MUX DS3 MULTIPLIER	1	2	3	4	0	0	0				VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	MULTIPLE (SLM)	n: 1 [E]	PER FO PAIR [F]	FEEDER - PRIMARY	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04	FEEDER - EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04																																	
BITRATE INDEX	1	2	3	4	5	6	7	SERVICE LEVEL	PROTECTION	WEIGHTED EQUIVALENT CHANNELS																																																																																																				
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0																																																																																																							
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0																																																																																																							
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	MULTIPLE (SLM)	n: 1 [E]	PER FO PAIR [F]																																																																																																				
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FEEDER - EXTENSION	0.0000	0.1370	0.7810	0.0820	0.0000	0.0000	0.0000	2	1	1979.04																																																																																																				
PROVIDED TO PUCO																																																																																																														
FOOTNOTES 1 Where Service Level Multiple EQUALS {1 for NARBAND, 25 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: OHIOLCAT Rel: 1.0.4
Issued: 07/31/95
STUDY YR: 1996
TEST CASE: 1
LAST UPDATE: 29-Oct-96
TIME: 08:58

WORKSHEET DS

DIGITAL SIGNAL TABLE (discsig.tbl)						
SELECT	MODE	HIERARCHY	BNDWIDTH	DS1MULT	DS3MULT	VEGE
0						
1		DS1	1.5 Mbps	1	0.04	24
2		DS1	1.5 Mbps	1	0.04	24
3	MODE3	VT1.5	1.5 Mbps	1	0.04	24
4		VT2	2 Mbps	1	0	24
5		ET	2 Mbps	1	0.06	30
6	MODE1	DS1C	3.2 Mbps	NA		48
7	MODE2	DS1C	3.2 Mbps		2	0.07
8		VT3	3.2 Mbps	2	0.07	48
9		4 Mbps		2	0	56
10		DS2	6.3 Mbps	4	0.14	72
11	MODE4	DS2	6.3 Mbps	NA		72
12		VT6	6.3 Mbps	4	0.14	84
13		E2	8 Mbps	4	0.25	120
14		E3	18 Mbps	16	1	480
15	X	DS3	45 Mbps	28	1	672
16	STS1	OC1	150 Mbps	28	1	672
17	X		190 Mbps		2	1344
18			190 Mbps		2	1344
19		DS4	135 Mbps		3	2016
20		DS4NA	135 Mbps		3	2016
21		DS4NA	139 Mbps		3	2016
22		E4	140 Mbps		3	1920
23		14M	139 Mbps		6	4032
24		PT40	139 Mbps		6	4032
25	X	OC3	155 Mbps		3	2016
26	X		180 Mbps		4	2688
27			417 Mbps		9	6048
28		OC9	466 Mbps		9	6048
29		OC12	560 Mbps		12	7680
30			565 Mbps		12	6048
31			1.2 Gbps		24	18432
32			1.7 Gbps		24	24192
33		OC24	1.8 Gbps		24	24192
34			2.5 Gbps		24	34560
35						
36						
OFFSET						
0	1	2	3	4	5	6
						7

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PLANT CHAR. - WORKSHEET F Sheet 1 of 1		LOOP LENGTH DEVELOPMENT WORKSHEET		LCAT Rel: 1.0.4 Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		INVESTMENT YEAR: 1996		STUDY YR.: 1996	
CITY/AREA: CINCINNATI		LOOP STUDY YEAR: 1996		TEST CASE: 1	
STATE: OHIO		SERVICE CLASS: BAND 2 - BUSINESS		LAST UPDATE: 20-Oct-96	
		WORKSHEET F		TIME: 08:58	
[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]
[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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PROVIDED TO PUCO

NOTE - SPAN MIDPOINT [G] equals the SORT $((F_{\text{curr}}^2/2) + (F_{\text{prev}}^2/2))$

ERROR MESSAG 0

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COMPANY: CINCINNATI BELL TEL		FACILITY SEGMENT: SUB--PRIMARY PLANT		LCAT Release: 1.0.4	
CITY / AREA: CINCINNATI		SERVICE CLASS: BAND 2 - BUSINESS ISDN		Issue Date: 7/31/95	
STATE / PROV: OHIO				STUDY YR: 1996	
				TEST CASE: 1	
				RUN DATE: 23-Jan-97	
				TIME: 13:46	
1996 UNIT MONTHLY RECURRING COST BY ACCOUNT					
(SEE NOTE)					
TOTAL					
AVG. WEIGHTED					
300					

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					
21					
22 DIRECT RESOURCES					
23 LAND 20C \$ 0.00					
24 BUILDING 10C \$ 0.00					
25 BLDG ENTRANCE CABLE 12C \$ 0.00					
26 INTRABLDG CABLE 52C \$ 0.00					
27 AERIAL CABLE (COPPER) 22C \$ 0.06					
28 BURIED CABLE (COPPER) 45C \$ 0.01					
29 UNDERGROUND (CU) CA. 5C \$ 0.12					
30 CO EQPT - P GAIN TERM 257C \$ 0.00					
31 CO EQPT - P GAIN CHAN 257C \$ 0.00					
32 CO EQPT - FO MUX TERM 857C \$ 0.00					
33 CO EQPT - FO MUX CHAN 857C \$ 0.00					
34 CO EQPT - ANALOG SW 77C \$ 0.00					
35 CO EQPT - DIGITAL SW 377C \$ 0.00					
36 AERIAL CABLE (FIBER) 822C \$ 0.00					
37 BURIED CABLE (FIBER) 845C \$ 0.00					
38 UNDERGROUND (FO) CA. 85C \$ 0.00					
39 CONNECTORS 57C \$ 0.00					
40 MISC. COM EQP & PWR 57C \$ 0.00					
41 POLE LINE 1C 0.0 \$ 0.01					
42 CONDUIT 4C 0.0 \$ 0.04					
43					
44 SPAN SUMMARY \$ 0.24 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.24					
45					
46 AVG. WTD. SPAN SUMMARY \$ 0.24 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.00 \$ 0.24					
47					
48 NOTE: [sum(INV _{ACCT} ^{BAND} * MIX ^{BAND})]					

C:\123R24\LCAT\CALC\CUPRGN		LOOP COST ANALYSIS TOOL										Bellcore	
CDLC PLANT - WORKSHEET 1		ACCOUNT INVESTMENT WORKSHEET										LCAT Release: 1.0.4	
Sheet 2 of 3		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	
COMPANY: CINCINNATI BELL TEL		FACILITY TYPE: COPPER DIG LOOP CARR										TEST CASE: 1	
CITY / AREA: OHIO		CIRCUIT DESIGN: 11C										DATE: 23-Jan-97	
STATE / PROV: CINCINNATI		SERVICE CLASS: BAND 2 - BUSINESS ISDN										TIME: 01:49 PM	
PLANT ITEM	PLANT ACCT CODE	FIXED VARI S-NK	RESOURCE ALLOCATION	1996 UNIT INVESTMENTS BY ACCOUNT	CIRCUIT QUANTITY [G]	1996 UNIT LOOP INVESTMENT EXCL UTILIZATION		ADMIN. UTIL. LINE FILL [J]	1996 UNIT LOOP INVESTMENT INCL UTILIZATION				
				COST EQUATION [F]		SHARED RESOURCES [H=F*G]	DIRECT RESOURCES [H'=F*G]		SHARED RESOURCES [K=H/J]	DIRECT RESOURCES [K'=H'/J]			
LAND	20C	F	SHARED	3.16	1	\$ 3		1.0000	\$ 3				
BUILDING	10C	F	SHARED	74.31	1	\$ 74		1.0000	\$ 74				
BLDG ENTRANCE CABLE	12C	---	---					1.0000					
INTRABLDG CABLE	52C	---	---					0.3500					
AERIAL CABLE (COPPER)	22C	V	DIRECT	20.54	1		\$ 21	0.6000		\$ 34			
BURIED CABLE (COPPER)	45C	V	DIRECT	2.44	1		\$ 2	0.6000		\$ 4			
UNDERGROUND (CU) CA.	5C	V	DIRECT	45.18	1		\$ 45	0.6000		\$ 75			
CO EQPT - P GAIN TERM	257C	F	DIRECT	198.55	1		\$ 199	0.7000		\$ 284			
CO EQPT - P GAIN CHAN	257C	V	DIRECT	363.30	1		\$ 363	0.7000		\$ 519			
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	1.81	1	\$ 2		1.0000	\$ 2				
POLE LINE	1C	F	DIRECT	8.66	1		\$ 9	1.0000		\$ 9			
CONDUIT	4C	F	DIRECT	38.89	1		\$ 39	1.0000		\$ 39			
TOTALS									\$ 79	\$ 964			
										\$ 1,043			
										FEEDITY			

NO INVESTMENT IN FEEDER
PRIOR TO 1996
PROVIDED TO PUCO

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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CATALOG/UPRGN		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.		Issue Date: 8/31/95		
CITY/AREA: CINCINNATI		FACILITY SEGMENT: PRIMARY FEEDER SEGMENT		STUDY YR: 1995		
STATE/PROV: OHIO		CIRCUIT DESIGN: COPPER DIG LOOP CWR		TEST CASE: 1		
		SERVICE CLASS: BAND 2 - BUSINESS 16DN		DATE: 23-Jan-97		
				TIME: 01:50 PM		
logic-14a 1995 UNIT MONTHLY RECURRING COST BY ACCOUNT (SEE NOTE)						
BAND		0		TOTAL		
PLANT MIX		1.0000		AVG. WEIGHTED		
ACCT AVG				INVESTMENT		
PLANT ITEM	CODE LGTH	28169				
	SEG LGTH	23810				
SHARED RESOURCES				23810		
LAND	20C	\$ 0.06		\$ 0.06		
BUILDING	10C	\$ 1.82		\$ 1.82		
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	\$ 0.06		\$ 0.06		
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	\$ 1.15		\$ 1.15		
BURIED CABLE (COPPER)	45C	\$ 0.12		\$ 0.12		
UNDERGROUND (CU) CA.	5C	\$ 2.30		\$ 2.30		
CO EQPT - P GAIN TERM	257C	\$ 9.17		\$ 9.17		
CO EQPT - P GAIN CHAN	257C	\$ 16.79		\$ 16.79		
CO EQPT - FO MUX TERM	857C			\$ 0.00		
CO EQPT - FO MUX CHAN	857C			\$ 0.00		
CO EQPT - ANALOG SW	77C			\$ 0.00		
CO EQPT - DIGITAL SW	377C			\$ 0.00		
AERIAL CABLE (FIBER)	822C			\$ 0.00		
BURIED CABLE (FIBER)	845C			\$ 0.00		
UNDERGROUND (FO) CA.	85C			\$ 0.00		
CONNECTORS	57C			\$ 0.00		
MISC. COM EQP & PWR	57C			\$ 0.00		
POLE LINE	1C	\$ 0.27		\$ 0.27		
CONDUIT	4C	\$ 0.82		\$ 0.82		
SPAN SUMMARY		32.56	0.00	0.00	0.00	32.56
AVG. WTD. SPAN SUMMARY		32.56	0.00	0.00	0.00	0.00
NOTE: [SUM(INV _{ACCT} * MIX _{SPAN})]						

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C:\123R24\LCAT\CALC\FOPRGN

Bellcore^(R)

RUN - FO MUX

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

23-Jan-97

Issued: 7/31/95

10:42

FEEDER SEGMENT COST MODEL - FIBER IN THE LOOP TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS ISDN 18001 FEET - INFINITY INT

CURRENT TEST PLAN :

CURRENT JOB IDENT. CINCINNATI

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

....your run is finished

PROVIDED TO PUCO

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

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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: 1996	
CIRCUIT DESIGN: 31 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - BUSIN SERVICE LEVEL: NAR BAND										LAST RUN: 23-Jan-97	
										TIME: 13.52	
CA123R241LCATCALCOPRGN.WK1 FO_MUX - WORKSHEET 3 Sheet 1 of 3 COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
from star_tbi: 300 cur_length 15134.5 cur_length SEGMENT LENGTH IN FEET fo3pri_seglength [A] 23810 CO TO HUB LINK ON FIBER OPTIC FACILITIES UNDERGRND 0.520000 1.000000											
from bw_max: f = 1979.04 wtdqvmn EFFECTIVE LENGTH MLD CABLE SUBSET DESIGN INVEST. PER BY TYPE OF PLANT PAIR FOOT [C=A*B/f] [D] 5.77 0.193000 0.000000 0.00 0.269400 0.520000 6.26 0.182700											
CABLE COMPONENTS (NOTE 5) WEIGHTED EFFECTIVE LGTH CABLE INVESTMENT [E=C*D] 1.11 WEIGHTED TERMINAL INVESTMENT [U1*DTC] 0.00 AIR DRYER INVESTMENT PER PAIR [E*tdr] 0.00 DROP WIRE ADJUSTMENT PER PAIR [E*tdr] 0.00 WEIGHTED DROP WIRE INVESTMENT PER PAIR [U1*DTC] 0.00											
EQUIPMENT INVESTMENT LOADINGS INVEST. 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 INVEST. (MUXc.o.+DLCc.o.) x MCEPfc.o.) = \$ 7.79 MCE&P INVEST. (MUXrem+DLCrem) x MCEPfc.o.) = \$ 61.57 MCE&P INVEST. (CA CONN x MCEPfc.o.) = \$ 0.00 MCE&P INVEST. (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 OTH (LANDfrem) = 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. = \$ 0.43 LAND INVST. (MUX+DLC+MCEP) x LANDfrem = \$ 3.40 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 OTH (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. = \$ 10.12 BLDG INVST. (MUX+DLC+MCEP) x BLDGfrem = \$ 80.00											
OUTSIDE PLANT LOADINGS (NOTE 5): ADJUST. / LOAD FACTORS TO AERIAL PR NA 0.0000 ADJUST. / LOAD FACTORS TO BURIED PR NA 0.0000 ADJUST. / LOAD FACTORS TO UGD PR 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_ \$ 141.70 \$ 348.82 UNIV DLC EQUIP INVEST. (CU COMUX) = unvdlcco_ \$ 39.17 \$ 361.90 UNIV DLC EQUIP INVEST. (CU RTMUX) = unvdlcrt_ \$ 141.70 \$ 348.82 FIBER MUX EQUIP. INV. (FO COMUX) = hubmuxcco_ \$ 3.88 \$ 49.18 FIBER MUX EQUIP. INV. (FO RTMUX) = hubmuxcrt_ \$ 2.01 \$ 53.79											
OTHER INVESTMENT POLE LINE FACTOR (PLf) = tpff 0.0000 0.1985 POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLf) = \$ 0.66 UNDERGROUND CONDUIT FACTOR (PLf) = fucf 0.0000 0.5232 CONDUIT INVESTMENT (UTIL UNDERGRND INVST x UCf) = \$ 1.81											
LOOP TOPOLOGY AVERAGE NUMBER OF HUBS NA ADDITIONAL LENGTH OF RING OSP REQUIRED NA MIX OF CENT. OFC. ANALOG INTFC 0.0000 MIX OF CENT. OFC. DIGITAL INTFC 1.0000 MIX OF UNIVERSAL DLC INTFC 0.0400 MIX OF CENT. OFC. INTEGRATED DLC INTFC 0.9800											
FOOTNOTES NOTE 1: APPARENT INCONSISTANCIES CAUSED BY COMPUTER ROUNDING. NOTE 2: THE SUBSCRIBER LINE CARRIER EQUIPMENT INVESTMENTS ARE DEVELOPED OUTSIDE OF THE SPREADSHEET WITH APPROPRIATE UTILIZATION FACTORS APPLIED. NOTE 3: TABLE 4 DEVELOPMENT IS SHOWN ON WORKSHEET B; FOR 4 WIRE SERVICES, TABLE 4 IS MULT BY 2. NOTE 4: THIS ADJUSTMENT MAY ONLY BE TAKEN AGAINST COPPER PLANT. NOTE 5: ALL DROP WIRE AND PREMISES CONN. INVEST. IS INCLUDED IN THE APPROPRIATE CABLE ACCOUNT ON THE BUILDING CABLE & TERMINATION WORKSHEET AND INCORPORATED INTO WORKSHEET E.											

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: 23-Jan-97		
										TIME: 13:52		
1996 UNIT INVESTMENTS BY ACCOUNT												
PLANT ITEM	PLANT ACCT CODE	FIXED VARI	RESOURCE ALLOCATION	COST EQUATION	CIRCUIT QUANTITY	1996 UNIT LOOP INVESTMENT EXCL. UTILIZATION		ADMIN. UTIL. LINE FILL	1996 UNIT LOOP INVESTMENT INCL. UTILIZATION			
						SHARED RESOURCES	DIRECT RESOURCES		SHARED RESOURCES	DIRECT RESOURCES		
LAND	20C	F	SHARED	3.83	1	\$ 4		1.0000	\$ 4			
BUILDING	10C	F	SHARED	90.12	1	\$ 90		1.0000	\$ 90			
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	143.27	1		\$ 143	0.7000		\$ 205		
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	363.30	1		\$ 363	0.7000		\$ 519		
CO EQPT - HI CAP TERM	857C	F	DIRECT	67.46	1		\$ 67	1.0000		\$ 67		
CO EQPT - HI CAP CHAN	857C	F	DIRECT	102.97	1		\$ 103	1.0000		\$ 103		
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	1.11	1		\$ 1	0.3300		\$ 3		
BURIED CABLE (FIBER)	845C	F	DIRECT	0.00				0.3300				
UNDERGROUND (FO) CA.	85C	F	DIRECT	1.14	1		\$ 1	0.3300		\$ 3		
CONNECTORS	57C	V	DIRECT	0.00				1.0000				
MISC. COM EQP & PWR	57C	V	SHARED	7.79	1	\$ 8		1.0000	\$ 8			
POLE LINE	1C	F	DIRECT	0.66	1		\$ 1	1.0000		\$ 1		
CONDUIT	4C	F	DIRECT	1.81	1		\$ 2	1.0000		\$ 2		
TOTALS											\$ 103	\$ 903
											\$ 1,005	feed3iy

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FOOTNOTES
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]

LOOP COST ANALYSIS TOOL										Bellcore [®]	
ANNUAL COSTS WORKSHEET										LCAT Ref: 1.0.4	
FOR: PRIMARY FEEDER PLANT										ISSUE DATE: 7/31/86	
FACILITY TYPE: FIBER IN THE LOOP										STUDY YR: 1986	
CIRCUIT DESIGN: 3 FOMUX TO HUB / REM.										TEST CASE: 1	
SERVICE CLASS: BAND 2 - BU; SERVICE LEVEL: NARABAND										LAST RUN: 23-Jan-87	
										TIME: 13.32	
COMPANY: CINCINNATI BELL TEL CITY / AREA: CINCINNATI STATE / PROV: OHIO											
1986 UNIT LOOP INVESTMENT BY ACCOUNT 1986 UNIT ANNUAL COSTS BY ACCOUNT 1986 UNIT MONTHLY RECURRING COSTS BY ACCOUNT											
PLANT ITEM	PLANT ACCT CODE	TO 1986 TPI	1986 SHARED RESOURCES to3suxaset	1986 DIRECT RESOURCES to3dixaset	ANNUAL COST FACTOR acfstart	1986 SHARED RESOURCES	1986 DIRECT RESOURCES	1986 SHARED RESOURCES to3suxaset	1986 DIRECT RESOURCES to3dixaset		
[PREVIOUS SHEET SUMMARY]	[L]	[L]	[M=K*L]	[M'=K'*L]	[N]	[P=M*N]	[P'=M'*N]	[Q=P/12]	[Q'=P'/12]		
LAND	20C	1.0000	\$ 4		0.2322	\$ 0.89		\$ 0.07			
BUILDING	10C	1.0000	\$ 90		0.2937	\$ 25.47		\$ 2.21			
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		\$ 205	0.3581		\$ 79.43		\$ 6.62		
CO EQPT - LOW CAP CHAN	257C	1.0000		\$ 519	0.3581		\$ 201.42		\$ 16.79		
CO EQPT - HI CAP TERM	857C	1.0000		\$ 67	0.3581		\$ 26.18		\$ 2.18		
CO EQPT - HI CAP CHAN	857C	1.0000		\$ 103	0.3581		\$ 39.96		\$ 3.33		
CO EQPT - ANALOG SW	77C	1.0000			0.0000						
CO EQPT - DIGITAL SW	377C	1.0000			0.3458						
AERIAL CABLE (FIBER)	822C	1.0000		\$ 3	0.2983		\$ 1.01		\$ 0.08		
BURIED CABLE (FIBER)	845C	1.0000			0.2724						
UNDERGROUND (FO) CA.	85C	1.0000		\$ 3	0.2689		\$ 0.93		\$ 0.08		
CONNECTORS	57C	1.0000			0.3581						
MISC. COM EQP & PWR	57C	1.0000	\$ 8		0.3581	\$ 3.02		\$ 0.25		\$ 0.02	
POLE LINE	1C	1.0000		\$ 1	0.3807		\$ 0.25		\$ 0.02		
CONDUIT	4C	1.0000		\$ 2	0.2521		\$ 0.46		\$ 0.04		
TOTALS			\$ 102	\$ 903		\$ 30.38	\$ 349.65	\$ 2.53	\$ 29.14		
				\$ 1,005			\$ 380.03		\$ 31.67		
				feed3ay			feed3ann		feed3mnc		

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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CA123R24LCATCALCOPRGN.WK1		LOOP COST ANALYSIS TOOL				Bellcore®	
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: 23-Jan-97	
						TIME: 13:52	
date = 1483		1995 UNIT MONTHLY RECURRING COST BY ACCOUNT				(SEE NOTE)	
BAND		0				TOTAL	
PLANT MIX		1.0000				AVG WEIGHTED	
ACCT AVG.						INVESTMENT	
PLANT FEV		26159					
CODE LGTH		23810					
SEG LGTH						23810	
SHARED RESOURCES							
7	LAND	20C		\$ 0.07			\$ 0.07
8	BUILDING	10C		\$ 2.21			\$ 2.21
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		\$ 0.25			\$ 0.25
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		\$ 6.62			\$ 6.62
37	CO EQPT - LOW CAP CHAN	257C		\$ 16.79			\$ 16.79
38	CO EQPT - HI CAP TERM	857C		\$ 2.18			\$ 2.18
39	CO EQPT - HI CAP CHAN	857C		\$ 3.33			\$ 3.33
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		\$ 0.08			\$ 0.08
45	CONNECTORS	57C					\$ 0.00
46	MISC. COM EQP & PWR	57C					\$ 0.00
47	POLE LINE	1C		\$ 0.02			\$ 0.02
48	CONDUIT	4C		\$ 0.04			\$ 0.04
50	SPAN SUMMARY		31.87	0.00	0.00	0.00	\$ 31.87
51	AVG. WTD. SPAN SUMMARY		31.87	0.00	0.00	0.00	
NOTE: [sum(INV _{ACCT} BAND = MIX(BAND))]							

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CA123R24 LCATR036 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: 29-Oct-96

TIME: 09:12

COMPANY: CINCINNATI BELL TEL
STATE: OHIO

SWITCHED SERVICES

PLANT ITEM	LCAT CODE	WHEN BANDWIDTH DELIVERY IS					
		NARROWBAND		WIDEBAND		BROADBAND	
		PLANT CODE	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-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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LOOP COST ANALYSIS TOOL

Bellcore[®]TABLE - COST METH
SHEET 2 of 2COST METHODS ASSIGNMENT TABLE
FEEDER SEGMENT

LCAT Rel: 1.0.4

Issued: 07/31/95

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 29-Oct-96

TIME: 09:12

COMPANY: CINCINNATI BELL TEL.
STATE: OHIO

[SWITCHED] SERVICES

PLANT ITEM	WHEN BANDWIDTH DELIVERY IS					
	NARROWBAND		WIDEBAND		BROADBAND	
	PLANT CODE	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX	RESOURCE ASSIGNMENT	SENS. INDEX
LAND	20C	F	SHARED	F	SHARED	F
BUILDING	10C	F	SHARED	F	SHARED	F
BLDG ENTRANCE CABLE						
INTRABLDG CABLE						
AERIAL CABLE (COPPER) ①	22C	V	DIRECT	V	DIRECT	V
BURIED CABLE (COPPER) ①	45C	V	DIRECT	V	DIRECT	V
UNDERGROUND (CU) CA. ②	5C	V	DIRECT	V	DIRECT	V
CO EQPT - LOW CAP TERM	257C	F	DIRECT	V	DIRECT	V
CO EQPT - LOW CAP CHAN	257C	V	DIRECT	V	DIRECT	V
CO EQPT - HI CAP TERM	857C	F	DIRECT	F	DIRECT	F
CO EQPT - HI CAP CHAN	857C	F	DIRECT	F	DIRECT	F
CO EQPT - ANALOG SW	77C	V	DIRECT	V	DIRECT	V
CO EQPT - DIGITAL SW	377C	V	DIRECT	V	DIRECT	V
AERIAL CABLE (FIBER)	822C	F	DIRECT	F	DIRECT	F
BURIED CABLE (FIBER)	845C	F	DIRECT	F	DIRECT	F
UNDERGROUND (FO) CA.	85C	F	DIRECT	F	DIRECT	F
CONNECTORS	57C	V	DIRECT	V	DIRECT	V
MISC. COM EQP & PWR	57C	V	SHARED	V	SHARED	V
POLE LINE	1C	F	DIRECT	F	DIRECT	F
CONDUIT	4C	F	DIRECT	F	DIRECT	F

FOOTNOTES

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

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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 bandwidth. 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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CIN:23F24/LCATR0301CRITERIA		LOOP COST ANALYSIS TOOL		Bellcore (R)	
NFCT - STUDY SETUP		GENERAL STUDY REQUIREMENTS		TODAY IS: 7-Jan-97	
LCAT Rel.: 1.0.4				LAST UPDATE:	
Issue Date: 3/31/95				29-Oct-95 09:15 AM	
STUDY NAME		1996 BAND 2 (OHIO ONLY) BUSINESS ISDN 18001 FEET - INFINITY INTRASTATE			
COMMENTS					
SERVICE CLASS		BAND 2 - BUSINESS ISDN		X NETWORK	
COMPANY		CINCINNATI BELL TEL.		INDIVIDUAL	
STATE / PROVINCE		OHIO		INVESTMENT YEAR	
CITY / AREA		CINCINNATI		LOOP CHAR. STUDY YEAR	
DENSITY CELL MIX		0 100 0 0		STUDY YEAR	
DIGITAL LOOP CARRIER FACILITIES INCLUDED IN THE STUDY:				TEST CASE	
Type Percent Mix:		100 FIBER IN THE LOOP		1	
		0 COPPER DIG LOOP CXR			

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C:\123R24\LCAT\035\CRITERIA

HELP SCREENBellcoreTM

INPUT - STUDY SETUP

LCAT Ref. 1.0.4

Sheet 1 of 2

ISSUED: 3/31/85

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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CR123R24\LCAT\035\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: 1990 LOOP STUDY YEAR: 1990 SERVICE CLASS: BAND 2 - BUSINESS ISDN		LCAT Rel: 1.3.4 ISSUED: 1/31/95 STUDY YEAR: 1995 TEST CASE: 1 LAST UPDATE: 25-Oct-95 TIME: 09:15 AM																														
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-connections 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.																																	
		VALID RESPONSE SET <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>N or A</td> <td>NEW</td> </tr> <tr> <td>S or P</td> <td>SWITCHED</td> </tr> <tr> <td>N, W or B</td> <td>NARBAND</td> </tr> <tr> <td>2 or 4</td> <td>2</td> </tr> <tr> <td>0 → 100</td> <td>100</td> </tr> <tr> <td>0 → 100</td> <td>95</td> </tr> <tr> <td>0 → 100</td> <td></td> </tr> <tr> <td>e.g., 12000</td> <td>18000 Feet</td> </tr> <tr> <td>For D</td> <td>FLAT RATE</td> </tr> <tr> <td>1,2,3,4</td> <td></td> </tr> <tr> <td>0 → 5</td> <td>0</td> </tr> <tr> <td>I, C or A</td> <td>COST</td> </tr> <tr> <td>T or M</td> <td>TOT INCH</td> </tr> <tr> <td>0 → 999</td> <td>1</td> </tr> <tr> <td></td> <td>RATES PLAN</td> </tr> </table>			N or A	NEW	S or P	SWITCHED	N, W or B	NARBAND	2 or 4	2	0 → 100	100	0 → 100	95	0 → 100		e.g., 12000	18000 Feet	For D	FLAT RATE	1,2,3,4		0 → 5	0	I, C or A	COST	T or M	TOT INCH	0 → 999	1		RATES PLAN
N or A	NEW																																	
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C:\123R24\LCATR036\CRITERIA

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\LCATR036\DESIGN		LOOP COST ANALYSIS TOOL		Belcore
INPUT - LOOP DESIGN		CIRCUIT DESIGN REQUIREMENTS		LCAT Rel: 1.0.4
Sheet 1 / 1		CHARACTERISTICS		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: 29-Oct-96
		SERVICE CLASS: BAND 2 - BUSINESS ISDN		TIME: 09:16

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.

0.0000Proportion 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 0.00001.0000

ChkSum

FOR COPPER DLC DESIGNS:

Weighting of Design #1

1.0000

Weighting of Design #2

NA 0.00001.0000

ChkSum

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

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C:\123R24\LCATR036\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.

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C:\123R24\LCATR035\FACILITY		LOOP COST ANALYSIS TOOL		Bellcore	
TABLE - SPAN INV SHEET 1/4		LOOP FACILITY INPUT FIBER 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 ISDN		LAST UPDATE: 29-Oct-96	
				TIME: 09:17	
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	0.4600	0.0000	factor:
		BURIED	0.0000	0.0000	factor:
		UNDGRD	0.5200	0.0000	factor:
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
		BURIED	\$ 0.2694	\$ 0.0000	per fiber pair Foot
		UNDGRD	\$ 0.1827	\$ 0.0000	per fiber pair Foot
(Fiber Hub to Remote Terminal) (Remote Terminal to Service Point)					

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C:\123R24\LCATR035\FACILITY		LOOP COST ANALYSIS TOOL				Bellcore	
TABLE - SPAN INV SHEET 1A / 4 COMPANY: CINCINNATI BELL TEL. CITY / AREA: CINCINNATI STATE / PROV: OHIO		LOOP FACILITY INPUT FIBER CABLE DATA - BY CABLE SHEATH DETAIL FOR INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996 SERVICE CLASS: BAND 2 - BUSINESS ISDN				LCAT R/E: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 09:17	
FIBER OPTIC CABLE INVESTMENT REFERENCE TABLE							
Cable Sheath Sizes			Unit Investment per Cable Pair Foot, by Cable Type, by Cable Size				
CAPACITY	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\LCAT\036\FACILITY
TABLE - SPAN_INV
SHEET 1 / 4

HELP SCREEN

BellooreTM
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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CA123R24LCATR035FACILITY		LOOP COST ANALYSIS TOOL				Bellcore [®]																																																																																						
TABLE - SPAN INV SHEET 2 of 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 ISDN				LCAT Ref: 1.0.4 Issued: 07/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 09:17																																																																																						
COPPER CABLE CHARACTERISTICS AND INVESTMENTS																																																																																												
Cable Gauge Mix: <u>GAUGE</u> The Proportion of Copper Cable that is		FEEDER <u>SEGMENT</u> 0.1500 0.1500 0.8500 0.8500 0.0000 0.0000		DISTRIBUTION <u>SEGMENT</u> 0.1500 0.1500 0.8500 0.8500 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																																																																																						
Cable Type Mix, By Gauge: The Proportion of Copper Cable that is		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th></th> <th>FEEDER</th> <th>DISTRIBUTION</th> </tr> <tr> <th></th> <th></th> <th>SEGMENT</th> <th>SEGMENT</th> </tr> </thead> <tbody> <tr> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>0.2900</td> <td>0.6200</td> </tr> <tr> <td>BURIED</td> <td>0.0200</td> <td>0.3300</td> </tr> <tr> <td>UNDGRND</td> <td>0.6900</td> <td>0.0500</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>0.2900</td> <td>0.6200</td> </tr> <tr> <td>BURIED</td> <td>0.0200</td> <td>0.3300</td> </tr> <tr> <td>UNDGRND</td> <td>0.6900</td> <td>0.0500</td> </tr> <tr> <td rowspan="3">22 GA.</td> <td>AERIAL</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>BURIED</td> <td>0.0000</td> <td>0.0000</td> </tr> <tr> <td>UNDGRND</td> <td>0.0000</td> <td>0.0000</td> </tr> </tbody> </table>				FEEDER	DISTRIBUTION			SEGMENT	SEGMENT	26 GA.	AERIAL	0.2900	0.6200	BURIED	0.0200	0.3300	UNDGRND	0.6900	0.0500	24 GA.	AERIAL	0.2900	0.6200	BURIED	0.0200	0.3300	UNDGRND	0.6900	0.0500	22 GA.	AERIAL	0.0000	0.0000	BURIED	0.0000	0.0000	UNDGRND	0.0000	0.0000	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th></th> <th>GAUGE</th> <th>FEEDER</th> <th>DISTRIBUTION</th> </tr> <tr> <th></th> <th></th> <th></th> <th>SEGMENT</th> <th>SEGMENT</th> </tr> </thead> <tbody> <tr> <td rowspan="3">26 GA.</td> <td>AERIAL</td> <td>\$ 0.0119</td> <td>\$ 0.0119</td> <td>\$ 0.0426</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0205</td> <td>\$ 0.0205</td> <td>\$ 0.0665</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0110</td> <td>\$ 0.0110</td> <td>\$ 0.0580</td> </tr> <tr> <td rowspan="3">24 GA.</td> <td>AERIAL</td> <td>\$ 0.0119</td> <td>\$ 0.0119</td> <td>\$ 0.0426</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0205</td> <td>\$ 0.0205</td> <td>\$ 0.0665</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0110</td> <td>\$ 0.0110</td> <td>\$ 0.0580</td> </tr> <tr> <td rowspan="3">22 GA.</td> <td>AERIAL</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> </tr> <tr> <td>BURIED</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> </tr> <tr> <td>UNDGRND</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> <td>\$ 0.0000</td> </tr> </tbody> </table>				GAUGE	FEEDER	DISTRIBUTION				SEGMENT	SEGMENT	26 GA.	AERIAL	\$ 0.0119	\$ 0.0119	\$ 0.0426	BURIED	\$ 0.0205	\$ 0.0205	\$ 0.0665	UNDGRND	\$ 0.0110	\$ 0.0110	\$ 0.0580	24 GA.	AERIAL	\$ 0.0119	\$ 0.0119	\$ 0.0426	BURIED	\$ 0.0205	\$ 0.0205	\$ 0.0665	UNDGRND	\$ 0.0110	\$ 0.0110	\$ 0.0580	22 GA.	AERIAL	\$ 0.0000	\$ 0.0000	\$ 0.0000	BURIED	\$ 0.0000	\$ 0.0000	\$ 0.0000	UNDGRND	\$ 0.0000	\$ 0.0000	\$ 0.0000
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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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TABLE - SPAN_INV		LOOP FACILITY INPUT		LCAT Ver: 1.0.4	
SHEET 2A / 4		COPPER CABLE DATA - BY CABLE SHEATH DETAIL		Issued: 07/31/95	
COMPANY: CINCINNATI BELL TEL.		FOR		STUDY YR: 1996	
CITY / AREA: CINCINNATI		INVESTMENT YEAR: 1996		TEST CASE: 1	
STATE / PROV: OHIO		LOOP STUDY YEAR: 1996		LAST UPDATE: 29-Oct-96	
		SERVICE CLASS: BAND 2 - BUSINESS ISDN		TIME: 09:17	

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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TABLE - SPAN_INV
SHEET 2 / 4

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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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LCAT

INPUT SCREEN

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LOOP COST ANALYSIS TOOL

Bellcore[®]SPAN INV - WORKSHEET
Sheet 1 / 3COPPER CABLE DISTRIBUTIONS MELDING
WORKSHEET ALCAT Ver: 1.0.4
Issue Date: 07/31/95
STUDY YR: 1998
TEST CASE: 1998
DATE: 1
LAST UPDATE: 29-Oct-96
TIME: 09:17COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIOFACILITY TYPE: COPPER CABLE
DESIGN TYPE: DISTRIBUTION SEGMENT

SERVICE CLASS: BAND 2 - BUSINESS ISDN

DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...dst)	PER FOOT INVESTMENT (pf...ds)	CABLE GAUGE MIX (copper...dst)	ADJUSTED CABLE TYPE	ADJUSTED PRI
	[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

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
	[F=sum(D*Type)]		[G=sum(E*Type)]		[H=F*Type / sum(F*Type)]	
CHARACTERISTICS FOR:						
AERIAL	0.620000		\$ 0.042600		0.620000	
BURIED	0.330000		\$ 0.066800		0.330000	
UNDERGRND	0.050000		\$ 0.058000		0.050000	

Check = 1.000000

Check = 1.000000

FOOTNOTES

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C:\123R24\LCATR036\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore®	
SPAN INV - WORKSHEET Sheet 2 / 3		COPPER CABLE DISTRIBUTION'S MELDING WORKSHEET A		LCAT Ref: 0.4	
COMPANY: CINCINNATI BELL TEL		FACILITY TYPE: COPPER CABLE		Issue Date: 07/31/95	
CITY / AREA: CINCINNATI		DESIGN TYPE: SUBFEEDER SEGMENT		STUDY YR: 1996	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS SDN		TEST CASE: 1006	
				DATE: 1	
				LAST UPDATE: 29-Oct-96	
				TIME: 09:17	
MELDED CABLE INVESTMENT PER PAIR FOOT					
DATA DESC.	(DISTRIBUTION TO CODE) CABLE TYPE MIX (p...tdr)	PER FOOT INVESTMENT (pfi...tdr)	CABLE GAUGE MIX (copper...tdr)	ADJUSTED CABLE TYPE	ADJUSTED PFI
CHARACTERISTICS FOR:					
AERIAL @ 26 GA.	0.290000	\$ 0.011900	0.1500	[D=A*C] 0.043500	[E=B*C] \$ 0.001788
BURIED @ 26 GA.	0.020000	\$ 0.020500	0.1500	0.003000	\$ 0.003075
UNDGRND @ 26 GA.	0.690000	\$ 0.011000	0.1500	0.103500	\$ 0.001850
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	0.588500	\$ 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(Dtype)]		[G=sum(Etype)]	
AERIAL	0.290000	\$ 0.011900			
BURIED	0.020000	\$ 0.020500			
UNDERGRND	0.690000	\$ 0.011000			
Check = 1.000000		[H=Ftype / sum(Ftype)]			
		\$ 0.335484			
		\$ 0.064516			
		Check = 1.000000			
FOOTNOTES					

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CM123R24\LCATR035\FACILITY		LOOP COST ANALYSIS TOOL		Belcore [®]
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		INVESTMENT YEAR: 1996	STUDY YR: 1996	TEST CASE: 1
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996	LAST UPDATE: 29-Oct-96	TIME: 09:17
STATE/PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS ISDN		
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: 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\LCATPC35\FACILITY
TABLE - SPAN_INV
SHEET 3 / 4

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Bellcore®

LCAT Rel : 07/31/85
Issued : 07/31/85

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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C:\123R24\LCATR036\FACILITY.WK1		LOOP COST ANALYSIS TOOL		Bellcore [®]
SPAN INV - WORKSHEET Sheet 3 / 3		COPPER CABLE DISTRIBUTION'S WELDING WORKSHEET B		LCAT Rpt: 1.0.4 Issue Date: 07/31/95
FOR COMPANY: CINCINNATI BELL TEL. CITY / AREA: OHIO STATE / PROV: CINCINNATI		FACILITY TYPE: COPPER CABLE for DLC DESIGN TYPE: FEEDER SEGMENT SERVICE CLASS: BAND 2 - BUSINESS 1SDN		STUDY YR: 1996 TEST CASE: 1996 DATE: 1 LAST UPDATE: 29-Oct-96 TIME: 09:17
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 * (PFlog) (D)	REPEATER BY GAUGE (RPTR.ggG) (E=C)	WORKING CHANNEL INVESTMENT / FOOT (ADLCPFlog) (F=D+E)	FOR DLC Gauge: 24.00 - TABLE 4 - WORKING CHANNEL INVESTMENT / FOOT (ADLCPFic)
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:\123R2\LCATR036\FACILITY		LOOP COST ANALYSIS TOOL		Belcore (R)
TABLE - SPAN_INV	LOOP FACILITY INPUT	LCAT Rel	1.0.4	
SHEET 4 / 4	SERVICE ACCESS SEGMENT	Issued	07/31/95	
COM: 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	29-Oct-98	
	SERVICE CLASS: BAND 2 - BUSINESS ISDN	TIME	09:17	

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	Per Unit Installation.....
Buried	0.00	

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)	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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\\LCATR036\FACILITY
SPAN_INV
14

HELP SCREEN

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

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

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

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

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

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C:\123R24\LCATR036\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 ISDN		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	0.2689
CONNECTORS	1.0000	0.3661
MISC. COM EQP & PWR	1.0000	0.3661
POLE LINE	1.0000	0.3607
CONDUIT	1.0000	0.2521

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C:\123R24\LCATR036\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	
COMPANY: CINCINNATI BELL TEL		INVESTMENT YEAR: 1996			STUDY YR: 1996	
CITY / AREA: CINCINNATI		SERVICE LEVEL: NARBAND			TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS ISDN			LAST UPDATE: 29-Oct-96 09:19	
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				\$ 0.00		
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	\$ 361.90	\$ 39.17	\$ 348.82	\$ 141.70
For an Integrated DLC Equipment Arrangement		\$ 0.00	\$ 0.00	\$ 0.00	\$ 348.82	\$ 141.70
FIBER OPTIC MULTIPLEXERS UNIT CIRCUIT INVESTMENT by SERVICE LEVEL:						
1. For a Hub with nonFiber Extensions or nonHub Arrangement		\$ 49.18		\$ 3.88	\$ 53.79	\$ 2.01
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						\$ 0.00
[Unit Investment denotes average weighted unit E.F.I. investment at DS0, DS1, or DS3 service equiv.]						

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TABLE - EQUIP_INV

HELP INFORMATION

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LCAT Commands Description

This Command will allow the User -

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

Line Items Description

This Equipment Item Represents -

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

See Circuit Designs :

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

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

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

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CAT123R24\LCATR036\LOADING		LOOP COST ANALYSIS TOOL		Bellcore [®]
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 ISDN		LCAT Rel: 1.0.4 Issued: 3/31/95 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 09:20
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. Cab.		1.0000

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TABLE - ADDNL_INV
Sheet 1 of 2

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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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C:\123R24\LCATR036\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 ISDN		LCAT Rel: 1.0.4 Issued: 3/31/96 STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 09:20																																																																																										
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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 *****

PRESS < Enter > KEY TO RETURN TO THE MAIN MENU

C:\123R24\LCAT\0361\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]																		
INPUT - PLANT CHAR. Sheet 1 / 5 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 2 - BUSINESS ISDN		LCAT Ref : 1.0.4 Issued : 07/31/95 STUDY YR : 1996 TEST CASE : 1 LAST UPDATE : 29-Oct-96 TIME : 09:22																		
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 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;"> <thead> <tr> <th colspan="2" style="text-align: left;">ACTION SEGMENT</th> </tr> </thead> <tbody> <tr> <td>PRIMARY</td> <td>STAR</td> </tr> <tr> <td>PRIMARY</td> <td>NA</td> </tr> <tr> <td>DISTRIBUTION</td> <td>STAR</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>TOTAL LOOP</td> <td>26159.0</td> </tr> <tr> <td>DISTRIBUTION</td> <td>2049.0</td> </tr> <tr> <td>SUB-PRIMARY</td> <td>300.0</td> </tr> <tr> <td>PRIMARY</td> <td>23810.0</td> </tr> <tr> <td>PRIMARY-EXTENSION</td> <td></td> </tr> </tbody> </table>			ACTION SEGMENT		PRIMARY	STAR	PRIMARY	NA	DISTRIBUTION	STAR	TOTAL LOOP	26159.0	DISTRIBUTION	2049.0	SUB-PRIMARY	300.0	PRIMARY	23810.0	PRIMARY-EXTENSION	
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LOOP LENGTH AT EACH COST BAND BAND 1 BAND 2 BAND 3 BAND 4 BAND 5		DISTRIBUTION OF COST BANDS IN THE NETWORK BAND 1 BAND 2 BAND 3 BAND 4 BAND 5																				
LAST 26159.0		LAST 1.0000 1.0000 Hint																				

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C:\123R24\LCATR036\SPAN		LOOP COST ANALYSIS TOOL		Bellcore [®]	
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 ISDN		LAST UPDATE : 29-Oct-96	
				TIME : 09:22	
<u>FLAT RATE BASIS DATA WITHOUT COST BANDS</u> <u>FOR A NETWORK CIRCUIT CASE STUDY</u>					
<u>LOOP LENGTH</u> 1 26159 FEET					
<u>DROP</u> <u>DISTRIBUTION</u> <u>FEEDER</u> 2 3					
2049 FEET 300.0 FEET 23810 FEET					
SUB-PRIMARY EXTENSION PRIMARY 4 5 6					
FIBER DISTRIBUTION FIBER HUB					
ONI REMOTE TERMINAL (LOOP MULTIPLEX INTERFACE) REMOTE NODE (LOOP TRANSFER)					
NETWORK INTERFACE SERVICE ACCESS POINT SERVING AREA INTERFACE FIBER HUB END OFFICE					

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CA123R24\LCATR036\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 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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CA123R24\LCATR035\SPAN	LOOP COST ANALYSIS TOOL		Bellcore (R)
INPUT - PCANT_CPAH	HELP SCREEN	LCAT Rev 1.0.4 Issued : 07/31/95	
Sheet 2 of 2			
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\LCATR036\SPAN		LOOP COST ANALYSIS TOOL				Bellcore (R)	
INPUT - PLANT CHAR.		LOOP FACILITY INPUT				LCAT Rev: 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 ISDN				LAST UPDATE: 29-Oct-96	
						TIME: 09:22	
NETWORK CIRCUIT LAYOUT STUDIES							
WORKSHEET A							
		AERIAL FIBER		BURIED FIBER		UNDERGROUND FIBER	
		CUMULATIVE	EFFECTIVE	CUMULATIVE	EFFECTIVE	CUMULATIVE	EFFECTIVE
		FEEDER	LENGTH BY	FEEDER	LENGTH BY	FEEDER	LENGTH BY
		LENGTH	PAIR FOOT	LENGTH	PAIR FOOT	LENGTH	PAIR FOOT
CAPACITY	idx	[D _A]	[E _A]	[D _B]	[E _B]	[D _U]	[E=D/C]
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	
UNOGRD FIBER SUBTOTAL		0		UNOGRD FIBER SUBTOTAL		0.0	
FIBER SUBTOTAL		0		FIBER SUBTOTAL		0.0	

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C:\123R24\LCATR036\SPAN		LOOP COST ANALYSIS TOOL				Bellcore TM	
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	
CITY / AREA: CINCINNATI		LOOP STUDY YEAR: 1996				TEST CASE : 1	
STATE: OHIO		SERVICE CLASS: BAND 2 -- BUSINESS ISDN				LAST UPDATE: 29-Oct-96	
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	\$ 0.00	\$ 0.00

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C:\123R24\LCATR036\SPAN		LOOP COST ANALYSIS TOOL						Bellcore			
PLANT CHAR - WORKSHEET 3B 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 STATE: OHIO		INVESTMENT YEAR: 1996 LOOP STUDY YEAR: 1996						STUDY YR: 1996 TEST CASE: 1 LAST UPDATE: 29-Oct-96 TIME: 09:22			
NETWORK CIRCUIT LAYOUT STUDIES		SERVICE CLASS: BAND 2 - BUSINESS						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
60 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		0.00

PROVIDED FOR
CINCINNATI BELL TEL.

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LOOP COST ANALYSIS TOOL

Belcore

INPUT - PLANT_CHAR.
Sheet 4a / 5LOOP FACILITY INPUT
COPPER CABLE SPAN CHARACTERISTICS FOR THE DISTRIBUTION LAYER
FOR

LCAT Rel: 1.0.4

Issued: 07/31/96

STUDY YR: 1996

TEST CASE: 1

LAST UPDATE: 29-Oct-96

TIME: 09:22

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

WORKSHEET A

NETWORK CIRCUIT LAYOUT STUDIES

CUMULATIVE LENGTHS BY CABLE PAIR FOOT

CABLE SHEATH SIZES	CAPACITY pr									
		28 GA.			24 GA.			22 GA.		
		AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD	AERIAL	BURIED	UNDGRD
40 COPPER CABLE	20 pr									
50 COPPER CABLE	25 pr									
80 COPPER CABLE	40 pr									
100 COPPER CABLE	50 pr									
140 COPPER CABLE	70 pr									
200 COPPER CABLE	100 pr									
400 COPPER CABLE	200 pr									
600 COPPER CABLE	300 pr									
800 COPPER CABLE	400 pr									
1200 COPPER CABLE	600 pr									
1800 COPPER CABLE	900 pr									
2400 COPPER CABLE	1200 pr									
3000 COPPER CABLE	1500 pr									
3600 COPPER CABLE	1800 pr									
4200 COPPER CABLE	2100 pr									
4800 COPPER CABLE	2400 pr									
5400 COPPER CABLE	2700 pr									
6000 COPPER CABLE	3000 pr									
7200 COPPER CABLE	3600 pr									
8400 COPPER CABLE	4200 pr									
SUB TOTALS		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS				0.0			0.0			0.0

0.01

dstacprf

0.01

dstbcprf

0.0

dstucprf

0.01

0.0

PROVIDED TO PUBLIC

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C:\123R24\LCATR036\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 Rev : 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-95 TIME: 09:22			
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			0.00

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PRIOR TO RELEASE TO PUBLIC

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Sheet 5 / 5

LOOP FACILITY INPUT

DIGITAL LOOP CARRIER CABLE PAIR EQUIVALENTS AND MIX

FOR

INVESTMENT YEAR : 1996

LOOP STUDY YEAR : 1996

SERVICE CLASS : BAND 2 - BUSINESS ISDN

LCAT Rel : 1.0.4

Issued : 07/31/96

STUDY YR : 1996

TEST CASE : 1

LAST UPDATE : 25-Oct-96

TIME : 09:22

COMPANY: CINCINNATI BELL TEL

CITY / AREA: CINCINNATI

STATE / PROV: OHIO

FIBER BANDWIDTH

TRANSMISSION FLOW IS : ☒ UNIDIRECTIONAL

☐ BIDIRECTIONAL

LEVEL OF SERVICE :

BITRATE INDEX	1	2	3	4	5	6	7			
FIBER BANDWIDTH	45 Mbps	90 Mbps	155 Mbps	180 Mbps	0	0	0	SERVICE	PROTECTION	WEIGHTED
MUX DS3 MULTIPLIER	1	2	3	4	0	0	0	LEVEL		EQUIVALENT
VOICE GRADE CHANNELS	672	1344	2016	2688	0	0	0	MULTIPLE	n : 1	CHANNELS
								[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

0

S {2 for Unidirectional and 1 for Bidirectional}.
I} TIMES {1 PLUS 1 OVER PROT _____} PSY

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: 29-Oct-96
TIME: 09:22

DIGITAL SIGNAL TABLE (dissig.tbl)						
SELECT	MODE	HIERARCHY	BNDWDTH	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 2WCU CA
3		V17.5	1.5 Mbps	1	0.04	24 UNDIR FIBER
4		V12	2 Mbps	1	0	UNDIR FIBER
5		E1	2 Mbps	1	0.06	30 BIDIR 2WCU CA
6	MODE1	DS1C	3.2 Mbps	NA		48 BIDIR 2WCU CA
7	MODE2	DS1C	3.2 Mbps		2	0.07
8		V13	3.2 Mbps		2	0.07
9			4 Mbps			0
10		DS2	6.3 Mbps		4	0.14
11	MODE4	DS2	6.3 Mbps	NA		72 BIDIR 2WCU CA
12		V16	6.3 Mbps		4	0.14
13		E2	8 Mbps		4	0.25
14		E3	34 Mbps		16	1
15		DS3	45 Mbps		26	1
16	STST	OC1	50 Mbps		26	1
17	X		90 Mbps			2
18			90 Mbps			2
19		DS4	135 Mbps		3	3
20			135 Mbps		3	3
21		DS4NA	135 Mbps		3	3
22		E4	140 Mbps		3	3
23		T4M	139 Mbps		6	6
24		T140	139 Mbps		6	6
25	X	OC3	155 Mbps		3	3
26	X		160 Mbps		4	4
27			417 Mbps		8	8
28		OC9	405 Mbps		9	9
29		OC12	560 Mbps		12	12
30			665 Mbps		12	12
31			1.2 Gbps		24	24
32			1.7 Gbps		36	36
33		OC24	1.8 Gbps		24	24
34			2.5 Gbps		24	24
35						
36						
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: 29-Oct-96

TIME: 09:22

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

[A] [B] 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] [K] TOTAL AIR FEET [F=A*C*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		0	0	
2		0		0	0	
3		0		0	0	
4		0		0	0	
5		0		0	0	

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

ERROR MESSAG 0

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C:\123R24\LCAT\036\SPAN		LOOP COST ANALYSIS TOOL										Bellcore [®]																																																																																																																																																																																																																																																																																																																																																															
PLANT CHART. - WORKSHEET SA Sheet 1 / 1 COMPANY: CINCINNATI BELL TEL. CITY/AREA: CINCINNATI STATE/PROV: OHIO												LCAT Ver: 1.0.4 Issued: 07/31/86 STUDY YR: 1986 TEST CASE: 1 LAST UPDATE: 29-Oct-86 TIME: 09:22																																																																																																																																																																																																																																																																																																																																																															
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[C] [D=C-I] [E] [F=D-E] [G] [H=D-G] [I] [J=C-I] [K] [L=C-K] [M=A-C]																																																																																																																																																																																																																																																																																																																																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>cur_lplgth</td> <td>26159</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>dlcdepl</td> <td>18000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>[B]distspa</td> <td>2049</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></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>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>26159</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>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>25659</td> </tr> <tr> <td>2000</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> <td>0</td> <td>25159</td> </tr> <tr> <td>3000</td> <td>951</td> <td>951</td> <td>0</td> <td>951</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>24159</td> </tr> <tr> <td>4000</td> <td>1951</td> <td>1951</td> <td>0</td> <td>1951</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>23159</td> </tr> <tr> <td>5000</td> <td>2951</td> <td>2951</td> <td>0</td> <td>2951</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>22159</td> </tr> <tr> <td>6000</td> <td>3951</td> <td>3951</td> <td>0</td> <td>3951</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>21159</td> </tr> <tr> <td>7000</td> <td>4951</td> <td>4951</td> <td>0</td> <td>4951</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>20159</td> </tr> <tr> <td>8000</td> 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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^{dst} Equals CUR_LPLGTH - NOM_RANGE difference
- > DISTSPAN and < DLCDEPL, then CUR_SEGLGTH^{stor} Equals CUR_LPLGTH - NOM_RANGE difference
- = > DLCDEPL, then CUR_SEGLGTH^{pror} 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
ISDN

10/10/96 Revised

Band 1

		Residence			Business		
		Average F1 Length	Average F2 Length	Average Loop	Average F1 Length	Average F2 Length	Average Loop
		A	B	C	D	E	F
1	0-18,000	8,298	1,390	9,688	7,007	971	7,977
2	# Of Entries	144			285		
3	18,001-INFINITY	17,880	2,925	20,805	19,201	2,119	21,320
4	# Of Entries	16			8		
5	Ratio						
6	0-18,000	0.8369			0.9378		
7	18,001-INFINITY	0.1631			0.0622		
		1.0000			1.0000		

Band 2

8	0-18,000	8,444	2,097	10,541	7,015	1,136	8,151
9	# Of Entries	95			107		
10	18,001-INFINITY	23,425	2,646	26,071	24,110	2,049	26,159
11	# Of Entries	44			57		
12	Ratio	0.6835			0.6524		
13	0-18,000	0.3165			0.3476		
14	18,001-INFINITY	1.0000			1.0000		

Band 3

15	0-18,000	4,845	1,981	6,825	4,512	1,095	5,608
16	# Of Entries	46			41		
17	18,001-INFINITY	23,301	4,826	28,127	23,881	3,479	27,360
18	# Of Entries	56			30		
19	Ratio	0.4510			0.5775		
20	0-18,000	0.5490			0.4225		
21	18,001-INFINITY	1.0000			1.0000		

NOT FOR PUBLIC
PROVIDED TO PUCO

C:\123R24\LCATRC35\SPAN		LOOP COST ANALYSIS TOOL		Bellcore (R)
PLANT CHAR. - WORKSHEET SA		LCAT Ver: 1.0.4		
Sheet 1 / 1		Issued: 07/31/95		
COMPANY: CINCINNATI BELL TEL.		STUDY YR: 1995		
CITY/AREA: CINCINNATI		TEST CASE: 1		
STATE/PROV: OHIO		LAST UPDATE: 29-Oct-95		
WORKSHEET SA		TIME: 06:58		

Sub Feeder Allocation Table

Sub Feeder Allocation Table									
cur_lplgth	1	2	3	4	5	6	7	8	9
cur_lplgth = 8151	COLOCATED FT AND CP, where								
dlcdepl = 18000	NO COLOCATED				COLOCATED				
[B]distspa = 1136	distspa = STAF				distspa = STAF				
nom_rangecur = 8151	distspa = BUS				distspa = BUS				
	[C]	[D=C-I]	[E]	[F=D-E]	[G]	[H=D-G]	[I]	[J=C-I]	[K]
	[L=C-K]	[M=A-C]							
500	0	0	0	0	0	0	500	0	500
1000	0	0	0	0	0	0	1000	0	1000
2000	254	864	0	864	0	2000	0	2000	0
3000	1854	1864	0	1864	0	3000	0	3000	0
4000	2854	2864	0	2864	0	4000	0	4000	0
5000	3854	3864	0	3864	0	5000	0	5000	0
6000	4854	4864	0	4864	0	6000	0	6000	0
7000	5854	5864	0	5864	0	7000	0	7000	0
8000	6854	6864	0	6864	0	8000	0	8000	0
9000	7854	7864	0	7864	0	9000	0	9000	0
10000	8854	8864	0	8864	0	10000	0	10000	0
11000	9854	9864	0	9864	0	11000	0	11000	0
12000	10854	10864	0	10864	0	12000	0	12000	0
13000	11854	11864	0	11864	0	13000	0	13000	0
14000	12854	12864	0	12864	0	14000	0	14000	0
15000	13854	13864	0	13864	0	15000	0	15000	0
16000	14854	14864	0	14864	0	16000	0	16000	0
17000	15854	15864	0	15864	0	17000	0	17000	0
18000	16854	8432	8432	0	16864	9000	9000	18000	-9849
19000	17854	8932	8932	0	17864	9500	9500	19000	-10849
20000	18854	9432	9432	0	18864	10000	10000	20000	-11849
80000	78854	16864	62000	1000	77864	16864	63136	1000	79000

RULES

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- = > DLCDEPL, then CUR_SEGLGTH^{tr} 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
ISDN

10/10/96 Revised

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7	18,001-INFINITY	0.1631			0.0622		
		1.0000			1.0000		

Band 2

8	0-18,000	8,444	2,097	10,541	7,015	1,136	8,151
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14	18,001-INFINITY	1.0000			1.0000		

Band 3

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16	# Of Entries	46			41		
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19	Ratio	0.4510			0.5775		
20	0-18,000	0.5490			0.4225		
21	18,001-INFINITY	1.0000			1.0000		

PROVIDED TO PUCO

A
B
C
D
E
F
GC:\123R24\LCATR036\RESULTS1
OUTPUT - REPORT D
SHEET 1 of 1

LOOP COST ANALYSIS TOOL

PROSPECTIVE INVESTMENT SUMMARY REPORT

Bellcore

LCAT Rel: 1.0.4
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: TOTAL TECHNOLOGIES
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - BUSINESS ISDN
TOTAL LOOP LENGTH: 26159 FEETSTUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 13:54

Loop Span Set Weighting: 1 UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

WEIGHTED

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

PLANT

ITEM DESCRIPTION

SEQ. LGTH.

SHARED RESOURCES

8	LAND	20C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0742
9	BUILDING	10C	\$ 2.21	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.2056
10	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
11	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
12	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
13	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
14	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
15	CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
16	CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
17	CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
18	CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
19	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
20	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
21	AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
22	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
23	UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
24	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
25	MISC. COM EQP & PWR	57C	\$ 0.25	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.2519
26	POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
27	CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000

DIRECT RESOURCES

30	LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
31	BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
32	BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.4513
33	INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
34	AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.06	\$ 5.20	\$ 0.00	\$ 5.2600
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 3.73	\$ 0.00	\$ 3.7400
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.12	\$ 0.52	\$ 0.00	\$ 0.6400
37	CO EQPT - LOW CAP TERM	257C	\$ 6.62	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 6.6193
38	CO EQPT - LOW CAP CHAN	257C	\$ 16.79	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 16.7851
39	CO EQPT - HI CAP TERM	857C	\$ 2.18	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.1818
40	CO EQPT - HI CAP CHAN	857C	\$ 3.33	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.3302
41	CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
42	CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
43	AERIAL CABLE (FIBER)	822C	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0840
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0776
46	CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
47	MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
48	POLE LINE	1C	\$ 0.02	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.2711
49	CONDUIT	4C	\$ 0.04	\$ 0.00	\$ 0.04	\$ 0.18	\$ 0.00	\$ 0.2581

SPAN SUMMARY

\$ 31.67

\$ 0.00

\$ 0.24

\$ 2.45

\$ 45.23

\$ 45.23

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C:\123R24\LCATR036\RESULTS1
OUTPUT - COST_REPORTS

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

LOOP COST ANALYSIS TOOL

COST MODEL - INVESTMENT BY ACCOUNT REPORTS

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS ISDN 18001 FEET - INFINITY INTRASTAT

CURRENT TEST PLAN :

CURRENT JOB IDENT.		CINCINNATI	
BASIS	NETWORK	TEST CASE	LAST SAVE
FR/DS	FLAT RATE	#BANDS	01 17-Jan-97
SVC LEVEL	NARBAND	#CKTS	17:04
CST METH	UNINCR	INV LEVEL	ANNCOST TIME

NOTICE
PRIOR TO RELEASE TO
your report is ready for viewing
PROVIDED TO PUCO

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

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A B C D E F G	LOOP COST ANALYSIS TOOL										Bellcore	
	PROSPECTIVE INVESTMENT WORKSHEET SUMMARY										LCAT Rel: 1.0.4	
0	CA123R24:LCATR036:RESULTS1										Issued: 7/31/95	
1	OUTPUT - WORKSHEET D										STUDY YR: 1998	
2	SHEET 1 of 10										TEST CASE: 1	
3	COMPANY: CINCINNATI BELL TEL										RUN DATE: 23-Jan-97	
4	CITY / AREA: CINCINNATI										TIME: 13:54	
5	STATE / PROV: OHIO											
6	JOB IDENT: CINCINNATI											
7	CIRCUIT DESIGN: 1 CDLC											
8	LOOP SPAN DIVISION: ALL LOOP SPANS											
9	SERVICE CLASS: BAND 2 - BUSINESS ISDN											
10	TOTAL LOOP LENGTH: 26159 FEET											
11	Circuit Design Mix: T.00001											
12	UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY											
13	PLANT NAME ----- FEEDER ----- DISTRIBUTION NETWORK											
14	SEG. NAME PRIMARY EXTENSION SUB- INTERFACE											
15	EQPT											
16	CODE											
17	PLANT											
18	ITEM DESCRIPTION											
19	SHARED RESOURCES											
20	LAND	20C	\$ 0.06		\$ 0.00	\$ 0.00		\$ 0.06		\$ 0.06	\$ 0.06	
21	BUILDING	10C	\$ 1.82		\$ 0.00	\$ 0.00		\$ 1.82		\$ 1.82	\$ 1.82	
22	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
23	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
24	AERIAL CABLE (COPPER)	22C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
25	BURIED CABLE (COPPER)	45C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
26	UNDERGROUND (CU) CA.	5C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
27	CO EQPT - LOW CAP TERM	257C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
28	CO EQPT - LOW CAP CHAN	257C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
29	CO EQPT - HI CAP TERM	857C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
30	CO EQPT - HI CAP CHAN	857C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
31	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
32	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
33	AERIAL CABLE (FIBER)	822C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
34	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
35	UNDERGROUND (FO) CA.	85C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
36	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
37	MISC. COM EQP & PWR	57C	\$ 0.06		\$ 0.00	\$ 0.00		\$ 0.06		\$ 0.06	\$ 0.06	
38	POLE LINE	1C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
39	CONDUIT	4C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
40	DIRECT RESOURCES											
41	LAND	20C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
42	BUILDING	10C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
43	BLDG ENTRANCE CABLE	12C	\$ 0.00		\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45		\$ 2.45	\$ 2.45	
44	INTRABLDG CABLE	52C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
45	AERIAL CABLE (COPPER)	22C	\$ 1.15		\$ 0.06	\$ 5.20		\$ 6.41		\$ 6.41	\$ 6.41	
46	BURIED CABLE (COPPER)	45C	\$ 0.12		\$ 0.01	\$ 3.73		\$ 3.86		\$ 3.86	\$ 3.86	
47	UNDERGROUND (CU) CA.	5C	\$ 2.30		\$ 0.12	\$ 0.52		\$ 2.94		\$ 2.94	\$ 2.94	
48	CO EQPT - LOW CAP TERM	257C	\$ 9.17		\$ 0.00	\$ 0.00		\$ 9.17		\$ 9.17	\$ 9.17	
49	CO EQPT - LOW CAP CHAN	257C	\$ 16.79		\$ 0.00	\$ 0.00		\$ 16.79		\$ 16.79	\$ 16.79	
50	CO EQPT - HI CAP TERM	857C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
51	CO EQPT - HI CAP CHAN	857C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
52	CO EQPT - ANALOG SW	77C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
53	CO EQPT - DIGITAL SW	377C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
54	AERIAL CABLE (FIBER)	822C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
55	BURIED CABLE (FIBER)	845C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
56	UNDERGROUND (FO) CA.	85C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
57	CONNECTORS	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
58	MISC. COM EQP & PWR	57C	\$ 0.00		\$ 0.00	\$ 0.00		\$ 0.00		\$ 0.00	\$ 0.00	
59	POLE LINE	1C	\$ 0.27		\$ 0.01	\$ 1.24		\$ 1.52		\$ 1.52	\$ 1.52	
60	CONDUIT	4C	\$ 0.82		\$ 0.04	\$ 0.18		\$ 1.04		\$ 1.04	\$ 1.04	
61	SPAN SUMMARY											
62			\$ 32.56	\$ 0.00	\$ 0.24	\$ 10.87	\$ 2.45	\$ 46.12		\$ 46.12	\$ 46.12	
63	CIRCUIT DESIGN SUMMARY											
64								\$ 46.12				

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A B C D E F G		C:\123R24\LCATR036\RESULTS1 OUTPUT - WORKSHEET D SHEET 2 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: 2 CDLC		STUDY YR: 1998			
		CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
		STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS ISDN		DATE: 23-Jan-97			
		JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 25159 FEET		TIME: 13:54			
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
1		PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL	WEIGHTED			
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	TOTAL	LOOP
3		EQPT							
4		PLANT	CODE						
5		ITEM DESCRIPTION							
6		<u>SHARED RESOURCES</u>							
7		LAND	20C				\$0	\$0	
8		BUILDING	10C				\$0	\$0	
9		BLDG ENTRANCE CABLE	12C				\$0	\$0	
10		INTRABLDG CABLE	52C				\$0	\$0	
11		AERIAL CABLE (COPPER)	22C				\$0	\$0	
12		BURIED CABLE (COPPER)	45C				\$0	\$0	
13		UNDERGROUND (CU) CA.	5C				\$0	\$0	
14		CO EQPT - LOW CAP TERM	257C				\$0	\$0	
15		CO EQPT - LOW CAP CHAN	257C				\$0	\$0	
16		CO EQPT - HI CAP TERM	857C				\$0	\$0	
17		CO EQPT - HI CAP CHAN	857C				\$0	\$0	
18		CO EQPT - ANALOG SW	77C				\$0	\$0	
19		CO EQPT - DIGITAL SW	377C				\$0	\$0	
20		AERIAL CABLE (FIBER)	822C				\$0	\$0	
21		BURIED CABLE (FIBER)	845C				\$0	\$0	
22		UNDERGROUND (FO) CA.	85C				\$0	\$0	
23		CONNECTORS	57C				\$0	\$0	
24		MISC. COM EQP & PWR	57C				\$0	\$0	
25		POLE LINE	1C				\$0	\$0	
26		CONDUIT	4C				\$0	\$0	
27									
28		<u>DIRECT RESOURCES</u>							
29		LAND	20C				\$0	\$0	
30		BUILDING	10C				\$0	\$0	
31		BLDG ENTRANCE CABLE	12C				\$0	\$0	
32		INTRABLDG CABLE	52C				\$0	\$0	
33		AERIAL CABLE (COPPER)	22C				\$0	\$0	
34		BURIED CABLE (COPPER)	45C				\$0	\$0	
35		UNDERGROUND (CU) CA.	5C				\$0	\$0	
36		CO EQPT - P GAIN TERM	257C				\$0	\$0	
37		CO EQPT - P GAIN CHAN	257C				\$0	\$0	
38		CO EQPT - FO MUX TERM	857C				\$0	\$0	
39		CO EQPT - FO MUX CHAN	857C				\$0	\$0	
40		CO EQPT - ANALOG SW	77C				\$0	\$0	
41		CO EQPT - DIGITAL SW	377C				\$0	\$0	
42		AERIAL CABLE (FIBER)	822C				\$0	\$0	
43		BURIED CABLE (FIBER)	845C				\$0	\$0	
44		UNDERGROUND (FO) CA.	85C				\$0	\$0	
45		CONNECTORS	57C				\$0	\$0	
46		MISC. COM EQP & PWR	57C				\$0	\$0	
47		POLE LINE	1C				\$0	\$0	
48		CONDUIT	4C				\$0	\$0	
49									
50		SPAN SUMMARY							
51		CIRCUIT DESIGN SUMMARY							
52							\$0	\$0	
53							\$0	\$0	
54							\$0	\$0	
55							\$0	\$0	

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A
B
C
D
E
F
GCA123R24\LCAT036\RESULTS1
OUTPUT - WORKSHEET D
SHEET 3 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellicore

LCAT Rev: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 13:54COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: MELDED CDLC
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - BUSINESS ISDN
TOTAL LOOP LENGTH: 26159 FEET

Technology Type Mix : 0.0000		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	TOTAL	
EQPT							LOOP	
CODE								
PLANT								
ITEM DESCRIPTION								
SHARED RESOURCES								
LAND	20C	\$ 0.06	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.06	\$ 0.0000	
BUILDING	10C	\$ 1.82	\$ 0.00	\$ 0.00	\$ 0.00	\$ 1.82	\$ 0.0000	
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - LOW CAP TERM	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - LOW CAP CHAN	257C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - HI CAP TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - HI CAP CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
MISC. COM EQP & PWR	57C	\$ 0.06	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.06	\$ 0.0000	
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
DIRECT RESOURCES								
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 0.0000	
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
AERIAL CABLE (COPPER)	22C	\$ 1.15	\$ 0.00	\$ 0.06	\$ 5.20	\$ 6.41	\$ 0.0000	
BURIED CABLE (COPPER)	45C	\$ 0.12	\$ 0.00	\$ 0.01	\$ 3.73	\$ 3.86	\$ 0.0000	
UNDERGROUND (CU) CA.	5C	\$ 2.30	\$ 0.00	\$ 0.12	\$ 0.52	\$ 2.94	\$ 0.0000	
CO EQPT - P GAIN TERM	257C	\$ 9.17	\$ 0.00	\$ 0.00	\$ 0.00	\$ 9.17	\$ 0.0000	
CO EQPT - P GAIN CHAN	257C	\$ 16.79	\$ 0.00	\$ 0.00	\$ 0.00	\$ 16.79	\$ 0.0000	
CO EQPT - FO MUX TERM	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - FO MUX CHAN	857C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - ANALOG SW	77C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CO EQPT - DIGITAL SW	377C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
AERIAL CABLE (FIBER)	822C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
UNDERGROUND (FO) CA.	85C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
CONNECTORS	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
MISC. COM EQP & PWR	57C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000	
POLE LINE	1C	\$ 0.27	\$ 0.00	\$ 0.01	\$ 1.24	\$ 1.52	\$ 0.0000	
CONDUIT	4C	\$ 0.82	\$ 0.00	\$ 0.04	\$ 0.18	\$ 0.94	\$ 0.0000	
SPAN SUMMARY		\$ 32.56	\$ 0.00	\$ 0.24	\$ 10.87	\$ 2.45	\$ 46.12	
TECHNOLOGY DESIGN SUMMARY							\$ 46.12	

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C:\123R24\LCATR036\RESULTS1		LOOP COST ANALYSIS TOOL				Bellcore (R)	
OUTPUT - WORKSHEET D		PROSPECTIVE INVESTMENT WORKSHEET SUMMARY				LCAT Rel: 1.0.4	
SHEET 4 of 10						Issued: 7/31/95	
COMPANY: CINCINNATI BELL TEL		CIRCUIT DESIGN: 1 FOMUX		STUDY YR: 1996		TEST CASE: 1	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		SERVICE CLASS: BAND 2 - BUSINESS ISDN		RUN DATE: 23-Jan-97	
STATE / PROV: OHIO		TOTAL LOOP LENGTH: 26159 FEET		TIME: 13:54			
JOB IDENT: CINCINNATI							
Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A C BAND STUDY							
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL LOOP	WEIGHTED TOTAL LOOP
SEG. NAME		PRIMARY EXTENSION SUB-		INTERFACE			
EQPT CODE							
PLANT							
ITEM DESCRIPTION							
SHARED RESOURCES							
8	LAND	20C				\$0	\$0
9	BUILDING	10C				\$0	\$0
10	BLDG ENTRANCE CABLE	12C				\$0	\$0
11	INTRABLDG CABLE	52C				\$0	\$0
12	AERIAL CABLE (COPPER)	22C				\$0	\$0
13	BURIED CABLE (COPPER)	45C				\$0	\$0
14	UNDERGROUND (CU) CA.	5C				\$0	\$0
15	CO EQPT - LOW CAP TERM	257C				\$0	\$0
16	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
17	CO EQPT - HI CAP TERM	857C				\$0	\$0
18	CO EQPT - HI CAP CHAN	857C				\$0	\$0
19	CO EQPT - ANALOG SW	77C				\$0	\$0
20	CO EQPT - DIGITAL SW	377C				\$0	\$0
21	AERIAL CABLE (FIBER)	822C				\$0	\$0
22	BURIED CABLE (FIBER)	845C				\$0	\$0
23	UNDERGROUND (FO) CA.	85C				\$0	\$0
24	CONNECTORS	57C				\$0	\$0
25	MISC. COM EQP & PWR	57C				\$0	\$0
26	POLE LINE	1C				\$0	\$0
27	CONDUIT	4C				\$0	\$0
DIRECT RESOURCES							
30	LAND	20C				\$0	\$0
31	BUILDING	10C				\$0	\$0
32	BLDG ENTRANCE CABLE	12C				\$0	\$0
33	INTRABLDG CABLE	52C				\$0	\$0
34	AERIAL CABLE (COPPER)	22C				\$0	\$0
35	BURIED CABLE (COPPER)	45C				\$0	\$0
36	UNDERGROUND (CU) CA.	5C				\$0	\$0
37	CO EQPT - LOW CAP TERM	257C				\$0	\$0
38	CO EQPT - LOW CAP CHAN	257C				\$0	\$0
39	CO EQPT - HI CAP TERM	857C				\$0	\$0
40	CO EQPT - HI CAP CHAN	857C				\$0	\$0
41	CO EQPT - ANALOG SW	77C				\$0	\$0
42	CO EQPT - DIGITAL SW	377C				\$0	\$0
43	AERIAL CABLE (FIBER)	822C				\$0	\$0
44	BURIED CABLE (FIBER)	845C				\$0	\$0
45	UNDERGROUND (FO) CA.	85C				\$0	\$0
46	CONNECTORS	57C				\$0	\$0
47	MISC. COM EQP & PWR	57C				\$0	\$0
48	POLE LINE	1C				\$0	\$0
49	CONDUIT	4C				\$0	\$0
51	SPAN SUMMARY		\$0	\$0	\$0	\$0	\$0
52						\$0	\$0
53						\$0	\$0
54						\$0	\$0
55						\$0	\$0

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C:\123R24\LCAT\036\RESULTS1		LOOP COST ANALYSIS TOOL				Belcore	
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: 1996	
CITY / AREA: CINCINNATI		LOOP SPAN DIVISION:		ALL LOOP SPANS		TEST CASE: 1	
STATE / PROV: OHIO		SERVICE CLASS:		BAND 2 - BUSINESS ISDN		RUN DATE: 23-Jan-97	
JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH:		26159 FEET		TIME: 13:54	

Circuit Design Mix: 0.0000		UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY					WEIGHTED		
PLANT NAME		FEEDER		DISTRIBUTION NETWORK		TOTAL		TOTAL	
SEG. NAME		PRIMARY		EXTENSION		SUB-		INTERFACE	
EQPT									
CODE									
PLANT									
ITEM DESCRIPTION									
SHARED RESOURCES									
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	
DIRECT RESOURCES									
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		\$0	
								\$0	

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CM123R24/LCATR035 RESULTS1
OUTPUT - WORKSHEET D
SHEET 6 of 10

LOOP COST ANALYSIS TOOL PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Belcore (R)

LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 13:54

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

CIRCUIT DESIGN: 3 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - BUSINESS ISDN
TOTAL LOOP LENGTH: 261.59 FEET

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-	INTERFACE		
EQPT						
PLANT CODE						
ITEM DESCRIPTION						
SHARED RESOURCES						
LAND	20C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.07	\$ 0.07
BUILDING	10C	\$ 2.21	\$ 0.00	\$ 0.00	\$ 2.21	\$ 2.21
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	\$ 0.25	\$ 0.00	\$ 0.00	\$ 0.25	\$ 0.25
POLE LINE	1C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
CONDUIT	4C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
DIRECT RESOURCES						
LAND	20C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BUILDING	10C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
BLDG ENTRANCE CABLE	12C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.45	\$ 2.45
INTRABLDG CABLE	52C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
AERIAL CABLE (COPPER)	22C	\$ 0.00	\$ 0.06	\$ 5.20	\$ 5.26	\$ 5.26
BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.01	\$ 3.73	\$ 3.74	\$ 3.74
UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.12	\$ 0.52	\$ 0.64	\$ 0.64
CO EQPT - LOW CAP TERM	257C	\$ 6.62	\$ 0.00	\$ 0.00	\$ 6.62	\$ 6.62
CO EQPT - LOW CAP CHAN	257C	\$ 16.79	\$ 0.00	\$ 0.00	\$ 16.79	\$ 16.79
CO EQPT - HI CAP TERM	857C	\$ 2.18	\$ 0.00	\$ 0.00	\$ 2.18	\$ 2.18
CO EQPT - HI CAP CHAN	857C	\$ 3.33	\$ 0.00	\$ 0.00	\$ 3.33	\$ 3.33
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	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.08	\$ 0.08
BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00
UNDERGROUND (FO) CA.	85C	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.08	\$ 0.08
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	\$ 0.02	\$ 0.01	\$ 1.24	\$ 1.27	\$ 1.27
CONDUIT	4C	\$ 0.04	\$ 0.04	\$ 0.18	\$ 0.26	\$ 0.26
SPAN SUMMARY		\$ 31.67	\$ 0.00	\$ 0.24	\$ 10.87	\$ 45.23
					\$ 2.45	\$ 45.23

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A B C FIELD G		CA123R24\LCATR036\RESULTS1 OUTPUT - WORKSHEET D SHEET 7 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: 4 FOMUX		STUDY YR: 1996			
		CITY / AREA: CINCINNATI		LOOP SPAN DIVISION: ALL LOOP SPANS		TEST CASE: 1			
		STATE / PROV: OHIO		SERVICE CLASS: BAND 2 - BUSINESS ISDN		RUN DATE: 23-Jan-97			
		JOB IDENT: CINCINNATI		TOTAL LOOP LENGTH: 25159 FEET		TIME: 13:54			
0		Circuit Design Mix: 0.0000 UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY							
1		PLANT NAME	FEEDER	DISTRIBUTION NETWORK	TOTAL	WEIGHTED			
2		SEG. NAME	PRIMARY	EXTENSION	SUB-	INTERFACE	LOOP	TOTAL	LOOP
3		EQPT							
4		PLANT							
5		CODE							
6		ITEM DESCRIPTION							
7		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	
28									
29		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	
50									
51		SPAN SUMMARY	\$0	\$0	\$0	\$0	\$0	\$0	
52									
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54									
55									

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A
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C
D
E
F
GC:\123R24\LCATR036\RESULTS1
OUTPUT - WORKSHEET D
SHEET 8 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore (R)

LCAT Rel: 1.0.4
Issued: 7/31/95COMPANY: CINCINNATI BELL TEL
CITY / AREA: CINCINNATI
STATE / PROV: OHIO
JOB IDENT: CINCINNATICIRCUIT DESIGN: 5 FOMUX
LOOP SPAN DIVISION: ALL LOOP SPANS
SERVICE CLASS: BAND 2 - BUSINESS ISDN
TOTAL LOOP LENGTH: 26159 FEETSTUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 13:54

Circuit Design Mix: 0.0000

UNIT MONTHLY RECURRING COSTS BY ACCOUNT FOR A 0 BAND STUDY

TOTAL WEIGHTED

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

ITEM DESCRIPTION

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 - LOW CAP TERM	257C
CO EQPT - LOW CAP CHAN	257C
CO EQPT - HI CAP TERM	857C
CO EQPT - HI CAP 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

\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
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\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0
\$0	\$0

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 - LOW CAP TERM	257C
CO EQPT - LOW CAP CHAN	257C
CO EQPT - HI CAP TERM	857C
CO EQPT - HI CAP 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

\$0	\$0
\$0	\$0
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\$0	\$0
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\$0	\$0
\$0	\$0

SPAN SUMMARY

\$0 \$0 \$0 \$0 \$0

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A
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C
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G
 CM123R24\LCATR036\RESULTS1
 OUTPUT - WORKSHEET D
 SHEET 9 of 10

LOOP COST ANALYSIS TOOL
 PROSPECTIVE INVESTMENT WORKSHEET SUMMARY

Bellcore

 LCAT Rel: 1.0.4
 Issued: 7/31/95

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

 CIRCUIT DESIGN: 6 FOMUX
 LOOP SPAN DIVISION: ALL LOOP SPANS
 SERVICE CLASS: BAND 2 - BUSINESS ISDN
 TOTAL LOOP LENGTH: 26159 FEET

 STUDY YR: 1996
 TEST CASE: 1
 RUN DATE: 23-Jan-97
 TIME: 13:54

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

 TOTAL LOOP
 WEIGHTED TOTAL LOOP

 PLANT NAME
 SEG. NAME
 EQPT
 CODE

PRIMARY FEEDER EXTENSION SUB- DISTRIBUTION NETWORK INTERFACE

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

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GC:\123R24\LCATR036\RESULTS1
OUTPUT - WORKSHEET D
SHEET 10 of 10**LOOP COST ANALYSIS TOOL**
PROSPECTIVE INVESTMENT WORKSHEET SUMMARY**Bellicore**LCAT Rel: 1.0.4
Issued: 7/31/95
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 13:54COMPANY: 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 ISDN
TOTAL LOOP LENGTH: 26159 FEET

Technology Type Mix: 1.0000

UNIT WEIGHTED MONTHLY RECURRING COSTS BY ACCOUNT FOR A BAND STUDY

TECHNOLOGY

WEIGHTED

TOTAL

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

PLANT

ITEM DESCRIPTION

SHARED RESOURCES

8	LAND	20C	\$ 0.07	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.07	\$ 0.0742
9	BUILDING	10C	\$ 2.21	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.21	\$ 2.2056
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	\$ 0.25	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.25	\$ 0.2519
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

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	\$ 5.20	\$ 0.00	\$ 5.26	\$ 5.2600
35	BURIED CABLE (COPPER)	45C	\$ 0.00	\$ 0.00	\$ 0.01	\$ 3.73	\$ 0.00	\$ 3.74	\$ 3.7400
36	UNDERGROUND (CU) CA.	5C	\$ 0.00	\$ 0.00	\$ 0.12	\$ 0.52	\$ 0.00	\$ 0.64	\$ 0.6400
37	CO EQPT - LOW CAP TERM	257C	\$ 6.62	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 6.62	\$ 6.6193
38	CO EQPT - LOW CAP CHAN	257C	\$ 16.79	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 16.79	\$ 16.7851
39	CO EQPT - HI CAP TERM	857C	\$ 2.18	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 2.18	\$ 2.1818
40	CO EQPT - HI CAP CHAN	857C	\$ 3.33	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 3.33	\$ 3.3302
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	\$ 0.0840
44	BURIED CABLE (FIBER)	845C	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.0000
45	UNDERGROUND (FO) CA.	85C	\$ 0.08	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.08	\$ 0.0776
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	\$ 1.24	\$ 0.00	\$ 1.27	\$ 1.2711
49	CONDUIT	4C	\$ 0.04	\$ 0.00	\$ 0.04	\$ 0.18	\$ 0.00	\$ 0.26	\$ 0.2581

SPAN SUMMARY

\$ 31.67	\$ 0.00	\$ 0.24	\$ 10.87	\$ 2.45	\$ 45.23	\$ 45.23
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JA123R24\LCATCALC\DIST

Bellcore (R)

RUN - DIST PLNT

LCAT

LAST UPDATE

LOOP COST ANALYSIS TOOL

Release: 1.0.4

23-Jan-97

Issued: 8/31/95

10:35

DISTRIBUTION SEGMENT COST MODEL - BASIC COPPER TECHNOLOGY

STUDY NAME: 1996 BAND 2 (OHIO ONLY) BUSINESS ISDN 18001 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	ANN COST

CONFIDENTIAL
NOTICE: ...your run is finished
PRIOR TO REMOVAL FROM DISC
PROVIDED TO YOU

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

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01123R241LCATCALC.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-BLC, NON-COLLOC.)
SERVICE CLASS: BAND 2 - BUSINESS ISDN

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

Belcore (R)
LCAT Release: 1.0.4
Issue Date: 8/31/95
STUDY YR: 1995
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 13:44

SEGMENT LENGTH IN FEET [A]	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 - CABLE INVESTMENT PER PAIR FOOT [D]	CABLE INVESTMENT PER PAIR [E=C*D]	(NOTE 4) WEIGHTED TERMINAL INVESTMENT	AIR DRYER INVESTMENT PER PAIR [F=E*factr]	DROP WIRE ADJUSTMENT PER PAIR [F=E*factr]	(NOTE 4) WEIGHTED DROP WIRE INVESTMENT
		2049.0	AERIAL	0.520000	1270.4	0.042600	54.12		0.00
CONSIDERS:	BURIED	0.330000	676.2	0.066800	45.17		0.00	0.00	
MELDED									
COPPER	UNDERGRND	0.050000	102.5	0.058000	5.94		0.00	0.00	
CABLE									
Check =		1.000000	2049.0						

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 rtrn factr:

POLE LINE FACTOR (PLF) = 0.0000 0.2530
POLE LINE INVESTMENT (UTIL AERIAL INVEST. x PLF) = \$ 39.12

UG CONDUIT FACTOR (UCF) = 0.0000 0.5165
CONDUIT INVESTMENT (UTIL UNDGRND INVT x UCF) = \$ 8.77

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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CA123R24\LCAT\CALC\DIST
DIST PLNT - WORKSHEET A
Sheet 3 of 3

LOOP COST ANALYSIS TOOL
PROSPECTIVE AND ANNUAL COSTS WORKSHEET
SERVING AREA INTERFACE TO SERVICE ACCESS POINT INVESTMENT COST MODEL
FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: DISTRIBUTION PLANT/DCN-DLC/NON-COLLOC
SERVICE CLASS: BAND 2 - BUSINESS ISDN

Bellcore®
LCAT Release: 1.0.4
Issue Date: 8/31/85
STUDY YR: 1996
TEST CASE: 1
RUN DATE: 23-Jan-97
TIME: 13:44

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

PLANT ITEM	PLANT ACCT CODE	1996 TO 1996 TR [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]
8 LAND	20C	1.0000			0.2322				
9 BUILDING	10C	1.0000			0.2937				
10 BLDG ENTRANCE CABLE	12C	1.0000			0.3922				
11 INTRABLDG CABLE	52C	1.0000			0.3922				
12 AERIAL CABLE (COPPER)	22C	1.0000		\$ 155	0.4033		\$ 62.36		\$ 5.20
13 BURIED CABLE (COPPER)	45C	1.0000		\$ 129	0.3467		\$ 44.74		\$ 3.73
14 UNDERGROUND (CU) CA.	5C	1.0000		\$ 17	0.3663		\$ 6.22		\$ 0.52
15 CO EQPT - P GAIN TERM	257C	1.0000			0.3681				
16 CO EQPT - P GAIN CHAN	257C	1.0000			0.3681				
17 CO EQPT - FO MUX TERM	857C	1.0000			0.3681				
18 CO EQPT - FO MUX CHAN	857C	1.0000			0.3681				
19 CO EQPT - ANALOG SW	77C	1.0000			0.0000				
20 CO EQPT - DIGITAL SW	377C	1.0000			0.3456				
21 AERIAL CABLE (FIBER)	822C	1.0000			0.2983				
22 BURIED CABLE (FIBER)	845C	1.0000			0.2724				
23 UNDERGROUND (FO) CA.	85C	1.0000			0.2689				
24 CONNECTORS	57C	1.0000			0.3681				
25 MISC. COM EQP & PWR	57C	1.0000			0.3681				
26 POLE LINE	1C	1.0000		\$ 39	0.3807		\$ 14.89		\$ 1.24
27 CONDUIT	4C	1.0000		\$ 9	0.2521		\$ 2.21		\$ 0.18
TOTALS									
			dstshrinv	dstclnrv					
			\$ 0	\$ 349		\$ 0.00	\$ 130.42	\$ 0.00	\$ 10.87
				\$ 349			\$ 130.42		\$ 10.87
			distshrinv			distshrinv		distshrinv	

PR-
PROVIDED TO TSCC

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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CA123R2/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:

TIME:

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

FACILITY TYPE: COPPER CABLE
CIRCUIT SEGMENT: SERVICE ACCESS

SERVICE CLASS: BAND 2 - BUSINESS ISDN

23-Jan-97
13:44

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

CONFIDENTIAL

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

POLE LINE FACTOR (PLF) =

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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