

Released From Confidential Status

**Case Numbers: 96-922-TP-UNC
96-974-TP-ATA
96-1057-TP-UNC**

Date: 08/11/2008

**Confidential Documents originally
filed 2/97- Ameritech Ex 34 Physical
Collocation Modified TELRIC**

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document delivered in the regular course of business
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1. A) Physical Collocation Modified TELRIC
 B) Ameritech Ohio Exhibit 34
 C) Type 2, 3 and 4 Changes only

2. <u>Tab</u>	<u>Type Correction</u>
1 All Lines	4
2 All Lines	4
3 All Lines	4
4 Lines 1,3,4,5,6,7,,910,11,16,21,22,29,30,31	4
NRC Pg.1 Line 5	3 & 4
NRC Pg.2 Line B	4
NRC Pg.8 Line B	3 & 4
NRC Pg.13 Col.C	3
REC Pg.1 Line 5	4
REC Pg.5 Line 3,8	3 & 4
REC Pg.7 Line 8	4
REC Pg.8 Line 2,4	3 & 4
Tab 16.* All	2

3. A) NRC Page 1, Line 5
 B) Volume VIII, pages 45 and 61
 C) Corrected to reflect disconnect time separate from installation time.

 A) NRC Page 8, Line B
 B) Volume XIII, pages 94-95
 C) Corrected TPI

 A) NRC Page 13, Col C
 B) Deposition Volume IV, pages 62-63.
 C) Travel time estimate recalculated

- A) REC Page 5, Line
- B) Volume XIII, pages 94-95
- C) Corrected TPI

- A) REC Page 8, Line
- B) Deposition Volume IV, pages 53-54.
- C) Annual carrying charge factor corrected.

MOD

AMERITECH - OHIO

Ameritech Central Office Interconnection (ACOI)

aka

Physical Collocation

(February 20, 1997)

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Jurisdiction - Ameritech Ohio
Product/Service Name - Physical Collocation (ACOI)
Vintage of Study - 1996

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AMERITECH - OHIO
Ameritech Central Office Interconnection (ACOI)
Analysis Results

In 1993 a study was developed to support Virtual and Physical collocation. This was done in concurrence with F.C.C. Transmittal No. 697. Subsequently, F.C.C. Transmittals 730, 771, 819, 821, 959, 981, 996, and 1045 were also issued to support this service. In this updated study, 1993, 1994, and/or 1995 investments were TPI'd to 1996 level. Those investments were hit with ACFs to produce a Modified Telric study. Ameritech - Ohio mirrors the FCC Tariff filing. Attached are the results of that effort.

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**AMERITECH - OHIO
PHYSICAL COLLOCATION**

L.N. no.	TYPE	RECURRING			TOTAL COSTS
		TELRIC +	SHARED COSTS	COMMON COSTS	
1	Order charge / per Order				
2	C.O. Floor Space / Per 100 Sq. Ft.	\$ 546.10	\$ 120.99	\$ 67.75	\$ 734.84
3	C.O. Build Out / per Init'l 100 Sq. Ft. Fl Sp Request, Per C.O.				
4	C.O. Build Out / per Add'l. 100 Sq. Ft. Fl Sp Request, Per C.O.				
5	Cable Vault Splicing / Per Initial Splice				
6	Cable Vault Splicing / Per Subsequent Splice				
7	Splice Testing / Per Initial Splice Test				
8	Splice Testing / Per Subsequent Splice				
9	Cable Pulling from Manhole to Cable Vault / Per First Foot				
10	Cable Pulling from Manhole to Cable Vault / Per Additional Foot				
11	Cable Pulling from Cable Vault to the Transmn Node / Per First Ft				
12	Cable Pulling from Cable Vault to the Transmn Node / Per Add'l Ft				
13	Riser Space / Per Foot	\$ 0.96	\$ 0.18	\$ 0.10	\$ 1.24
14	Entrance Conduit / Per Inner Duct, Per Foot	\$ 0.06	\$ 0.01	\$ 0.01	\$ 0.08
15	Power Consumption / Per Fuse AMP	\$ 5.22	\$ 0.99	\$ 0.55	\$ 6.76
16	Power Delivery / Per Power Lead				
17	200 Cond Electrical X-Connected Block / Per X-Connected Block	\$ 64.97	\$ 12.26	\$ 6.87	\$ 84.10
18	Digital X-Connected Panel (DSX) / Per DSX-3 Termn (1 DS3 Term)	\$ 15.38	\$ 2.92	\$ 1.64	\$ 19.94
19	Digital X-Connected Panel (DSX) / Per DSX-1 Termn (Up to 56 DS1 Terms)	\$ 44.94	\$ 9.15	\$ 5.12	\$ 59.21
20	Optical X-Connected Panel (OCX) / Per OCX Panel Segment	\$ 5.90	\$ 1.13	\$ 0.63	\$ 7.66
21	Transmission Node Enclosure / Per Initial 100 Sq. Ft.				
22	Transmission Node Enclosure / Per Add'l. 100 Sq. Ft.				
23	Passive Bay Termination (Includes Bay and Panel) / DS1 Termination	\$ 0.58	\$ 0.10	\$ 0.06	\$ 0.74
24	Passive Bay Termination (Includes Bay and Panel) / DS3 Termination	\$ 7.36	\$ 1.30	\$ 0.73	\$ 9.39
25	200 Cond Elec Term Blk (Outside Transmn Node) / Per termn Block	\$ 64.97	\$ 12.26	\$ 6.87	\$ 84.10
26	Digital Timing Source / Per Sync Signal Provided	\$ 12.95	\$ 2.46	\$ 1.38	\$ 16.79
27	DS1 Repeater	\$ 6.01	\$ 1.14	\$ 0.64	\$ 7.79
28	DS3 Repeater	\$ 34.90	\$ 6.62	\$ 3.71	\$ 45.23
29	Diverse Riser / Per Floor Traversed				
30	Space Reservation / Change - Per Ea. Request				
31	Cancellation Charge				

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AMERITECH - OHIO PHYSICAL COLLOCATION

Ln. no.	TYPE	NONRECURRING			
		TELRC +	SHARED COSTS	COMMON COSTS	TOTAL COSTS
1	Order charge / per Order	\$ 212.74	\$ 41.33	23.14	\$ 277.21
2	C.O. Floor Space / Per 100 Sq. Ft.				
3	C.O. Build Out / per Init'l 100 Sq. Ft. Fl Sp Request, Per C.O.	\$ 22,458.08	\$ 4,104.84	\$ 2,298.54	\$ 28,861.46
4	C.O. Build Out / per Add'l. 100 Sq. Ft. Fl Sp Request, Per C.O.	\$ 9,468.34	\$ 1,797.50	\$ 1,006.52	\$ 12,272.36
5	Cable Vault Splicing / Per Initial Splice	\$ 155.72	\$ 29.56	\$ 16.55	\$ 201.83
6	Cable Vault Splicing / Per Subsequent Splice	\$ 11.55	\$ 2.19	\$ 1.23	\$ 14.97
7	Splice Testing / Per Initial Splice Test	\$ 35.72	\$ 6.78	\$ 3.80	\$ 46.30
8	Splice Testing / Per Subsequent Splice	\$ 2.10 ✓	\$ 0.40	\$ 0.22	\$ 2.72
9	Cable Pulling from Manhole to Cable Vault / Per First Foot	\$ 168.96	\$ 32.08	\$ 17.96	\$ 219.00
10	Cable Pulling from Manhole to Cable Vault / Per Additional Foot	\$ 0.85	\$ 0.16	\$ 0.09	\$ 1.10
11	Cable Pulling from Cable Vault to the Transmn Node / Per First Ft	\$ 63.05	\$ 11.97	\$ 6.70	\$ 81.72
12	Cable Pulling from Cable Vault to the Transmn Node / Per Add'l Ft	\$ 0.63	\$ 0.12	\$ 0.07	\$ 0.82
13	Riser Space / Per Foot				
14	Entrance Conduit / Per Inner Duct, Per Foot				
15	Power Consumption / Per Fuse AMP				
16	Power Delivery / Per Power Lead				
17	200 Cond Electrical X-Connect Block / Per X-Connect Block	\$ 1,341.17	\$ 259.66	\$ 145.40	\$ 1,746.23
18	Digital X-Connect Panel (DSX) / Per DSX-3 Termn (1 DS3 Term)				
19	Digital X-Connect Panel (DSX) / Per DSX-1 Termn (Up to 56 DS1 Terms)				
20	Optical X-Connect Panel (OCX) / Per OCX Panel Segment				
21	Transmission Node Enclosure / Per Initial 100 Sq. Ft.	\$ 3,279.61	\$ 622.61	\$ 348.64	\$ 4,250.86
22	Transmission Node Enclosure / Per Add'l. 100 Sq. Ft.	\$ 1,295.23	\$ 245.89	\$ 137.69	\$ 1,678.81
23	Passive Bay Termination (includes Bay and Panel) / DS1 Termination				
24	Passive Bay Termination (includes Bay and Panel) / DS3 Termination				
25	200 Cond Elec Term Blk (Outside Transmn Node) / Per termn Block				
26	Digital Timing Source / Per Sync Signal Provided				
27	DS1 Repeater				
28	DS3 Repeater				
29	Diverse Riser / Per Floor Traversed	\$ 398.52	\$ 75.65	\$ 42.36	\$ 516.53
30	Space Reservation / Change - Per Ea. Request	\$ 543.18	\$ 103.12	\$ 57.74	\$ 704.04
31	Cancellation Charge	\$ 3,815.52	\$ 625.76	\$ 350.40	\$ 4,791.68

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AMERITECH - OHIO PHYSICAL COLLOCATION

Ln. no.	TYPE	RECURRING		
		TELRIC	NVS COSTS	TELRIC + COSTS
1	Order charge / per Order			
2	C.O. Floor Space / Per 100 Sq. Ft.	\$ 527.00	\$ 19.10	\$ 546.10
3	C.O. Build Out / per Init'l 100 Sq. Ft. Fl Sp Request, Per C.O.			
4	C.O. Build Out / per Add'l. 100 Sq. Ft. Fl Sp Request, Per C.O.			
5	Cable Vault Splicing / Per Initial Splice			
6	Cable Vault Splicing / Per Subsequent Splice			
7	Splice Testing / Per Initial Splice Test			
8	Splice Testing / Per Subsequent Splice			
9	Cable Pulling from Manhole to Cable Vault / Per First Foot			
10	Cable Pulling from Manhole to Cable Vault / Per Additional Foot			
11	Cable Pulling from Cable Vault to the Transmn Node / Per First Ft			
12	Cable Pulling from Cable Vault to the Transmn Node / Per Add'l Ft			
13	Riser Space / Per Foot	\$ 0.93 ✓	\$ 0.03	\$ 0.96
14	Entrance Conduit / Per Inner Duct, Per Foot	\$ 0.06 ✓	-	\$ 0.06
15	Power Consumption / Per Fuse AMP	\$ 5.06 ✓	\$ 0.16	\$ 5.22
16	Power Delivery / Per Power Lead			
17	200 Cond Electrical X-Connect Block / Per X-Connect Block	\$ 63.03	\$ 1.94	\$ 64.97
18	Digital X-Connect Panel (DSX) / Per DSX-3 Termn (1 DS3 Term)	\$ 14.92 ✓	\$ 0.46	\$ 15.38
19	Digital X-Connect Panel (DSX) / Per DSX-1 Termn (Up to 56 DS1 Terms)	\$ 43.50	\$ 1.44	\$ 44.94
20	Optical X-Connect Panel (OCX) / Per OCX Panel Segment	\$ 5.72	\$ 0.18	\$ 5.90
21	Transmission Node Enclosure / Per Initial 100 Sq. Ft.			
22	Transmission Node Enclosure / Per Add'l. 100 Sq. Ft.			
23	Passive Bay Termination (includes Bay and Panel) / DS1 Termination	\$ 0.56 ✓	\$ 0.02	\$ 0.58
24	Passive Bay Termination (includes Bay and Panel) / DS3 Termination	\$ 7.15 ✓	\$ 0.21	\$ 7.36
25	200 Cond Elec Term Blk (Outside Transmn Node) / Per termn Block	\$ 63.03	\$ 1.94	\$ 64.97
26	Digital Timing Source / Per Sync Signal Provided	\$ 12.56 ✓	\$ 0.39	\$ 12.95
27	DS1 Repeater	\$ 5.83 ✓	\$ 0.18	\$ 6.01
28	DS3 Repeater	\$ 33.85 ✓	\$ 1.05	\$ 34.90
29	Diverse Riser / Per Floor Traversed			
30	Space Reservation / Change - Per Ea. Request			
31	Cancellation Charge			

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AMERITECH - OHIO
PHYSICAL COLLOCATION

Ln. no.	TYPE	NONRECURRING		
		TELRIC	NVS COSTS	TELRIC + COSTS
1	Order charge / per Order	\$ 206.22	\$ 6.52	\$ 212.74
2	C.O. Floor Space / Per 100 Sq. Ft.			
3	C.O. Build Out / per Init'l 100 Sq. Ft. FI Sp Request, Per C.O.	\$ 22,451.60	\$ 6.48	\$ 22,458.08
4	C.O. Build Out / per Add'l. 100 Sq. Ft. FI Sp Request, Per C.O.	\$ 9,184.58	\$ 283.76	\$ 9,468.34
5	Cable Vault Splicing / Per Initial Splice	\$ 151.05	\$ 4.67	\$ 155.72
6	Cable Vault Splicing / Per Subsequent Splice	\$ 11.20	\$ 0.35	\$ 11.55
7	Splice Testing / Per Initial Splice Test	\$ 34.65	\$ 1.07	\$ 35.72
8	Splice Testing / Per Subsequent Splice	\$ 2.04	\$ 0.06	\$ 2.10
9	Cable Pulling from Manhole to Cable Vault / Per First Foot	\$ 163.90	\$ 5.06	\$ 168.96
10	Cable Pulling from Manhole to Cable Vault / Per Additional Foot	\$ 0.82	\$ 0.03	\$ 0.85
11	Cable Pulling from Cable Vault to the Transmn Node / Per First Ft	\$ 61.16	\$ 1.89	\$ 63.05
12	Cable Pulling from Cable Vault to the Transmn Node / Per Add'l Ft	\$ 0.61	\$ 0.02	\$ 0.63
13	Riser Space / Per Foot			
14	Entrance Conduit / Per Inner Duct, Per Foot			
15	Power Consumption / Per Fuse AMP			
16	Power Delivery / Per Power Lead	\$ 1,300.18	\$ 40.99	\$ 1,341.17
17	200 Cond Electrical X-Connect Block / Per X-Connect Block			
18	Digital X-Connect Panel (DSX) / Per DSX-3 Termn (1 DS3 Term)			
19	Digital X-Connect Panel (DSX) / Per DSX-1 Termn (Up to 56 DS1 Terms)			
20	Optical X-Connect Panel (OCX) / Per OCX Panel Segment			
21	Transmission Node Enclosure / Per Initial 100 Sq. Ft.	\$ 3,181.32	\$ 98.29	\$ 3,279.61
22	Transmission Node Enclosure / Per Add'l. 100 Sq. Ft.	\$ 1,256.41	\$ 38.82	\$ 1,295.23
23	Passive Bay Termination (includes Bay and Panel) / DS1 Termination			
24	Passive Bay Termination (includes Bay and Panel) / DS3 Termination			
25	200 Cond Elec Term Blk (Outside Transmn Node) / Per termn Block			
26	Digital Timing Source / Per Sync Signal Provided			
27	DS1 Repeater			
28	DS3 Repeater			
29	Diverse Riser / Per Floor Traversed	\$ 386.58	\$ 11.94	\$ 398.52
30	Space Reservation / Change - Per Ea. Request	\$ 526.90	\$ 16.28	\$ 543.18
31	Cancellation Charge	\$ 3,716.74	\$ 98.78	\$ 3,815.52

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Tab 10
Service Description

Ameritech Central Office Interconnection
Rate Element Description

(a) Order Charge - Per Order

The Order Charge rate category provides for the processing of the ACOI application associated with a request for Central Office Floor Space within each Central Office and, provides for preliminary work needed to determine if the Central Office Floor Space requested in the customer's ACOI application is available. This charge is not dependent upon the amount of floor space requested. The Order Charge will be applied once per ACOI and includes different aspects of processing of the ACOI application performed by the collocation coordinator, Common System Planning Engineering Center (CSPEC) engineer, real-estate coordinator, service representative and account manager. The cost development relies upon FCC Transmittal No. 981, Exhibit 4, page 1 as its starting point.

(b) Central Office Floor Space - Per 100 Sq. Ft.

The Central Office Floor Space rate category provides for nominal 100 square foot increments of floor space located in the Central Office equipment areas in Telephone Company designated Central Offices used and occupied by the customer for ACOI. The Central Office Floor Space rate will include the associated environmental supports such as heating, AC power and air conditioning equivalent to the Central Office equipment environment at that location. (See answer to MCI Data Request for further details). Transmittal No. 730 removed the passive bay, repeaters and a single termination panel from the Transmittal No. 697 floor space rate element. The passive bay, repeaters and termination panel became optional. Transmittal No. 755 removed cabling from the transmission node to the cross-connect panel and the cross-connection panel from the Transmittal No. 730 rate element. The cost development relies upon FCC Transmittal No. 981, Exhibit 3, page 1 as its starting point.

(c) Central Office Build Out - Per First 100 Sq. Ft. of Floor Space Requested and Per Additional 100 Sq. Ft. of Floor Space Requested

The Central Office Build Out (COBO) provides for modifications or additions that must be made to the Central Office to accommodate a customer's Transmission Node. These modifications include security devices, additions to and distribution of heating, ventilation and air conditioning, AC power circuit, and necessary space modifications. Included are the required capital costs and operating expenses for installing walls and doors, locks and keys, reconditioning of floors, overhead lighting, the provisioning of AC power in the customer's space. The initial 100 sq. ft. COBO charge provides for the design, engineering and COBO work required to prepare the initial nominal 100 sq. ft. of Central Office Floor Space ordered. The additional 100 sq. ft. COBO charge provides for the COBO work required to prepare each additional contiguous 100 sq. ft. of Central Office Floor Space requested.

(d) Cable Vault Splicing - Per Initial Splice and Per Subsequent Splice

The Cable Vault Splicing rate category provides for splicing customer provided outside plant (OSP) fiber optic cable to customer provided riser cable and Telephone Company approved cable in the Central Office cable vault. This rate category is charged in two rate elements: Per Initial Fiber Splice and Per Subsequent Fiber Splice. The initial splice includes the average length of time it takes to set up the splicing site, prepare the sheath and inner case, prepare the splicing unit, and do the actual splice. The additional splice reflects the technician's time to perform an individual splice. A separate Initial Fiber Splice charge will be charged each day that splicing occurs. The cost development relies upon FCC Transmittal No. 697, Appendix 2, page 8 as its starting point.

Ameritech Central Office Interconnection
Rate Element Description

(e) Splice Testing - Per Initial Splice Test and Per Subsequent Splice Test

The Splice Testing rate category provides for testing the splice associated with each fiber strand spliced in the Telephone Company cable vault. Splice Testing is charged in two rate elements: Per Initial Splice Tested and Per Subsequent Splice Tested. Each is a nonrecurring charge. A separate Initial Splice Test Charge will be charged each day that splice testing occurs. The initial splice includes the time taken to prepare the site, as well as do the actual test. The additional splice test reflects the technician's time to perform a single splice test. The cost development relies upon FCC Transmittal No. 697, Appendix 2, page 9 as its starting point.

(f) Cable Pulling form the Manhole to the Cable Vault - Per First Foot and Per Additional Foot

The Cable Pulling from Manhole to Cable Vault rate category provides for a technician to pull the customer-provided fiber optic cable from the meetpoint in a designated manhole outside the ACOI Central Office to the Central Office cable vault. This rate category is provided on a per initial and additional foot basis, and each rate is a nonrecurring charge. It reflects the time it takes to pull the first foot, and each subsequent foot of cable. Included in the initial foot is the time required to prepare the conduit and remove standing water form the manhole. The cost development relies upon FCC Transmittal No. 697, Appendix 2, page 10 as its starting point.

(g) Cable Pulling form the Cable Vault to the Transmission Node - Per First Foot and Per Additional Foot

The Cable Pulling from Cable Vault to the Transmission Node rate category provides for the a technician to pull the customer-provided fiber optic riser cable from the Central Office cable vault to the customer's Transmission Node. This rate category is provided on a per initial and additional foot basis. The cost development relies upon FCC Transmittal No. 697, Appendix 2, page 11 as its starting point.

(h) Riser Space - Per Foot

The Riser Space rate category provides for the customer's use of the space and any supporting structures on which the customer's fiber optic riser cable resides, between the Central Office cable vault and the customer's Transmission Node and the fiber optic racking within the Central Office. The cost development relies upon FCC Transmittal No. 697, Reply Comments, WP-3 as its starting point.

(i) Entrance Conduit - Per Inner Duct, Per Foot

Entrance Conduit facilities provide for the customer's use of conduit duct space between the designated manhole and the Telephone Company cable vault. The rate applies per foot of innerduct provided. The cost of conduit is based on the conduit investment, as well as the contractor's costs for the building of new conduit innerducts. The cost development relies upon FCC Transmittal No. 697, Appendix 2, page 3 as its starting point.

(j) Power Consumption - Per Fuse Amp

The Power Consumption rate category provides for 48 Volt DC Power to be delivered to the Transmission Node. This rate element is designed to cover the cost of the power consumed by the customer. This rate is applied per Fuse Amp ordered and is a monthly recurring rate. The cost development relies on FCC Transmittal No. 819, Exhibit 3 as its starting point.

Ameritech Central Office Interconnection
Rate Element Description

(k) Power Delivery - Per Power Lead

Power Delivery provides for delivery of Telephone Company DC power to one 7' Equipment Bay within the customer's Transmission Node. A separate DC Power Delivery connection to the DC Power System is required for each 7' Equipment Bay within the Transmission Node. Power Deliver includes a portion of the Battery Distribution Fuse Board (BDFB), cabling from the BDFB to the Transmission Node and fuses. The Power Delivery nonrecurring rate is applied once per power lead. Each 7' equipment bay may be equipped with up to two power leads. The cost development relies upon FCC Transmittal No. 819, Exhibit 2, pages 1 and 2 as its starting point.

(l) 200 Conductor Electrical Cross-Connection Block - Per Cross-Connect Block

The 200 Conductor Cross-Connection Block provides a termination block with a termination field for Telegraph Grade, Voice Grade, Direct Analog or Ameritech Base Rate (2.4, 4.8, 9.6, 56.0 and 64 Kbps) digital derived channels. Each 200 Conductor Electrical Cross-Connection Block includes the 200 conductor cross-connection block at the main distribution frame (MDF) plus a portion of the MDF superstructure. The cost development relies upon FCC Transmittal No. 821, Exhibit 5 as its starting point.

(m) Digital Cross-Connection Panel

- Per DSX-1 Panel (Up to 56 DS1 Terminations)

The Digital Cross-Connection Panel (DSX) per DSX-1 provides a termination field for 56 DS- 1 or LT1 derived channels. This includes the DSX-1 panel and the terminations on the panel for up to 56 DS-1 terminations. The cost development relies upon FCC Transmittal No. 697, Reply Comments, WP-19 as its starting point.

- Per DSX-3 Termination

The Digital Cross-Connection Panel (DSX) per DSX-3 termination provides a termination field for DS-3 or LT3 derived channels. This includes a portion of the DSX-3 panel and the terminations on the DSX-3 panel. The investment was apportioned assumed a fully utilized panel. For each DS-3 channel requested in the OLTN System configuration, one DSX-3 termination is required. The cost development relies upon FCC Transmittal No. 730, Exhibit 1, page 8 as its starting point.

(n) Optical Cross-Connection Panel - Per OCX Panel Segment

The Optical Cross-Connection Panel (OCX) provides a termination field for OC3, OC12 or OC48 derived channels. For each OC-n channel requested in the OLTN System configuration, one OC-n termination is required of the same type. The OCX panel is configured in 3 segments with each segment providing a maximum of 24 terminations. The Optical Cross Connection Panel rate includes one segment of an OCX panel. The cost development relies upon FCC Transmittal No. 959, Exhibit 2 as its starting point.

(o) Transmission Node Enclosure - Per First 100 Sq. Ft. Enclosed and Per Additional 100 Sq. Ft. Enclosed

This rate provides for a lockable 8' high wire mesh perimeter security fence with gate to be placed around the customer's Transmission Node. The initial Transmission Node Enclosure charge applies for the first 100 sq. ft. of Central Office Floor Space enclosed. The additional Transmission Node Enclosure applies for enclosing each additional 100 sq. ft. of Central Office Floor Space that is contiguous with the initial 100 sq. ft. of floor space and does not include a gate or any additional engineering. The cost development relies upon FCC Transmittal No. 996, Exhibit 2, pages 3 and 4 as its starting point.

Ameritech Central Office Interconnection
Rate Element Description

(p) Passive Bay Termination - Per DS-1 Termination

The Passive Bay DS-1 termination provides a portion of the DSX-1 Equipment Bay, DSX-1 Termination Panel and the DSX-1 termination on the panel associated with one DS-1 termination. The cost development relies upon FCC Transmittal No. 730, Exhibit 1, page 2 as its starting point.

(q) Passive Bay Termination - Per DS-3 Termination

The Passive Bay DS-3 termination provides a portion of the DSX-3 Equipment Bay, DSX-3 Termination Panel and the DSX-3 termination on the panel associated with one DS-3 termination. The cost development relies upon FCC Transmittal No. 730, Exhibit 1, page 3 as its starting point.

(r) 200 Conductor Electrical Termination Block - Per Termination Block

The 200 Conductor Electrical Termination Block rate element provides for a 200 conductor electrical termination block outside the customer's transmission node plus the mounting of the termination block. The 200 Conductor Electrical Termination Block rate is a monthly recurring rate. The cost development relies upon FCC Transmittal No. 821, Exhibit 5 as its starting point.

(s) Digital Timing Source - Per Sync Signal Provided

The Digital Timing Source rate element includes a portion of the GPS Receiver utilized to receive the sync signal, the timing signal generator and cabling. The Digital Timing Source charge is a monthly recurring rate applied once per sync signal delivered. The cost development relies upon FCC Transmittal No. 981, Exhibit 3, page 6 as its starting point.

(t) DS-1 Repeater - Per DS1 Repeater

DS-1 Repeater facilities include the portion of the DS-1 Repeater Bay and DS-1 Repeater Panel associated with one DS-1 circuit and the Repeater itself. The cost development relies upon FCC Transmittal No. 730, Exhibit 1, page 4 as its starting point.

(u) DS-3 Repeater - Per DS3 Repeater

DS-3 Repeater facilities include the portion of the DS-3 Repeater Bay and DS-3 Repeater Panel associated with one DS-3 circuit and the Repeater itself. The cost development relies upon FCC Transmittal No. 730, Exhibit 1, page 5 as its starting point.

(v) Diverse Riser - Per Floor Traversed

The investment for Diverse River consists of material, engineering and labor required to bore a hole through the floor, place a metal conduit sleeve secured with collars in the hole, and seal the sleeve with fire retardant putty. The cost development relies upon FCC Transmittal No. 771, Documentation and & Justification, page 3 as its starting point.

(w) Space Reservation Charge - Per Reservation Request

The Space Reservation Charge rate category provides for the processing and maintenance of the customer's space reservation for Central Office Floor Space. The Space Reservation Charge is a nonrecurring charge applied once per Central Office per reservation request. The cost development relies upon FCC Transmittal No. 1045, Exhibit 2 as its starting point.

ACOI Service Order Charge

	A	B	C	D	E
	Work Group	Preparing Estimate (hours)**	Travel Time (in hours)	Labor Rate (per hour)***	Total NRC D x (B+C)
1	Collocation Coordinator	1	0	\$ 52.69	\$ 52.69
2	CSPEC	1	0	\$ 52.69	\$ 52.69
3	Real Estate	1	0	\$ 65.00	\$ 65.00
4	Account Mgr. IIS	0.25	0	\$ 62.80	\$ 15.70
5	Service Rep. IIS (Connect) *	0.5	0	\$ 26.17	\$ 13.09
	(Disconnect) Note 1	0.25	0	\$ 28.22	\$ 7.06 #3
6	Total Nonrecurring Charge				\$ 206.22 #4

*Incremental Labor Rate

**See Tab 16.1

***See Tab 17

Note 1: P/F 3yrs @ 11.5% (.80436)
multiplied by 1999 Labor rate (35.08)

* = Tab "ECONS-ACFs"
ACAR = Ameritech Cost Analysis Resource
P/A = Present Worth of an Annuity
P/F = Present Worth of a Future Amount

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**CENTRAL OFFICE BUILD OUT
INITIAL 100 SQ. FT.**

**Item: COBO - Initial 100 Sq. Ft.
Acct: 10C**

A. INVESTMENT

1 1996 Investment	(Tab 16.2)	\$ 23,677.35	# 4
2 Annual Charge Factor	*, L.4	0.1834	
3 Annual Cost	(L1 x L2)	\$ 4,342.43	# 4
4 Net Present Value Factor		5.17029	
P/A @ 11.5% over 7 Yrs.			

B. TOTAL NRC	(L4 x L3)	\$ 22,451.60	# 4
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**CENTRAL OFFICE BUILD OUT
ADDITIONAL 100 SQ. FT.**

**Item: COBO - Additional 100 Sq. Ft.
Acct: 10C**

A. INVESTMENT

1 1996 Investment	(Tab 16.2)	\$ 9,686.01
2 Annual Charge Factor	*, L.4	0.1834
3 Annual Cost	(L1 x L2)	\$ 1,776.41
4 Net Present Value Factor P/A @ 11.5% over 7 Yrs.		5.17029

B. TOTAL NRC (L4 x L3) \$ 9,184.58

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**OPTIONAL COBO
INITIAL 100 SQ. FT. (CUST. INST.)**

NA

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**OPTIONAL COBO
ADDL. 100 SQ. FT. (CUST. INST.)**

NA

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Vault Splicing (initial) per Splice

1 Splice Case Cost per Splice	(Tab 16.3)	\$	1.44
2 Splice Tray Cost per Splice	(Tab 16.3)	\$	1.51
3 Total Material Cost	(L1 + L2)	\$	2.95
4 TPI Factor*	ACAR		1.0336
5 Adj. Material Cost	(L4 x L3)	\$	3.05
6 Labor Hours per Splice	(Tab 16.3)		3.63
7 Labor Rate	(P422X) (Tab 17)	\$	40.77
8 Labor Cost per Splice	(L7 x L6)	\$	148.00
9 Total Cost per Splice	(L5 + L8)	\$	151.05 ✓

Vault Splicing (subsequent) per Splice

1 Splice Case Cost per Splice	(Tab 16.3)	\$	1.44
2 Splice Tray Cost per Splice	(Tab 16.3)	\$	1.51
3 Total Material Cost	(L1 + L2)	\$	2.95
4 TPI Factor*	ACAR		1.0336
5 Adj. Material Cost	(L4 x L3)	\$	3.05
6 Labor Hours per Splice	(Tab 16.3)		0.20
7 Labor Rate	(P422X) (Tab 17)	\$	40.77
8 Labor Cost per Splice	(L7 x L6)	\$	8.15
9 Total Cost per Splice	(L5 + L8)	\$	11.20 ✓

* 1996 Index (76.9) divided by 1993 Index (74.4)

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OK

Splice Test (initial) per Splice

1 Labor Hours per Splice	(Tab 16.3)		0.85
2 Labor Rate	(P422X)	(Tab 17)	\$ 40.77
3 Labor Cost per Splice		(L1 x L2)	\$ 34.65

Splice Test (subsequent) per Splice

1 Labor Hours per Splice	(Tab 16.3)		0.05
2 Labor Rate	(P422X)	(Tab 17)	\$ 40.77
3 Labor Cost per Splice		(L1 x L2)	\$ 2.04

Cable Pull (manhole to vault) First Foot

1 Labor Hours per Pull	(Tab 16.3)		4.02
2 Labor Rate	(P422X)	(Tab 17)	\$ 40.77
3 Labor Cost per Pull for 1st Foot		(L1 x L2)	\$ 163.90

Cable Pull (manhole to vault) Additional Foot

1 Labor Hours per Pull	(Tab 16.3)		0.02
2 Labor Rate	(P422X)	(Tab 17)	\$ 40.77
3 Labor Cost per Add'l Foot		(L1 x L2)	\$ 0.82

Cable Pull (vault to Transmission node) First Foot

1 Labor Hours per Pull	(Tab 16.3)		1.50
2 Labor Rate	(P422X)	(Tab 17)	\$ 40.77
3 Labor Cost per Pull for 1st Foot		(L1 x L2)	\$ 61.16

Cable Pull (vault to Transmission node) Additional Foot

1 Labor Hours per Pull	(Tab 16.3)		0.015
2 Labor Rate	(P422X)	(Tab 17)	\$ 40.77
3 Labor Cost per Add'l Foot		(L1 x L2)	\$ 0.61

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Power Delivery

Item: BDFB Power Delivery
 Acct: 10C

A. INVESTMENT

1 1994 Investment	(Tab 16.4 p2)	\$	1,220.48	
2 1996 TPI Index	ACAR		127.3	
3 1994 TPI Index	ACAR		119.5	# 3
4 TPI Factor	(L2 / L3)		1.0653	
5 1996 Investment	(L1 x L4)	\$	1,300.18	# 4
B. TOTAL NRC	(L5)	\$	1,300.18	# 4

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**TRANSMISSION NODE ENCLOSURE
INITIAL 100 SQ. FT.****Item: Enclosure - Initial 100 Sq. Ft.****Acct: 10C****A. INVESTMENT**

1 1996 Investment	(Tab 16.5 p1)	\$	3,355.00
2 Annual Charge Factor	*, L4		0.1834
3 Annual Cost	(L1 x L2)	\$	615.31
4 Net Present Value Factor P/A @ 11.5% over 7 Yrs.			5.17029

B. TOTAL NRC	(L4 x L3)	\$	3,181.32
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**TRANSMISSION NODE ENCLOSURE
ADDITIONAL 100 SQ. FT.**

**Item: Enclosure - Additional 100 Sq. Ft.
Acct: 10C**

A. INVESTMENT

1 1996 Investment	(Tab 16.5 p2)	\$	1,325.00
2 Annual Charge Factor	*, L4		0.1834
3 Annual Cost	(L1 x L2)	\$	243.01
4 Net Present Value Factor			5.17029
P/A @ 11.5% over 7 Yrs.			

B. TOTAL NRC **(L4 x L3)** **\$** **1,256.41**

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ok

Diverse Riser**Item: Diverse Riser Per Floor Traversed****Acct: 10C****A. INVESTMENT**

1	1993 Investment	(Tab 16.6)	\$	375.00
2	1996 TPI Index	ACAR		127.3
3	1993 TPI Index	ACAR		117.1
4	TPI Factor	(L2 / L3)		1.0871
5	1996 Investment	(L1 x L4)	\$	407.66
6.	Annual Charge Factor	*, L.4		0.1834
7.	Annual Cost	(L6 x L7)	\$	74.77
8.	Net Present Value Factor P/A @ 11.5% over 7 Yrs.			5.17029
9.	Net Present Value	(L7 x L8)	\$	386.58

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OK

ACOI Space Reservation / Change

	A	B	C	D
	Work Group	Preparing Estimate (hours)**	Labor Rate (per hour)*	Total NRC (B x C)
1	Collocation Coordinator	2	\$ 52.69	\$ 105.38
2	CSPEC	8	\$ 52.69	\$ <u>421.52</u>
3	Total Nonrecurring Charge			\$ 526.90

* Tab 17

** Tab 16.20

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ACOI CANCELLATION CHARGE

A		B	C	D	E	
Work Group		Preparing Estimate (hours)**	Travel Time (hours)**	Labor Rate (per hour)*	Total NRC D x (B+C)	
1	Collocation Coordinator	7	2.63	\$ 52.69	\$	507.40
2	OSP Engineer	9	0.75	\$ 39.11	\$	381.32
3	Power Engineer	8	1.5	\$ 52.69	\$	500.56
4	CSPEC	7	2.42	\$ 52.69	\$	496.34
5	DTE	9	2.75	52.69	\$	619.11
6	Real Estate	10	2	\$ 85.00	\$	<u>1,020.00</u>
7	Total Nonrecurring Charge				\$	3,524.73
8	**Asbestos Assessment				\$	<u>192.01</u>
9	GRAND TOTAL NRC				(L7 + L8) \$	3,716.74

* Tab 17

**Tab 16.21

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C.O. FLOOR SPACE**PHYSICAL**

Item: C.O. Floor Space per 100 Sq. Ft.

Acct: 10C

A. INVESTMENT

1. 1996 Investment	(Tab 16.7)	\$ 34,482.16	# 4
2. 1996 Investment	(L1)	\$ 34,482.16	
3. Annual Charge Factor	*, L.4	0.1834	
4. Annual Cost	(L3 x L2)	\$ 6,324.03	# 4
5. Monthly Cost	(L4 / 12mos)	\$ 527.00	# 4

* = Tab "ECONS-ACFs"

ACAR = Ameritech Cost Analysis Resource

P/A = Present Worth of an Annuity

P/F = Present Worth of a Future Amount

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RISER SPACE**PHYSICAL****Item: Riser Space per Foot****Acct: 10C****A. INVESTMENT**

1 1993 Investment	(Tab 16.8)	\$	55.73
2 1996 TPI Index	(ACAR)		127.3
3 1993 TPI Index	(ACAR)		117.1
4 TPI Factor	(L2 / L3)		1.0871
5 1996 Investment	(L1 x L4)	\$	60.58
6. Annual Charge Factor	*, L.4		0.1834
7. Annual Cost	(L5 x L6)	\$	11.11
8. Monthly Cost	(L7 / 12mos.)	\$	0.93

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Entrance Facility (Conduit)

Item: Entrance Conduit per innerduct foot
Acct: 4C

A. INVESTMENT

1 1993 Investment	(Tab 16.9)	\$	3.76
2 1996 TPI Index	ACAR		119.0
3 1993 TPI Index	ACAR		106.3
4 TPI Factor	(L2 / L3)		1.1195
5 1996 Investment	(L1 x L4)	\$	4.21
6 Annual Charge Factor	*, L.2		0.1568
7 Annual Cost	(L5 x L6)	\$	0.66
8 Monthly Cost	(L7 / 12mos)	\$	0.06

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Power Consumption

Item: Per Fuse Amp / Lead

Acct: NA

A. INVESTMENT

1 Voltage Direct Current (VDC) per Fuse Amp	(Tab 16.10)	0.0521
2 Annual KWH's	(24 X 365)	8,760
3 Average Cost per KWH	(Tab 16.10)	\$ 0.10
4 Basic DC Power Cost	(L1xL2xL3)	\$ 45.64
5 Incremental Air Conditioner Power Cost	(Tab 16.10)	\$ 15.06
6 Total annual DC Power Cost per Fuse Amp	(L4 + L5)	\$ 60.70
7 Total Monthly DC Power Cost per Fuse Amp	(L6/12mos)	\$ 5.06

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200 Conductor

Item: 200 Conductor - Per Block
 (Same as Optional Feature-Outside node)
 Acct: 357C with pwr & f.s.

A. INVESTMENT

1 1994 Investment	(Tab 16.11)	\$ 2,505.02	
2 1996 TPI Index	(ACAR)	98.7	
3 1994 TPI Index	(ACAR)	101.6	# 3
4 TPI Factor	(L2 / L3)	0.9715	# 4
5 1996 Investment	(L1 x L4)	\$ 2,433.63	# 4
6 Annual Charge Factor	*, L14	0.3108	
7 Annual Cost	(L5 x L6)	\$ 756.37	# 4
8 Monthly Cost	(L7 / 12mos)	\$ 63.03	# 4

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DSX Per DS-3 Term

Item: DS-3 Termination
 Acct: 357C with pwr & f.s.

A. INVESTMENT

1 1993 Investment	(Tab 16.12)	\$	596.36
2 1996 TPI Index	(ACAR)		98.7
3 1993 TPI Index	(ACAR)		102.2
4 TPI Factor	(L2 / L3)		0.9658
5 1996 Investment	(L1 x L4)	\$	575.96
6 Annual Charge Factor	*, L14		0.3108
7 Annual Cost	(L5 x L6)	\$	179.01
8 Monthly Cost	(L7 / 12mos)	\$	14.92

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DSX Per DSX-1 Panel

Item: DSX per DSX-1 Panel (56 DS-1 Terms)
 Acct: 357C with pwr & f.s.

A. INVESTMENT

1 1993 Investment	(Tab 16.13)	\$ 1,739.00	# 4
2 1996 TPI Index	(ACAR)	98.7	
3 1993 TPI Index	(ACAR)	102.2	
4 TPI Factor	(L2 / L3)	0.9658	
5 1996 Investment	(L1 x L4)	\$ 1,679.53	# 4
6 Annual Charge Factor	*, L.14	0.3108	
7 Annual Cost	(L5 x L6)	\$ 522.00	# 4
8 Monthly Cost	(L7 / 12mos)	\$ 43.50	

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Optical X-Conn. Panel

Item: Optical Cross Connect Panel (OCX)
Acct: 357C with pwr & f.s.

A. INVESTMENT

1 1996 Investment	(Tab 16.14)	\$	220.85	
2 Annual Charge Factor	*, L.14		0.3108	# 3
3 Annual Cost	(L1 x L2)	\$	68.64	
4 Monthly Cost	(L3 / 12mos)	\$	5.72	# 4

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PASSIVE BAY DS-1 TERM**PHYSICAL****Item: DS1 Termination (Passive Bay)****Acct: 357C with pwr & f.s.****A. INVESTMENT**

1 1993 Investment	(Tab 16.15)	\$	22.39
2 1996 TPI Index	(ACAR)		98.7
3 1993 TPI Index	(ACAR)		102.2
4 TPI Factor	(L2 / L3)		0.9668
5 1996 Investment	(L1 x L4)	\$	21.62
6. Annual Charge Factor	*, L.14		0.3108
7. Annual Coat	(L5 x L6)	\$	6.72
8. Monthly Cost	(L7 / 12mos.)	\$	0.56

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PASSIVE BAY DS-3 TERM**PHYSICAL****Item: DS3 Termination (Passive Bay)****Acct: 357C with pwr & f.s.****A. INVESTMENT**

1 1993 Investment	(Tab 16.16)	\$	285.67
2 1996 TPI Index	(ACAR)		98.7
3 1993 TPI Index	(ACAR)		102.2
4 TPI Factor	(L2 / L3)		0.9658
5 1996 Investment	(L1 x L4)	\$	275.90
6. Annual Charge Factor	*, L14		0.3108
7. Annual Cost	(L5 x L6)	\$	85.75
8. Monthly Cost	(L7 / 12mos.)	\$	7.15

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DIGITAL TIMING**PHYSICAL****Item: Digital Timing Source per Sync Signal Provided****Acct: 357C with pwr & f.s.****A. INVESTMENT**

1 1996 Investment	(Tab 16.17)	\$	484.95
2 1996 Investment	(L1)	\$	484.95
3. Annual Charge Factor	*, L.14		0.3108
4. Annual Cost	(L3 x L2)	\$	150.72
5. Monthly Cost	(L4 / 12mos.)	\$	12.56

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DS1 REPEATER**Item: DS1 Repeater****Acct: 357C with pwr & f.s.****A. INVESTMENT**

1 1993 Investment	(Tab 16.18)	\$	233.22
2 1996 TPI Index	(ACAR)		98.7
3 1993 TPI Index	(ACAR)		102.2
4 TPI Factor	(L2 / L3)		0.9658
5 1996 Investment	(L1 x L4)	\$	225.24
6. Annual Charge Factor	*, L.14		0.3108
7. Annual Cost	(L5 x L6)	\$	70.01
8. Monthly Cost	(L7 / 12mos.)	\$	5.83

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DS3 REPEATER**Item: DS3 Repeater****Acct: 357C with pwr & f.s.****A. INVESTMENT**

1 1993 Investment	(Tab 16.19)	\$ 1,353.29
2 1996 TPI Index	(ACAR)	98.7
3 1993 TPI Index	(ACAR)	102.2
4 TPI Factor	(L2 / L3)	0.9658
5 1996 Investment	(L1 x L4)	\$ 1,307.01
6. Annual Charge Factor	*, L.14	0.3108
7. Annual Cost	(L5 x L6)	\$ 406.22
8. Monthly Cost	(L7 / 12mos.)	\$ 33.85

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Modified TELRIC
11.5 % C.O.M.
ECONS ANNUAL CHARGE FACTORS

Line No.	Account	Description	A.C.F.
1	1C	Poles	
2	4C	Conduit	0.1568
3	5C	UG Cable - Met	
4	10C	Buildings	0.1834
5	12C	Intra-bldg Cable - Met	
6	22C	Aerial Cable - Met	
7	45C	Buried Cable - Met	
8	85C	UG Cable - NonMet	
9	117C	Operator Systems	
10	117C-WP	Operator Systems	
11	257C	Subscriber Pair Gain	
12	257C-WP	Subscriber Pair Gain	
13	357C	Digital Circuit	
14	357C-WP	Digital Circuit	0.3108
15	361C	General Purpose Computers	
16	377C	Digital Switch - STP	
17	377C-WP	Digital Switch - STP	
18	577C	Packet Switch Network	
19	577C-WP	Packet Switch Network	
20	812C	Intra-bldg Cable - NonMet	
21	822C	Aerial Cable - NonMet	
22	845C	Buried Cable - NonMet	

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Tab 17
Labor Rate Development

1996			
<u>Work Group</u>	<u>AC/JFC</u>	<u>Labor Rate</u>	<u>Source</u>
Collocation Coordinator	3111	\$52.69	ACAR
OSP Engr.	3230	\$39.11	ACAR
Power Engineer	3144	\$52.69	ACAR
CSPEC	3141	\$52.69	ACAR
DTE	3170	\$52.69	ACAR
Real Estate	Engineers	\$85.00	Corporate Real Estate
Real Estate	ASC employees	\$65.00	Corporate Real Estate
Account Mgr IIS (SG5)	AF4XX	\$62.80	Labor Rate Developer (PPO)
Supervisor IIS	236X	\$60.55	Labor Rate Developer (PPO)
Service Rep. IIS* (Incremental for Connect)	236X	\$26.17	Labor Rate Developer (PPO)
Splicing	P422X	\$40.77	ACAR
1999			
Service Rep. IIS* (Directly Assigned for Disconnect)	236X	\$35.08	ACAR

*Wisconsin Rates Used

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AMERITECH CENTRAL OFFICE INTERCONNECTION ORDER CHARGE

Work Group	Preparing Estimate (hour)	Travel Time (hour)	Total Time (hour) D = (B+C)	1986 Labor Rate (per hour) (E)	Total NRC F = (D*E)
(A)	(B)	(C)	D = (B+C)	(E)	F = (D*E)
Collocation Coordinator	1	0	1	\$53.69	\$53.69
CSPEC	1	0	1	\$53.69	\$53.69
Real Estate	1	0	1	\$85.00	\$85.00
Account Manager	0.25	0	0.25	\$62.82	\$15.71
Service Representative	0.75	0	0.75	\$34.89	\$26.17

ORDER EXPENSE **\$214.26**

GROSS RECEIPTS TAX **\$8.90**

TOTAL ORDER EXPENSE **\$223.16**

ORDER CHARGE **\$353.53**

DIRECT UNIT EXPENSE TO UNIT CHARGE RATIO **0.63**

Tab 16.2 pg. 1

OHIO
ACOI
PRELIMINARY ENGINEERING - COBO
(Pre Construction)

A	B	C	D	E	F
Work Group	Preparing Estimate (hour)	Travel Time (hour)	Total Time (hour) B+C	1996 Labor Rate (per hour)	Total NRC D*E
Collocation Coordinator	7	2.63	9.63	\$ 52.69	\$ 507.40
OSP Engr.	9	0.75	9.75	\$ 39.11	\$ 381.32
Power Engineer	8	1.5	9.5	\$ 52.69	\$ 500.56
CSPEC	7	2.42	9.42	\$ 52.69	\$ 496.34
DTE	9	2.75	11.75	\$ 52.69	\$ 619.11
Real Estate*	10	2	12	\$ 85.00	\$ <u>1,020.00</u>
Total NRC:					\$ <u>3,524.73</u>

*Additional Real Estate Costs

Asbestos Assessment \$991.00

Weighting:

Assessment / 8 X 65%	\$80.52
Assessment / 4 X 25%	\$61.94
Assessment / 2 X 10%	\$40.55
Total Asbestos Assessment: (D)	\$192.01

Total Preliminary: \$ 3,716.74

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ACOI
PROJECT MGT. FEE - DESIGN FIRM ORDER (COBO)

A Work Group	B Admin. Time (hr)	C Engr. Time (hr)	D Travel Time (hr)	E Total Time B+C+E	F Labor Rate (per hr)	G Total NRC E*F
Collocation Coordinator	32	0	5.28	37.28	\$ 52.69	\$ 1,963.23
OSP Engr.	14	8	1.5	23.5	\$ 39.11	\$ 919.09
Power Engineer	14	6	3	23	\$ 52.69	\$ 1,211.87
CSPEC	18	0	4.84	22.84	\$ 52.69	\$ 1,203.44
DTE	14	8	5.5	27.5	\$ 52.69	\$ 1,448.98
Real Estate*	0	28	4	32	\$ 85.00	\$ 2,720.00

Total NRC: \$ 9,466.61

*Additional Real Estate COBO Costs

Consulting Engineer	\$1,000.00
Contracted Building Work Per 100 SF (C)	<u>\$9,494.00</u>

Total Firm Order: \$ 19,960.61

OHIO
COBO COST SUMMARY

Preliminary Engineering: (A) \$ 3,716.74

Design Firm Order: (B) \$ 19,960.61

Total COBO Cost: (A+B) (First 100 SF) \$23,677.35

Additional 100 SF: (C+D) \$9,686.01

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AMERITECH CENTRAL OFFICE INTERCONNECTION
VAULT SPLICING (INITIAL) PER SPLICE
-----APPENDIX 2
PAGE 8 OF 12

1 SPLICE CASE COST PER SPLICE	\$1.44
2 SPLICE TRAY COST PER SPLICE	1.51
3 TOTAL MATERIAL COST (L1+L2)	2.95
4 LABOR HOURS PER SPLICE	3.63
5 INCREMENTAL LABOR RATE	32.92
6 LABOR COST PER SPLICE (L4*L5)	\$119.32
7 TOTAL COST PER SPLICE (L3+L6)	\$122.27

VAULT SPLICING (SUBSEQUENT) PER SPLICE

1 SPLICE CASE COST PER SPLICE	\$1.44
2 SPLICE TRAY COST PER SPLICE	1.51
3 TOTAL MATERIAL COST (L1+L2)	2.95
4 LABOR HOURS PER SPLICE	0.20
5 INCREMENTAL LABOR RATE	32.92
6 LABOR COST PER SPLICE (L4*L5)	\$6.58
7 TOTAL COST PER SPLICE (L3+L6)	\$9.53

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AMERITECH CENTRAL OFFICE INTERCONNECTION
SPlice TEST (INITIAL) PER SPlice

APPENDIX 2
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1 LABOR HOURS PER SPlice	\$0.85
2 INCREMENTAL LABOR RATE	32.92
3 LABOR COST PER SPlice (L1*L2)	\$27.98

SPlice TEST (SUBSEQUENT) PER SPlice

1 LABOR HOURS PER SPlice	\$0.05
2 INCREMENTAL LABOR RATE	32.92
3 LABOR COST PER SPlice (L1*L2)	\$1.65

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AMERITECH CENTRAL OFFICE INTERCONNECTION
CABLE PULL (MANHOLE TO VAULT)
FIRST FOOT

APPENDIX 2
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1 LABOR HOURS PER PULL	(4.02)
2 INCREMENTAL LABOR RATE	\$32.92
3 LABOR COST PER PULL FOR 1ST FT. (L1*L2)	\$132.33

CABLE PULL (MANHOLE TO VAULT)
ADDITIONAL FOOT

1 LABOR HOURS PER PULL	(0.02)
2 INCREMENTAL LABOR RATE	\$32.92
3 LABOR COST PER PULL FOR 1ST FT. (L1*L2)	\$0.66

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AMERITECH CENTRAL OFFICE INTERCONNECTION
CABLE PULL (VAULT TO TRANSMISSION NODE)
FIRST FOOT

APPENDIX 2
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1 LABOR HOURS PER PULL

1.50

2 INCREMENTAL LABOR RATE

\$32.92

3 LABOR COST PER PULL FOR 1ST FT. (L1*L2)

\$49.42

CABLE PULL (VAULT TO TRANSMISSION NODE)
ADDITIONAL FOOT

1 LABOR HOURS PER PULL

0.02

2 INCREMENTAL LABOR RATE

\$32.92

3 LABOR COST PER PULL FOR 1ST FT. (L1*L2)

\$0.49

VIRTUAL INTERCONNECTION COST SUPPORT
POWER BDFB INFRASTRUCTURE

LARGE OFCS. SECONDARY INFRASTRUCTURE	TOTAL INSTALLED COST
SECONDARY BDFB	\$9,575.07
60' OF SECONDARY CABLE RACK W/SUPPORT	\$7,846.00
100' OF NO. 1/0 CABLE FOR GROUNDING	\$996.00
GROUNDING CABLE RACK	\$2,015.00
TOTAL	\$20,432.07
(@90% OF LAR. SIZE OFFICES THAT HAVE THIS ARRANGEMENT)	\$18,388.86
 MEDIUM OFCS. SECONDARY INFRASTRUCTURE	
SECONDARY BDFB	\$7,349.07
40' OF SECONDARY CABLE RACK W/SUPPORT	\$6,210.00
100' OF NO. 1/0 CABLE FOR GROUNDING	\$996.00
GROUNDING CABLE RACK	\$2,036.00
TOTAL	\$15,591.07
(@10% OF MED. SIZE OFFICES THAT HAVE THIS ARRANGEMENT)	\$1,559.11
TOTAL LARGE OFCS	\$18,388.86
TOTAL MEDIUM OFCS	\$1,559.11
GRAND TOTAL	\$19,947.97
 MAXIMUM NUMBER OF FUSE POSITIONS IN BDFB IS 200	
GRAND TOTAL /200 FUSE POSITIONS = PER FUSE POSITION	\$99.74
FUSE POSITION x 2 =	\$199.48
ADDITIONAL 2ND POWER CABLE REQ. FOR EACH FUSE POS. A&B LOAD	\$1,021.00
TOTAL NON-RECURRING COST	\$1,220.48
 FDC FACTOR =	1.58
 TOTAL NON-RECURRING CHARGE FOR 2-FUSE POSITIONS & ASSOCIATED CABLE	\$1,928.36

**VIRTUAL INTERCONNECTION COST SUPPORT
POWER BDFB INFRASTRUCTURE
SUMMARY**

	TOTAL INSTALLED COST
SECONDARY INFRASTRUCTURE INCLUDES:	
SECONDARY BDFB	
SECONDARY CABLE RACK W/SUPPORT	
100' OF NO. 1/0 CABLE FOR GROUNDING	
GROUNDING CABLE RACK	
TOTAL COST	\$19,947.97
GRAND TOTAL /200 FUSE POSITIONS = PER FUSE POSITION	\$99.74
FUSE POSITION x 2 =	\$199.48
ADDITIONAL 2ND POWER CABLE REQ. FOR EACH FUSE POS. A&B LOAD	\$1,021.00
TOTAL NON-RECURRING COST	<u>\$1,220.48</u>
FDC FACTOR =	1.58
TOTAL NON-RECURRING CHARGE FOR 2-FUSE POSITIONS & ASSOCIATED CABLE	\$1,928.36

**AMERITECH CENTRAL OFFICE INTERCONNECTION
TRANSMISSION NODE ENCLOSURE
PER INITIAL**

TOTAL INVESTMENT	\$3,355.00
DEPRECIATION	\$78.17
COST OF MONEY	\$288.87
INCOME TAX	\$138.88
MAINTENANCE	\$104.01
AD VALOREM TAX	\$29.19
TOTAL ANNUALIZED COST	\$637.12
NET PRESENT VALUE (P/A 11.5% OVER 7 YRS.)	\$3,294.10
GROSS RECEIPTS TAX	\$138.89
TOTAL TRANSMISSION NODE ENCLOSURE COST	\$3,430.99
TRANSMISSION NODE ENCLOSURE CHARGE	\$5,435.27
DIRECT UNIT COST TO UNIT INVESTMENT RATIO	1.02
DIRECT UNIT COST TO UNIT PRICE RATIO	0.63

**AMERITECH CENTRAL OFFICE INTERCONNECTION
TRANSMISSION NODE ENCLOSURE
PER ADDITIONAL**

TOTAL INVESTMENT	\$1,325.00
DEPRECIATION	\$30.87
COST OF MONEY	\$114.08
INCOME TAX	\$54.06
MAINTENANCE	\$41.08
AD VALOREM TAX	\$11.53
TOTAL ANNUALIZED COST	\$251.62
NET PRESENT VALUE (P/A 11.5% OVER 7 YRS.)	\$1,300.95
GROSS RECEIPTS TAX	\$54.08
TOTAL TRANSMISSION NODE ENCLOSURE COST	\$1,355.01
TRANSMISSION NODE ENCLOSURE CHARGE	\$2,146.57
DIRECT UNIT COST TO UNIT INVESTMENT RATIO	1.02
DIRECT UNIT COST TO UNIT PRICE RATIO	0.63

**AMERITECH
INTERCONNECTION**

DUAL RISER COST

**TOTAL INSTALLED INVESTMENT
AVERAGE % OCCUPANCY BY CUSTOMER
INVESTMENT ATTRIBUTED TO CUSTOMER**

AMERITECH

\$500.00

75%

\$375.00

ESTIMATED RECURRING COSTS:

Depreciation	\$16.91
Cost of Money	29.29
Income Tax	13.08
Maintenance	5.25
Administrative Overhead	0.00
Incremental Expense	0.00
Other Recurring Expense	0.00
Ad Valorem Tax	4.80
Gross Receipts Tax	1.12

Total Annual Cost:	\$70.45
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Total Demand Weighted Annual Amount (including 1.58 Loading Factor)	\$112.27
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Total PV	\$442.21
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Total Non-recurring Rate Per Customer Per Floor Traversed	\$442.21
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Ratio Direct Cost to Direct Investment	0.1879
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AMERITECH CENTRAL OFFICE INTERCONNECTION **Central Office Floor Space**

TOTAL INVESTMENT	\$34,482.16	*
RECURRING COSTS		
Depreciation	\$803.43	
Cost of Money	\$2,968.91	
Income Tax	\$1,406.87	
Maintenance	\$1,068.95	
Other Recurring Expense	\$1,094.40	
Ad Valorem Tax	\$299.99	
Total Annual Cost	\$7,642.55	
Monthly Cost	\$636.88	
Gross Receipts Tax	\$26.47	
Total Monthly Cost	\$663.35	
Central Office Floor Space Monthly Rate	\$1,050.85	
Direct Unit Cost to Unit Investment Ratio	0.02	
Direct Unit Cost to Unit Price Ratio	0.63	

* Notes: 1) 1995 Inv: 33400

2) 1996 TPI Ind. 127.3

3) 1995 TPI Ind. 123.3

4) TPI Factor (L2/L3) 1.0324

5) 1996 Inv 24482.16

DEVELOPMENT OF RISER COSTS FOR PHYSICAL INTERCONNECTION

	INVESTMENT DEVELOPMENT (A)	ANNUAL CHARGE FACTORS (B)	ANNUAL COSTS C=A*B
1 INVESTMENT IN RISER SPACE (SOURCE: VENDOR ESTIMATES)	\$4,000		
2 CABLES PER RISER SPACE	160		
3 RISER INV. PER CABLE (L1/L2)	\$25		
4 AVG DISTANCE PER FLOOR (FEET)	15		
5 AVERAGE NO. OF FLOORS	3		
6 RISER INV. PER FT. (L3/(L4*L5))	\$0.56		
7 RACKING INVESTMENT PER FOOT	\$80		
8 AVG. NO. CUSTOMERS PER C.O.	1.45		
9 RACKING INV PER FT. PER CUST. (L7/L8)	\$55.17		
10 TOTAL INVESTMENT PER FT. (L6+L9)	\$55.73		
11 TELEPHONE PLANT INDEX FACTOR (TPI)	0.99		
12 1993 ADJUSTED TOTAL INV. PER FT. (L11*L12)	\$55.17		
13 COST OF MONEY		0.046243	\$2.55
14 INCOME TAX		0.018188	1.00
15 DEPRECIATION EXPENSE		0.167100	9.20
16 MAINTENANCE EXPENSE		0.015345	0.80
17 AD VALOREM TAX		0.009030	0.50
18 GROSS RECEIPTS TAX ((L13C THRU L17C)*L18B)		0.013458	0.10
19 TOTAL ANNUAL COSTS PER FT. (L13 THRU L18)			14.30
20 TOTAL MONTHLY COST PER FT. (L19/12)			1.10

NOTE: RACKING INV. OF \$80.00/FT. CONSISTS OF:

ENGINEERING COST:	\$20.00/FT	SOURCE: VENDOR ESTIMATES
INSTALLATION COST:	\$40.00/FT	SOURCE: VENDOR ESTIMATES
MATERIAL COST:	\$20.00/FT	SOURCE: VENDOR ESTIMATES

Tab. 16.9

AMERITECH CENTRAL OFFICE INTERCONNECTION
ENTRANCE CONDUIT - PER INNERDUCT FT.

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APPENDIX 2
PAGE 3 OF 12

TOTAL INVESTMENT	\$3.76
COST OF MONEY	0.28
INCOME TAX	0.11
DEPRECIATION EXPENSE	0.06
MAINTENANCE EXPENSE	0.02
AD VALOREM TAX	0.03
GROSS RECEIPTS TAX	0.01
ANNUAL COST PER INNERDUCT FT.	0.51
MONTHLY COST PER INNERDUCT FT.	0.04

**AMERITECH VIRTUAL INTERCONNECTION
POWER CONSUMPTION
PER FUSE AMP****RECURRING COSTS**

1 VOLTAGE DIRECT CURRENT (VDC) PER FUSE AMP	0.0521
2 ESTIMATED ANNUAL KILOWATT HOURS (KWH)	8,760
3 AVERAGE COST PER KWH	\$0.10
4 BASIC DC POWER COST ($L1 \cdot L2 \cdot L3$)	\$45.62
5 INCREMENTAL AIR CONDITIONER POWER COST	\$15.06
6 TOTAL ANNUAL DC POWER COST PER FUSE AMP ($L4 + L5$)	\$60.68
7 TOTAL MONTHLY DC POWER COST PER FUSE AMP ($L6/12$)	\$5.06
8 TOTAL COST ($L7 \cdot 1.58$ FDC FACTOR) = RATE	\$7.99

Tab. 1b.11

200 CONDUCTOR ELECTRICAL CROSS CONNECTION BLOCK

INVESTMENT	\$2,505.02
DEPRECIATION	\$271.11
COST OF MONEY	\$157.86
INCOME TAX	\$66.93
MAINTENANCE	\$170.20
AD VALOREM TAX	\$17.09
TOTAL ANNUAL COST	\$683.18
TOTAL MONTHLY COST	\$56.93
OVERHEAD FACTOR	1.58
TOTAL MONTHLY COST PER CROSS-CONNECTION BLOCK	\$89.95

CROSS CONNECT SERVICE 2-WIRE XCONN.

INVESTMENT	\$5.93*
DEPRECIATION	\$0.64
COST OF MONEY	\$0.37
INCOME TAX	\$0.16
MAINTENANCE	\$0.40
AD VALOREM TAX	\$0.04
TOTAL ANNUAL COST	\$1.61
TOTAL MONTHLY COST	\$0.13
OVERHEAD FACTOR	1.58
TOTAL MONTHLY COST PER 2-WIRE X-CONN	\$0.21

Tab 16.12

DEVELOPMENT OF AMERITECH VIRTUAL DS-3 POINT OF TERMINATION COSTS

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EXHIBIT
PAGE 8 OF

	INVESTMENT (A)	ANNUAL CHARGE FACTOR (B)	COSTS (C)
1 DSX-3 PANEL INVESTMENT	\$297.46		
2 DSX-3 TERM. PANEL INVESTMENT 24 TERMS.	\$14,015.14		
3 DSX-3 TERMINATIONS PER PANEL	24		
4 TOTAL DSX-3 TERMINATION PANEL INV PER TERMINATION (L1+L2)/L3	\$596.36		
5 C.O. DIG. TEL PLT INDEX	0.99		
6 ADJUSTED TOTAL DSX-3 POINT OF TERMINATION INV	\$590.39		
7 COST OF MONEY		0.046009	\$27.
8 INCOME TAX		0.018448	\$10
9 DEPRECIATION EXP		0.167100	\$98.
10 MAINTENANCE EXP		0.016905	\$9
11 AD VALOREM TAX		0.008103	\$4
12 GROSS RECEIPTS TAX ((L8C THRU L12C)*13B		0.011699	\$1
13 TOTAL ANNUAL COSTS PER DSX-3 POINT OF TERMINATION (L8 THRU L13)			\$153
14 TOTAL MONTHLY COSTS PER DSX-3 TERMINATION (L14/12)			\$12
15 FDC FACTOR			1
16 FDC COST PER DSX-3 TERMINATION (L15 * L16)			\$20

Tab. 16.13

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Comments
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DEVELOPMENT OF CORRECTED VIRTUAL DS-1 DIGITAL CROSS CONNECT PANEL COST

	ILLINOIS	INDIANA	MICHIGAN	OHIO	VISCONSIN	AMERITECH
1 DSX-1 PANEL INV.	\$34	\$34	\$34	\$34	\$34	\$34
2 TPI FACTOR	0.99	0.99	0.99	0.99	0.99	0.99
3 INSTALLATION FACTOR	0.265500	0.061800	0.115600	0.162900	0.033500	0.161960
4 1993 DSX-1 PANEL INSTALLED INV. (L1*L2*L3+L1*L2)	\$42	\$35	\$37	\$39	\$35	\$39
5 56 DSX-1 TERMINATIONS	\$461	\$461	\$461	\$461	\$461	\$461
6 TPI FACTOR	0.99	0.99	0.99	0.99	0.99	0.99
7 INSTALLATION FACTOR	1.844100	1.764800	1.999500	1.597700	1.706700	1.794884
8 1993 56 DSX-1 TERMS INSTALLED INV. (L5*L6*L7+L5*L6)	\$1,862	\$1,810	\$1,964	\$1,701	\$1,772	\$1,829
9 TOTAL DSX-1 INSTALLED INV	\$1,904	\$1,845	\$2,001	\$1,739	\$1,806	\$1,848
10 AOC WEIGHTING FACTORS	0.40	0.17	0.16	0.21	0.07	1.00
11 AMERITECH WEIGHTED DSX-1 INV	\$755	\$318	\$310	\$360	\$125	\$1,848
12 COST OF MONEY (L11*L12)						\$86
12A ANNUAL CHARGE FACTOR						0.046009
13 INCOME TAX (L11*L13A)						\$34
13A ANNUAL CHARGE FACTOR						0.018448
14 DEPRECIATION EXP (L11*L14A)						\$312
14A ANNUAL CHARGE FACTOR						0.167100
15 MAINTENANCE EXP (L11*L15A)						\$32
15A ANNUAL CHARGE FACTOR						0.016903
16 AD VALOREM TAX (L11*L16A)						\$15
16A ANNUAL CHARGE FACTOR						0.008703
17 GROSS RECEIPTS TAX ((L12 THRU L16)*L17A)						\$4
17A ANNUAL CHARGE FACTOR						0.011699
18 ANNUAL COST FOR VIRTUAL DS-1 DIG XCMT (L12 THRU L17)						\$485
19 MONTHLY COST FOR VIRTUAL DS-1 DIG XCMT (L18/12)						\$40

**VIRTUAL INTERCONNECTION
OPTICAL CROSS-CONNECT PANEL(OCX)**

Per OCX Panel Segment

COST DEVELOPMENT

AMERITECH

INVESTMENT

220.85

**MONTHLY COSTS
FDC FACTOR**

6.82

1.58

MONTHLY RATE

10.78

DEVELOPMENT OF AMERITECH DS-1 POINT OF TERMINATION COSTS

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PAGE 2 OF 8

Tab. 16.15

	INVESTMENT (A)	ANNUAL CHARGE FACTOR (B)	COSTS (C)
1 DS-1 TERMINATION PANEL INVESTMENT	\$1,138.00		
2 POINT OF TERMINATION BAY INVESTMENT	\$1,271.52		
3 DS-1 TERMINATION PANELS PER BAY	11		
4 DS-1 TERMINATIONS PER PANEL	56		
5 DS-1 TERMINATION PANEL INV PER TERMINATION (L1/L4)	\$20.32		
6 DS-1 POINT OF TERMINATION BAY INVESTMENT PER TERMINATION ((L2/L3)/L4)	\$2.06		
7 TOTAL DS-1 POINT OF TERMINATION INV (L5+ L6)	\$22.39		
8 C.O. DIG. TEL PLT INDEX	0.99		
9 ADJUSTED TOTAL DS-1 POINT OF TERMINATION INV	\$22.16		
10 COST OF MONEY		0.046009	\$1.0
11 INCOME TAX		0.018448	\$0.
12 DEPRECIATION EXP		0.167066	\$3.
13 MAINTENANCE EXP		0.016905	\$0.
14 AD VALOREM TAX		0.008103	\$0.
15 GROSS RECEIPTS TAX ((L10C THRU L14C)*15B		0.010407	\$0.
16 TOTAL ANNUAL COSTS PER DS-1 POINT OF TERMINATION (L10 THRU L15)			\$5.
17 TOTAL MONTHLY COSTS PER DS-1 TERMINATION (L16/12)			\$0
18 FDC FACTOR			1
19 FDC COST PER DS-1 TERMINATION (L17 * L18)			\$0

Tab. 16.16

	INVESTMENT (A)	ANNUAL CHARGE FACTOR (B)	COSTS (C)
1 DS-3 TERMINATION PANEL INVESTMENT	\$6,729.00		
2 POINT OF TERMINATION BAY INVESTMENT	\$1,271.52		
3 DS-3 TERMINATION PANELS PER BAY	10		
4 DS-3 TERMINATIONS PER PANEL	24		
5 DS-3 TERMINATION PANEL INV PER TERMINATION (L1/L4)	\$280.38		
6 DS-3 POINT OF TERMINATION BAY INVESTMENT PER TERMINATION ((L2/L3)/L4)	\$5.30		
7 TOTAL DS-3 POINT OF TERMINATION INV (L5 + L6)	\$285.67		
8 C.O. DIG. TEL PLT INDEX	0.99		
9 ADJUSTED TOTAL DS-3 POINT OF TERMINATION INV	\$282.82		
10 COST OF MONEY		0.046009	\$13.0
11 INCOME TAX		0.018448	\$5.2
12 DEPRECIATION EXP		0.167066	\$47.2
13 MAINTENANCE EXP		0.016905	\$4.7
14 AD VALOREM TAX		0.008103	\$2.2
15 GROSS RECEIPTS TAX ((L10C THRU L14C)*15B		0.010407	\$0.7
16 TOTAL ANNUAL COSTS PER DS-3 POINT OF TERMINATION (L10 THRU L15)			\$73.1
17 TOTAL MONTHLY COSTS PER DS-3 TERMINATION (L16/12)			\$6.1
18 FDC FACTOR			1.1
19 FDC COST PER DS-3 TERMINATION (L17 * L18)			\$9.1

AMERITECH CENTRAL OFFICE INTERCONNECTION
DIGITAL TIMING SOURCE

TOTAL INVESTMENT	\$557.30	*
RECURRING COSTS		
Depreciation	\$75.59	
Cost of Money	\$38.58	
Income Tax	\$18.21	
Maintenance	\$13.40	
Ad Valorem Tax	\$5.12	
Total Annual Cost	\$150.90	
Monthly Cost	\$12.58	
Gross Receipts Tax	\$0.52	
Total Monthly Cost	\$13.10	
Digital Timing Source Monthly Rate	\$20.76	
Direct Unit Cost to Unit Investment Ratio	0.02	
Direct Unit Cost to Unit Price Ratio	0.83	

* Note 557.30 Includes investment in power & floor space.

557.30

- 72.35 (Inv. in power & f.s.)

484.95 Inv. without power & f.s.

Tab. 16.18

	INVESTMENT (A)	ANNUAL CHARGE FACTOR (B)	COSTS (C)
1 DS-1 REPEATER INVESTMENT	\$209.16		
2 REPEATER BAY INVESTMENT	\$7,788.52		
3 DS-1 REPEATER PANELS PER REPEATER BAY	12		
4 DS-1 REPEATERS PER PANEL	28		
5 REPEATER BAY INV PER REPEATER ((L2/L3)/L4)	\$23.18		
6 REPEATER PANEL INVESTMENT	\$24.50		
7 REPEATER PANEL INVESTMENT PER REPEATER (L6/L14)	\$0.88		
8 TOTAL DS-1 REPEATER INV (L1 + L5 + L7)	\$233.22		
9 C.O. DIG. TEL PLT INDEX	0.99		
10 ADJUSTED TOTAL DS-1 REPEATER INV	\$230.88		
11 COST OF MONEY		0.046009	\$10.62
12 INCOME TAX		0.018448	\$4.26
13 DEPRECIATION EXP		0.167066	\$38.57
14 MAINTENANCE EXP		0.016905	\$3.90
15 AD VALOREM TAX		0.008103	\$1.87
16 GROSS RECEIPTS TAX ((L11C THRU L15C)*16B		0.010407	\$0.62
17 TOTAL ANNUAL COSTS PER DS-1 REPEATER (L11 THRU L16)			\$59.85
18 TOTAL MONTHLY COSTS PER DS-1 REPEATER (L17/12)			\$4.99
19 FDC FACTOR			1.58
20 FDC COST PER DS-1 REPEATER (L18 * L19)			\$7.88

Tab. 16.19

	INVESTMENT (A)	ANNUAL CHARGE FACTOR (B)	COSTS (C)
1 DS-3 REPEATER INVESTMENT	\$1,232.44		
2 REPEATER BAY INVESTMENT	\$7,788.52		
3 DS-3 REPEATER PANELS PER REPEATER BAY	9		
4 DS-3 REPEATERS PER PANEL	8		
5 DS-3 REPEATER BAY INV PER REPEATER ((L2/L3)/L4)	\$108.17		
6 DS-3 REPEATER PANEL INVESTMENT	\$101.40		
7 DS-3 REPEATER PANEL INVESTMENT PER REPEATER (L6/L14)	\$12.68		
8 TOTAL DS-3 REPEATER INV (L1 + L5 + L7)	\$1,353.29		
9 C.O. DIG. TEL PLT INDEX	0.99		
10 ADJUSTED TOTAL DS-3 REPEATER INV	\$1,339.76		
11 COST OF MONEY		0.046009	\$81.64
12 INCOME TAX		0.018448	\$24.72
13 DEPRECIATION EXP		0.167066	\$223.83
14 MAINTENANCE EXP		0.016905	\$22.65
15 AD VALOREM TAX		0.008103	\$10.86
16 GROSS RECEIPTS TAX ((L11C THRU L15C)*168		0.010407	\$3.56
17 TOTAL ANNUAL COSTS PER DS-3 REPEATER (L11 THRU L16)			\$347.27
18 TOTAL MONTHLY COSTS PER DS-3 REPEATER (L17/12)			\$28.94
19 FDC FACTOR			1.51
20 FDC COST PER DS-3 REPEATER (L18 * L19)			\$45.70

Tab 16.20

AMERITECH CENTRAL OFFICE INTERCONNECTION SPACE RESERVATION CHARGE

Work Group	Total Time (hour) (B)	Labor Rate (per hour) (C)	Total NRC D=B*C
(A)			
Collocation Coordinator	2	\$53.69	\$107.38
CSPEC	8	\$53.69	\$428.52
RESERVATION EXPENSE			\$538.90
GROSS RECEIPTS TAX			\$22.87
TOTAL RESERVATION EXPENSE			\$558.77
TOTAL ANNUAL RESERVATION EXPENSE			\$341,461
FDC FACTOR			1.58
SPACE RESERVATION CHARGE			\$884.44
DIRECT UNIT EXPENSE TO UNIT PRICE RATIO			0.63

AMERITECH CENTRAL OFFICE INTERCONNECTION CANCELLATION CHARGE

Work Group	Preparing Estimate (hour)	Travel Time (hour)	Total Time (hour) D = (B+C)	1996 Labor Rate (per hour) (E)	Total NRC F = (D*E)
(A)	(B)	(C)			
Collocation Coordinator	7	2.63	9.63	\$53.69	\$517.03
OSP Engr.	9	0.75	9.75	\$46.77	\$455.01
Power Engineer	8	1.5	9.5	\$53.69	\$510.06
CSPEC	7	2.42	9.42	\$53.69	\$505.76
DTE	9	2.75	11.75	\$53.69	\$630.86
Real Estate	10	2	12	\$85.00	\$1,020.00
Sub-Total Labor Expense					\$3,639.72
Weighted Average Abestos Assessment					\$192.01
CANCELLATION EXPENSE					\$3,831.73
GROSS RECEIPTS TAX					\$159.23
TOTAL CANCELLATION EXPENSE					\$3,990.96
CANCELLATION CHARGE					\$6,322.35
DIRECT UNIT EXPENSE TO UNIT CHARGE RATIO					0.63