ATTACHMENT B

BellSouth Telecommunications, Inc.
FPSC Docket No. 001797-TP
Request for Confidential Classification

5/17/01

REQUEST FOR CONFIDENTIAL CLASSIFICATION OF BELLSOUTH'S RESPONSE TO COVAD'S FIRST REQUEST FOR PRODUCTION OF DOCUMENTS (POD NOS. 7, 18, 22, 32 AND 33) FILED APRIL 26, 2001 IN FLORIDA DOCKET NO. 001797-TP

Two Redacted Copies

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BELLSOUTH TELECOMMUNICATIONS, INC.

FPSC DKT NO. 001797-TP

COVAD'S FIRST REQUEST FOR PRODUCTION OF DOCUMENTS

POD NO. 7

PROPRIETARY

Missed Repair Appmts CLEC - 2001							
		FL					
		Residence	Residence	UNE Design	UNE Design	UNE Non-Design	
Month	METRICS	Dispatch	Non-Dispatch	Dispatch	Non-Dispatch	Dispatch	TOTAL
January	Missed App.						
2001	Trouble Count						
	Missed Percent						
February	Missed App.						
2001	Trouble Count						
	Missed Percent						
March	Missed App.						
2001	Trouble Count						
	Missed Percent						

Missed Repair Appmts CLEC - 2000					
		FL			
		Residence	UNE Design	UNE Design	
Month	METRICS	Non-Dispatch	Dispatch	Non-Dispatch	TOTAL
January	Missed App.				
2000	Trouble Count				
	Missed Percent				
February	Missed App.				
2000	Trouble Count				
	Missed Percent				
March	Missed App.				
2000	Trouble Count				
	Missed Percent				
April	Missed App.				
2000	Trouble Count				
	Missed Percent				
May	Missed App.				
2000	Trouble Count				
	Missed Percent				
June	Missed App.				
2000	Trouble Count				
	Missed Percent				
July	Missed App.				
2000	Trouble Count				
	Missed Percent				
August	Missed App.				
2000	Trouble Count				
	Missed Percent				
September	Missed App.				
2000	Trouble Count				
	Missed Percent				
October	Missed App.				
2000	Trouble Count				
	Missed Percent				
November	Missed App.				
2000	Trouble Count				
	Missed Percent				
December	Missed App.				
2000	Trouble Count				
	Missed Percent				

Missed Repair Appmts CLEC - 1999				
		FL		
		UNE Design	UNE Design	
Month	METRICS	Dispatch	Non-Dispatch	TOTAL
August	Missed App.			
1999	Trouble Count			
	Missed Percent			
September	Missed App.			
1999	Trouble Count			
	Missed Percent			
October	Missed App.			
1999	Trouble Count			
	Missed Percent			
November	Missed App.			
1999	Trouble Count			
	Missed Percent			
December	Missed App.			
1999	Trouble Count			
	Missed Percent			

BELLSOUTH TELECOMMUNICATIONS, INC.

FPSC DKT NO. 001797-TP

COVAD'S FIRST REQUEST FOR PRODUCTION OF DOCUMENTS

POD NO. 18

PROPRIETARY

Entire Document

BELLSOUTH TELECOMMUNICATIONS, INC.

FPSC DKT NO. 001797-TP

COVAD'S FIRST REQUEST FOR PRODUCTION OF DOCUMENTS

POD NO. 22

PROPRIETARY

- TN

CUSTOMER TROUBLE REPORT RATE

FEB 2000 - DEC 2000

	- Florida % No Trouble Found Troubles		
MONTH	TOTAL FLA	NTF/TOK	%
March-00		20	
April-00			
May-00			
June-00			
July-00			
August-00			
September-00			
October-00			
November-00			
December-00			
January-01			
February-01			
March-01			

% Repeat Trbls w/in 30 days CLEC - 2001							
		FL					
		Residence	Residence	UNE Design	UNE Design	UNE Non-Design	
Month	METRICS	Dispatch	Non-Dispatch	Dispatch	Non-Dispatch	Dispatch	TOTAL
January	Repeat Count						
2001	Trouble Count						
	Percent						
February	Repeat Count						
2001	Trouble Count						
	Percent						
March	Repeat Count						
2001	Trouble Count						
	Percent						

% Repeat Trbls w/in 30 days CLEC - 2000						
			Residence	UNE Design	UNE Design	
State	Month	METRICS	Non-Dispatch	Dispatch	Non-Dispatch	TOTAL
FL	January	Repeat Count				
	2000	Trouble Count				
		Percent				
	February	Repeat Count				
	2000	Trouble Count				
		Percent				
	March	Repeat Count				
	2000	Trouble Count				
		Percent				
	April	Repeat Count				
	2000	Trouble Count				
		Percent				
	May	Repeat Count				
	2000	Trouble Count				
		Percent				
	June	Repeat Count				
	2000	Trouble Count				
		Percent				
	July	Repeat Count				
	2000	Trouble Count				
		Percent				
	August	Repeat Count				
	2000	Trouble Count				
		Percent				
	Septemb	Repeat Count				
	2000	Trouble Count				
		Percent				
	October	Repeat Count				
	2000	Trouble Count				
		Percent				
	Novembe	Repeat Count				
	2000	Trouble Count				
		Percent				
	Decembe	Repeat Count				
	2000	Trouble Count				
		Percent				

% Repeat Trbls w/in 30 days CLEC - 1999				
		FL		
		UNE Design	UNE Design	
Month	METRICS	Dispatch	Non-Dispatch	TOTAL
August	Repeat Count			
1999	Trouble Count			
	Percent			
September	Repeat Count			
1999	Trouble Count			
	Percent			
October	Repeat Count			
1999	Trouble Count			
	Percent			
November	Repeat Count			
1999	Trouble Count			
	Percent			
December	Repeat Count			
1999	Trouble Count			
	Percent			

BELLSOUTH TELECOMMUNICATIONS, INC.

FPSC DKT NO. 001797-TP

COVAD'S FIRST REQUEST FOR PRODUCTION OF DOCUMENTS

POD NO. 32

PROPRIETARY

Requests for Production Item No. 32
Attachment No. 1
Line Sharing – Supporting Documents

Price Details

Contract No:
Description:

Item 1 of 1
Price Effective Date: 02/14/2000

Price Type	Unit Price	Price Multiple / Unit of Measure	Qty Break
Net Price (D)		EA	N/A

Delivery Interval: N/A
Order Multiple Qty: N/A
Merchandise Class: 32221

Stocked: No
Source: Omaha, NE
Prod Weight: N/A

Notes:

Add to my saved product list: Please Select

View product list: Please Select

Create new product list:

Help on this activity Return to price query

BOTTOM NAVBAR

BellSouth Central Office Driver Pricing

		ENGINEERING		INSTALLATION		MATL.
		FIRST	EA. ADD	FIRST	EA. ADD	EACH
1	Assemble and Mount Bay or Cabinet					
2	Install Shelf or Unit in Bay					
3	Misc. Fuse termination - max length 30'					
	Office and Local Alarms					
	Remote Alarms - X.25, TBOS, Discrete and Broadband					
6	Alarm Acceptance and Testing					
7	Miscellaneous Leads (Run/Connect) - max length 125 ft.					
8	Multiple Miscellaneous Leads (Run/Connect)					
9	Fiber Jumpers (Include Connectors One Pair (Xmt/Rcv) Pair) - max length 125 ft.					
10	Fiber Cross-Connect Jumpers ((Xmt/Rcv) Pair) - max length 30 ft.					
11	Fiber Duct added to existing line-up					
12	DS3/STS-1 (Ntwk Element to DSX-3) 1 cits - max length 150ft.					
13	DS3/STS-1 (Ntwk Element to DSX-3) 6 cits. - max length 150 ft.					
14	DS3/STS-1 (Ntwk Element to DSX-3) 12 cits. - max length 150 ft.					
15	FUTURE - DS3/STS-1 (Ntwk Element to DSX-3) 24 cits.					
16	DS1/VT1.5 (Ntwk Element to DSX-1 Non-Connectorized) 28 cits - max length 150 ft.					
17	Connectorized DS1/VT1.5 (ntwk Element to DSX-1) 28 cits - max length 150 ft.					
18	Connectorized DS1/VT1.5 (Ntwk Element to DSX-1) (Non-Amph. Non-710 Conn.) 28 cits - max length 150					
19	DSO (Ntwk Element to DF 25 Pair Connectorized) - max length 200 ft.					
20	DSO (Ntwk Element to DF 100 Pair Connectorized) - max length 200 ft.					
21	Plugs and Circuit Packs - Handle, Warehouse, Deliver, verify					
22	Modules / Straps / Hardware Warehouse, deliver, handle, verify					
23	Power Per Load (BDFB) 1 - 15 amps - max length 150 ft.					
24	Power Per Load (BDFB) 16 - 30 amps - max length 150 ft.					
25	Power Per Load (BDFB) 31 - 45 amps - max length 150 ft.					
26	Power Per Load - Inter bay power - max length 125 ft.					
27	Power Per Load (Connectorized Power Cable Assemblies) - max length 30 ft.					
	Timing Cable Per Pair - max length 200 ft.					
	Multiple Cable Within Same Bay					
	Fuse Panel (Mat'l only)					
31	Furnish Bay (All Types)(Mat'l only)					
32	Cabinets (Mat'l only)					
33	Terminal Strips and Wiring Blocks					
34	Seismic bay (Mat'l only)					
35	100 Foot stub					
36	200 Foot stub					
37	300 Foot stub					
38	500 Foot stub					
39	Seismic end guard					
40	Seismic bay extender					
41	Engineering costs - to cover additional detailed Engr. costs					
42	Installation costs - to cover additional Instl. costs					
43	Open and close cable hole					
44	300 and 400 type blocks - (306, 310, 409) material difference from 88 type					
45	Excessive cable lengths - DS0, DS1 and DS3 - max length in 200 ft. increments					
46	OEM provided cable assembly cost for intra bay cabling - installation costs only					
47	OEM provided cable assembly cost for inter bay cabling - installation costs only					
48	DSO (Ntwk Element to DF 25 Pair Non-Connectorized both ends) - max length 200 ft.					
49	DSO (Ntwk Element to DF 100 Pair Non-Connectorized both ends) - max length 200 ft.					

From Dave Wiedicke Supply Chain Mgmt 2/9/00

All prices shown are current.

3

QTY	Driver #	Installation Activity	ENGINEERING			INSTALLATION			MATERIAL	
			FIRST	EA. ADD.	*Total*	FIRST	EA. ADD.	*Total*	EACH	*Total*
1	1	Assemble and Mount Bay/Cabinet								
14	2	Install Shelf/Unit/etc. in Existing Bay								
42	20	DSO (Ntwk Element to DF 100 Pair Connectorized) 150'								
336	21	Plugs/Ckt Packs - Handle, Warehouse, Deliver								
1	31	Furnish Bay (All Types)(Mat'l only)								
42	33	Terminal Strips/Wiring Blocks	-	-						
14	42	1 hour of installation; 3 - 89 type blocks per/hour	-	-						

TOTALS **ENG:** **INST:** **MAT:**

Grand Total = $30,929

Estimated cost of extra cabling if cosmic frame is involved; max distance 150'

27	49	DS0 wire-wrap both ends; 100 pair

This excel spreadsheet provides Engineering, Installation, and minor material charges for the Siecor 96-line ADSL POTS splitter. It also covers the material cost of one 7' standard, non-seismic network bay.

It covers 89 type blocks, physical installation, engineering, and DS0 cabling between the 89 type blocks and the frame for one 7' fully equipped bay of the equipment. The device is passive, and derives powering from the DSLAM equipment, so no power cabling is included. Siecor recommended capacity for one bay is 14 shelves. The equipment is not shopwired, so the installation portion also covers assembly of the shelves into the bay and placement of the 24 plug-in circuit boards in each shelf. These costs only reflect cabling for an MDF environment. If the office has a cosmic frame, additional DS0/tie (wire-wrap both ends) cabling for 2688 pairs (14 shelves X 96 lines X 2) would be required. See additional estimated charge at the bottom of the spreadsheet.

The assumption is made that the max distance on the DS0 cabling is 150', and that the backplane allows for cabling with a 100' cable to each 89 type block for each set of 32 lines.

I would advise referencing the total E, total I, and total M costs - and overall project cost; but not the activity level pricing.

TEXT
Subject: DSL line card w/test points - transition info
Creator: Rob Ehrhardt /Internet (Rob_Ehrhardt@corning.com)

Dated: 7/11/00 at 15:26
Size: 3353 bytes

Gentlemen, in response to your inquiry I am providing information regarding our DSL line splitter card with the test point access feature. Pls see the attached e-mail from Paul Davis, our Market Specialist for BellSouth.

As a point of clarification, allow me to point out that the rate which Paul references (10,000 line cards/month) is sufficient to support your current monthly allocation of 400 CO Splitter shelves: 400 shelves x 24 cards/shelf = 9600 cards + 200 extra cards/month = 9800 cards (NOTE: it is more then sufficient to support the orders that we currently have on the books for July and August). Feel free to call if you have any questions (904/424-1330).

Also, I have forwarded samples of the proposed line card to you at the BTAC for your evaluation (as noted in a VMX to Gary Tennyson yesterday, July 10).

Finally, should you decide to begin using the line card with the test point access feature pls confirm whether you intend to continue the purchase of our Bantam Jack Test Shelf (i.e. will the line card replace the Test Shelf or will the line cards feature be an additional test capability).

Pls let us know your decision asap. As a courtesy to CCS, we request 4 wks notice for implementing this change so that we may minimize the impact on our component suppliers, and therefore, on our ability to continue shipping these products to BellSouth in a timely manner.

r/Rob

---------- Forwarded by Rob Ehrhardt/SP/Siecor on 07/11/2000 09:31 AM ----------

Paul Davis
07/10/2000 05:30 PM

To: Rob Ehrhardt/SP/SiecorCorningCS
cc: Jim Cummins/SP/SiecorCorningCS
Subject: DSL line card w/test points - transition info (Document link not converted)

Rob,

Bellsouth currently purchases standard line cards in conjunction with xDSL 96-line CO Splitter Shelves. Corning Cable Systems (CCS) offers an alternate line card for use in these splitter shelves which would provide BST with additional test access/capability. CCS can transition BST to these cards beginning with shipments in August, 2000 at a rate of 10,000/month.

In summary, the affected part numbers and prices are:

Description	VPN	CPR	CURRENT PRICE	NEW PRICE (w/new line card)
96-line CO Splitter Shelf (current)		COSP9682R008	N/A	N/A
96-line CO Splitter Shelf (w/test access)		COSP9681BR008	N/A	$2,847.36
4-line Card (current)	COSP008320000		M72812	N/A
4-line Card (w/test access pt's)	COSP008180000		tbd	$90.80
Empty CO Splitter Shelf (current)		COSP0083R008	300133	N/A

1
2
3

5

Bantam Jack Test Shelf (current) COSJBT096 2011B1
N/A

24-line RT Splitter shelf (rear access) COSE24S8C014 tbd
(1)

24-line RT Splitter shelf (front access) COSE24S8C015 tbd
(1)

(1) CCS does not currently offer a line card with test point access for the RT Splitter shelf. However, this product is under development.

Please let me know if you have additional questions.

Thanks.

Paul Davis
Market Specialist - Public Networks
Corning Cable Systems

BELLSOUTH TELECOMMUNICATIONS, INC.

FPSC DKT NO. 001797-TP

COVAD'S FIRST REQUEST FOR PRODUCTION OF DOCUMENTS

POD NO. 33

PROPRIETARY

Requests for Production Item No. 33
Attachment No. 1
Collocation – Supporting Documents

Karen C. Hill 615-646-7449
575 8298

The information provided below, including the price, is generic in nature. It does not provide any information specific to a particular site. We have made several assumptions. Since the terms of adjacent collocation are still being negotiated and we have not provisioned any adjacent collocation arrangements it is hard to tell what will be encountered in real life. The assumptions that have been made are as follows:

Pricing for typical project:

1) The hut/CEV will be located no further than 50 feet away from the building.
2) The distance traversed within the building to connect to BellSouth's power will be no further away than 100 feet.
3) The service provided would handle an additional load of a dehumidifier, electrical receptacles, lighting, sump pump, mechanical cooling etc.
4) A standard collocator equipment layout for 200 square feet was used to calculate the amount of power.
5) Standard conditions were considered. No work within battery rooms, no work around sensitive equipment, no usage of special breakers, etc. were considered.
6) All work would be between the hours of 7:00AM and 5:00PM during weekdays.
7) Any work associated with the CEV/Hut such as building setup, foundations, landscaping, etc. were not considered as they will be provided by the CLEC.
8) The collocators will be provided the same AC power that is available in the central office facility. If the collocator wishes to convert this power to another phase, they will purchase and install the transformer.

The scope of work categories covered by this price would include:

1) Supervision
2) Demolition (Tearing up the Parking Lot, coring the exterior wall, etc.)
3) Mobilization
4) Earth Work and Excavation (Digging the trench)
5) Compaction (Compacting the dirt placed back in the trench)
6) Asphalt (New parking lot paving)
7) Electrical
8) Painting Allowance (Re-stripping the parking lot)

— Plot 2x
— Permits —
— what's contingency for
— what power is being provided.

Basically, the pricing would break down as follows:

Electrical Work:	17,250.00	(Item Number 7 above)
Other Work:	9,750.00	(All items except Number 7)
Permitting:	1,000.00	
Architectural/engineering/project management:	9,000.00	
TOTAL:	37,000.00	
Contingency:	2,500.00	
GRAND TOTAL:	39,500.00	

Conversion to cost per linear foot $39,500/150 l.f.= $263 per linear foot

This price can be used for the electrical installation cost for all adjacent collocation arrangements excluding extra-ordinary conditions. This rate is in addition to the recurring cost per amp for power usage.

Extra-ordinary conditions would only include having to add additional electrical capacity. This will be a rare occurrence and these costs need to be recovered on an ICB basis since there is no way to predict the cost or occurrence.

Matl	Source	Cost	
Physical Collocation - 2 Fiber (Singlemode) Cross Connects			
LGX Bay			
Bay Frwk	Network Planning & Support		
Retainers JR4C9	Network Planning & Support		
Lightguide Kit (2)	Network Planning & Support		
Total Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization	Network Planning & Support		
LGX Shelf			
Shelf	Network Planning & Support		
Coupler Panel (12)	Network Planning & Support		
SC Coupling (72)	Network Planning & Support		
Total Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization	Network Planning & Support		
Fiber Cable			
Material Price per foot ($1,114.02	Network Planning & Support		
Number Feet	Network Planning & Support		Note 3
2 Fiber Circuit capacity per Cable	Network Planning & Support		
Projected Actual Utilization	Network Planning & Support		
Connector Price per circuit	Network Planning & Support		
Cable Rack 5" ED4C685 -72			Note 1
Material Price per foot	Network Planning & Support		
Number Feet	Network Planning & Support		Note 3
Circuit Capacity	Network Planning & Support		Note 2
Projected Actual Utilization	Network Planning & Support		
Physical Collocation - Fiber POT Bay			
POT Bay			
Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization			
POT Bay Shelf e/w locks			
Shelf	Network Planning & Support		
Coupler Panel (4)	Network Planning & Support		
SC Coupling (24)	Network Planning & Support		
Total Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization			

Note 1: 5 " Cable rack material cost
ED4C685-72 G-1 $99.60 (rack)
G-10 $80.60 (horns)
G-66 $8.88 (support detail)
G-106 $17.19 (threaded rod)
$206.27/9.71' = $21.24/ft

Note 2: Assume 24 fiber LGBC OD=.49"
Assume cable pileup to max of 5"
Max cables = 5/.49 X 5/.49 = 100
Circuit Cap = 100 X 12 = 1200

Note 3: Fiber Duct Components/60ft run
10 - 4x4 Straight Duct 6'
2 - 4x4 Elbow
10 - 4x4 Splice
5 - Support Details
5 - threaded rod
Total per 60ft = $549.02
Matl Cost per Foot = $9.15
Fiber Patchcord Capacity from ADC catalog
Assumes 3mm patchcords, 2/ckt

Note 3: Cable length changed from 300 to 330
to match average physical collocation
DS1 cross connect length
(revised 11/6/97)

4

Entire
page

	A	B	C	E	F	G	H	I	J	K	L	M
1		Adjacent Collocation - Input for DS0, DS1 and DS3 copper cross-connection recurring charge 11/30/99 TEW @ 205-977-0445										
2												
3												
4	Cost	COLLOCATION										
5	#		Inputs	Attachment Ref #	Supporting Info							
6												
7	H.1.7	Physical Collocation - Cable Support Structure, Per Entrance Cable										
8		Investment per Foot		4	5" Rack = $233.49/9.7 ft.= $19.96/ft ; Auxiliary framing, support rods, junction details, etc. estimated at $14.00 ft.							
9		Cable Capacity			Note 7							
10		Projected Actual Utilization										
11		Average Cable Length										
12												
13	H.1.8	Physical Collocation - Power, Per Ampere										
14		Monthly Power Usage										
15		Average Monthly Cost per KWH			=$.07/month x 48 watts x 24hrs/day x 30days/mo x 1/.85 rect eff x .6666 adj factr							
16		Watts			=$1.8972/Mo							
17		Rectifier Efficiency			The above formula has been modified to include a factor of .66666							
18					This factor is required to calculate commercial power consumption based upon the rating of the DC protection device							
19												
20												
21												
22	H.1.9	Physical Collocation - 2-Wire Cross Connects										
23		Trunk Distributing Frame										
24		Material Price		2	$3736.80 + 10% ($373.68) for cable rngs, designation boards, and other misc. hardware.							
25		Circuit Capacity										
26		Projected Actual Utilization										
27		Number Required										
28		Connecting Block										
29		Material Price		3								
30		Circuit Capacity										
31		Projected Actual Utilization										
32		Number Required										
33		Cable										
34		Material Price per foot		4								
35		Number Feet										
36		Circuit Capacity										
37		Projected Actual Utilization										
38		Cable Rack										
39		Material Price per foot		5	Rack = $233.49/9.7 ft.= $24.07/ft ; Auxiliary framing, support rods, junction details, etc. estimated at $14.00 ft.							
40		Number Feet										
41		Circuit Capacity			Note;1							
42		Projected Actual Utilization										
43												
44	H.1.10	Physical Collocation - 4-Wire Cross Connec										
45		Trunk Distributing Frame										
46		Material Price		2	$3736.80 + 10% ($373.68) for cable rngs, designation boards, and other misc. hardware.							
47		Circuit Capacity										
48		Projected Actual Utilization										
49		Number Required										
50		Connecting Block										
51		Material Price		3								
52		Circuit Capacity										
53		Projected Actual Utilization										
54		Number Required										
55		Cable										
56		Material Price per foot		4								

6

	A	B	C	E	F	G	H	I	J	K	L	M
57		~~Number Feet~~										
58		~~Circuit Capacity~~										
59		~~Projected Actual Utilization~~										
60		Cable Rack										
61		Material Price per foot		5	Rack =							
62		Number Feet										
63		Circuit Capacity			Note 1							
64		Projected Actual Utilization										
65												
66	H.1.11	Physical Collocation - DS1 Cross Connects										
67		DSX-1 Panel Provided by another			Required for adjacent collocation							
68		~~Cable~~										
69		~~Material Price per foot~~		6								
70		~~Number Feet~~										
71		~~Additional Feet if Repeater~~										
72		~~Circuit Capacity~~										
73		~~Projected Actual Utilization~~										
74		~~Percent Repeater Required~~										
75		Cable Rack										
76		Material Price per foot		5	Rack =							
77		Number Feet										
78		~~Additional Feet if Repeater~~										
79		Circuit Capacity			Note 2							
80		Projected Actual Utilization										
81		~~Percent Repeater Required~~										
82		~~Repeater Bay~~										
83		~~Material Price~~										
84		~~Circuit Capacity~~										
85		~~Projected Actual Utilization~~										
86		~~Percent Required~~										
87		~~Repeater Shelf~~										
88		~~Material Price~~										
89		~~Circuit Capacity~~										
90		~~Projected Actual Utilization~~										
91		~~Percent Required~~										
92		~~Repeater~~										
93		~~Material Price~~										
94		~~Circuit Capacity~~										
95		~~Projected Actual Utilization~~										
96		~~Percent Required~~										
97												
98	H.1.12	Physical Collocation - DS3 Cross Connects										
99		DSX-3 Panel Provided by another			Required for adjacent collocation							
100		~~Cable~~										
101		~~Material Price per foot~~		~~7 and 8~~	~~Note 3~~							
102		~~Connector Material Price per cable~~		~~9 and 10~~								
103		~~Number Feet~~										
104		~~Additional Feet if Repeater~~										
105		~~Number Cables per Circuit~~										
106		~~Circuit Capacity~~										
107		~~Projected Actual Utilization~~										
108		~~Percent Repeater Required~~										
109		Cable Rack										
110		Material Price per foot		5	Rack =							
111		Number Feet										
112		~~Additional Feet if Repeater~~										
113		Circuit Capacity			Note 4							
114		Projected Actual Utilization										
115		~~Percent Repeater Required~~										
116		~~Repeater Bay~~										
117		~~Material Price~~										
118		~~Circuit Capacity~~										
119		~~Projected Actual Utilization~~										
120		~~Percent Required~~										
121												

J

	A	B	C	E	F	G	H	I	J	K	L	M
182												
183		Note 1: Assume 26Ga 100 Pr 806A cable OD=0.58"										
184		2' 6" Cable rack with max. 10"pileup										
185		Capacity = 30/ 58 x 10/0 58 = 54 x 18 = 972 cables										
186		2wire Circuits = 972 x 100 = 97,200										
187		4wire circuits = 972 x 100/2 = 48600										
188												
189		Note 2: Assume 22Ga 616C 28 pair Cable OD = 0 64"										
190		2' 6" Cable rack with max. 10"pileup										
191		Capacity = 30/ 64 x 10/.64 = 47 x 15 = 752 cables										
192		DS1 Circuits = 752 x 14 = 10,528										
193												
194		Note 3. DS3 cable pricing. BST standards: use 735A up to 250'. Beyond 250' use 734D. Assume an even distribution of cable lengths from 100' to 455'. 10% beyond 455' require repeaters 90% less than 455'.										
195		Cables between 100 and 250 = 150/355 =42 3%. Cables between 250 and 455' = 205/355 = 57.7%										
196		735A cable utilization = 423 x 90% = 38%										
197		734D cable utilization = 100% - 38% = 62%										
198		734D = $ 550/ft 735A = $ 388/ft										
199		$/ft=(.550)x(62)+(.388)(38)= $ 488/ft										
200												
201		Note 4: from note 3, 38% of DS3 cable is 735A, 62% is 734D										
202		735A OD = .122" , 734D OD = 0 236"										
203		735A cross section = .122 x .122 = 0149 sq. in.										
204		734D cross section = 236 x 236 = .0557 sq. in.										
205		Cabl rack cross section = 30" x 10" = 300 sq in										
206		Let X = total cables; 300 = (62)(X)(0557) + (38)(X)(.0149)										
207		034534X + .005662X = 300										
208		040196X = 300										
209		X = 7463										
210		Capacity = 7463/2 = 3732										
211		735A cables = .38 (7463) = 2836										
212		734D cables = .62(7463) = 4627										
213		Assume this same mix for adjacent collocation										
214												
215												
216		~~Note 5: DSO POT Consists of following~~										
217		~~Qty - 1 universal 7' rack @ ;~~										
218		~~Qty - 14 angle mtg bars @~~										
219		~~Total POT Bay =~~										
220												
221		~~Conn. Blk Mat'l per 25- 2-wire ckts;~~										
222		~~Qty - 1 89B mtg blds @ $~~										
223		~~Qty- 1- 66M1 Conn blk @ ;~~										
224		~~Qty 50 C bridging clips @ ;~~										
225		~~Total DSO Conn Blk cost =~~										
226		~~Note 5 prices quoted from.~~										
227												
228		~~Note 6 DS1 and DS3 POT~~										
229		~~Qty- 1ED-8C501-50-G1-7R Netwk Bay Frame @~~										
230		~~Qty- 1 ED-6C157-31-G6 Interconnect Hardware @~~										
231		~~Total Bay cost~~										
232												
233		Note 7- 5" cable rack - length 9' & 5"										
234		Qty of 1 ED4C685-72 G1 @ $'										
235		Qty of 1 ED4C685-72 G10 @										
236		Total =										
237												

Price Details

Lucent Product ID: ED6C736-30 G-6
Contract No:
Item 1 of 1
Description:
DOUBLE SIDED CONV DISTRIBUTING FRA*
Price Effective Date: 02/14/2000

Price Type	Unit Price	Price Multiple / Unit of Measure	Qty Break
Net Price (D)		EA	N/A

Delivery Interval: N/A	**Stocked:** No	**Min Order Quantity:** N/A
Order Multiple Qty: N/A	**Source:** Omaha, NE	**Qty/Unit of Measure:** N/A
Merchandise Class: 32221	**Prod Weight:** N/A	**Ship Code:** Shop Mounted

Notes:

Add to my saved product list: Please Select

View product list: Please Select

Create new product list:

Help on this activity Return to price query

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COLLOCATION KEY & CARD COSTS

Item		
I. Material costs - Key:		
Material Cost		[redacted]
tage Cost		
best (contractor) mark-up ordering charge - future projected cost, based on contract terms*		
Total		
II. Material costs - Card:		
Material Cost per New Security Access Card		
Postage Cost per New Security Access Card		
Total		
III. Access Device - Card and key issued per person		
Key Material Cost		
Key Postage Cost		
Key - Best (contractor) mark-up ordering charge - future projected cost, based on contract terms*		
Material Cost per New Security Access Card		
Postage Cost per New Security Access Card		
The following costs are common to cards and keys:		
Contractor costs:		
Annual contract Labor cost (3.5 people) (**year 2000**)		[redacted]
1-Siemens and 2.5 Strategic employees (Includes some overtime)		
Annual contract Labor cost (5.0 people) **(year 2001)**		
1-Siemens and 4 Strategic employees		
Annual Productive Contract Labor Hours per Person = 1960		
BST Headcount:		**Headcount**
JG58 (CURRENT)	[redacted]	**0.5**
JG56 (PROPOSED)		**1.0**

***When keys ordered exceed 22,860 annually, this mark-up applies.**

	A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q
134	FL	H 1.13	Physical Collocation - 2-Wire POT Bay													
135			POT Bay													
136			Material Price						Note 5							
137			Circuit Capacity													
138			Projected Actual Utilization													
139			Termination Block w/Bridging Clips													
140			Material Price						Note 5							
141			Circuit Capacity													
142			Projected Actual Utilization													
143																
144	FL	H 1.14	Physical Collocation - 4-Wire POT Bay													
145			POT Bay													
146			Material Price						Note 5							
147			Circuit Capacity													
148			Projected Actual Utilization													
149			Termination Block wBridging Clips													
150			Material Price						Note 5							
151			Circuit Capacity													
152			Projected Actual Utilization													
153																
154	FL	H.1.15	Physical Collocation - DS1 POT Bay						Note 6							
155			POT Bay													
156			Material Price					11 and 12								
157			Circuit Capacity													
158			Projected Actual Utilization													
159			POT Bay Shelf													
160			Material Price					3								
161			Circuit Capacity													
162			Projected Actual Utilization													
163			POT Bay Module													
164			Material Price					14								
165			Circuit Capacity													
166			Projected Actual Utilization													
167																
168	FL	H.1.16	Physical Collocation - DS3 POT Bay						Note 6							
169			POT Bay													
170			Material Price					11 and 12								
171			Circuit Capacity													
172			Projected Actual Utilization													
173			POT Bay Shelf													
174			Material Price					15								
175			Circuit Capacity													
176			Projected Actual Utilization													
177			POT Bay Module													
178			Material Price					18								
179			Circuit Capacity													
180			Projected Actual Utilization													
181																
182																

Matl	Source	Cost	
Physical Collocation - 2 Fiber (Singlemode) Cross Connects			
LGX Bay			
Bay Frwk	Network Planning & Suppo		
Retainers JR4C9	Network Planning & Suppo		
Lightguide Kit (2)	Network Planning & Suppo		
Total Material Price	Network Planning & Suppo		
Circuit Capacity	Network Planning & Suppo		
Projected Actual Utilization	Network Planning & Suppo		
LGX Shelf			3X shelves will be fully eqp'd for 72 fiber terminations when initially installed
Shelf	Network Planning & Suppo		
Coupler Panel (12)	Network Planning & Suppo		
SC Coupling (72)	Network Planning & Suppo		
Total Material Price	Network Planning & Suppo		
Circuit Capacity	Network Planning & Suppo		
Projected Actual Utilization	Network Planning & Suppo		
Fiber Cable (2 fiber bldg cable)			
Material Price per foot ($33 38/100)	Network Planning & Suppo		
Number Feet	Network Planning & Suppo		Note 4 Note - add total 15ft for drop ends - 345ft
Projected Actual Utilization	Network Planning & Suppo		
SC Plug Price (11.80 ea.) 4 per 2-fiber cable	Network Planning & Suppo		Note 5
Sub total cable & SC plugs			
Factory assembly charge (estimated)			
Total plug eqp'd 2 fiber cable			
Cable Rack 5" ED4C685 -72			Note 1
Material Price per foot	Network Planning & Suppo		
Number Feet	Network Planning & Suppo		Note 4
2 fiber Circuit Capacity	Network Planning & Suppo		Note 2
Projected Actual Utilization	Network Planning & Suppo		
Fiber Cable (4 fiber bldg cable)			
Material Price per foot ($55 96/100)	Network Planning & Suppo		
Number Feet	Network Planning & Suppo		Note 4 Note - add total 15ft for drop ends - 345ft
Projected Actual Utilization	Network Planning & Suppo		
SC Plug Price (11.80 ea.) 8 per 4-fiber cable	Network Planning & Suppo		Note 5
Sub total cable & SC plugs			
Factory assembly charge (estimated)			
Total plug eqp'd 4 fiber cable			
Cable Rack 5" ED4C685 -72			Note 1
Material Price per foot	Network Planning & Support		
Number Feet	Network Planning & Support		Note 4
4 fiber Circuit Capacity	Network Planning & Support		Note 2
Projected Actual Utilization	Network Planning & Support		
Physical Collocation - Fiber POT Bay			
POT Bay			
Material Price	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization			
POT Bay Shelf s/w locks			
Shelf (12 ckt, 24 fiber cpacity)	Network Planning & Support		POT bay shelves will be eqp'd with coupler panels and couplers as req'd based upon service req
Coupler Panel (1 per 6 fibers, 4 max)	Network Planning & Support		One coupler panel is required to terminate a 6 fiber cable
SC Coupling (1 per fiber, 24 max)	Network Planning & Support		Six couplers are required per 6 fiber cable
Projected Actual Utilization			
Excess fiber cable storage shelf	Network Planning & Support		assume 1 per 24 2-fiber ckts, occupies one of max. 12 POT shelf positions in POT bay
Direct Interconnection Cable Support			
(data provided for computation of cable support cost/linear foot; billing should be based upon installed cable circuit capacity not circuits placed in service)			
DS0			
Cable Rack			
Material Price per foot	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization		use DS	
DS1			
Cable Rack			
Material Price per foot	Network Planning & Support		

Circuit Capacity	Network Planning & Support	10528	
Projected Actual Utilization		use DS1 xconn	
DS3			
Cable Rack			
Material Price per foot	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization			
FIBER Cable Rack (5 inch)			
Material Price per foot	Network Planning & Support		
Circuit Capacity	Network Planning & Support		› reflect 2 fiber bldg cable capacity
Projected Actual Utilization			
FIBER Duct			Note 3
Material Price per foot	Network Planning & Support		
Circuit Capacity	Network Planning & Support		
Projected Actual Utilization			

Note 1: 5 " Cable rack material cost
ED4C585-72 G-1 $99.60 (rack)
G-10 $80.60 (horns)
G-66 $8.88 (support detail)
G-106 $17.19 (threaded rod)
$206.27/9.71' = $21.24/ft

Note 2:
For 2 fiber LGBC OD = .13"
Assume cable pileup to max of 5"
Max cables = 5/.18 X 5/.18 = 771
2 Fiber circuit cap = 771 X 1 = 771

For 4 fiber LGBC OD = .185"
Assume cable pileup to max of 5"
Max cables = 5/.185 X 5/.185 = 730
4 Fiber circuit cap = 730 X 1 = 730

Note 3: Fiber Duct Components/60ft run
10 - 4x4 Straight Duct 6'
2 - 4x4 Elbow
10 - 4x4 Splice
5 - Support Details
5 - threaded rod
Total per 60ft = '
Matl Cost per Fc
Fiber Patchcord Capacity from ADC ca
Assumes 3mm patchcords, 2/ckt

Note 4: **Cable length changed to 300 ft.**
plus 15ft for avg (7 5 ft drop on both ends)

Note 5: Each fiber within a cable must be eqp'd with an SC plug on each end of the fiber. Assume a 24 fiber cable will be eqp'd with 48 connectors, a 6 fiber cable will be eqp'd with 12 connectors, etc..

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6' x 24' CONTROLLED ENVIRONMENT VAULT

ITEM	DESCRIPTION	QTY	UNIT PRICE	EQPT TOTAL	TOTAL INST. MATERIAL	TOTAL INST. LABOR
	DISCHS HDT EQUIPMENT					
1A	HDT IFITL Bay e/w 7 OCS RDSC Code RM6506007	7				
	-48VS Fuse & Alarm Panel (J-C2001L12)	2				
	Alcoa Fujikura Octal Jumpers					
	Bays 1-4, 31 Feet, SC/SC	4				
	Bays 5-7, 22 Feet, SC/SC	3				
	Data Cable Set (1 per IFITL Bay)	7				
	7 DISCHS HDT BAYS TOTAL					
1B	HDT IFITL Bay e/w 7 OCS RDSC Code RM6506007	8				
	-48VS Fuse & Alarm Panel (J-C2001L12)	3				
	Alcoa Fujikura Octal Jumpers					
	Bays 1-4, 31 Feet, SC/SC	4				
	Bays 5-8, 22 Feet, SC/SC	4				
	Data Cable Set (1 per IFITL Bay)	8				
	8 DISCHS HDT BAYS TOTAL					
1C	HDT IFITL Bay e/w 7 OCS RDSC Code RM6506007	9				
	-48VS Fuse & Alarm Panel (J-C2001L12)	3				
	Alcoa Fujikura Octal Jumpers					
	Bays 1-4, 31 Feet, SC/SC	4				
	Bays 5-9, 22 Feet, SC/SC	5				
	Data Cable Set (1 per IFITL Bay)	9				
	9 DISCHS HDT BAYS TOTAL					

6' x 24' CONTROLLED ENVIRONMENT VAULT

ITEM	DESCRIPTION	QTY	UNIT PRICE	EQPT TOTAL	TOTAL INST. MATERIAL	TOTAL INST. LABOR
	POWER TRANSFER SWITCH					
2	200 Amp JuiceBox RJBD200MXRBS	1				
	JuiceBox Template (F003488)	1				
	BASIC STRUCTURE					
3A	Oldcastle 6' X 24' CEV	1				
3B	Capital Concrete 6' x 24' CEV	1				
	DISTRIBUTING FRAME					
4	800 Frame	5				
	100 Pr. Cross Connect Block	27				
	DS-1 CROSS CONNECT					
5	DIXI-84 DS-1 DSX Panels	2				
6	800 Frame	2				
	56 Pr. Cross Connect Block	8				
	MULTIPLEXER					
7A	FLM-150 Multiplexer System	2				
7B	DDM-2000 Multiplexer System	2				
	LGX / FIBER MGMT.					
8	Feeder 24F LGX (108319849)	1				
9	Dist. 144F LGX (108349390)	5				
10	CEV Fiber Management System	1			N/A	N/A

6' x 24' CONTROLLED ENVIRONMENT VAULT

ITEM	DESCRIPTION	QTY	UNIT PRICE	EQPT TOTAL	TOTAL INST. MATERIAL	TOTAL INST. LABOR
	REPEATER					
11	Wescom STS 3192 System	1				
	POWER EQUIPMENT					
12	Power Plant	1				
13	Battery Stands (PM0125-4CB)	2				
	Batteries FIAMM (FL0125BE 125 AH)	16				
	MISC. EQUIPMENT					
14	Iron Work & Cable Rack	1				
	Ground System	1				
	Fiber Ducting System	1				
	Pwr. Harness for PC Data & Video	1				
	MISC. FUSE PANEL					
15	Misc. Fuse Panel	2				
	MISC. EQUIPMENT RACK					
16	Misc. Equipment Rack	5				
	ALARM CROSS CONNECT SYSTEM					
17	Alarm Cross Connect Panel	2				
	PROTECTION					
18	Protection Frame Assembly	1				
	307C2-100 Protection Block	14				

Entire page

Entire page

1A

Ordering Guide
June, 1999

MESA 6 Models

CUSTOMER: BELLSOUTH TELECOMMUNICATIONS, INC.

BASE MODEL CODE: XRM6200

CONFIGURATION: MESA 6 Remote Terminal Cabinet Equipped with Three (3) DISC★S Common Shelves, One (1) DDM 2000 Mux Shelf, Zero (0) STS 3192 Repeater Shelves, (1) DIXI Panel, and wired for (21) Copper Channel Shelves.

ITEM	BASE MODEL HARDWARE	PRODUCT CODE	QTY
1.0	**MESA Cabinet Assy consist of:**	**JC0402L1**	**1**
1.1	MESA Cabinet	F003196	1
1.2	Fuse & Alarm Panel	4100892L3	3
1.3	Common Shelf	4100891L2	3
1.4	Modular Power Shelf	72-07-954	1
1.5	DC Distribution Panel	73-16-598	1
1.6	Marconi 325 Protector Block (2300pr)		1
1.7	Alarm Cross Connect Panel	45-508-49	1
1.8	Battery Termination Panel	73-16-599	1
2.0	**DDM-2000 Wired for 84 DS1s**	**JC0402L19**	**1**
2.1	DDM-2000 MUX Shelf Kit: CABDDMKIT PID: 665950820		1
2.2	DDM-2000 2C Fan Unit		1
3.0	**DIXI Panel KIT: CABDIXIPANEL**	**JC0402L12C**	**1**
3.1	DIXI Panel PID: 410970149		1
4.0	**900 Type DSX**	**JC0402L61** , L60	**1**
	KIT: CAB900DSXM6KIT PID: 409970142		1
4.1	900 Type DSX		1
5.0	**Thermal Runaway Unit**	**JC0402L35**	**1**
5.1	Thermal Runaway Unit		1
6.0	**Ringing Generator Shelf**	**JC0402L18**	**1**
6.1	SFT7 Ring Generator Shelf		
7.0	**MESA 6 Documentation consists of:**		
7.1	MESA 6 Description & Install. Practice	640-250-612C	1
8.0	**6V-160AH Batteries**	**JC0402L32**	**2/3**

ITEM	BASE MODEL PLUG-INS	PRODUCT CODE	QTY
9.0	**Power and Ringing Plug-Ins**		
9.1	Modular Rectifiers	41-308-39	2
9.2	Ringing Generator Modules	487110900	2
10.0	**LIU Test Connector**	**41-008-39**	**2**
11.0	**Adapter Null Modem**	**41-008-46**	**1**

Post-It™ brand fax transmittal memo 7671 # of pages ▸ 6

To Wendy Elston | From Grau
Co. | Co.
Dept. | Ph
Fax # 404-529-8469 | Fax

Marconi Communications

Contains

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RDSC Code		MESA 6 REMOTE TERMINAL CABINET EQUIPPED WITH THREE (3) DISC★S COMMON SHELVES; ONE (1) DDM 2000 MUX SHELF; (0) STS 3192 REPEATER SHELVES, (1) DIXI PANEL, AND WIRED FOR (21) COPPER CHANNEL SHELVES.					Marconi Total Price	BellSouth Total Price
Base Model	Sub-Model							
XPID Number		Qty.	Product Description	Product Code	Item Designator	PID NO.	Sub -Price	
XRM6200D	0000	1	Base Model Hardware	•				
X0005378		0	RDT (Copper) RT Channel Shelf	JCO402L15				
		0	HDT (FITL) RT Channel Shelf	JCO402L14				
		2	(8) 6V-160AH Batteries	JCO402L32	RM62000000H	759970510		
		1	Base Model Plug-Ins	•				
		2	Modular Rectifier	41-308-39				
		0	Ringing Generator Module SFT 7	487110900				
		1	Adapter Null Modem	41-008-46				
		2	LIU Test Connector	41-008-39	RM62000000P	739970507		
		1	Other Vendors Equipment	•	CAB900DSXM6KIT	409970142		
		1		•	CABDIXIPANEL	410970149		
		1		•	CABDDMKIT	665950820		
		•	**BellSouth Total**	•				
XRM6200D	0300	1	Base Model Hardware	•				
X0005177		3	RDT (Copper) RT Channel Shelf	JCO402L15				
		0	HDT (FITL) RT Channel Shelf	JCO402L14				
		2	(8) 6V-160AH Batteries	JCO402L32	RM62000300H	369943618		
		1	Base Model Plug-Ins	•				
		2	Modular Rectifier	41-308-39				
		2	Ringing Generator Module SFT 7	487110900				
		1	Adapter Null Modem	41-008-46				
		2	LIU Test Connector	41-008-39	RM62000300P	411943624		
		1	Other Vendors Equipment	•	CAB900DSXM6KIT	409970142		
		1			CABDIXIPANEL	410970149		
		1			CABDDMKIT	665950820		
		•	**BellSouth Total**	•				

H.1.6

Yr	ST	GLC	Location	Sq. Ft.	Cost	City Cost Index	National Cost	Comments
			ALABAMA					
99	AL	11616	Cahaba Heights - CO Addition	10300	$1,780,000	0.871	$2,043,628	
00	AL	11734	Hanceville - CO Addition	2000	$370,000	0.871	$424,799	
99	AL	11831	Huntsville Madison - CO Addition	3800	$730,000	0.827	$882,709	
00	AL	11813	Huntsville University CO Addition	6000	$1,300,000	0.827	$1,571,947	
99	AL	12340	Mobile Bay Front - CO Addition	1136	$445,000	0 834	$533,573	
			TOTAL:	23236	$4.625.000		$5,456,656	
			National Avg Cost/sq.ft.:	$234.84				
			Alabama Avg. Cost Index:	0.8252				
			Investment/sq.ft.:	$193.79				
			AVG. COST /SQ. FT.:	$199.04				
			Florida					
99	FL	31538	Chipley - CO Addition	2800	$561,000	0.796	$704,774	
00	FL	32273	Gainesville NW - CO 2nd Floor Add.	4000	$1,600,000	0.841	$1,902,497	
00	FL	M6506	Golden Glades CO Addition	10500	$5,100,000	0.866	$5,889,145	
00	FL	31241	Jacksonville Beachwood - CO Addn	1792	$1,400,000	0.841	$1,664,685	
00	FL	39280	Lake Mary CO Addition	3100	$1,725,000	0.861	$2,003,484	
00	FL	31040	Mandann - CO Addition	6148	$1,450,000	0.841	$1,724,138	
00	FL	31848	Oviedo - CO Addition	2560	$1,255,000	0 861	$1,457,607	
00	FL	E8660	Port St. Lucie CO Addition	3200	$2,175,000	0.883	$2,463,194	
99	FL	E8838	Royal Palms - CO Addition	5308	$136,000	0 869	$156,502	
99	FL	E8636	Vero Beach - CO Addition	3158	$1,350,000	0.883	$1,528,879	
00	FL	E8519	WPBH Gardens - CO 2nd Floor Add	20754	$8,601,000	0 869	$9,897,583	
			TOTAL:	63320	$25.353,000		$29,392,489	
			National Avg Cost/sq.ft.:	$464.19				
			Florida Avg. Cost Index:	0.8413				
			Investment/sq.ft.:	$390.52				
			AVG. COST /SQ. FT.:	$400.39				
			Georgia					
00	GA	F5602	Buford, 2000	5966	$1,728,000	0.884	$1,954,751	Bids in, ready to start const.
00	GA	R3930	Villa Rica,2000	4075	$2.125,000	0 884	$2,403,846	Under construction
00	GA	F1440	Fayetteville - CO Addition, 2000	9600	$3,781,000	0.884	$4,277,149	Under construction
00	GA	F1437	Peachtree City CO Addition, 2000	9600	$2,024,000	0.884	$2,289,593	Bids in, ready to start const.
00	GA	F1356	Powder Springs - CO Addition, 2000	4275	$1,310,000	0 884	$1,481,900	Bids in, ready to start const.
99	GA	F5352	Powers Ferry, 1999&2000	26970	$5,350,000	0.884	$6,052,036	Under construction
99	GA	R3907	Tallapoosa - CO Addition, 1999	987	$288,000	0 884	$325,792	Completed, Actual Costs
99	GA	R2164	Gay - CO Addition, 1999	567	$195,000	0.884	$220,588	Completed, Actual Costs
98	GA		Norcross CO, 1998	17880	$1,955,485	0.884	$2,212,087	Completed, Actual Costs
98	GA		Woodstock CO, 1998	6400	$1,897,000	0.884	$2,145,928	Completed, Actual Costs
98	GA		Dunwoody CO, 1998	16390	$3,003,520	0.884	$3,397,647	Completed, Actual Costs
			TOTAL	102710	$23,657,005		$26,761,318	
			National Avg Cost/sq.ft.:	$260.55		Including Planning data		
			Georgia Avg. Cost Index:	0.813		Including Planning data		
			Investment/sq.ft.:	$211.83				
			AVG. COST /SQ. FT.:	$230.33				
			Kentucky					
99	KY	52470	Garden Village - CO Addition	448	$166,000	0.854	$194,379	
99	KY	52724	S Williamson - CO Addition	384	$181,000	0.854	$211,944	
				832	$347,000		$406,323	
			National Avg Cost/sq.ft.:	$488.37				
			Kentucky Avg. Cost Index:	0.8895				
			Investment/sq.ft.:	$434.40				
			AVG. COST /SQ FT.:	$417.07				
			Louisianna					
		K3266	Denham Springs CO - Addition & HVAC	1600	$340,000	0.828	$410,628	
		K4567	Shreveport College - Addition & HVAC	3200	$990,000	0.805	$1,229,814	
				4800	$1.330,000		$1,640,442	
			National Avg Cost/sq.ft.:	$341.76				
			Louisianna Avg. Cost Index:	0.8176				
			Investment/sq.ft.:	$279.42				
			AVG. COST /SQ. FT.:	$277.08				
			Mississippi					
00	MS	72126	Brandon CO Add (Jackson Rankin)	2500	$680,000	0.79	$860,759	
00	MS	75171	Iuka C O - Building Addition	1600	$560,000	0.768	$729,167	
				4100	$1,240,000		$1,589,926	
			National Avg Cost/sq.ft.:	$387.79				
			Mississippi Avg. Cost Index:	0.79				
			Investment/sq.ft.:	$306.35				
			AVG. COST /SQ. FT.:	$302.44				

STATE	AVG COST PER SQUARE FOOT	WEIGHTING	ADJUSTED AVG COST
Alabama	$110	0.094	$10.34
Florida	$198	0.306	$60.57
Georgia	$69	0.133	$9.18
Kentucky	$33	0.032	$1.05
Louisiana	$105	0.092	$9.62
Mississippi	$11	0.024	$0.26
North Carolina	$116	0.133	$15.42
South Carolina	$136	0.067	$9.15
Tennessee	$46	0.119	$5.51
	$92		**$121.11**

Note: Weighting based on number of firm orders received between April and November 1999.

UNIT COSTS:

cage cost set fee	$7,071
barrier wall 1hr cost/ft	$100
barrier wall wire cost/ft	$60
card reader	$14,237
card reader - pad only	$2,640

Data Points =	123
FOs 4/1-8/31/99	594
Percentage =	21%

Note: Many data points represent more than one collocator/firm order, thus percentage above is low.

FL Collocation Flat Fee

PROJECT ID	PROJECT ID & WBS #	# OF CAGES	# OF RACKS	LINEAR FT. BARRIER WALL	COLLOCATION SQ FT	COMMON AREA (SQ FT)	CARD READER	TOTAL COST DESIGN	TOTAL COST CONSTR	ASBESTOS COSTS	TOTAL COST	ADJUSTED TOTAL COST (LESS FIXED RATES)	ADJUSTED COST PER SQUARE FOOT
JCBHFLMA.DLT.01	734808-81291	2	1	21.5	308	887	1	$27,294	$74,565	$1,360	$103,219	$73,550	$82.92
JCVLFLCL.ATX.02	734808-80141	1	0	0	400	520	0	$17,751	$34,209	$0	$51,960	$44,889	$86.33
JCVLFLCL.FDW.03	732822-25751	1	0	0	200	260	0	$20,181	$30,105	$0	$50,286	$43,215	$166.21
ORLDFLCL.FDW.03	734808-80811	1	0	98	200	260	1	$33,571	$31,016	$0	$64,587	$37,399	$143.84
ORLDFLCL.ICF.01	732822-22941	1	0	96	300	399	1	$32,759	$51,734	$0	$84,493	$57,425	$143.92
ORLDFLCL.LVC.01	732822-25741	1	0	263	400	2475	1	$44,572	$124,270	$1,183	$170,025	$132,937	$53.71
ORLDFLMA.FDW.05	732822-25921	1	0	0	200	260	0	$27,431	$54,736	$0	$82,167	$75,096	$288.83
PNVDFLMA.DLT.01	734808-81571	0	1	0	8	225	0	$15,949	$36,463	$0	$52,412	$52,412	$232.94
MIAMFLWM.NVE.02	734808-80101	1		0	100	305	0	$20,389	$40,761	$0	$61,150	$54,079	$177.31
MIAMFLBA.NVE.03	734808-82031	4		0	100	310	0	$18,074	$75,432	$0	$93,506	$65,222	$210.39
MIAMFLBA.FIM.01	734808-80931	1		0	100	300	0	$37,393	$68,407	$0	$105,800	$98,729	$329.10

FL Collocation Flat Fee

PROJECT ID	PROJECT ID & WBS #	# OF CAGES	# OF RACKS	LINEAR FT. BARRIER WALL	COLLOCATION SQ FT	COMMON AREA (SQ FT)	CARD READER	TOTAL COST DESIGN	TOTAL COST CONSTR	ASBESTOS COSTS	TOTAL COST	ADJUSTED TOTAL COST (LESS FIXED RATES)	ADJUSTED COST PER SQUARE FOOT
MIAMFLSO.NVE.01	734808-82051	1			115	130	0	$11,881	$25,310	$2,047	$39,238	$32,167	$247.44
MIAMFLSO.FIM.01	734808-81041	4		0	100	130	0	$27,504	$53,943	$0	$81,447	$53,163	$408.95
MIAMFLBR.NVE.01	734808-80181	2		0	400	520	0	$18,062	$94,171	$0	$112,233	$98,091	$188.64
PRRNFLMA.AKJ.07	734808-81741	1		0	100	690	0	$14,452	$135,674	$0	$150,126	$143,055	$207.33
MIAMFLFL.AKJ.02	734808-82201	1		0	100	130	0	$13,459	$14,480	$1,738	$29,677	$22,606	$173.89
MIAMFLBA.AKJ.04	734808-86081	1		0	100	130	0	$17,144	$15,585	$0	$32,729	$25,658	$197.37
MIAMFLAP.OVC.03	734808-81501	1			100	130	0	$13,323	$21,409	$2,076	$36,808	$29,737	$228.75
MIAMFLAP.AKJ.02	734808-81581	1			100	130	0	$11,550	$21,230	$0	$32,780	$25,709	$197.76
MIAMFLAP.ATX.01	734808-80281	1			400	1200	0	$31,177	$121,019	$0	$152,196	$145,125	$120.94
MIAMFLWD.AKJ.02	734808-81651	1			100	130	1	$17,015	$29,624	$0	$46,639	$25,331	$194.85
PRRNFLMA.NVE.03	734808-82021	1			100	130	0	$10,668	$25,154	$0	$35,822	$28,751	$221.16

FL Collocation Flat Fee

PROJECT ID	PROJECT ID & WBS #	# OF CAGES	# OF RACKS	LINEAR FT: BARRIER WALL	COLLOCATION SQ FT	COMMON AREA (SQ FT)	CARD READER	TOTAL COST DESIGN	TOTAL COST CONSTR	ASBESTOS COSTS	TOTAL COST	ADJUSTED TOTAL COST (LESS FIXED RATES)	ADJUSTED COST PER SQUARE FOOT
PRRNFLMA.ATX.01	734808-83271	1			400	520	0	$19,470	$86,020	$0	$105,490	$98,419	$189.27
MIAMFLBR.FIM.01	734808-80921	1			100	1680	1	$36,405	$142,162	$1,042	$179,609	$158,301	$94.23
MIAMFLBC.AKJ.02	734808-81731	1			100	1809	0	$22,725	$195,235	$0	$217,960	$210,889	$116.58
MIAMFLSO.AKJ.05	734808-81841	1			100	130	0	$12,906	$22,402	$0	$35,308	$28,237	$217.21
MIAMFLWM.FIM.03	734808-80631	1			100	305	0	$19,092	$20,712	$0	$39,804	$32,733	$107.32
MIAMFLWM.ACI.04	734808-81961	1			100	305	0	$19,344	$21,217	$0	$40,561	$33,490	$109.80
MIAMFLFL.FIM.02	734808-81641	1			100	130	0	$9,318	$14,083	$0	$23,401	$16,330	$125.62
FTLDFLJA.FIM.06	734808-82081	1		5.5	100	1,640		$14,264	$78,951	$0	$93,215	$85,814	$52.33
PMBHFLCS.OVC.03	732822-25111				100	130		$24,558	$38,614	$3,452	$66,624	$66,624	$512.49
PMBHFLFE.AKJ.03	734808-82221	1			100	130		$12,528	$42,730	$1,208	$56,466	$49,395	$379.96
PMBHFLMA.ATX.02	734808 81011	1			400	1,668		$32,359	$140,133	$0	$172,492	$165,421	$99.17

FL Collocation Flat Fee

PROJECT ID	PROJECT ID & WBS #	# OF CAGES	# OF RACKS	LINEAR FT. BARRIER WALL	COLLOCATION SQ FT.	COMMON AREA (SQ FT)	CARD READER	TOTAL COST DESIGN	TOTAL COST CONSTR	ASBESTOS COSTS	TOTAL COST	ADJUSTED TOTAL COST (LESS FIXED RATES)	ADJUSTED COST PER SQUARE FOOT
HLWDFLPE.ATX.01	734808 83101	1			400	520		$19,607	$42,248	$0	$61,855	$54,784	$105.35
HLWDFLPE.AKJ.07	734808 86061	1			100	130		$18,685	$33,833	$0	$52,518	$45,447	$349.59
HLWDFLPE.OVC.04	732822-25101				100	130		$19,124	$27,412	$253	$46,789	$46,789	$359.91
											Average		**$198**

Collocation Space Preparation Standard ICB Rate Worksheet (Network Construction)
Issue 2 - 1/6/00

Driver Description	#	Vendor	First Unit Engrg Hrs	First Unit Labor Hrs	First Unit Minor Matl	First Unit Avg.	Subsequent Units Engrg Hrs	Subsequent Units Labor Hrs	Subsequent Units Minor Matl	Subsequent Units Avg.	Cageless Qty FU's	Cageless Qty SU's	Cageless Total $	Cageless $/Sq Ft.	Caged or Non-conventional Cageless Qty FU's	Caged or Non-conventional Cageless Qty SU's	Caged or Non-conventional Cageless Total $	Caged or Non-conventional Cageless $/Arrangement
Cable Rack - panned 15" (switchboard)	101	ADC	2	4			2	4										
		6R	3	3			0.75	1.75										
		Lucent	2.05	6			0.84	6										
			2.35	5.00			1.20	3.92			12	12			6	0		
Cable Rack - nonpanned 15" (power)	102	ADC	2	4			2	4										
		6R	3	3			0.75	1.75										
		Lucent	2.05	6			0.84	6										
			2.35	5.00			1.20	3.92			12	12			6	0		
Cross-aisle cable rack	104	ADC	2	3			2	3										
		6R	1.5	1			0.75	1										
		Lucent	1.6	4			0.84	3										
			1.70	2.67			1.20	2.33			12	8			0	0		
AC - main feed to bay	105	ADC																
		6R	3	4			0.75	3										
		Lucent	2	10			1	10										
			2.50	7.00			0.88	6.50			5	8			6	6		
Auxiliary Supports	107	ADC	1.41	4.4			1.41	4.4										
		6R	3	1.5			0.75	1										
		Lucent	1.5	6			0.33	6										
			1.97	3.97			0.83	3.80			4	12						
Stanchion	108	ADC	1	2			1	2										
		6R	3	1.5			0.75	1										
		Lucent	0.85	3			0.36	3										
			1.62	2.17			0.70	2.00			12	28	$		2	8		
Main Aisle Conduit	109	ADC	1	2.51			1	2.51										
		6R	3	3			0.75	2										
		Lucent	1.65	4			0.81	4										
			1.88	3.17			0.85	2.84			2	2			2	2		
Main Aisle Ground 2/0	110	ADC	2	4			2	4										
		6R	3	6			0.75	3.75										
		Lucent	1	4			0.75	4										
			2.00	4.67			1.17	3.92			1	0			1	0		
Light Fixture - double tube	114	ADC	1	2			1	2										
		6R	3	4			0.75	2										
		Lucent	1	9			0.5	6										
			1.67	5.00			0.75	3.33			6	12	$		0	0		
Cable hole establishment	115	ADC																
		6R	3	4			0.75	4										
		Lucent	5	2.51			2	2.51										
			4.00	3.26			1.38	3.26			2	0			2	0		
Fiber Duct (Use 50% of driver # 11)	11		0.83	1.71			0.36	1.17			12	50	$		6	6		

Cageless $/Sq. Ft.

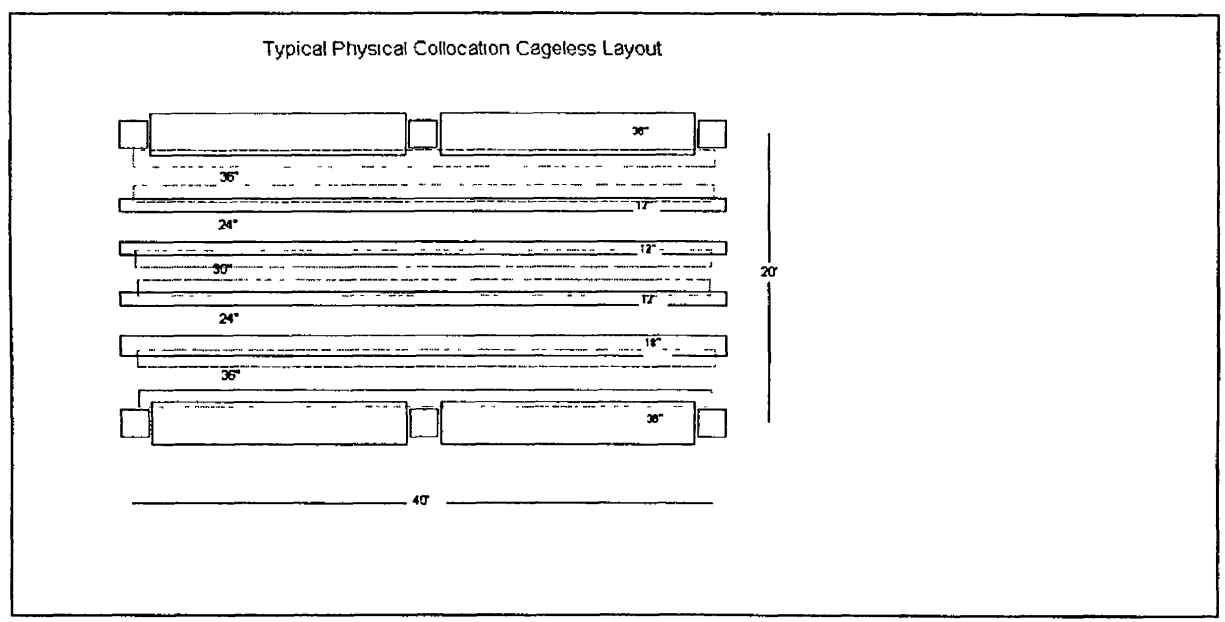
Caged or Nonconventional Cageless $/Arrangement

$4,454.55

Assumptions:
BellSouth expends infrastructure capital immediately to prepare space. BellSouth has no control over utilization of this investment. The investment benefits no other service other than Collocation. Therefore, recovery of infrastructure costs should begin immediately without regard to activation of service.
above. The cost calculations are based upon preliminary "driver" costs provided to Supply Chain Management by three Turf Vendors and a theoretical average arrangement of collocated equipment within this 800 sq. ft.. From these calculations the average EF&I cost/sq.ft. is determined. From the avg. EF&I

To accomplish this for caged or cageless non-conventional collocation the average EF&I space preparation cost to prepare 800 sq. ft. (2 building bays) of collocation space is calculated above. The cost calculations are based upon preliminary EF&I "driver" costs provided to Supply Chain Management by three Turf Vendors and a theoretical average of 8 - 100 sq. ft. arrangements within this 800 sq. ft. area. From these calculations the average EF&I cost/arrangement is determined. From the avg.EF&I cost/arrangement a cost study can determine a recurring rate to apply to every arrangement. All TelCo loadings must be applied to the EF&I cost.

The recurring charge for cross-connects should not be impacted by the standard rate space preparation charge. Cross connects will continue to require utilization of via or main aisle cable support to deliver the service from the collocated equipment to the demarcation point.
It must be emphasised that the above "driver" rates are very preliminary. These drivers are being established to address equipment space preparation. Such drivers do not currently exist, as space preparation for BellSouth equipment space has been recovered by Turf vendors through the MBOS model prices.



Region		
Total Power Plant Construction ($$$)	Total CLEC Dedicated Cable ($$$)	Total CLEC Requested DC Amps
$ 16,154,045	$ 506,867	$ 37,656

Power Construction $$$ / Amp		
Plant Only	Cable Only	Total
$ 429.00	$ 13.46	$ 442.46

÷ 1.5

286 fused

Used ≤ Rated Amps

P = I × E

WATTS = Amps × Volts

Recommended AC power pricing formulas for the recovery of commercial AC power expenses and standby power assets.
These formulas may be used to develop recurring charges when BST supplies AC equipment power to collocated equipment.

The following formulas can be used to compute the monthly cost of providing commercial and standby AC power to a collocated power plant. The costs are based on the electrical service (voltage and phases) and the rating (in Amps) of the electrical protection device used to provide AC power to the collocated power plant.

Commercial AC Formula ($/month/breaker amp)

for 120V, single phase (120/240)
0.07 $/kwh X 8760 h/yr X 0.0833333 yr/mo X 0.001 KW/W X 0.8 W/VA X 120 V/Phase X 1 Phases X 1 Amps X 0.8 (NEC Rule) = 3.92 $/month

for 240V, single phase (120/240)
0.07 $/kwh X 8760 h/yr X 0.0833333 yr/mo X 0.001 KW/W X 0.8 W/VA X 240 V/Phase X 1 Phases X 1 Amps X 0.8 (NEC Rule) = 7.85 $/month

for 120V, three phase (208Y/120)
0.07 $/kwh X 8760 h/yr X 0.0833333 yr/mo X 0.001 KW/W X 0.8 W/VA X 120 V/Phase X 3 Phases X 1 Amps X 0.8 (NEC Rule) = 11.77 $/month

for 277V, three phase (480Y/277 or 480 Delta)
0.07 $/kwh X 8760 h/yr X 0.0833333 yr/mo X 0.001 KW/W X 0.8 W/VA X 277 V/Phase X 3 Phases X 1 Amps X 0.8 (NEC Rule) = 27.18 $/month

Engine Alternator Investment required to provide standy power per AC breaker amp

for 120V, single phase (120/240)
800 $/KW X 0.001 KW/W X 0.8 W/VA X 120 V/Phase X 1 Phases X 0.8 (NEC Rule) = $61.44

for 240V, single phase (120/240)
800 $/KW X 0.001 KW/W X 0.8 W/VA X 240 V/Phase X 1 Phases X 0.8 (NEC Rule) = $122.88

for 120V, three phase (208Y/120)
800 $/KW X 0.001 KW/W X 0.8 W/VA X 120 V/Phase X 3 Phases X 0.8 (NEC Rule) = $184.32

for 277V, three phase (480Y/277 or 480 Delta)
800 $/KW X 0.001 KW/W X 0.8 W/VA X 277 V/Phase X 3 Phases X 0.8 (NEC Rule) = $425.47

The above formulas can be reduced to:

for 120V, single phase - monthly recurring billing =
($3.92 + monthly recurring charge to recover $61.44 standby engine asset) X AC breaker amperage rating

for 240V, single phase - monthly recurring billing =
($7.85 + monthly recurring charge to recover $122.88 standby engine asset) X AC breaker amperage rating

for 120V, three phase - monthly recurring billing =
($11.77 + monthly recurring charge to recover $184.32 standby engine asset) X AC breaker amperage rating

for 277V, three phase - monthly recurring billing =
($27.18 + monthly recurring charge to recover $425.47 standby engine asset) X AC breaker amperage rating

2/9/1999
Spreadsheet developed by Tom Weber, NP&PS, 205-321-8113.
The commercial AC formulas were developed by John Clements, P&SM.
The standby engine investment formlas were developed by Steve Martin, NP&PS.
(Note: the maximum utilization on a standby engine will be approximately 80%.
The regional average utilization of these assets is estimated at approximately 65%)

H.1.37

Average Card Reader Installation Costs:	
Average card reader installation includes 2 readers.	
ITEM	**COST**
Unit	
Modem & encryption software	
Avg. electrical job	
POTS line	
Total	
Parsons markup @1%	
Parsons distributables/loadings @ 13.5%	
*Host cost	
Grand Total	
Notes:	
* Host costs include hardware, software and communications costs.	
Host can support 2,000 - 3000 units.	
Host costs spread over 2000 units	
No taxes included.	

Woodson E. Elston /m6,mail6a 9/30/99 12:25

MESSAGE
Subject: Cost Accounting Information for Collocation
Sender: Rusty M. Foster /m3,mail3a

Dated: 9/30/99 at 10:56
Contents: 2

Item 1

TO: Woodson E. Elston /m6,mail6a
CC: Lynetta Baldwin /m6,mail6a; PHONE=205-321-4458
Jerry K. Higgins /m7,mail7a; PHONE=205-321-2673
Karen C. Hill /m2,mail2a; PHONE=615-646-7449
Beth Shiroishi /m4,mail4a; PHONE=404-927-1375

Item 2

Woody,

Listed below is the information you requested:

	Field Reporting Code	RTC	COST	
Card Access Hardware	530C(inside data cntr)	523		
	630C (outside data cntr)	523		New Syst.
Card Access Software	460C	613		New Syst.
Hardware Mntce	930M	481		?. Extg.

Submitted,

Rusty Foster 205-321-4793

Card Access Softw (206K) Facility

Application SW (2) Server
Multiple Site Facility Code Software
Workstations (15) (addl application)
Oracle DB RTU fee
Server Hot Redundant
Backward Compatibility 375 existing
VCSN competitive

FRC 460C -00: $ $ $ $ $ $ $ — $

$205,871 (206K)

(65,000) cards (65K MAX)

(60-70,000)

128,000

(1609)

375 & 400

① # cards ② server size

Strategis cards Keys 12-13

APOGEE

Matl	Source	Cost		
Virtual Collocation - 2 Fiber (Singlemode) Cross Connects				
LGX Bay				
Bay Frwk	Network Planning & Support			
Retainers JR4C9	Network Planning & Support			
Lightguide Kit (2)	Network Planning & Support	—		
Total Material Price	Network Planning & Support			
Circuit Capacity	Network Planning & Support			
Projected Actual Utilization	Network Planning & Support			
LGX Shelf				
Shelf	Network Planning & Support			
Coupler Panel (12)	Network Planning & Support			
SC Coupling (72)	Network Planning & Support	—		
Total Material Price	Network Planning & Support			
Circuit Capacity	Network Planning & Support			
Projected Actual Utilization	Network Planning & Support			
Fiber Duct (fiber jumper support)				Note 1
Material Price per foot	Network Planning & Support			
Number Feet	Network Planning & Support			
Circuit Capacity	Network Planning & Support		400	
Projected Actual Utilization	Network Planning & Support			

Note 1: Virtual collocation equip. is typically placed in BST lineups and will use BST fiber duct.
Fiber Duct Components/60ft run
10 - 4x4 Straight Duct 6'
2 - 4x4 Elbow
10 - 4x4 Splice
5 - Support Details
5 - threaded rod
Total per 60ft = $549.02
Matl Cost per Foot = $9.15
Fiber Patchcord Capacity from ADC catalog = 800
Assumes 3mm patchcords, 2/ckt

37

33

What costs are recovered in space construction?

The following unit cost specifications were compiled based on engineering estimates and actual costs. The engineer's estimates were extrapolated from actual projects to come up with a cost per square foot. The actual costs were taken from past projects and project costs to determine a new project baseline cost.

Space construction investment for the first 100 square foot enclosure includes (a) the material and labor cost of constructing a 100 square foot welded wire mesh enclosure, (b) architectural and engineering fees for project management, design and construction oversight, and (c) electrical and grounding work.

The standard is a 100 square foot enclosure and is assumed to be a 10' by 10' space with enclosure required on 3 sides for a total of 30 linear feet. Enclosure sizes are available at 100 s.f. minimum and then 50 s.f. increments.

These prices are based on constructing the entire collocation suite and all enclosures at the same time (at least 80% of the time). This method allows for cost savings due to bulk purchases, reduced contractor setup fee and reduced architectural/engineering fees. The enclosure construction can not be done at this rate if the enclosures are constructed as each firm orders is received.

These costs are considered to be the most likely costs. The actual cost will vary according to existing building conditions, location of building, and local material and labor rates.

The material and labor costs for constructing the 100 square foot enclosure are as follows:

Welded Wire Mesh Enclosure (3 sides considered)
Swinging Door (3' x 8') and lockset
Dust Protection
Electrical Work
Electrical Grounding
Signage
General Conditions
Contractor's Fee
Architectural/Engineering fee
Project Management fee

Total

Incremental cost for additional 50 s.f.
(See calculation below)

Space construction investment for an additional 50 square feet includes the material and labor cost of increasing the enclosure by additional 50 foot increments when constructed

at the same time as the first 100 square foot enclosure. Costs may include additional wire cage, doors, electrical and grounding work.

The incremental amount per 50 square feet (over the first 100 square feet) is weighted with the following probabilities to determine the cost per additional 50 square feet:

Square feet	Probability	Computation	Cost
150	5%		
200	55%		
250	0%		
300	9%		
350	0%		
400	31%		
Total	100%		$947

These probabilities are based on the actual requests for physical collocation enclosure construction received by BellSouth in 1997 and 1998 excluding the unusual requests for 700 s.f., 4000 s.f. and 5000 s.f..

BELLSOUTH COLLOCATION COST STUDY

PROJECT: TYPICAL COLLOCATOR COSTS - WIRE MESH PARTITION SYSTEM
LOCATION: **Varies** ROOM AREA: **100** SF
CLIENT: BellSouth Telecommunications, Inc PROJECT NO: DATE: 3/22/2000

SUMMARY

DESCRIPTION	PERCENT OF JOB	SUBTOTAL COST	COST PER SQ. FT.
1. GENERAL CONDITIONS			
10. SPECIALTIES			
16. ELECTRICAL			
SUBTOTAL			
CONTRACTOR'S MARKUP (12%)			
TOTAL ESTIMATED CONSTRUCTION COST			
ESTIMATED ARCHITECTURAL/ENGINEERING FEE(16%)			
PROJECT MANAGEMENT FEE (8%)			
TOTAL DESIGN/CONSTRUCTION COST			

BREAKDOWN BY DIVISION

DESCRIPTION	QUAN-TITY	UNIT MEAS.	UNIT COST	SUBTOTAL COST	TOTAL COST
1. GENERAL CONDITIONS					
Superintendent	1	LS			
General clean up	1	LS			
Permit (Moved to Space Preparation)	1	LS			
Contingency (5%)	1	LS			
10. SPECIALTIES					
Wire Mesh partition enclosure					
Swinging door and lockset	1	Ea			
Wall panels	1	Ea			
Signage	1	Ea			
Miscellaneous Protection	1	Job			
Prep)	0	LF			
16. ELECTRICAL					
Relocation or addition of light fixture(s)	1	Job			
Complete grounding of wire mesh partition system, including all necessary conductors, lugs, taps, etc.	1	Job			

Note: Costs shown above are directly attributable to the cost of preparing the Collocator's enclosure only. The space enclosure charge per the tarrif. Space Preparation costs are not inclu

Assumptions: Entire collocation suite and all enclosures are constructed at the same time (at least 80% of t
All mechanical and electrical modifications will be included in the space preparation fees.

It is not possible to construct the enclosures for this cost if they are constructed at different times a for a central office is received. The cost savings are due to reduced set-up, architectural, engineering management fees, supervision, as well as bulk purchases.

	25			50			100			150			200		
	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit Cost	Total
Wire mesh panels (56.15/Linear Foot)	5			10			30			35		$	40		$
Relocate Wire Panels	1			1						1		$	1		$
Swing Door & Lockset	1			1			1			1		$	1		$
Additional Protection	1			1			1			1		$	1		$
Electrical	1			1			1			1		$	1		$
Grounding	1			1			1			1		$	1		$
Signage	1			1			1			1		$	1		$
General															
Cleanup	1			1			1			1		$	1		$
Superintendent (5%)	1			1			1			1		$	1		$
Contingency(5%)	1			1			1			1		$	1		$
Contractor Fee (12%)	1			1			1			1		$	1		$
A/E Fees(16%)	1			1			1			1		$	1		$
Project Mgmt(5%)	1			1			1			1		$	1		$
Total												$			$
Construction w/o gen.cond.												$			$
Total Construction w/o fee												$			$
Total Construction w/fee												$			$
Incremental cost per 50sf from std. Cost (100sf)						$ (1,740)			$ -			$			$
Percentage Cost															55% 559

	250			300			350			400		
	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit Cost	Total	Qty	Unit Cost	Total
Wire mesh panels (56.15/Linear Foot)	45		$	50		$	55		$	60		$
Relocate Wire Panels	1		$	1		$	1		$	1		$
Swing Door & Lockset	1		$	1		$	1		$	1		$
Additional Protection	1		$	1		$	1		$	1		$
Electrical	1		$	1		$	1		$	1		$
Grounding	1		$ 1	1		$	1		$ 1	1		$ 2
Signage	1		$	1		$	1		$	1		$
General												
Cleanup	1		$	1		$	1		$	1		$
Superintendent (5%)	1		$	1		$	1		$	1		$
Contingency(5%)	1		$	1		$	1		$	1		$
Contractor Fee (12%)	1		$	1		$	1		$	1		$
A/E Fees(16%)	1		$	1		$	1		$	1		$
Project Mgmt(5%)	1		$	1		$	1		$	1		$
Total			**$ 1**			**$**			**$ 1**			**$**
Construction w/o gen.cond.			$			$			$			$
Total Construction w/o fee			$			$			$			$
Total Construction w/fee			$			$			$			$ 1
Incremental cost per 50sf from std. Cost (100sf)			$			$			$			$
									Total Avg.Incremental cost			$
Percentage			0%			9%			0%			31%
Cost			-			75			-			249
									Total Weighted Average Incremental cost			$ 947

	A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q
1			Updated 11/10/98 TEW @ 205-321-8113													
2																
3																
4	State	Cost	COLLOCATION	VIRTUAL		PHYSICAL										
5		#		Inputs	New Inputs	Inputs	New Inputs	Attachment Ref #	Supporting Info							
6																
7	FL	H.1.7	Physical Collocation - Cable Support Structure, Per Entrance Cable													
8			Investment per Foot					1	5" Rack =							
9			Cable Capacity						Note 7							
10			Projected Actual Utilization													
11			Average Cable Length													
12																
13	FL	H.1.8	Physical Collocation - Power, Per Ampere													
14			Monthly Power Usage													
15			Average Monthly Cost per KWH						=							
16			Watts						=							
17			Rectifier Efficiency						The above formula has been modified to include a factor of .66666							
18									This factor is required to calculate commercial power consumption based upon the rating of the DC protection device							
19																
20																
21																
22	FL	H.1.9	Physical Collocation - 2-Wire Cross Connects													
23			Trunk Distributing Frame													
24			Material Price	$		$		2								
25			Circuit Capacity													
26			Projected Actual Utilization													
27			Number Required													
28			Connecting Block													
29			Material Price					3								
30			Circuit Capacity													
31			Projected Actual Utilization													
32			Number Required													
33			Cable													
34			Material Price per foot					4								
35			Number Feet													
36			Circuit Capacity													
37			Projected Actual Utilization													
38			Cable Rack													
39			Material Price per foot					5	Rack =							
40			Number Feet													
41			Circuit Capacity						Note 1							
42			Projected Actual Utilization													
43																
44	FL	H.1.10	Physical Collocation - 4-Wire Cross Connects													
45			Trunk Distributing Frame													
46			Material Price			$		2								
47			Circuit Capacity													
48			Projected Actual Utilization													
49			Number Required													
50			Connecting Block													
51			Material Price					3								
52			Circuit Capacity													
53			Projected Actual Utilization													
54			Number Required													
55			Cable													
56			Material Price per foot					4								
57			Number Feet													
58			Circuit Capacity													
59			Projected Actual Utilization													
60			Cable Rack													
61			Material Price per foot					5	Rack =							00 ft.
62			Number Feet				0									
63			Circuit Capacity				0		Note 1							
64			Projected Actual Utilization				%									

	A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q
65				VIRTUAL		PHYSICAL										
66	FL	H.1.11	Physical Collocation - DS1 Cross Connects													
67			DSX-1 Panel Provided by another group													
68			Cable													
69			Material Price per foot					6								
70			Number Feet													
71			Additional Feet if Repeater													
72			Circuit Capacity													
73			Projected Actual Utilization													
74			Percent Repeater Required													
75			Cable Rack													
76			Material Price per foot					5	Rack =							
77			Number Feet													
78			Additional Feet if Repeater													
79			Circuit Capacity						Note 2							
80			Projected Actual Utilization													
81			Percent Repeater Required													
82			Repeater Bay													
83			Material Price			$										
84			Circuit Capacity													
85			Projected Actual Utilization													
86			Percent Required													
87			Repeater Shelf													
88			Material Price													
89			Circuit Capacity													
90			Projected Actual Utilization													
91			Percent Required													
92			Repeater													
93			Material Price													
94			Circuit Capacity													
95			Projected Actual Utilization													
96			Percent Required													
97																
98	FL	H.1.12	Physical Collocation - DS3 Cross Connects													
99			DSX-3 Panel Provided by another													
100			Cable													
101			Material Price per foot					7 and 8	Note 3							
102			Connector Material Price per cable					9 and 10								
103			Number Feet													
104			Additional Feet if Repeater													
105			Number Cables per Circuit													
106			Circuit Capacity													
107			Projected Actual Utilization													
108			Percent Repeater Required													
109			Cable Rack													
110			Material Price per foot					5	Rack							
111			Number Feet													
112			Additional Feet if Repeater													
113			Circuit Capacity						Note 4							
114			Projected Actual Utilization													
115			Percent Repeater Required													
116			Repeater Bay													
117			Material Price			$										
118			Circuit Capacity													
119			Projected Actual Utilization													
120			Percent Required													
121																
122																
123	FL	H.1.12	Repeater Shelf			PH										
124			Material Price													
125			Circuit Capacity													
126			Projected Actual Utilization													
127			Percent Required													
128			Repeater													
129			Material Price			$										
130			Circuit Capacity													
131			Projected Actual Utilization													
132			Percent Required													
133																

	A	B	C	D	E	F	G	I	J	K	L	M	N
134	FL	H.1.13	Physical Collocation - 2-Wire POT Bay										
135			POT Bay										
136			Material Price						Note 5				
137			Circuit Capacity										
138			Projected Actual Utilization										
139			Termination Block w/Bridging Clips										
140			Material Price						Note 5				
141			Circuit Capacity										
142			Projected Actual Utilization										
143													
144	FL	H.1.14	Physical Collocation - 4-Wire POT Bay										
145			POT Bay										
146			Material Price						Note 5				
147			Circuit Capacity										
148			Projected Actual Utilization										
149			Termination Block w/Bridging Clips										
150			Material Price						Note 5				
151			Circuit Capacity										
152			Projected Actual Utilization										
153													
154	FL	H.1.15	Physical Collocation - DS1 POT Bay						Note 6				
155			POT Bay										
156			Material Price			$	$	11 and 12					
157			Circuit Capacity										
158			Projected Actual Utilization										
159			POT Bay Shelf										
160			Material Price					13					
161			Circuit Capacity										
162			Projected Actual Utilization										
163			POT Bay Module										
164			Material Price					14					
165			Circuit Capacity										
166			Projected Actual Utilization										
167													
168	FL	H.1.16	Physical Collocation - DS3 POT Bay						Note 6				
169			POT Bay										
170			Material Price			$1	$	11 and 12					
171			Circuit Capacity										
172			Projected Actual Utilization										
173			POT Bay Shelf										
174			Material Price					15					
175			Circuit Capacity										
176			Projected Actual Utilization										
177			POT Bay Module										
178			Material Price					16					
179			Circuit Capacity										
180			Projected Actual Utilization										
181													
182													

	A	B	C	D	E	F	G	I	J	K	L	M	N	O	P	Q
183			Note 1: Assume 26Ga 100 Pr 806A cable OD=0 56"													
184			2' 6" Cable rack with max. 10"pileup													
185			Capacity = 30/ 56 x 10/0 56 = 54 x 18 = 972 cables													
186			2wire Circuits = 972 x 100 = 97,200													
187			4wire circuits = 972 x 100/2 = 48600													
188																
189			Note 2: Assume 22Ga 616C 28 pair Cable OD = 0 64"													
190			2' 6" Cable rack with max. 10"pileup													
191			Capacity = 30/ 64 x 10/ 64 = 47 x 15 = 752 cables													
192			DS1 Circuits = 752 x 14 = 10,528													
193																
194			Note 3: DS3 cable pricing. BST standards. use 735A up to 250'. Beyond 250' use 734D. Assume an even distribution of cable lengths from 100' to 455'. 10% beyond 455' require repeaters. 90% less than 455'.													
195			Cables between 100 and 250 = 150/355 =42.3%. Cables between 250 and 455' = 205/355 = 57.7%													
196			735A cable utilization = .423 x 90% = 38%													
197			734D cable utilization = 100% - 38% = 62%													
198			734D = $ 550/ft 735A = $.388/ft													
199			$/ft=(550)x(.62)+(.388)(.38)= $ 488/ft													
200																
201			Note 4: from note 3, 38% of DS3 cable is 735A, 62% is 734D													
202			735A OD = .122" , 734D OD = 0 236"													
203			735A cross section = .122 x .122 = .0149 sq. in.													
204			734D cross section = .236 x .236 = 0557 sq. in.													
205			Cabl rack cross section = 30" x 10" = 300 sq in													
206			Let X = total cables; 300 = (62)(X)(0557) + (38)(X)(0149)													
207			.034534X + .005662X = 300													
208			.040196X = 300													
209			X = 7463													
210			Capacity = 7463/2 = 3732													
211			735A cables = .38 (7463) = 2836													
212			734D cables = .62(7463) = 4627													
213																
214			Note 5: DSO POT Consists													
215			Qty - 1 universal 7' rack @													
216			Qty - 14 angle mtg bars @													
217			Total POT Bay =													
218																
219			Conn. Blk Mat'l													
220			Qty - 1 89B m													
221			Qty: 1 66M1 Conn blk													
222			Qty 50 C bridging clips													
223			Total DSO Conn Blk c													
224			Note 5 prices quoted ... Avtel Supply 11/5/98													
225																
226			Note 6 DS1 and DS3 POT Bay consists of													
227			Qty: 1ED-8C501-50 G1 7ft. Netwk Bay Frame													
228			Qty: 1 ED-8C157-31 G8 Interconnect Hardw													
229			Total Bay cost = $1,200.18													
230																
231			Note 7: 5" cable rack - le													
232			Qty of 1 ED4C685-72													
233			Qty of 1 ED4C685-72													
234			Total = $19.98/ft.+													
235																

24

Month	Active Cards
1	70,000
2	70,953
3	71,906
4	72,859
5	73,812
6	74,765
7	75,718
8	76,671
9	77,624
10	78,577
11	79,530
12	80,483
13	81,436
14	82,389
15	83,342
16	84,295
17	85,248
18	86,201
19	87,154
20	88,107
21	89,060
22	90,013
23	90,966
24	91,919
25	92,872
26	93,825
27	94,778
28	95,731
29	96,684
30	97,637
31	98,590
32	99,543
33	100,496
34	101,449
35	102,402
36	103,355

1,304	new card activation
351	card deactivation
953	net gain per month

36,678	Midpoint Active Cards
128,000	Apogee System Capacity

86,678 ÷ 128,000 = 67.72%

67.72% Projected Actual Utilization

STF 3-22 Please describe how the fill factors provided in response to STF 1-13 were calculated, and the information sources used to derive those factors.

Cable Support Structure cable rack - 50% - waiting on Bill McAllister

Cross Connects

The following equipment is part of the "normal" network equipment for the central office and is not specific to collocation or to a collocator; these pieces of equipment carry the general central office fill factor provided by Network Planning:

2-Wire Cross Connect	TDF	72.5%	(now 85%)
	Connecting Block	72.5%	(now 85%)
	Cable Rack	67%	(see note 1)
4-Wire Cross Connect	TDF	72.5%	(now 85%)
	Connecting Block	72.5%	(now 85%)
	Cable Rack	67%	(see note 1)
DS1 Cross Connect	DSX-1 Panel	70%	(now 85%)
	Cable Rack	67%	(see note 1)
DS3 Cross Connect	DSX-3 Panel	67%	(now 85%)
	Cable Rack	67%	(see note 1)

The following equipment is specific to a collocator and the utilizations are developed by determining the equipment required by the "typical" arrangement built and the "typical" 3-year average of circuits expected to be turned up.

2-Wire Cross Connect	Cable	85%
4-Wire Cross Connect	Cable	85%
DS1 Cross Connect	Cable	90%
	Repeater	100%
	Repeater Bay	30%
	Repeater Shelf	80%
DS3 Cross Connect	Cable	100%
	Repeater	100%
	Repeater Bay	35%
	Repeater Shelf	85%
2-Wire POT Bay	POT Bay	40%

FL 12-13

	Termination Block	85%	
4-Wire POT Bay	POT Bay	40%	
	Termination Block	85%	
DS1 POT Bay	Connecting Block	98.7%	
	Shelf	80%	
	POT Bay	33%	(see note 2)
DS3 POT Bay	Module	100%	
	Shelf	18%	
	POT Bay	33%	(see note 2)

Note 1: The utilization of cables in the cable rack is 67%. To get the utilization on a per circuit basis, this 67% is multiplied by the utilization of circuits in the cable itself. This yields the following utilizations that are now in the study:

2-Wire Cross Connect - 85% • 67% = 56.95%
4-Wire Cross Connect - 85% • 67% = 56.95 %
DS1 Cross Connect - 90% • 67% = 60.3%
DS3 Cross Connect - 100% • 67% = ~~100%~~ 67%

Note 2: The DS1 and DS3 circuits terminate on the same POT Bay. There are 12 shelves in the POT Bay. The average customer configuration assumes that there will be 3 shelves used for DS1 circuits and 1 for DS3 circuits. This total of 4 shelves used yields the 33% utilization listed in STF 1-13. To get this utilization on a per circuit basis, the 33% utilization is multiplied by the circuit utilization of the shelf. This yields the following utilizations that are now in the study:

DS1 POT Bay - 80% • 33% = 26.4%
DS3 POT Bay - 18% • 33% = 5.94%

	A	B	C	D	E	F	G	H	I	J	K
1	Yr	ST	GLC	Location		Est.$ per Sq.Ft.		Proposed Weighting	Weighted Colloca.$ per Sq.Ft.		
2											
3											
4				**ALABAMA**							
5	00	AL	11734	Hanceville - CO Addition		$ 4 00		5.00%	$ 0.20		
6	00	AL	11813	Huntsville University CO Addition		$ 12.00		11.00%	$ 1.32		
7		AL		Pansh CO - Addition		$ 4.00		5.00%	$ 0.20		
8		AL		Carbon Hill		$ 5.00		5.00%	$ 0.25		
9		AL		West Blocton - Addition		$ 6.00		5.00%	$ 0.30		
10		AL		Riverchase CO - Finish 2nd Story		$ 15.00		16.00%	$ 2.40		
11		AL		Sylacauga Main - Growth		$ 7.00		5.00%	$ 0.35		
12		AL		Huntsville Main - Rear Addition		$ 15.00		11.00%	$ 1.65		
13		AL		Alabaster CO - 2nd Floor Additon		$ 10.00		10.00%	$ 1.00		
14		AL		Rogersville Main - Front Addition		$ 4.00		5.00%	$ 0.20		
15		AL		Lafayette Main - Addition		$ 5.00		5.00%	$ 0.25		
16		AL		Oak Mountain CO - Rear Addition		$ 10.00		12.00%	$ 1.20		
17		AL		Belle Fountaine CO - Addition		$ 7.00		5.00%	$ 0.35		
18								100.00%	**$ 9.67**		
19				**FLORIDA**							
20		FL		Boca Raton		$ 15.00		12.00%	$ 1.80		
21		FL		Daytona Beach		$ 8.00		6.00%	$ 0.48		
22		FL		Holley-Navarre		$ 2.00		1.00%	$ 0.02		
23		FL		Jacksonville		$ 10.00		5.00%	$ 0.50		
24		FL		Lake Mary		$ 10.00		4.00%	$ 0.40		
25		FL		Miami		$ 12.00		14.00%	$ 1.68		
26		FL		North Dade		$ 12.00		20.00%	$ 2.40		
27		FL		West Palm Beach		$ 10.00		18.00%	$ 1.80		
28											
29				**Planned Additions**							
30		FL		Cross-City - Rear Addition		$ 2.00		1.00%	$ 0.02		
31		FL		JCVL Oceanway - Rear Addition		$ 4.00		1.00%	$ 0.04		
32		FL		Jacksonville Beachwood - Addition		$ 4.00		2.00%	$ 0.08		
33		FL		PNSC Ferry Pass Growth - Vert. Addn.		$ 5.00		2.00%	$ 0.10		
34		FL		Orlando Azalea Park - Addition		$ 10.00		2.00%	$ 0.20		
35		FL		Orlando Sandlake - Addition		$ 10.00		3.00%	$ 0.30		
36		FL		Weston CO - Addition		$ 20.00		1.00%	$ 0.20		
37		FL		FTLD Sawgrass - Rear Addition		$ 20.00		1.00%	$ 0.20		
38		FL		Coral Springs - Rear Addition		$ 15.00		3.00%	$ 0.45		
39		FL		FTLD Annex - Vertical Addition		$ 7.00		1.00%	$ 0.07		
40		FL		West Dade - Rear Toll Addition		$ 10.00		2.00%	$ 0.20		
41		FL		Sandalfoot CO - Addition		$ 15.00		1.00%	$ 0.15		
42								100.00%	**$ 11.09**		
43				**Kentucky**							
44		KY		LSVC - Westport Rd - Bldg Addition		$ 2.10		13.00%	$ 0.27		
45		KY		Pilotview - Bldg Addition		$ 0.65		7.60%	$ 0.05		
46		KY		Warfield - Bldg Addition		$ 0.65		7.60%	$ 0.05		
47		KY		Lebanon Jctn - Bldg Addition		$ 0.65		7.60%	$ 0.05		
48		KY		Bardstown CO - Bldg Addition		$ 1.60		16.00%	$ 0.26		
49		KY		Taylorsville - Bldg Addition		$ 0.65		7.60%	$ 0.05		
50		KY		Georgetown - Frame Bldg Addition		$ 1.85		10.00%	$ 0.19		
51		KY		McCarr - Bldg Addition		$ 0.65		7.60%	$ 0.05		
52		KY		Clinton - Bldg Addition		$ 0.65		7.60%	$ 0.05		
53		KY		Perryville Buckner - Bldg Addition		$ 0.65		7.60%	$ 0.05		
54		KY		Wayland - Bldg Addition		$ 0.65		7.70%	$ 0.05		
55								99.90%	$ 1.11		
56											

Attachment 4.
Item 2n

Forward Looking Studies - 2000-2002

CALCULATION OF FORWARD LOOKING LAND AND BUILDING LOADING FACTORS

	DATA SOURCE EOY 1998	ALABAMA	FLORIDA	GEORGIA	KENTUCKY	LOUISIANA	MISSISSIPPI	NORTH CAROLINA	SOUTH CAROLINA	TENNESSEE	BELLSOUTH
1 ACCOUNT 2121 - BUILDING - 1998 EO	CSS	341,260,876	728,338,737	515,080,201	166,430,961	246,254,924	151,722,827	223,057,232	120,511,653	245,989,769	2,738,647,180
2 A/C2121, CP 2- BUILDINGS - CEN OFC	CSS	152,536,033	416,037,384	204,921,110	94,046,590	188,192,321	76,413,986	157,437,891	82,975,114	149,040,786	1,521,601,215
3 - CEN OFC % OF TOTAL BUILDINGS	LN 2/LN1	44 70%	57 12%	39 78%	56 51%	76 42%	50 36%	70 58%	68 85%	60 59%	55 56%
4 A/C2121, CP 8- BUILDINGS ASSOC W	CSS	29,348,445	64,572,959	28,801,928	1,300,636	524,187	27,472,510	5,116,442	731,611	29,563,650	187,432,368
5 - GPC % OF TOTAL BUILDINGS	LN 4/LN1	8 60%	8 87%	5 59%	0 78%	0 21%	18 11%	2 29%	0 61%	12 02%	6 84%
* 6 ACCOUNT 2111 - LAND - 1998 EOY	1999-2001 AVG	21,375	80,596	50,704	21,554	31,253	10,851	34,196	14,621	21,227	286,378
* 7 ACCOUNT 2121 - BUILDING	1999-2001 AVG	719,659	1,312,635	1,012,371	340,762	538,924	342,877	512,349	291,536	527,952	5,599,064
* 8 TOTAL LAND & BLDG	LN 6 + LN 7	741,034	1,393,231	1,063,075	362,316	570,177	353,728	546,546	306,157	549,179	5,885,442
9 ACCT 2124 - GEN PUR COMP	1999-2001 AVG	233,577	167,918	238,391	18,885	30,682	79,397	142,537	23,531	93,776	1,028,694
10. ACCOUNT 2200 - COE	1999-2001 AVG	2,268,020	6,355,708	3,482,893	1,311,476	2,442,871	1,414,184	2,677,279	1,578,946	2,872,223	24,403,601
11 A/C2121, BUILDINGS ASSOC W/COE	LN 3 * LN 7	321,672	749,795	402,765	192,557	411,855	172,687	361,626	200,729	319,877	3,133,563
12 A/C2121, BUILDINGS ASSOC W/GPC	LN 5 * LN 7	61,891	116,375	56,609	2,663	1,147	62,085	11,752	1,770	63,451	377,743
CALCULATION OF FORWARD LOOKING L&B FACTORS:											
13 CENTRAL OFFICE - LAND	(LN3)*(LN13)/LN10	0 0042120	0 0072440	0 0057920	0 0092870	0 0097770	0 0038640	0 0090150	0 0063760	0 0044780	0 0065200
14 CENTRAL OFFICE - BUILDING	LN 11 / LN 10	0 1418290	0 1179720	0 1156410	0 1468250	0 1685950	0 1221110	0 1350720	0 1271290	0 1113690	0 1284060
15 GEN PUR COMPUTER - LAND	(LN5)*(LN6)/LN9	0 0078700	0 0425530	0 0118930	0 0089200	0 0021680	0 0247470	0 0055030	0 0037720	0 0272050	0 0190530
16 GEN PUR COMPUTER - BUILDING	LN 12 / LN 9	0 2649700	0 6930470	0 2374640	0 1410130	0 0373890	0 7819540	0 0824500	0 0752160	0 6766200	0 3672060

Line 6 ÷ Line 8 = % Land
& Line 7 ÷ Line 8 = % Building

Sm 10/6/99
1/10/00