BELLSOUTH

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S. C. P.S.C.
RECEIVED
UTILITIES DEPARTMENT

S.C. PUBLIC SERVICE COMMISSION
RECEIVED
JUN 01 2001

June 1, 2001

The Honorable Gary E. Walsh
Executive Director
Public Service Commission of SC
Post Office Drawer 11649
Columbia, South Carolina 29211

Re: Generic Proceeding to Establish Prices for BellSouth Telecommunications, Inc.'s Interconnection Services, Unbundled Network Elements and Other Related Elements and Services
Docket No.: 2001-65-C

Dear Mr. Walsh:

Enclosed for filing please find the original and 25 copies of BellSouth's Second Supplemental Direct Testimony of D. Daonne Caldwell with Supplemental Attachments in the above-referenced matter.

By copy of this letter, I am serving these responses upon all parties of record.

Sincerely,

CNWatson

Caroline N. Watson

CNW/nml

Enclosure

cc: All Parties of Record

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June 4, 2001

IN RE: DOCKET NO. 2001-65-C – BellSouth Telecommunications, Inc. – Generic Proceeding to Establish Prices for BellSouth Telecommunications, Inc.'s Interconnection Services, Unbundled Network Elements and Other Related Elements and Services.

COPY OF **SECOND SUPPLEMENTAL DIRECT TESTIMONY AND ATTACHMENTS OF D. DAONNE CALDWELL FILED ON BEHALF OF BELLSOUTH** HAS BEEN DISTRIBUTED TO THE FOLLOWING:

_____
J. McDaniel

_____
D. Lacoste

_____
Research

_____
Legal (2)

_____
Exec. Director

_____
Manager, Utils Dept.

_____
Audit (1)

_____
Commissioners (7)

pao

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POSTED 6/01 DW

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BELLSOUTH TELECOMMUNICATIONS, INC.

SECOND SUPPLEMENTAL DIRECT TESTIMONY OF

D. DAONNE CALDWELL

BEFORE THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

DOCKET NO. 2001-65-C

JUNE 1, 2001

S. C. PUBLIC SERVICE COMMISSION RECEIVED JUN 0 1 2001 RECEIVED

Q. PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION.

A. My name is D. Daonne Caldwell. My business address is 675 W. Peachtree St., N.E., Atlanta, Georgia. I am a Director in the Finance Department of BellSouth Telecommunications, Inc. (hereinafter referred to as "BellSouth"). My area of responsibility relates to the development of economic costs.

S. C. PUBLIC SERVICE COMMISSION RECEIVED JUN 0 4 2001 RECEIVED UTILITIES DEPARTMENT

Q. ARE YOU THE SAME D. DAONNE CALDWELL THAT PREVIOUSLY FILED TESTIMONY IN THIS DOCKET?

A. Yes.

Q. WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL TESTIMONY?

A. The purpose of my testimony is to correct the Rservices.sys file contained on the BSTLM© - Loop Model CD-ROM filed with my supplemental testimony on April

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RETURN DATE: SERVICE:

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25, 2001. The CD-ROM that contains the corrected file and an updated macro is being filed as Exhibit DDC-10.

Q. PLEASE EXPLAIN THE CORRECTION BELLSOUTH IS MAKING.

A. The Rservices report screens contained in the Rservices.sys file define the attributes of each unbundled loop and of each loop that is part of a combination. One of the attributes is which services are applicable to the specific loop (e.g., residential, business, coin, PBX, etc.). For a specific retail study, BellSouth had adjusted the P.1.1 loop such that only business loops were considered, which was appropriate for that specific application. This adjusted description of the P.1.1 element was inadvertently included in the Rservices.sys file and was included with the CD-ROMs filed with my earlier supplemental testimony introducing the UCL-ND.

Q. DOES THIS AFFECT THE BELLSOUTH-FILED COST OUTPUTS?

A. No. The cost results BellSouth presented to this Commission are correct, however, if another party reruns the study using the CD-ROMs filed with my earlier supplemental testimony, the P.1.1 loop will consider only business loops as defined by the incorrect Rservices.sys file. This is inappropriate since the P.1.1 loop is part of the UNE-Platform ("UNE-P") combination, which will be used for both business and residential customers.

Q. YOU MENTIONED THAT EXHIBIT DDC-10 CONTAINS A REVISED

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MACRO. WHY IS THIS MODIFICATION BEING MADE BY BELLSOUTH AT THIS TIME?

A. Several parties requested this enhancement to the processing of the BSTLM outputs. When the BSTLM creates output files, the files (both Rservice.csv files and BellSouth Cost Calculator© Excel files) use a file nomenclature based on the Rservice screen names (e.g., A.1.1). When state-average output files are created, those state average results are saved in files A.1.1.xls, A.1.2.xls, etc. When wire center outputs are created, however, those files are also named A.1.1.xls, A.1.2.xls, etc. Therefore, currently, unless the user either moves the first set of outputs (either state-average or wire center outputs) to another directory or renames the files in the existing folder, prior to creating the second set of outputs, the first set will be overwritten by the second set.

With this filing, BellSouth provides a means to avoid moving or renaming outputs from one directory to another prior to the creation of the second set of outputs. To accomplish this, BellSouth has created two sets of Rservice screens for each element. For example, the old A.1.1 Rservice screen in the BSTLM has been replaced with two screens – A.1.1.st and A.1.1.wc. The "st" Rservice screen setups are used for the state-average outputs from the BSTLM and the "wc" Rservice setups are used for the wire center outputs. For example, for the new 2-Wire Analog Voice Grade Loop there are now two Rservice screens – A.1.1.st and A.1.1.wc. This allows the user to keep both state-average and wire center results

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in the same directory.

These new Rservice definitions force a slight change in the "Remove-the-dot" macro. In previous BellSouth filings of the BSTLM, in order to establish wire center specific UNE element numbers for use in the BellSouth Cost Calculator, element numbers were entered on the Report screen in the BSTLM with a dot (.) at the end of the element number (e.g., A.1.1.). The BSTLM automatically placed the 8-digit wire center CLLI Code at the end of the element number for the deaveraged costs (e.g., A.1.1.XXXXXXXX, where XXXXXXXX is the CLLI). Thus, the final dot (.) separated the UNE number from the CLLI Code. Previously, the macro just removed the dot (.) from the state average files. For example, the macro changed the element number from A.1.1. to A.1.1 for a SL1 loop. Now, the BSTLM reports will have the element number followed by either "st." or "wc.". Since "st." or "wc." will now follow each element number in the BellSouth Cost Calculator files created by the BSTLM, the macro has been changed to do the following:

- on the state-average output files, the macro will remove the "st."
- on the wire center output files, the macro will remove the "wc"

This macro is found on the CD-ROM as SP-Remove the dot.xls. Let me emphasize, this enhancement does not change the study results; it only improves the processing of the BSTLM's data.

Q. DOES THIS CONCLUDE YOUR TESTIMONY?

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A. Yes.

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STATE OF SOUTH CAROLINA)
) CERTIFICATE OF SERVICE
COUNTY OF RICHLAND)

The undersigned, Nyla M. Laney, hereby certifies that she is employed by the Legal Department for BellSouth Telecommunications, Inc. ("BellSouth") and that she has caused BellSouth's Second Supplemental Direct Testimony of D. Daonne Caldwell with Supplemental Attachments to be served by placing such in the care and custody of the United States Postal Service, with first-class postage affixed thereto and addressed to the following this June 1, 2001:

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Nyla M. Laney

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BSTLM REPORT GUIDE

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
Name	Description		Services											Adders Columns J through U								
Cost Element #	UNE Description	Scenario	Service Types to Include in Rservice	Feeder / Distribution	Loop / Channel	Copper / Fiber	Length	Cost Elements	MDF - Matched	MDF - Combo	MDF - Copper	MDF - DS1	Test Point - Common	Test Point - Hardwired	Test Point - Plug In	2W Local Channel Adders	4W Local Channel Adders	DS1 Local Channel Adders	DS1 Loop Feeder - HDSL	DS1 Plug In @ RT	DSX1 A.12.5	DSX1
UNE LOOPS																						
A.1.1	2Wire Analog Voice Grade Loop - SL1	BST2000	A,a,b,c,d,e,l	Both	Loop	ALL	ALL	ALL	2w													
A.1.2	2Wire Analog Voice Grade Loop - SL2	BST2000	A,a,b,c,d,e,l	Both	Loop	ALL	ALL	ALL	2w				2w	2w	2w							
A.10.1	4W 19.56, or 64 Kbps Loop	BST2000	Ll	Both	Loop	ALL	ALL	ALL	4w				4w	4w	4w							
A.12.5	Unbundled Loop Concentration - USLC Feeder Interface (same as A.9.2)	BST2000	k,t,p,K	Both	Loop	Fiber Feeder Only; Non-Wideband	ALL	DLC to COT; DLC-CO												DS1 Line Card @ RT	DSX1 A.12.5	
A.2.11	Subloop Distribution Per 4W Analog VG Loop	BST2000	M,o	Both	Loop	ALL	ALL	NID thru FDI														
A.2.1	Subloop Feeder Per 2W Analog VG Loop	BST2000	E,A,a,b,c,d,e,l,Q	Both	Loop	ALL	ALL	FDI thru COT	2w				2w	2w	2w							
A.2.2	Subloop Distribution Per 2W Analog VG Loop	BST2000	F,A,a,b,c,d,e,l	Both	Loop	ALL	ALL	NID thru FDI														
A.2.24	Subloop Feeder Per 4W Analog VG Loop	BST2000	M,o,R	Both	Loop	ALL	ALL	FDI thru COT	4w				4w	4w	4w							
A.2.29	Subloop Feeder Per 4W 56/64 Kbps Loop	BST2000	L,l	Both	Loop	ALL	ALL	FDI thru COT	4w				4w	4w	4w							
A.4.1	4wVG Loop	BST2000	M,o	Both	Loop	ALL	ALL	ALL	4w				4w	4w	4w							
A.9.1	4W DS1 Digital Loop	BST2000	k,t,p,K	Both	Loop	ALL	ALL	ALL				DS1										DSX1
A.9.2	4W DS1 Digital Loop - Subloop Feeder	BST2000	k,t,p,K	Both	Loop	ALL	ALL	FDI thru COT; emit SONET-PREM				DS1							DS1 Feeder Adders			DSX1
D.5.1	Local Channel - Dedicated - 2W Voice Grade	BST2000	D,o,l,H	Both	Local Channel	Fiber Only	ALL	BldgCable, DT-FDI, FDI-DLC, DLC-CO								ALL 2W LC Adders						
D.5.2	Local Channel - Dedicated - 4W Voice Grade	BST2000	D,o,l,H	Both	Local Channel	Fiber Only	ALL	BldgCable, DT-FDI, FDI-DLC, DLC-CO									ALL 4WLC Adders					
D.5.24	Local Channel - DS1	BST2000	p,P	Both	Local Channel	Fiber Only	ALL	BldgCable, DT-FDI, FDI-DLC, DLC-CO										ALL DS1 LC Adders				
LOOPS FOR COMBOS:																						
P.1.1	Combo - 2W VG Analog Loop	Combo	a,b,c,d,e	Both	Loop	All	All	ALL		2w												
ISDN LOOPS																						
P.4.1	Combo - 2W ISDN Loop	Combo-ISDN	I,a	Both	Loop	All	All	ALL		2w												
A.2.29	Subloop Feeder Per 2W ISDN Loop	BST2000-ISDN	D,I,n	Both	Loop	ALL	ALL	FDI thru COT	2w				2w	2w	2w							
A.5.1	2W UDL ISDN	BST2000-ISDN	D,I,n	Both	Loop	ALL	ALL	ALL	2w				2w	2w	2w							
A.5.9	Universal Digital Channel	BST2000-ISDN	D,I,n	Both	Loop	ALL	ALL	ALL	2w				2w	2w	2w							

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BSTLM REPORT GUIDE

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
Name	Description		Services											Adders Columns J through U								
Cost Element #	UNE Description	Scenario	Service Types to Include in Rservice	Feeder / Distribution	Loop / Channel	Copper / Fiber	Length	Cost Elements	MDF - Molded	MDF - Combo	MDF - Copper	MDF - DS1	Test Point - Common	Test Point - Hardwired	Test Point - Plug In	2W Local Channel Adders	4W Local Channel Adders	DS1 Local Channel Adders	DS1 Loop Feeder - HDSL	DS1 Plug In @ RT	DSX1 A.12.8	DSX1
COPPER ONLY																						
A.13.1	2W Copper Loop - Short	Copper Only	a,b,c,d,e,j,A,Q	Both	Loop	Copper	<18,000	NID,Drop,DTBT,BldgCable,DT FDI,FDI,FDI-DLC,DLC-CO			2w		2w	2w	2w							
A.13.7	2W Copper Loop - Long	Copper Only	a,b,c,d,e,j,A,Q	Both	Loop	Copper	>18,000	NID,Drop,DTBT,FDI,Cable			2w		2w	2w	2w							
A.14.1	4W Copper Loop - Short	Copper Only	o,M,R	Both	Loop	Copper	<18,000	NID,Drop,DTBT,FDI,Cable			4w		4w	4w	4w							
A.14.7	4W Copper Loop - Long	Copper Only	o,M,R	Both	Loop	Copper	>18,000	NID,Drop,DTBT,FDI,Cable			4w		4w	4w	4w							
A.2.30	Subloop Feeder Per 2W Unbundled Copper Loop	Copper Only	a,b,c,d,e,j,A,Q	Both	Loop	Copper	<18,000	FDI,FDI-DLC,DLC-CO			2w		2w	2w	2w							
A.2.32	Subloop Feeder Per 4W Unbundled Copper Loop	Copper Only	M,o,R	Both	Loop	Copper	<18,000	FDI,FDI-DLC,DLC-CO			4w		4w	4w	4w							
A.2.40	Subloop Distribution Per 2W Unbundled Copper Loop	Copper Only	a,b,c,d,e,j,A,Q	Both	Loop	Copper	<18,000	NID thru FDI														
A.2.42	Subloop Distribution Per 4W Unbundled Copper Loop	Copper Only	M,o,R	Both	Loop	Copper	<18,000	NID thru FDI														
A.6.1	2w UDL ADSL-capable	Copper Only	a,b,c,d,e,j,A,B	Both	Loop	Copper	<18,000	NID,Drop,DTBT,BldgCable,DT FDI,FDI,FDI-DLC,DLC-CO			2w		2w	2w	2w							
A.7.1	2w UDL HDSL-capable	Copper Only	a,b,c,d,e,j,A,C	Both	Loop	Copper	<12,000	NID,Drop,DTBT,BldgCable,DT FDI,FDI,FDI-DLC,DLC-CO			2w		2w	2w	2w							
A.8.1	4w UDL HDSL-capable	Copper Only	I,J,I	Both	Loop	Copper	<12,000	NID,Drop,DTBT,BldgCable,DT FDI,FDI,FDI-DLC,DLC-CO			4w		4w	4w	4w							

Notes :

1. To get Local Channels on Fiber Cable only, the user must specify so prior to running the GIS step of the model. Electronics for Local Channels included as "adders".

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SERVICE / UNE CODES USED IN BSTLM

Service Code	ServiceDescription	UNE Svc Code	UNE Loop Description
aa	Residence Primary Foreign		
ab	Residence Primary Home		
ac	Residence - Add'l Foreign	AA	2wVG Analog SL1
ad	Residence - Add'l Home	AB	2wVG Analog SL2
ae	Business Single Foreign	B	2wVG ADSL Compatible
af	Business - Single Home	C	2wVG HDSL Compatible
ag	Business - Multi Foreign	D	2wVG ISDN
ah	Business - Multi Home	E	2wVG SubLoop Feeder
ai	Residence - Centrex Dorm	F	2wVG SubLoop Distribution
ba	PBX - Foreign	H	2wVG U Local Channel
bb	PBX - Home	I	4w Digital Loop 56/64 Kbps
ca	Centrex - FX Station	J	4w HDSL Compatible
cb	Centrex Station	K	4w DS1 Digital Loop
da	Smartline	L	4wVG USLC DS1
db	Smartline	M	4wVG Loop
ea	Public - Multiline	N	4wVG Subloop Distribution
eb	Public - Single Line	Q	2W Unbundled Copper Loop
fa	Residnece Primary ISDN - Foreign	R	4W Unbundled Copper Loop
fb	Residence Primary ISDN - Home	S	DS3 Loop
fc	Residence Add'l ISDN Foreign	T	OC3 Loop
fd	Residence Add'l ISDN Home	U	OC12 Loop
fe	Business Single ISDN Foreign	V	OC48 Loop
ff	Business Single ISDN Home	W	U Local Channel DS3
fg	Business Multi ISDN Foreign	X	U Local Channel OC3
fh	Business Multi ISDN Home	Y	U Local Channel OC12
g	ISDN PBX Home	Z	U Local Channel OC48
ha	DS0 2w Special Access POP	O	4wVG Local Channel
hb	DS0 2w Special Access - Premises	P	Local Channel DS1
hc	DS0 2w Private Line		
ia	DS0 4w Special Access POP		
ib	DS0 4w Special Access Premises		
ic	DS0 4w Private Line		
ja	Analog 2w Private Line		
jb	Analog 2w Special Access POP		
jc	SL Analog 2w Special Access Premises		
k	Megalink ISDN Residence		
oa	Analog 4w Private Line		
ob	Analog 4w Special Access POP		
oc	Analog 4w Special Access Premises		
pa	DS1 Digital Special Access Premises		
pb	DS1 Digital SP Access POP		
pc	DS1 Digital Private Line		
ra	DS3 Digital Special Access Premises		
rb	DS3 Digital Special Access POP		
s	DS3 Digital LightGate/Video		
t	DS1 Digital Switch Area Commitment Plan		

OC48 - Line Cards (SONET Terminals-SONET Cards)

Item	Vend "A" Material Cost	Vend "B" Material Cost	Service Capacity	Total Placing Hours
DS1	[redacted]		4	0
DS3			3	0
STS1			3	0
OC1			3	0
OC3			1	0
OC12			1	0

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OC3 - Line Cards (SONET Terminals-SONET Cards)

Item	Vend "A" Material Cost	Vend "B" Material Cost	Service Capacity	Total Placing Hours
DS1	[redacted]		4	0
DS3			1	0
STS1			1	0
OC1			1	0

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OC12 - Line Cards (SONET Terminals-SONET Cards)

Item	Vend "A" Material Cost	Vend "B" Material Cost	Service Capacity	Total Placing Hours
DS1	[redacted]		4	0
DS3			3	0
STS1			3	0
OC1			3	0
OC3			1	0

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OC1 - Line Cards (SONET Terminals-SONET Cards)

Item	Vend "A" Material Cost	Vend "B" Material Cost	Service Capacity	Total Placing Hours
DS1	[redacted]		4	0

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Information - Line Cards (SONET Terminals-SONET Cards)

Item	Equipment Category	Channel Unit Investment Driver
DS1	Plug-in	DS1
DS3	Plug-in	DS3
STS1	Plug-in	STS1
OC1	Plug-in	OC1
OC3	Plug-in	OC3
OC12	Plug-in	OC12

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Vendor Mix (SONET Terminals-Other)

Terminal	Vendor "A"	Vendor "B"
OC-1	[redacted]	
OC-3		
OC-12		
OC-48		

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OC48 - SONET Term (SONET Terminals-SONET COT)

Item	Vend "A" Material Cost	Vend "B" Material Cost	DS1 Capacity	Total Placing Hours
Optical shelf - Hardwire (Low)	[redacted]		672	0
Optical shelf - Hardwire (High)			1344	0
Optical Common Equip (Low)			672	0
Optical Common Equip (High)			1344	0
Interface MUX Working Card (28 DS1 Capacity)			28	0
OC12 Interface MUX Working Card (84 DS1 Capacity)			0	0
OC48 Interface MUX Working Card (84 DS1 Capacity)			84	0
Interface MUX Equipment (28 DS1 Capacity)			28	0
OC12 Interface MUX Equipment (84 DS1 Capacity)			0	0
OC48 Interface MUX Equipment (84 DS1 Capacity)			84	0
Interface MUX Equipment (336 DS1 Capacity)			336	0
Interface MUX Equipment (1344 DS1 Capacity)			1344	0
OC12 Interface MUX Commons			0	0
OC48 Interface MUX Commons			84	0
Interface MUX - Hardwire (28-56 DS1 Capacity)			56	0
OC12 Interface MUX - Hardwire (84 DS1 Capacity)			0	0
OC48 Interface MUX - Hardwire (84 DS1 Capacity)			84	0
Batt. Backup			0	0
Data communications Link			1344	0
Fiber Splicing Terminal			1344	0
DSX-1 Panel			56	0
DSX-3 Panel			672	0
LGX			1344	0

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OC3 - SONET Term (SONET Terminals-SONET RT)

Item	Vend "A" Material Cost	Vend "B" Material Cost	DS1 Capacity	Total Placing Hours
Optical shelf - Hardwire (Low Capacity)	[redacted]		84	0
Optical shelf - Hardwire (High Capacity)			0	0
Optical Common Equip (Low Capacity)			84	0
Optical Common Equip (High Capacity)			0	0
Interface MUX Working Card (28 DS1 Capacity)			0	0
OC12 Interface MUX Working Card (84 DS1 Capacity)			0	0
OC48 Interface MUX Working Card (84 DS1 Capacity)			0	0
Interface MUX Equipment (28 DS1 Capacity)			28	0
OC12 Interface MUX Equipment (84 DS1 Capacity)			0	0
OC48 Interface MUX Equipment (84 DS1 Capacity)			0	0
Interface MUX Equipment (336 DS1 Capacity)			0	0
Interface MUX Equipment (1344 DS1 Capacity)			0	0
OC12 Interface MUX Commons			0	0
OC48 Interface MUX Commons			0	0
Interface MUX - Hardwire (28-56 DS1 Capacity)			0	0
OC12 Interface MUX - Hardwire (84 DS1 Capacity)			0	0
OC48 Interface MUX - Hardwire (84 DS1 Capacity)			0	0
Batt. Backup (Hard)			84	0
Batt. Backup (Common)			84	0
Fiber Splicing Terminal			1344	0
DSX-1 Panel			56	0
DSX-3 Panel			672	0
Ltie			0	0

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OC12 - SONET Term (SONET Terminals-SONET RT)

Item	Vend "A" Material Cost	Vend "B" Material Cost	DS1 Capacity	Total Placing Hours
Optical shelf - Hardwire (Low Capacity)	[redacted]		336	0
Optical shelf - Hardwire (High Capacity)			0	0
Optical Common Equip (Low Capacity)			336	0
Optical Common Equip (High Capacity)			0	0
Interface MUX Working Card (28 DS1 Capacity)			0	0
OC12 Interface MUX Working Card (84 DS1 Capacity)			84	0
OC48 Interface MUX Working Card (84 DS1 Capacity)			0	0
Interface MUX Equipment (28 DS1 Capacity)			28	0
OC12 Interface MUX Equipment (84 DS1 Capacity)			84	0
OC48 Interface MUX Equipment (84 DS1 Capacity)			0	0
Interface MUX Equipment (336 DS1 Capacity)			0	0
Interface MUX Equipment (1344 DS1 Capacity)			0	0
OC12 Interface MUX Commons			84	0
OC48 Interface MUX Commons			0	0
Interface MUX - Hardwire (28-56 DS1 Capacity)			0	0
OC12 Interface MUX - Hardwire (84 DS1 Capacity)			84	0
OC48 Interface MUX - Hardwire (84 DS1 Capacity)			0	0
Batt. Backup (Hard)			336	0
Batt. Backup (Common)			336	0
Fiber Splicing Terminal			1344	0
DSX-1 Panel			56	0
DSX-3 Panel			672	0
Ltie			1344	0

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OC1 - SONET Term (SONET Terminals-SONET RT)

Item	Vend "A" Material Cost	Vend "B" Material Cost	DS1 Capacity	Total Placing Hours
Optical shelf - Hardwire (Low Capacity)	[redacted]		28	0
Optical shelf - Hardwire (High Capacity)			0	0
Optical Common Equip (Low Capacity)			28	0
Optical Common Equip (High Capacity)			0	0
Interface MUX Working Card (28 DS1 Capacity)			0	0
OC12 Interface MUX Working Card (84 DS1 Capacity)			0	0
OC48 Interface MUX Working Card (84 DS1 Capacity)			0	0
Interface MUX Equipment (28 DS1 Capacity)			28	0
OC12 Interface MUX Equipment (84 DS1 Capacity)			0	0
OC48 Interface MUX Equipment (84 DS1 Capacity)			0	0
Interface MUX Equipment (336 DS1 Capacity)			0	0
Interface MUX Equipment (1344 DS1 Capacity)			0	0
OC12 Interface MUX Commons			0	0
OC48 Interface MUX Commons			0	0
Interface MUX - Hardwire (28-56 DS1 Capacity)			0	0
OC12 Interface MUX - Hardwire (84 DS1 Capacity)			0	0
OC48 Interface MUX - Hardwire (84 DS1 Capacity)			0	0
Batt. Backup (Hard)			28	0
Batt. Backup (Common)			28	0
Fiber Splicing Terminal			1344	0
DSX-1 Panel			56	0
DSX-3 Panel			0	0
Ltie			0	0

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Information - SONET Term (SONET Terminals-SONET RT)

Item	Equipment Category	Channel Unit Investment Driver
Optical shelf - Hardwire (Low Capacity)	Hardwired	ALL
Optical shelf - Hardwire (High Capacity)	Hardwired	ALL
Optical Common Equip (Low Capacity)	Common	ALL
Optical Common Equip (High Capacity)	Common	ALL
Interface MUX Working Card (28 DS1 Capacity)	Common	DS1
OC12 Interface MUX Working Card (84 DS1 Capacity)	Common	DS1
OC48 Interface MUX Working Card (84 DS1 Capacity)	Common	DS1
Interface MUX Equipment (28 DS1 Capacity)	Common	DS1
OC12 Interface MUX Equipment (84 DS1 Capacity)	Common	DS1
OC48 Interface MUX Equipment (84 DS1 Capacity)	Common	DS1
Interface MUX Equipment (336 DS1 Capacity)	Common	DS3-OC1
Interface MUX Equipment (1344 DS1 Capacity)	Common	DS3-OC1
OC12 Interface MUX Commons	Common	DS1
OC48 Interface MUX Commons	Common	DS1
Interface MUX - Hardwire (28-56 DS1 Capacity)	Hardwired	DS1
OC12 Interface MUX - Hardwire (84 DS1 Capacity)	Hardwired	DS1
OC48 Interface MUX - Hardwire (84 DS1 Capacity)	Hardwired	DS1
Batt. Backup (Hard)	Hardwired	ALL
Batt. Backup (Common)	Common	ALL
Fiber Splicing Terminal	Hardwired	DS1-OC3
DSX-1 Panel	Hardwired	DS1
DSX-3 Panel	Hardwired	DS3-OC1
Ltie	Hardwired	OC3-OC48

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Vendor "B" DLC - Channel (DLC/ONU-COT)

Item	Material Cost	Service Capacity	Total Placing Hours
POTS	[redacted]	2	0
COIN	[redacted]	1	0
BRI-ISDN	[redacted]	1	0
CENTREX	[redacted]	2	0
SW-VGSS	[redacted]	2	0
NSW-VGSS	[redacted]	1	0
4-WIRE	[redacted]	1	0
DS1	[redacted]	4	0
HDSL	[redacted]	1	0
ADSL	[redacted]	1	0
PBX	[redacted]	2	0

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Vendor "B" DLC - CE (DLC/ONU-COT)

Item	Material Cost	DSO Capacity	Total Placing Hours
CO CE Optical Bank/Shelf	[redacted]	2016	0
CE Bank/Shelf Common Equip.	[redacted]	672	0
TSI Integrated	[redacted]	NA	0
TSI Universal	[redacted]	NA	0
TSI Protect	[redacted]	2016	0
CO channel bank/metallic shelf SW	[redacted]	96	0
SW Channel Bank/Shelf CE	[redacted]	NA	0
CO channel bank/metallic shelf NSW	[redacted]	96	0
NSW Channel Bank/Shelf CE	[redacted]	NA	0
CO DS1 channel units for integration	[redacted]	24	0
Optical ONU Bank/Shelf	[redacted]	8	0
Optical Line Units	[redacted]	1	0
HDSL Common Equipment	[redacted]	24	0
ADSL Common Equipment	[redacted]	1	0
DSX Panel	[redacted]	2016	0
Bay	[redacted]	672	0
D4 Bay	[redacted]	48	0
D4 Shelf	[redacted]	48	0
D4 Channel Unit	[redacted]	2	0

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Vendor "A" DLC - Channel (DLC/ONU-COT)

Item	Material Cost	Service Capacity	Total Placing Hours
POTS	[redacted]	4	0
COIN	[redacted]	4	0
BRI-ISDN	[redacted]	4	0
CENTREX	[redacted]	4	0
SW-VGSS	[redacted]	4	0
NSW-VGSS	[redacted]	4	0
4-WIRE	[redacted]	2	0
DS1	[redacted]	1	0
HDSL	[redacted]	1	0
ADSL	[redacted]	1	0
PBX	[redacted]	4	0

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Vendor "A" DLC - CE (DLC/ONU-COT)

Item	Material Cost	DSO Capacity	Total Placing Hours
CO CE Optical Bank/Shelf	[redacted]	2016	0
CE Bank/Shelf Common Equip.	[redacted]	2016	0
TSI Integrated	[redacted]	672	0
TSI Universal	[redacted]	672	0
TSI Protect	[redacted]	672	0
CO channel bank/metallic shelf SW	[redacted]	224	0
SW Channel Bank/Shelf CE	[redacted]	224	0
CO channel bank/metallic shelf NSW	[redacted]	224	0
NSW Channel Bank/Shelf CE	[redacted]	224	0
CO DS1 channel units for integration	[redacted]	1	0
Optical ONU Bank/Shelf	[redacted]	8	0
Optical Line Units	[redacted]	1	0
HDSL Common Equipment	[redacted]	24	0
ADSL Common Equipment	[redacted]	1	0
DSX Panel	[redacted]	2016	0
Bay	[redacted]	672	0
D4 Bay	[redacted]	48	0
D4 Shelf	[redacted]	48	0
D4 Channel Unit	[redacted]	2	0

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Information - Channel (DLC/ONU-COT)

Item	Equipment Category	UOM
POTS	Plug-in	Item
COIN	Plug-in	Item
BRI-ISDN	Plug-in	Item
CENTREX	Plug-in	Item
SW-VGSS	Plug-in	Item
NSW-VGSS	Plug-in	Item
4-WIRE	Plug-in	Item
DS1	Plug-in	Item
HDSL	Plug-in	Item
ADSL	Plug-in	Item
PBX	Plug-in	Item

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Information - CE (DLC/ONU-COT)

Item	Equipment Category	UOM
CO CE Optical Bank/Shelf	Hardwired	All
CE Bank/Shelf Common Equip.	Common	All
TSI Integrated	Common	Integrated
TSI Universal	Common	Universal
TSI Protect	Common	All
CO channel bank/metallic shelf SW	Hardwired	Integrated
SW Channel Bank/Shelf CE	Common	Integrated
CO channel bank/metallic shelf NSW	Hardwired	NSW
NSW Channel Bank/Shelf CE	Common	NSW
CO DS1 channel units for integration	Plug-in	Integrated
Optical ONU Bank/Shelf	Hardwired	ONU
Optical Line Units	Common	ONU
HDSL Common Equipment	Common	HDSL
ADSL Common Equipment	Common	ADSL
DSX Panel	Hardwired	All
Bay	Hardwired	All
D4 Bay	Hardwired	NSW
D4 Shelf	Hardwired	NSW
D4 Channel Unit	Plug-in	NSW

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Vendor "B" DLC - Channel (DLC/ONU-DLCRT)

Item	Material Cost	Service Capacity	Total Placing Hours
POTS	[redacted]	2	0
POTSX	[redacted]	2	0
COIN	[redacted]	1	0
COINX	[redacted]	1	0
BRI-ISDN	[redacted]	1	0
BRI-ISDNX	[redacted]	1	0
CENTREX	[redacted]	2	0
CENTREXX	[redacted]	2	0
SW-VGSS	[redacted]	2	0
SW-VGSSX	[redacted]	2	0
NSW-VGSS	[redacted]	1	0
NSW-VGSSX	[redacted]	1	0
4-WIRE	[redacted]	1	0
4-WIREX	[redacted]	1	0
DS1	[redacted]	4	0
DS1X	[redacted]	4	0
HDSL	[redacted]	1	0
HDSLX	[redacted]	1	0
ADSL	[redacted]	1	0
ADSLX	[redacted]	1	0
PBX	[redacted]	2	0
PBXX	[redacted]	2	0

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Vendor "B" DLC - CE (DLC/ONU-DLCRT)

Item	Material Cost	DSO Capacity	Total Placing Hours
RT CE Optical Bank/Shelf	[redacted]	2016	0
CE Bank/Shelf Common Equip. (Integrated)	[redacted]	672	0
CE Bank/Shelf Common Equip. (Universal)	[redacted]	672	0
TSI	[redacted]	NA	
TSI Protect	[redacted]	2016	
RT channel bank /Shelf (Metallic)	[redacted]	96	0
Channel Bank/Shelf CE	[redacted]	NA	0
ADSL Common Equipment	[redacted]	NA	0
HDSL Common Equipment	[redacted]	NA	0
Optical ONU Bank/Shelf	[redacted]	8	0
Optical Shelf CE	[redacted]	8	0
Optical Line Units	[redacted]	1	0
DSX Panel	[redacted]	2016	0
Batteries, Environ. Equip., Etc.	[redacted]	672	0
Bay	[redacted]	672	0
ONU Cabinet (e.g. CAD-12)	[redacted]	NA	NA
Cabinet Small (includes Batt. Etc.)	[redacted]	NA	0
Cabinet Medium (includes Batt. Etc.)	[redacted]	480	0
Cabinet Large (includes Batt. Etc.)	[redacted]	1344	0
Cabinet Xtra Large (includes Batt. Etc.)	[redacted]	2016	0
Mini-Hut	[redacted]	7257	0
Maxi -Hut	[redacted]	9792	0
CEV 16	[redacted]	8064	0
CEV 24	[redacted]	12096	0

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Vendor "A" DLC - Channel (DLC/ONU-DLCRT)

Item	Material Cost	Service Capacity	Total Placing Hours
POTS	[redacted]	4	0
POTSX	[redacted]	4	0
COIN	[redacted]	4	0
COINX	[redacted]	4	0
BRI-ISDN	[redacted]	4	0
BRI-ISDNX	[redacted]	4	0
CENTREX	[redacted]	4	0
CENTREXX	[redacted]	4	0
SW-VGSS	[redacted]	4	0
SW-VGSSX	[redacted]	4	0
NSW-VGSS	[redacted]	4	0
NSW-VGSSX	[redacted]	4	0
4-WIRE	[redacted]	2	0
4-WIREX	[redacted]	2	0
DS1	[redacted]	1	0
DS1X	[redacted]	1	0
HDSL	[redacted]	1	0
HDSLX	[redacted]	1	0
ADSL	[redacted]	1	0
ADSLX	[redacted]	1	0
PBX	[redacted]	4	0
PBXX	[redacted]	4	0

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Vendor "A" DLC - CE (DLC/ONU-DLCRT)

Item	Material Cost	DSO Capacity	Total Placing Hours
RT CE Optical Bank/Shelf	[redacted]	2016	0
CE Bank/Shelf Common Equip. (Integrated)	[redacted]	2016	0
CE Bank/Shelf Common Equip. (Universal)	[redacted]	2016	0
TSI	[redacted]	672	0
TSI Protect	[redacted]	672	0
RT channel bank /Shelf (Metallic)	[redacted]	224	0
Channel Bank/Shelf CE	[redacted]	224	0
ADSL Common Equipment	[redacted]	1	0
HDSL Common Equipment	[redacted]	1	0
Optical ONU Bank/Shelf	[redacted]	8	0
Optical Shelf CE	[redacted]	8	0
Optical Line Units	[redacted]	1	0
DSX Panel	[redacted]	56	0
Batteries, Environ. Equip., Etc.	[redacted]	672	0
Bay	[redacted]	672	0
ONU Cabinet (e.g. CAD-12)	[redacted]	NA	NA
Cabinet Small (includes Batt. Etc.)	[redacted]	NA	NA
Cabinet Medium (includes Batt. Etc.)	[redacted]	448	0
Cabinet Large (includes Batt. Etc.)	[redacted]	1344	0
Cabinet Xtra Large (includes Batt. Etc.)	[redacted]	2240	0
Mini-Hut	[redacted]	7257	0
Maxi -Hut	[redacted]	9792	0
CEV 16	[redacted]	8064	0
CEV 16	[redacted]	12096	0

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ONU 24 - Channel (DLC/ONU-DLCRT)

Item	Material Cost	Service Capacity	Total Placing Hours
POTS	[redacted]	4	0
POTSX	[redacted]	4	0
COIN	[redacted]	1	0
COINX	[redacted]	1	0
BRI-ISDN	[redacted]	1	0
BRI-ISDNX	[redacted]	1	0
CENTREX	[redacted]	4	0
CENTREXX	[redacted]	4	0
SW-VGSS	[redacted]	1	0
SW-VGSSX	[redacted]	1	0
NSW-VGSS	[redacted]	1	0
NSW-VGSSX	[redacted]	1	0
4-WIRE	[redacted]	1	0
4-WIREX	[redacted]	1	0
DS1	[redacted]	4	0
DS1X	[redacted]	4	0
HDSL	[redacted]	1	0
HDSLX	[redacted]	1	0
ADSL	[redacted]	1	0
ADSLX	[redacted]	1	0
PBX	[redacted]	1	0
PBXX	[redacted]	1	0

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ONU 24 - CE (DLC/ONU-DLCRT)

Item	Material Cost	DSO Capacity	Total Placing Hours
RT CE Optical Bank/Shelf	[redacted]	24	0
CE Bank/Shelf Common Equip. (Integrated)	[redacted]	24	0
CE Bank/Shelf Common Equip. (Universal)	[redacted]	24	0
TSI	[redacted]	NA	NA
TSI Protect	[redacted]	NA	NA
RT channel bank /Shelf (Metallic)	[redacted]	NA	NA
Channel Bank/Shelf CE	[redacted]	NA	NA
ADSL Common Equipment	[redacted]	1	0
HDSL Common Equipment	[redacted]	1	0
Optical ONU Bank/Shelf	[redacted]	NA	NA
Optical Shelf CE	[redacted]	NA	NA
Optical Line Units	[redacted]	NA	NA
DSX Panel	[redacted]	NA	NA
Batteries, Environ. Equip., Etc.	[redacted]	NA	NA
Bay	[redacted]	NA	NA
ONU Cabinet (e.g. CAD-12)	[redacted]	24	0
Cabinet Small (includes Batt. Etc.)	[redacted]	NA	NA
Cabinet Medium (includes Batt. Etc.)	[redacted]	NA	NA
Cabinet Large (includes Batt. Etc.)	[redacted]	NA	NA
Cabinet Xtra Large (includes Batt. Etc.)	[redacted]	NA	NA
Mini-Hut	[redacted]	NA	NA
Maxi -Hut	[redacted]	NA	NA
CEV 16	[redacted]	NA	NA
CEV 24	[redacted]	NA	NA

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Information - Channel (DLC/ONU-DLCRT)

Item	Equipment Category	UOM
POTS	Plug-in	POTS
POTSX	Plug-in	POTSX
COIN	Plug-in	COIN
COINX	Plug-in	COINX
BRI-ISDN	Plug-in	BRI-ISDN
BRI-ISDNX	Plug-in	BRI-ISDNX
CENTREX	Plug-in	CENTREX
CENTREXX	Plug-in	CENTREXX
SW-VGSS	Plug-in	SW-VGSS
SW-VGSSX	Plug-in	SW-VGSSX
NSW-VGSS	Plug-in	NSW-VGSS
NSW-VGSSX	Plug-in	NSW-VGSSX
4-WIRE	Plug-in	4-WIRE
4-WIREX	Plug-in	4-WIREX
DS1	Plug-in	DS1
DS1X	Plug-in	DS1X
HDSL	Plug-in	HDSL
HDSLX	Plug-in	HDSLX
ADSL	Plug-in	ADSL
ADSLX	Plug-in	ADSLX
PBX	Plug-in	PBX
PBXX	Plug-in	PBXX

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Information - CE (DLC/ONU-DLCRT)

Item	Equipment Category	UOM
RT CE Optical Bank/Shelf	Hardwired	All
CE Bank/Shelf Common Equip. (Integrated)	Common	All
CE Bank/Shelf Common Equip. (Universal)	Common	All
TSI	Common	All
TSI Protect	Common	All
RT channel bank /Shelf (Metallic)	Hardwired	All
Channel Bank/Shelf CE	Common	All
ADSL Common Equipment	Common	ADSL
HDSL Common Equipment	Common	HDSL
Optical ONU Bank/Shelf	Hardwired	All
Optical Shelf CE	Common	ONU
Optical Line Units	Common	ONU
DSX Panel	Hardwired	All
Batteries, Environ. Equip., Etc.	Hardwired	All
Bay	Hardwired	All
ONU Cabinet (e.g. CAD-12)	Hardwired	All
Cabinet Small (includes Batt. Etc.)	Hardwired	All
Cabinet Medium (includes Batt. Etc.)	Hardwired	All
Cabinet Large (includes Batt. Etc.)	Hardwired	All
Cabinet Xtra Large (includes Batt. Etc.)	Hardwired	All
Mini-Hut	Hut	All
Maxi -Hut	Hut	All
CEV 16	CEV	All
CEV 24	CEV	All

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DLC/SONET SubFRC (DLC/ONU-Other)

Item	COT SubFRC	RT SubFRC	Customer Premise SubFRC
CEV	0	0	0
Combined	15	0	0
Common	6	40	22
Hardwired	3	37	19
Hut	0	0	0
Plug-in	12	46	28

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DLC/SONET FRC (DLC/ONU-Other)

Item	FRC
CEV	4C
COT	257C
Hut	10C
POP	357C
RT	257C

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DLC Vendor Mix (DLC/ONU-Other)

DLC Type	Vendor "A"	Vendor "B"
Integrated	[redacted]	
ONU		
Universal		

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COT Fiber Termination (DLC/ONU-Other)

Plant Type	Type or Size	Material Cost
Fiber Terminating Frame	6	[redacted]
Fiber Terminating Frame	12	
Fiber Terminating Frame	24	
Fiber Terminating Frame	48	
Fiber Terminating Frame	72	
Fiber Terminating Frame	96	
Fiber Terminating Frame	144	
Fiber Terminating Frame	216	

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Underground Urban Excavation Activity (Excavation Activity)

Excavation Activity	Normal Terrain: % of Activity	SoftRock Terrain: % of Activity	HardRock: % of Activity	Water: % of Activity
Backhoe Trench	0	0	0	0
Bore Cable	0	0	0	0
Cut & Restore Asphalt	0	0	0	0
Cut & Restore Concrete	0	0	0	0
Cut & Restore Sod	0	0	0	0
Free Trench (i.e. Developer)	0	0	0	0
Hand Dig Trench	0	0	0	0
Push Pipe & Pull Cable	0	0	0	0

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Underground Suburban Excavation Activity (Excavation Activity)

Excavation Activity	Normal Terrain: % of Activity	SoftRock Terrain: % of Activity	HardRock: % of Activity	Water: % of Activity
Backhoe Trench	0	0	0	0
Bore Cable	0	0	0	0
Cut & Restore Asphalt	0	0	0	0
Cut & Restore Concrete	0	0	0	0
Cut & Restore Sod	0	0	0	0
Free Trench (i.e. Developer)	0	0	0	0
Hand Dig Trench	0	0	0	0
Push Pipe & Pull Cable	0	0	0	0

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Underground Rural Excavation Activity (Excavation Activity)

Excavation Activity	Normal Terrain: % of Activity	SoftRock Terrain: % of Activity	HardRock: % of Activity	Water: % of Activity
Backhoe Trench	0	0	0	0
Bore Cable	0	0	0	0
Cut & Restore Asphalt	0	0	0	0
Cut & Restore Concrete	0	0	0	0
Cut & Restore Sod	0	0	0	0
Free Trench (i.e. Developer)	0	0	0	0
Hand Dig Trench	0	0	0	0
Push Pipe & Pull Cable	0	0	0	0

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Buried Urban Excavation Activity (Excavation Activity)

Excavation Activity	Normal: % of Activity	SoftRock: % of Activity	HardRock: % of Activity	Water: % of Activity
Backhoe Trench	0	0	0	0
Bore Cable	0	0	0	0
Cut & Restore Asphalt	0	0	0	0
Cut & Restore Concrete	0	0	0	0
Cut & Restore Sod	0	0	0	0
Free Trench (i.e. Developer)	0	0	0	0
Hand Dig Trench	0	0	0	0
Plow	0	0	0	0
Push Pipe & Pull Cable	0	0	0	0
Rocky Plow	0	0	0	0
Rocky Trench	0	0	0	0
Trench & Backfill	0	0	0	0

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Buried Suburban Excavation Activity (Excavation Activity)

Excavation Activity	Normal: % of Activity	SoftRock: % of Activity	HardRock: % of Activity	Water: % of Activity
Backhoe Trench	0	0	0	0
Bore Cable	0	0	0	0
Cut & Restore Asphalt	0	0	0	0
Cut & Restore Concrete	0	0	0	0
Cut & Restore Sod	0	0	0	0
Free Trench (i.e. Developer)	0	0	0	0
Hand Dig Trench	0	0	0	0
Plow	0	0	0	0
Push Pipe & Pull Cable	0	0	0	0
Rocky Plow	0	0	0	0
Rocky Trench	0	0	0	0
Trench & Backfill	0	0	0	0

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Buried Rural Excavation Activity (Excavation Activity)

Excavation Activity	Normal: % of Activity	SoftRock: % of Activity	HardRock: % of Activity	Water: % of Activity
Backhoe Trench	0	0	0	0
Bore Cable	0	0	0	0
Cut & Restore Asphalt	0	0	0	0
Cut & Restore Concrete	0	0	0	0
Cut & Restore Sod	0	0	0	0
Free Trench (i.e. Developer)	0	0	0	0
Hand Dig Trench	0	0	0	0
Plow	0	0	0	0
Push Pipe & Pull Cable	0	0	0	0
Rocky Plow	0	0	0	0
Rocky Trench	0	0	0	0
Trench & Backfill	0	0	0	0

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Terrain (Terrain)

Rule	Value	Description	UOM
CriticalWaterDepth	3	Depth in feet at which water impacts placement costs	Feet
NormalUGBuriedCover	24	Minimum Cover Depth in inches for Buried/Underground Copper Cable	Inches
NormalFiberCover	36	Minimum Cover Depth in inches for Buried/Underground Fiber	Inches

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Soil (Terrain)

Texture	Impact	Description of Texture
	0	Blank
BY	1	Bouldery
BY-C	1	Bouldery & Clay
BY-CL	1	Bouldery & Clay Loam
BY-COS	1	Bouldery & Course Sand
BY-COSL	1	Bouldery & Course Sandy Loam
BY-FS	1	Bouldery & Fine Sand
BY-FSL	1	Bouldery & Fine Sandy Loam
BY-L	1	Bouldery & Loam
BY-LCOS	1	Bouldery & Loamy Course Sand
BY-LFS	1	Bouldery & Loamy Fine Sand
BY-LS	1	Bouldery & Sandy Loam
BY-MPT	1	Bouldery & Mucky Peat
BY-MUCK	1	Bouldery & Muck
BY-S	1	Bouldery & Sand
BY-SC	1	Bouldery & Sandy Clay
BY-SCL	1	Bouldery & Sandy Clay Loam
BY-SIC	1	Bouldery & Silty Clay
BY-SICL	1	Bouldery & Silty Clay Loam
BY-SIL	1	Bouldery & Silty Loam
BY-SL	1	Bouldery & Sandy Loam
BY-VFS	1	Bouldery & Very Fine Sand
BY-VFSL	1	Bouldery & Very Fine Sandy Loam
BYV	1	Very Bouldery
BYV-C	1	Very Bouldery & Clay
BYV-CL	1	Very Bouldery & Clay Loam
BYV-COS	1	Very Bouldery & Course Sand
BYV-COSL	1	Very Bouldery & Course Sandy Loam
BYV-FS	1	Very Bouldery & Fine Sand
BYV-FSL	1	Very Bouldery & Fine Sandy Loam
BYV-L	1	Very Bouldery & Loamy
BYV-LCOS	1	Very Bouldery & Loamy Course Sand
BYV-LFS	1	Very Bouldery & Loamy Fine Sand
BYV-LS	1	Very Bouldery & Loamy Sand
BYV-MPT	1	Very Bouldery & Mucky Peat
BYV-MUCK	1	Very Bouldery & Muck
BYV-S	1	Very Bouldery & Sand
BYV-SC	1	Very Bouldery & Sandy Clay
BYV-SCL	1	Very Bouldery & Sandy Clay Loam
BYV-SIC	1	Very Bouldery & Silty Clay
BYV-SICL	1	Very Bouldery & Silty Clay Loam
BYV-SIL	1	Very Bouldery & Silt Loam
BYV-SL	1	Very Bouldery & Sandy Loam
BYV-VFS	1	Very Bouldery & Very Fine Sand
BYV-VFSL	1	Very Bouldery & Very Fine Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
BYX	1	Extremely Bouldery
BYX-C	1	Extremely Bouldery & Clay
BYX-CL	1	Extremely Bouldery & Clay Loam
BYX-COS	1	Extremely Bouldery & Course Sand
BYX-COSL	1	Extremely Bouldery & Course Sandy Loam
BYX-FS	1	Extremely Bouldery & Fine Sand
BYX-FSL	1	Extremely Bouldery & Fine Sandy Loam
BYX-L	1	Extremely Bouldery & Loam
BYX-LCOS	1	Extremely Bouldery & Loamy Course Sand
BYX-LFS	1	Extremely Bouldery & Loamy Fine Sand
BYX-LS	1	Extremely Bouldery & Loamy Sand
BYX-MPT	1	Extremely Bouldery & Mucky Peat
BYX-MUCK	1	Extremely Bouldery & Muck
BYX-S	1	Extremely Bouldery & Sand
BYX-SC	1	Extremely Bouldery & Sandy Clay
BYX-SCL	1	Extremely Bouldery & Sandy Clay Loam
BYX-SIC	1	Extremely Bouldery & Silty Clay
BYX-SICL	1	Extremely Bouldery & Silty Clay Loam
BYX-SIL	1	Extremely Bouldery & Silt Loam
BYX-SL	1	Extremely Bouldery & Sandy Loam
BYX-VFS	1	Extremely Bouldery & Very Fine Sand
BYX-VFSL	1	Extremely Bouldery & Very Fine Sandy Loam
C	0	Clay
CB	0	Cobbly
CBA	1	Angular Cobbly
CBA-FSL	1	Angular Cobbly & Fine Sandy Loam
CB-C	0	Cobbly & Clay
CB-CL	0	Cobbly & Clay Loam
CB-COS	0	Cobbly & Course Sand
CB-COSL	0	Cobbly & Coarse Sandy Loam
CB-FS	0	Cobbly & Fine Sand
CB-FSL	0	Cobbly & Fine Sandy Loam
CB-L	0	Cobbly & Loamy
CB-LCOS	0	Cobbly & Loamy Course Sand
CB-LFS	0	Cobbly & Loamy Fine Sand
CB-LS	0	Cobbly & Loamy Sand
CB-MPT	0	Cobbly & Mucky Peat
CB-MUCK	0	Cobbly & Mucky
CB-S	0	Cobbly & Sand
CB-SC	0	Cobbly & Sandy Clay
CB-SCL	0	Cobbly & Sandy Clay Loam
CB-SIC	0	Cobby & Silty Clay
CB-SICL	0	Cobbly & Silty Clay Loam
CB-SIL	0	Cobbly & Silt Loam
CB-SL	0	Cobbly & Sandy Loam
CB-VFS	0	Cobbly & Very Find Sand
CB-VFSL	0	Cobbly & Very Find Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
CBV	1	Very Cobbly
CBV-C	1	Very Cobbly & Clay
CBV-CL	1	Very Cobbly & Clay Loam
CBV-COS	1	Very Cobbly & Course Sand
CBV-COSL	1	Very Cobbly & Coarse Sandy Loam
CBV-FS	1	Very Cobbly & Fine Sand
CBV-FSL	1	Very Cobbly & Fine Sandy Loam
CBV-L	1	Very Cobbly & Loamy
CBV-LCOS	1	Very Cobbly & Loamy Course Sand
CBV-LFS	1	Very Cobbly & Loamy Fine Sand
CBV-LS	1	Very Cobbly & Loamy Sand
CBV-MPT	1	Very Cobbly & Mucky Peat
CBV-MUCK	1	Very Cobbly & Mucky
CBV-S	1	Very Cobbly & Sand
CBV-SC	1	Very Cobbly & Sandy Clay
CBV-SCL	1	Very Cobbly & Sandy Clay Loam
CBV-SIC	1	Very Cobby & Silty Clay
CBV-SICL	1	Very Cobbly & Silty Clay Loam
CBV-SIL	1	Very Cobbly & Silt Loam
CBV-SL	1	Very Cobbly & Sandy Loam
CBV-VFS	1	Very Cobbly & Very Find Sand
CBV-VFSL	1	Very Cobbly & Very Find Sandy Loam
CBX	1	Extremely Cobbly
CBX-C	1	Extremely Cobbly & Clay
CBX-CL	1	Extremely Cobbly & Clay Loam
CBX-COS	1	Extremely Cobbly & Course Sand
CBX-COSL	1	Extremely Cobbly & Course Sandy Loam
CBX-FS	1	Extremely Cobbly & Fine Sand
CBX-FSL	1	Extremely Cobbly & Fine Sandy Loam
CBX-L	1	Extremely Cobbly & Loamy
CBX-LCOS	1	Extremely Cobbly & Loamy Course Sand
CBX-LFS	1	Extremely Cobbly & Loamy Fine Sand
CBX-LS	1	Extremely Cobbly & Loamy Sand
CBX-MPT	1	Extremely Cobbly & Mucky Peat
CBX-MUCK	1	Extremely Cobbly & Muck
CBX-S	1	Extremely Cobbly & Sand
CBX-SC	1	Extremely Cobbly & Sandy Clay
CBX-SCL	1	Extremely Cobbly & Sandy Clay Loam
CBX-SIC	1	Extremely Cobbly & Silty Clay
CBX-SICL	1	Extremely Cobbly & Silty Clay Loam
CBX-SIL	1	Extremely Cobbly & Silt Loam
CBX-SL	1	Extremely Cobbly & Sandy Loam
CBX-VFS	1	Extremely Cobbly & Very Fine Sand
CBX-VFSL	1	Extremely Cobbly Very Fine Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
CE	0	Coprogenous Earth
CIND	0	Cinders
CL	0	Clay Loam
CM	1	Cemented
CN	0	Channery
CN-C	0	Channery & Silty Loam
CN-CL	0	Channery & Clay Loam
CN-COS	0	Channery & Course Sand
CN-COSL	0	Channery & Course Sandy Loam
CN-FS	0	Channery & Fine Sand
CN-FSL	0	Channery & Fine Sandy Loam
CN-L	0	Channery & Loamy
CN-LCOS	0	Channery & Loamy Course Sand
CN-LFS	0	Channery & Loamy Fine Sand
CN-LS	0	Channery & Loamy Sand
CN-MPT	0	Channery & Mucky Peat
CN-MUCK	0	Channery & Muck
CN-S	0	Channery & Sand
CN-SC	0	Channery & Sandy Clay
CN-SCL	0	Channery & Sandy Clay Loam
CN-SIC	0	Channery & Silty Clay
CN-SICL	0	Channery & Silty Clay Loam
CN-SIL	0	Channery & Silt Loam
CN-SL	0	Channery & Sandy Loam
CN-VFS	0	Channery & Very Fine Sand
CN-VFSL	0	Channery & Very Fine Sandy Loam
CNV	0	Very Channery
CNV-C	0	Very Channery & Clay
CNV-CL	0	Very Channery & Clay Loam
CNV-COS	0	Very Channery & Course Sand
CNV-COSL	0	Very Channery & Course Sandy Loam
CNV-FS	0	Very Channery & Find Sand
CNV-FSL	0	Very Channery & Fine Sandy Loam
CNV-L	0	Very Channery & Loam
CNV-LCOS	0	Very Channery & Loamy Course Sand
CNV-LFS	0	Very Channery & Loamy Fine Sand
CNV-LS	0	Very Channery & Loamy Sand
CNV-MPT	0	Very Channery & Mucky Peat
CNV-MUCK	0	Very Channery & Mucky Peat
CNV-S	0	Very Channery & Sand
CNV-SC	0	Very Channery & Sandy Clay
CNV-SCL	0	Very Channery & Sandy Clay Loam
CNV-SIC	0	Very Channery & Silty Clay
CNV-SICL	0	Very Channery & Silty Clay Loam
CNV-SIL	0	Very Channery & Silt Loam
CNV-SL	0	Very Channery & Sandy Loam
CNV-VFS	0	Very Channery & Very Fine Sand
CNV-VFSL	0	Very Channery & Very Fine Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
CNX	0	Extremely Channery
CNX-C	0	Extremely Channery & Clay
CNX-CL	0	Extremely Channery & Clay Loam
CNX-COS	0	Extremely Channery & Course Sand
CNX-COSL	0	Extremely Channery & Course Sandy Loam
CNX-FS	0	Extremely Channery & Fine Sand
CNX-FSL	0	Extremely Channery & Fine Sandy Loam
CNX-L	0	Extremely Channery & Loamy
CNX-LCOS	0	Extremely Channery & Loamy Course Sand
CNX-LFS	0	Extremely Channery & Loamy Fine Sand
CNX-LS	0	Extremely Channery & Loamy Sand
CNX-MPT	0	Extremely Channery & Mucky Peat
CNX-MUCK	0	Extremely Channery & Muck
CNX-S	0	Extremely Channery & Sand
CNX-SC	0	Extremely Channery & Sandy Clay
CNX-SCL	0	Extremely Channery & sandy Clay Loam
CNX-SIC	0	Extremely Channery & Silty Clay
CNX-SICL	0	Extremely Channery & Silty Clay Loam
CNX-SIL	0	Extremely Channery & Silt Loam
CNX-SL	0	Extremely Channery & Sandy Loam
CNX-VFS	0	Extremely Channery & Very Fine Sand
CNX-VFSL	0	Extremely Channery & Very Fine Sandy Loam
COS	0	Coarse Sand
COSL	0	Coarse Sandy Loam
CR	0	Cherty
CRC	1	Coarse Cherty
CR-C	1	Cherty & Clay
CR-CL	1	Cherty & Clay Loam
CR-COS	1	Cherty & Course Sand
CR-COSL	1	Cherty & Course Sandy Loam
CR-FS	1	Cherty & Fine Sand
CR-FSL	1	Cherty & Fine Sandy Loam
CR-L	1	Cherty & Loam
CR-LCOS	1	Cherty & Loamy Course Sand
CR-LFS	1	Cherty & Loamy Fine Sand
CR-LS	1	Cherty & Loamy Sand
CR-MPT	1	Cherty & Mucky Peat
CR-MUCK	1	Cherty & Muck
CR-S	1	Cherty & Sand
CR-SC	1	Cherty & Sandy Clay
CR-SCL	1	Cherty & Sandy Clay Loam
CR-SIC	1	Cherty & Silty Clay
CR-SICL	1	Cherty & Silty Clay Loam
CR-SIL	1	Cherty & Silty Loam
CR-SL	1	Cherty & Sandy Loam
CR-VFS	1	Cherty & Very Fine Sand
CR-VFSL	1	Cherty & Very Fine Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
CRV	1	Very Cherty
CRV-C	1	Very Cherty & Clay
CRV-CL	1	Very Cherty & Clay Loam
CRV-COS	1	Very Cherty & Course Sand
CRV-COSL	1	Very Cherty & Course Sandy Loam
CRV-FS	1	Very Cherty & Fine Sand
CRV-FSL	1	Very Cherty & Fine Sandy Loam
CRV-L	1	Very Cherty & Loamy
CRV-LCOS	1	Very Cherty & Loamy Course Sand
CRV-LFS	1	Very Cherty & Loamy Fine Sand
CRV-LS	1	Very Cherty & Loamy Sand
CRV-MPT	1	Very Cherty & Mucky Peat
CRV-MUCK	1	Very Cherty & Muck
CRV-S	1	Very Cherty & Sand
CRV-SC	1	Very Cherty & Sandy Clay
CRV-SCL	1	Very Cherty & Sandy Clay Loam
CRV-SIC	1	Very Cherty & Silty Clay
CRV-SICL	1	Very Cherty & Silty Clay Loam
CRV-SIL	1	Very Cherty & Silt Loam
CRV-SL	1	Very Cherty & Sandy Loam
CRV-VFS	1	Very Cherty & Very Fine Sand
CRV-VFSL	1	Very Cherty & Very Fine Sandy Loam
CRX	1	Extremely Cherty
CRX-C	1	Extremely Cherty & Clay
CRX-CL	1	Extremely Cherty & Clay Loam
CRX-COS	1	Extremely Cherty & Course Sand
CRX-COSL	1	Extremely Cherty & Course Sandy Loam
CRX-FS	1	Extremely Cherty & Fine Sand
CRX-FSL	1	Extremely Cherty & Fine Sandy Loam
CRX-L	1	Extremely Cherty & Loamy
CRX-LCOS	1	Extremely Cherty & Loamy Course Sand
CRX-LFS	1	Extremely Cherty & Loamy Fine Sand
CRX-LS	1	Extremely Cherty & Loamy Sand
CRX-MPT	1	Extremely Cherty & Mucky Peat
CRX-MUCK	1	Extremely Cherty & Muck
CRX-S	1	Extremely Cherty & Sand
CRX-SC	1	Extremely Cherty & Sandy Clay
CRX-SCL	1	Extremely Cherty & Sandy Clay Loam
CRX-SIC	1	Extremely Cherty & Silty Clay
CRX-SICL	1	Extremely Cherty & Silty Clay Loam
CRX-SIL	1	Extremely Cherty & Silt Loam
CRX-SL	1	Extremely Cherty & Sandy Loam
CRX-VFS	1	Extremely Cherty & Very Fine Sand
CRX-VFSL	1	Extremely Cherty & Very Fine Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
DE	0	Diotomaceous Earth
FB	0	Fibric Material
FINE	0	Fine
FL	0	Flaggy
FL-C	0	Flaggy & Clay
FL-CL	0	Flaggy & Clay Loam
FL-COS	0	Flaggy & Course Sand
FL-COSL	0	Flaggy & Course Sandy Loam
FL-FS	0	Flaggy & Fine Sand
FL-FSL	0	Flaggy & Fine Sandy Loam
FL-L	0	Flaggy & Loamy
FL-LCOS	0	Flaggy & Loamy Course Sand
FL-LFS	0	Flaggy & Loamy Fine Sand
FL-LS	0	Flaggy & Loamy Sand
FL-MPT	0	Flaggy & Mucky Peat
FL-MUCK	0	Flaggy & Muck
FL-S	0	Flaggy & Sand
FL-SC	0	Flaggy & Sandy Clay
FL-SCL	0	Flaggy & Sandy Clay Loam
FL-SIC	0	Flaggy & Silty Clay
FL-SICL	0	Flaggy & Silty Clay Loam
FL-SIL	0	Flaggy & Silt Loam
FL-SL	0	Flaggy & Sandy Loam
FL-VFS	0	Flaggy & Very Fine Sand
FL-VFSL	0	Flaggy & Very Fine Sandy Loam
FLV	1	Very Flaggy
FLV-C	1	Very Flaggy & Clay
FLV-CL	1	Very Flaggy & Clay Loam
FLV-COS	1	Very Flaggy & Course Sand
FLV-COSL	1	Very Flaggy & Course Sandy Loam
FLV-FS	1	Very Flaggy & Fine Sand
FLV-FSL	1	Very Flaggy & Fine Sandy Loam
FLV-L	1	Very Flaggy & Loamy
FLV-LCOS	1	Very Flaggy & Loamy Course Sand
FLV-LFS	1	Very Flaggy & Loamy Fine Sand
FLV-LS	1	Very Flaggy & Loamy Sand
FLV-MPT	1	Very Flaggy & Mucky Peat
FLV-MUCK	1	Very Flaggy & Muck
FLV-S	1	Very Flaggy & Sand
FLV-SC	1	Very Flaggy & Sandy Clay
FLV-SCL	1	Very Flaggy & Silty Clay
FLV-SIC	1	Very Flaggy & Silty Clay
FLV-SICL	1	Very Flaggy & Silt Clay Loam
FLV-SIL	1	Very Flaggy & Silt Loam
FLV-SL	1	Very Flaggy & Sandy Loam
FLV-VFS	1	Very Flaggy & Very Fine Sand
FLV-VFSL	1	Very Flaggy & Very Fine Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
FLX	1	Extremely Flaggy
FLX-C	1	Extremely Flaggy & Clay
FLX-CL	1	Extremely Flaggy & Clay Loam
FLX-COS	1	Extremely Flaggy & Course Sand
FLX-COSL	1	Extremely Flaggy & Course Sandy Loam
FLX-FS	1	Extremely Flaggy & Fine Sand
FLX-FSL	1	Extremely Flaggy & Fine Sandy Loam
FLX-L	1	Extremely Flaggy & Laomy
FLX-LCOS	1	Extremely Flaggy & Loamy Course Sand
FLX-LFS	1	Extremely Flaggy & Loamy Fine Sand
FLX-LS	1	Extremely Flaggy & Loamy Sand
FLX-MPT	1	Extremely Flaggy & Mucky Peat
FLX-MUCK	1	Extremely Flaggy & Muck
FLX-S	1	Extremely Flaggy & Sand
FLX-SC	1	Extremely Flaggy & Sandy Clay
FLX-SCL	1	Extremely Flaggy & Sandy Clay Loam
FLX-SIC	1	Extremely Flaggy & Silty Clay
FLX-SICL	1	Extremely Flaggy & Silty Clay Loam
FLX-SIL	1	Extremely Flaggy & Silt Loam
FLX-SL	1	Extremely Flaggy & Sandy Loam
FLX-VFS	1	Extremely Flaggy & Very Fine Sand
FLX-VFSL	1	Extremely Flaggy & very Fine Sandy Loam
FRAG	0	Fragmental Material
FS	0	Fine Sand
FSL	0	Fine Sandy Loam
G	0	Gravel
GR	0	Gravelly
GRC	0	Course Gravelly
GR-C	0	Gravel & Clay
GR-CL	0	Gravel & Clay Loam
GR-COS	0	Gravel & Course Sand
GR-COSL	0	Gravel & Coarse Sandy Loam
GR-FS	0	Gravel & Fine Sand
GR-FSL	0	Gravel & Fine Sandy Loam
GR-L	0	Gravel & Loamy
GR-LCOS	0	Gravel & Loamy Course Sand
GR-LFS	0	Gravel & Loamy Fine Sand
GR-LS	0	Gravel & Loamy Sand
GR-MPT	0	Gravel & Mucky Peat
GR-MUCK	0	Gravel & Mucky
GR-S	0	Gravel & Sand
GR-SC	0	Gravel & Sandy Clay
GR-SCL	0	Gravel & Sandy Clay Loam
GR-SIC	0	Gravel & Silty Clay
GR-SICL	0	Gravel & Slity Clay Loam
GR-SIL	0	Gravel & Slity Loam
GR-SL	0	Gravel & Sandy Loam
GR-VFS	0	Gravel & Very Fine
GR-VFSL	0	Gravel & Very Fine Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
GRF	0	Fine Gravel
GRF-C	0	Fine Gravel & Clay
GRF-CL	0	Fine Gravel & Clay Loam
GRF-COS	0	Fine Gravel & Course Sand
GRF-COSL	0	Fine Gravel & Coarse Sandy Loam
GRF-FS	0	Fine Gravel & Fine Sand
GRF-FSL	0	Fine Gravel & Fine Sandy Loam
GRF-L	0	Fine Gravel & Loamy
GRF-LCOS	0	Fine Gravel & Loamy Course Sand
GRF-LFS	0	Fine Gravel & Loamy Fine Sand
GRF-LS	0	Fine Gravel & Loamy Sand
GRF-MPT	0	Fine Gravel & Mucky Peat
GRF-MUCK	0	Fine Gravel & Mucky
GRF-S	0	Fine Gravel & Sand
GRF-SC	0	Fine Gravel & Sandy Clay
GRF-SCL	0	Fine Gravel & Sandy Clay Loam
GRF-SIC	0	Fine Gravel & Silty Clay
GRF-SICL	0	Fine Gravel & Slity Clay Loam
GRF-SIL	0	Fine Gravel & Slity Loam
GRF-SL	0	Fine Gravel & Sandy Loam
GRF-VFSL	0	Fine Gravel & Very Fine Sandy
GRF-VFSL	0	Fine Gravel & Very Fine Sandy Loam
GRV	1	Very Gravelly
GRV-C	1	Very Gravelly & Clay
GRV-CL	1	Very Gravelly & Clay Loam
GRV-COS	1	Very Gravelly & Course Sand
GRV-COSL	1	Very Gravelly & Coarse Sandy Loam
GRV-FS	1	Very Gravelly & Fine Sand
GRV-FSL	1	Very Gravelly & Fine Sandy Loam
GRV-L	1	Very Gravelly & Loamy
GRV-LCOS	1	Very Gravelly & Loamy Course Sand
GRV-LFS	1	Very Gravelly & Loamy Fine Sand
GRV-LS	1	Very Gravelly & Loamy Sand
GRV-MPT	1	Very Gravelly & Mucky Peat
GRV-MUCK	1	Very Gravelly & Mucky
GRV-S	1	Very Gravelly & Sand
GRV-SC	1	Very Gravelly & Sandy Clay
GRV-SCL	1	Very Gravelly & Sandy Clay Loam
GRV-SIC	1	Very Gravelly & Silty Clay
GRV-SICL	1	Very Gravelly & Slity Clay Loam
GRV-SIL	1	Very Gravelly & Slity Loam
GRV-SL	1	Very Gravelly & Sandy Loam
GRV-VFSL	1	Very Gravelly & Very Fine Sandy
GRV-VFSL	1	Very Gravelly & Very Fine Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
GRX	1	Extremely Gravelly
GRX-C	1	Extremely Gravelly & Clay
GRX-CL	1	Extremely Gravelly & Clay Loam
GRX-COS	1	Extremely Gravelly & Course Sand
GRX-COSL	1	Extremely Gravelly & Coarse Sandy Loam
GRX-FS	1	Extremely Gravelly & Fine Sand
GRX-FSL	1	Extremely Gravelly & Fine Sandy Loam
GRX-L	1	Extremely Gravelly & Loamy
GRX-LCOS	1	Extremely Gravelly & Loamy Course Sand
GRX-LFS	1	Extremely Gravelly & Loamy Fine Sand
GRX-LS	1	Extremely Gravelly & Loamy Sand
GRX-MPT	1	Extremely Gravelly & Mucky Peat
GRX-MUCK	1	Extremely Gravelly & Mucky
GRX-S	1	Extremely Gravelly & Sand
GRX-SC	1	Extremely Gravelly & Sandy Clay
GRX-SCL	1	Extremely Gravelly & Sandy Clay Loam
GRX-SIC	1	Extremely Gravelly & Silty Clay
GRX-SICL	1	Extremely Gravelly & Slity Clay Loam
GRX-SIL	1	Extremely Gravelly & Slity Loam
GRX-SL	1	Extremely Gravelly & Sandy Loam
GRX-VFSL	1	Extremely Gravelly & Very Fine Sandy
GRX-VFSL	1	Extremely Gravelly & Very Fine Sandy Loam
GYP	1	Gypsiferous Material
HM	0	Hemic Material
ICE	1	Ice or Frozen Soil
IND	1	Indurated
L	0	Loam
LCOS	0	Loamy Course Sand
LFS	0	Loamy Fine Sand
LS	0	Loamy Sand
LVFS	0	Loamy Very Fine Sand
MARL	0	Marl
MEDIUM COURSE	0	Medium Course
MK	0	Mucky
MK-C	0	Mucky & Clay
MK-CL	0	Mucky & Clay Loam
MK-COS	0	Mucky & Course Sand
MK-COSL	0	Mucky & Coarse Sandy Loam
MK-FS	0	Mucky & Fine Sand
MK-FSL	0	Mucky & Fine Sandy Loam
MK-L	0	Mucky & Loamy
MK-LCOS	0	Mucky & Loamy Course Sand
MK-LFS	0	Mucky & Loamy Fine Sand
MK-LS	0	Mucky & Loamy Sand
MK-MPT	0	Mucky & Mucky Peat
MK-MUCK	0	Mucky & Mucky

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Soil (Terrain)

Texture	Impact	Description of Texture
MK-S	0	Mucky & Sand
MK-SC	0	Mucky & Sandy Clay
MK-SCL	0	Mucky & Sandy Clay Loam
MK-SIC	0	Mucky & Silty Clay
MK-SICL	0	Mucky & Slity Clay Loam
MK-SIL	0	Mucky & Slity Loam
MK-SL	0	Mucky & Sandy Loam
MK-VFSL	0	Mucky & Very Fine Sandy
MK-VFSL	0	Mucky & Very Fine Sandy Loam
MPT	0	Mucky Peat
MUCK	0	Muck
PEAT	0	Peat
PT	0	Peaty
RB	1	Rubbly
RB-FSL	1	Rubbly Fine Sandy Loam
S	0	Sand
SC	0	Sandy Clay
SCL	0	Sandy Clay Loam
SG	0	Sand & Gravel
SH	0	Shaly
SH-C	0	Shaly & Clay
SH-CL	0	Shaly & Clay Loam
SH-COS	0	Shaly & Course Sand
SH-COSL	0	Shaly & Coarse Sandy Loam
SH-FS	0	Shaly & Fine Sand
SH-FSL	0	Shaly & Fine Sandy Loam
SH-L	0	Shaly & Loamy
SH-LCOS	0	Shaly & Loamy Course Sand
SH-LFS	0	Shaly & Loamy Fine Sand
SH-LS	0	Shaly & Loamy Sand
SH-MPT	0	Shaly & Mucky Peat
SH-MUCK	0	Shaly & Mucky
SH-S	0	Shaly & Sand
SH-SC	0	Shaly & Sandy Clay
SH-SCL	0	Shaly & Sandy Clay Loam
SH-SIC	0	Shaly & Silty Clay
SH-SICL	0	Shaly & Slity Clay Loam
SH-SIL	0	Shaly & Slity Loam
SH-SL	0	Shaly & Sandy Loam
SH-VFSL	0	Shaly & Very Fine Sandy
SH-VFSL	0	Shaly & Very Fine Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
SHV	1	Very Shaly
SHV-C	1	Very Shaly & Clay
SHV-CL	1	Very Shaly & Clay Loam
SHV-COS	1	Very Shaly & Course Sand
SHV-COSL	1	Very Shaly & Coarse Sandy Loam
SHV-FS	1	Very Shaly & Fine Sand
SHV-FSL	1	Very Shaly & Fine Sandy Loam
SHV-L	1	Very Shaly & Loamy
SHV-LCOS	1	Very Shaly & Loamy Course Sand
SHV-LFS	1	Very Shaly & Loamy Fine Sand
SHV-LS	1	Very Shaly & Loamy Sand
SHV-MPT	1	Very Shaly & Mucky Peat
SHV-MUCK	1	Very Shaly & Mucky
SHV-S	1	Very Shaly & Sand
SHV-SC	1	Very Shaly & Sandy Clay
SHV-SCL	1	Very Shaly & Sandy Clay Loam
SHV-SIC	1	Very Shaly & Silty Clay
SHV-SICL	1	Very Shaly & Slity Clay Loam
SHV-SIL	1	Very Shaly & Slity Loam
SHV-SL	1	Very Shaly & Sandy Loam
SHV-VFSL	1	Very Shaly & Very Fine Sandy
SHV-VFSL	1	Very Shaly & Very Fine Sandy Loam
SHX	1	Extremely Shaly
SHX-C	1	Extremely Shaly & Clay
SHX-CL	1	Extremely Shaly & Clay Loam
SHX-COS	1	Extremely Shaly & Course Sand
SHX-COSL	1	Extremely Shaly & Coarse Sandy Loam
SHX-FS	1	Extremely Shaly & Fine Sand
SHX-FSL	1	Extremely Shaly & Fine Sandy Loam
SHX-L	1	Extremely Shaly & Loamy
SHX-LCOS	1	Extremely Shaly & Loamy Course Sand
SHX-LFS	1	Extremely Shaly & Loamy Fine Sand
SHX-LS	1	Extremely Shaly & Loamy Sand
SHX-MPT	1	Extremely Shaly & Mucky Peat
SHX-MUCK	1	Extremely Shaly & Mucky
SHX-S	1	Extremely Shaly & Sand
SHX-SC	1	Extremely Shaly & Sandy Clay
SHX-SCL	1	Extremely Shaly & Sandy Clay Loam
SHX-SIC	1	Extremely Shaly & Silty Clay
SHX-SICL	1	Extremely Shaly & Slity Clay Loam
SHX-SIL	1	Extremely Shaly & Slity Loam
SHX-SL	1	Extremely Shaly & Sandy Loam
SHX-VFSL	1	Extremely Shaly & Very Fine Sandy
SHX-VFSL	1	Extremely Shaly & Very Fine Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
SI	0	Silt
SIC	0	Silty Clay
SICL	0	Silty Clay Loam
SIL	0	Silt Loam
SL	0	Sandy Loam
SP	0	Sapric Material
SR	0	Stratified
ST	0	Stony
ST-C	0	Stony & Clay
ST-CL	0	Stony & Clay Loam
ST-COS	0	Stony & Course Sand
ST-COSL	0	Stony & Coarse Sandy Loam
ST-FS	0	Stony & Fine Sand
ST-FSL	0	Stony & Fine Sandy Loam
ST-L	0	Stony & Loamy
ST-LCOS	0	Stony & Loamy Course Sand
ST-LFS	0	Stony & Loamy Fine Sand
ST-LS	0	Stony & Loamy Sand
ST-MPT	0	Stony & Mucky Peat
ST-MUCK	0	Stony & Mucky
ST-S	0	Stony & Sand
ST-SC	0	Stony & Sandy Clay
ST-SCL	0	Stony & Sandy Clay Loam
ST-SIC	0	Stony & Silty Clay
ST-SICL	0	Stony & Slity Clay Loam
ST-SIL	0	Stony & Slity Loam
ST-SL	0	Stony & Sandy Loam
ST-VFSL	0	Stony & Very Fine Sandy
ST-VFSL	0	Stony & Very Fine Sandy Loam
STV	1	Very Stony
STV-C	1	Very Stony & Clay
STV-CL	1	Very Stony & Clay Loam
STV-COS	1	Very Stony & Course Sand
STV-COSL	1	Very Stony & Coarse Sandy Loam
STV-FS	1	Very Stony & Fine Sand
STV-FSL	1	Very Stony & Fine Sandy Loam
STV-L	1	Very Stony & Loamy
STV-LCOS	1	Very Stony & Loamy Course Sand
STV-LFS	1	Very Stony & Loamy Fine Sand
STV-LS	1	Very Stony & Loamy Sand
STV-MPT	1	Very Stony & Mucky Peat
STV-MUCK	1	Very Stony & Mucky
STV-S	1	Very Stony & Sand
STV-SC	1	Very Stony & Sandy Clay
STV-SCL	1	Very Stony & Sandy Clay Loam
STV-SIC	1	Very Stony & Silty Clay

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Soil (Terrain)

Texture	Impact	Description of Texture
STV-SICL	1	Very Stony & Slity Clay Loam
STV-SIL	1	Very Stony & Slity Loam
STV-SL	1	Very Stony & Sandy Loam
STV-VFSL	1	Very Stony & Very Fine Sandy
STV-VFSL	1	Very Stony & Very Fine Sandy Loam
STX	1	Extremely Stony
STX-C	1	Extremely Stony & Clay
STX-CL	1	Extremely Stony & Clay Loam
STX-COS	1	Extremely Stony & Course Sand
STX-COSL	1	Extremely Stony & Coarse Sandy Loam
STX-FS	1	Extremely Stony & Fine Sand
STX-FSL	1	Extremely Stony & Fine Sandy Loam
STX-L	1	Extremely Stony & Loamy
STX-LCOS	1	Extremely Stony & Loamy Course Sand
STX-LFS	1	Extremely Stony & Loamy Fine Sand
STX-LS	1	Extremely Stony & Loamy Sand
STX-MPT	1	Extremely Stony & Mucky Peat
STX-MUCK	1	Extremely Stony & Mucky
STX-S	1	Extremely Stony & Sand
STX-SC	1	Extremely Stony & Sandy Clay
STX-SCL	1	Extremely Stony & Sandy Clay Loam
STX-SIC	1	Extremely Stony & Silty Clay
STX-SICL	1	Extremely Stony & Slity Clay Loam
STX-SIL	1	Extremely Stony & Slity Loam
STX-SL	1	Extremely Stony & Sandy Loam
STX-VFSL	1	Extremely Stony & Very Fine Sandy
STX-VFSL	1	Extremely Stony & Very Fine Sandy Loam
SY	1	Slaty
SY-C	1	Slaty & Clay
SY-CL	1	Slaty & Clay Loam
SY-COS	1	Slaty & Course Sand
SY-COSL	1	Slaty & Coarse Sandy Loam
SY-FS	1	Slaty & Fine Sand
SY-FSL	1	Slaty & Fine Sandy Loam
SY-L	1	Slaty & Loamy
SY-LCOS	1	Slaty & Loamy Course Sand
SY-LFS	1	Slaty & Loamy Fine Sand
SY-LS	1	Slaty & Loamy Sand
SY-MPT	1	Slaty & Mucky Peat
SY-MUCK	1	Slaty & Mucky
SY-S	1	Slaty & Sand
SY-SC	1	Slaty & Sandy Clay
SY-SCL	1	Slaty & Sandy Clay Loam
SY-SIC	1	Slaty & Silty Clay
SY-SICL	1	Slaty & Slity Clay Loam
SY-SIL	1	Slaty & Slity Loam
SY-SL	1	Slaty & Sandy Loam
SY-VFSL	1	Slaty & Very Fine Sandy
SY-VFSL	1	Slaty & Very Fine Sandy Loam

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Soil (Terrain)

Texture	Impact	Description of Texture
SYV	1	Very Slaty
SYV-C	1	Very Slaty & Clay
SYV-CL	1	Very Slaty & Clay Loam
SYV-COS	1	Very Slaty & Course Sand
SYV-COSL	1	Very Slaty & Coarse Sandy Loam
SYV-FS	1	Very Slaty & Fine Sand
SYV-FSL	1	Very Slaty & Fine Sandy Loam
SYV-L	1	Very Slaty & Loamy
SYV-LCOS	1	Very Slaty & Loamy Course Sand
SYV-LFS	1	Very Slaty & Loamy Fine Sand
SYV-LS	1	Very Slaty & Loamy Sand
SYV-MPT	1	Very Slaty & Mucky Peat
SYV-MUCK	1	Very Slaty & Mucky
SYV-S	1	Very Slaty & Sand
SYV-SC	1	Very Slaty & Sandy Clay
SYV-SCL	1	Very Slaty & Sandy Clay Loam
SYV-SIC	1	Very Slaty & Silty Clay
SYV-SICL	1	Very Slaty & Slity Clay Loam
SYV-SIL	1	Very Slaty & Slity Loam
SYV-SL	1	Very Slaty & Sandy Loam
SYV-VFSL	1	Very Slaty & Very Fine Sandy
SYV-VFSL	1	Very Slaty & Very Fine Sandy Loam
STX	1	Extremely Stony
STX-C	1	Extremely Stony & Clay
STX-CL	1	Extremely Stony & Clay Loam
STX-COS	1	Extremely Stony & Course Sand
STX-COSL	1	Extremely Stony & Coarse Sandy Loam
STX-FS	1	Extremely Stony & Fine Sand
STX-FSL	1	Extremely Stony & Fine Sandy Loam
STX-L	1	Extremely Stony & Loamy
STX-LCOS	1	Extremely Stony & Loamy Course Sand
STX-LFS	1	Extremely Stony & Loamy Fine Sand
STX-LS	1	Extremely Stony & Loamy Sand
STX-MPT	1	Extremely Stony & Mucky Peat
STX-MUCK	1	Extremely Stony & Mucky
STX-S	1	Extremely Stony & Sand
STX-SC	1	Extremely Stony & Sandy Clay
STX-SCL	1	Extremely Stony & Sandy Clay Loam
STX-SIC	1	Extremely Stony & Silty Clay
STX-SICL	1	Extremely Stony & Slity Clay Loam
STX-SIL	1	Extremely Stony & Slity Loam
STX-SL	1	Extremely Stony & Sandy Loam
STX-VFSL	1	Extremely Stony & Very Fine Sandy
STX-VFSL	1	Extremely Stony & Very Fine Sandy Loam
UNK	0	Unknown
UWB	1	Unweathered Bedrock
VAR	0	Variable
VFS	0	Very Fine Sand
VFSL	0	Very Fine Sandy loam
WB	1	Weathered Bedrock

Underground Sharing (Plant Sharing)

Excavation Activity	Urban Shared Percent Assigned to Telephone	Suburb Shared Percent Assigned to Telephone	Rural Shared Percent Assigned to Telephone
Backhoe Trench	0	0	0
Bore Cable	0	0	0
Cut & Restore Asphalt	0	0	0
Cut & Restore Concrete	0	0	0
Cut & Restore Sod	0	0	0
Free Trench (i.e. Developer)	0	0	0
Hand Dig Trench	0	0	0
Push Pipe & Pull Cable	0	0	0

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Media Sharing (Plant Sharing)

Cable Size	Cable Structure %	Fiber Structure %
0	0.5	0.5
200	0.5	0.5
900	0.5	0.5
2400	0.5	0.5
4200	0.5	0.5
>4200	0.5	0.5

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Buried Sharing (Plant Sharing)

Excavation Activity	Urban: % Telco	Suburban: % Telco	Rural: % Telco
Backhoe Trench	0	0	0
Bore Cable	0	0	0
Cut & Restore Asphalt	0	0	0
Cut & Restore Concrete	0	0	0
Cut & Restore Sod	0	0	0
Free Trench (i.e. Developer)	0	0	0
Hand Dig Trench	0	0	0
Plow	0	0	0
Push Pipe & Pull Cable	0	0	0
Rocky Plow	0	0	0
Rocky Trench	0	0	0
Trench & Backfill	0	0	0

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Aerial Sharing (Plant Sharing)

Density	Poles: % Telco
0	0
5	0
100	0
200	0
650	0
850	0
2550	0
5000	0
10000	0

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Underground Spacing (Engineering Rules)

Structure	Type or Size	Spacing
Manholes	1	300
Manholes	2	600
Manholes	3	900
Manholes	5	900

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Plant Mix (Engineering Rules)

Density Lower Range	Density Upper Range	Density Group	Cost Family	Water Table	Bedrock Depth	Terrain Difficulty	CLLI	Percent Aerial	Percent Buried	Percent Underground	Order of Processing
0	5	*	DEI	* DDO:	1000	*	*	0.4	0.6	0	1
5	100	*	DEI	* DDO:	1000	*	*	0.37	0.62	0.01	2
100	200	*	DEI	* DDO:	1000	*	*	0.3	0.68	0.02	3
200	650	*	DEI	* DDO:	1000	*	*	0.3	0.66	0.04	4
650	850	*	DEI	* DDO:	1000	*	*	0.3	0.62	0.08	5
850	2550	*	DEI	* DDO:	1000	*	*	0.3	0.5	0.2	6
2550	5000	*	DEI	* DDO:	1000	*	*	0.3	0.3	0.4	7
5000	10000	*	DEI	* DDO.	1000	*	*	0.3	0.1	0.6	8
10000	10000000	*	DEI	* DDO:	1000	*	*	0.1	0	0.9	9
0	5	*	FCI	* DDO:	1000	*	*	0.45	0.5	0.05	10
5	100	*	FCI	* DDO:	1000	*	*	0.45	0.5	0.05	11
100	200	*	FCI	* DDO:	1000	*	*	0.45	0.5	0.05	12
200	650	*	FCI	* DDO:	1000	*	*	0.4	0.4	0.2	13
650	850	*	FCI	* DDO:	1000	*	*	0.3	0.3	0.4	14
850	2550	*	FCI	* DDO:	1000	*	*	0.15	0.25	0.6	15
2550	5000	*	FCI	* DDO:	1000	*	*	0.1	0.15	0.75	16
5000	10000	*	FCI	* DDO:	1000	*	*	0.05	0	0.95	17
10000	10000000	*	FCI	* DDO:	1000	*	*	0.05	0.05	0.9	18

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Outside Contractor Use (Engineering Rules)

Network Element	Use Contractor Allowed
BuildingCable	■
Conduit	■
DLC-COT	■
DLC-RT	■
DropAndNID	■
DTBT	■
FDI	■
FITL	■
Manhole	■
Media	■
ONU	■
Poles	■
SONET	■
Trench	■

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Network Rules (Engineering Rules)

Rule	Value	UOM
AWG24/26GaugeXover	12000	Feet
AllLocalChannelServicesToFO	Yes	
BuildToWhat	HouseholdsOnLocsWithWorkingLines	Text
CSA24/26GaugeXover	9000	Feet
CustomerGrowthFactor	0	Percent
DesignPairsPerHU	2	Pairs
DistributionSizingRoutine	PairsPerHouse	Text
DS1XoverToFlatLot	5	DS1s
FDICableDesignPairsPerHU	1.5	Factor
HiCapNodesPerSONETRing	5	Nodes
MaximumCUCableSize	4000	Pairs
MaximumFOSize	216	Strands
MinFDITODLCAANDistance	8	Feet
MinFOStrandsPerONU	12	Strands
MinFOStrandsPerRing	6	Strands
MinimumCUCableSize	25	Pairs
MinimumFOSize	12	Strands
MinimumPairsPerBusiness	6	Pairs
PoleSizeWithoutSharing	40	Feet
PoleSizeWithSharing	40	Feet
TR008BusConcentrationRatio	1	
TR008ResConcentrationRatio	2	
TR303BusConcentrationRatio	3	
TR303ResConcentrationRatio	4	
WaterDepthCeWHutXover	0	Feet

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[illegible]S Rules (Engineering Rules)

Rule	Value	UOM
[illegible]LineDesignLimit	[illegible]00	Lines
[illegible]LineMinimumLimit	10	Lines
[illegible]pperLengthDesignLimit	[illegible]000	Feet
[illegible]pperLengthHardLimit	[illegible]000	Feet
[illegible]C-LengthDesignLimit	[illegible]000	Feet
[illegible]C-LengthHardLimit	[illegible]000	Feet
[illegible]C LineDesignLimit	[illegible]00	Lines
[illegible]C LineMinimumLimit	10	Lines
[illegible]E-THHDesignLimit	6	HH
[illegible]LineDesignLimit	900	Lines
[illegible]ioDLCXcverBus	400	DS0
[illegible]ioDLCXcverTotal	[illegible]000	DS0
[illegible]DropLen	700	Feet
[illegible]LotWidth	50	Feet
[illegible]oBTDTXcver	5	Lines
[illegible]berNodesPerRing	4	Nodes
[illegible]ActualCustomerLocations	Yes	Text
[illegible]ActualNetworkLocations	No	Text
[illegible]RectilinearDrop	No	Text

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FDI and BT Engineering (Engineering Rules)

Rule Name	Rule	Value
CrossOverFrom66to303	Cross-over from 66 type to 303 type (In Pairs)	7200
BTOutInRatio	Indoor building terminal In/Out Ratio	2
FDIOutInRatioIndoor	Indoor SAI In/Out Ratio	3
FDIOutInRatioOutdoor	Outdoor SAI In/Out Ratio	3

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Excavation Cost Density Adjustment (Engineering Rules)

Plant Type	Density Group Adjustment Factor
Buried	Rural
Underground	Rural
Buried	Suburban
Underground	Suburban
Buried	Urban
Underground	Urban

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Electronic and Fiber Sizing (Engineering Rules)

Equipment	Engineering Fill
DistCUFill	1
DistFOFill	0.75
DLCCOTFill	0.8
DLCRTFill	0.7
DTFill	0.85
ElectronicFill	0.85
FDIFill	0.9
FdrCUFill	0.75
FdrFOFill	0.75
SonetRTFill	0.85

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DLC Technology (Engineering Rules)

Integrated/ Universal	Lower Limit on DSO's	Upper Limit on DSO's	Density Lower Range	Density Upper Range	Order Of Processing
Universal	0	0	0	100000000	1
ONU	0	24	0	100000000	2
Integrated008	24	150	0	100000000	3
Integrated303	150	100000	0	100000000	4

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Copper Cable Sizing (Engineering Rules)

Density	Feeder	Distribution
0	0.7	0.5
5	0.775	0.5
100	0.8	0.5
200	0.825	0.5
650	0.825	0.5
850	0.825	0.5
2550	0.825	0.5
5000	0.825	0.5
10000	0.825	0.5

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Building Cable Rules (Engineering Rules)

Rule	Value
AvgLengthEntranceCable	10
AvgLengthFloortoFloor	25
AvgLinesPerFloor	25
PctTelcoCabledBuildings	0.75

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Aerial Structure Spacing (Engineering Rules)

Plant Type	Size	Spacing
Poles	25	0
Poles	30	0
Poles	35	0
Poles	40	0
Poles	45	0
Poles	50	0
Poles	55	0
Poles	60	0
Anchor	NA	0
Guy (all types)	NA	0

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Underground Installation (Splicing And Placing Hours)

Structure	Type or Size	Telco Placing Labor Hours	Telco Contract Admin. & Inspect Labor Hrs.
Manholes	1	0	0
Manholes	1"	0	0
Manholes	1.25"	0	0
Manholes	2	0	0
Inner Duct	3	0	0
Inner Duct	5	0	0
Duct	CU	0	0
Duct	FO	0	0

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Media Splicing and Placing Hours (Splicing And Placing Hours)

Item	Closure and Setup (hours)	Placing (hours/100 ft)	Splice (hours/100 pairs or hours/strand)
AerialCU	0	0	0
AerialFO	0	0	0
Bldg/RiserCU	0	0	0
Bldg/RiserFO	0	0	0
BuriedCU	0	0	0
BuriedFO	0	0	0
FITLPower	0	0	0
UndergroundCU	0	0	0
UndergroundFO	0	0	0

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FDI Splicing Hours (Splicing And Placing Hours)

Item	Closure and Setup (hours)	Cross Connects (hours/100)	Splice (hours/100)
FDIAerial	0	0	0
FDIBuried	0	0	0
FDIIndoor	0	0	0
FDIUnderground	0	0	0

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FDI Placing Hours (Splicing And Placing Hours)

SAI Size	Aerial	Buried	Indoor	Underground
50	0	0	0	0
100	0	0	0	0
200	0	0	0	0
300	0	0	0	0
400	0	0	0	0
600	0	0	0	0
900	0	0	0	0
1000	0	0	0	0
1200	0	0	0	0
1400	0	0	0	0
1500	0	0	0	0
1800	0	0	0	0
2100	0	0	0	0
2400	0	0	0	0
2700	0	0	0	0
3000	0	0	0	0
3300	0	0	0	0
3600	0	0	0	0
4200	0	0	0	0
4800	0	0	0	0
5400	0	0	0	0
7200	0	0	0	0

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Excavation Inspection (Splicing And Placing Hours)

Structure	Type or Size	Telco Contract Admin. & Inspect Labor Hrs.
Excavation	Buried	0
Excavation	Underground	0

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DTBT Splicing and Placing Hours (Splicing And Placing Hours)

DTBT Size	Closure and Setup (Hrs)	Cross Connects (Hrs/100)	Splice (Hrs/100)
25	0	0	0
50	0	0	0
100	0	0	0
200	0	0	0
300	0	0	0
400	0	0	0
600	0	0	0
900	0	0	0

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Drop Placing Hours (Splicing And Placing Hours)

Item	Placing (Hrs/100 Ft)	Travel (Hrs)
AerialCU	0	1.18
BuriedCU	0	1.61
NIDCU	0	0.25

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Aerial Structural Placing Hours (Splicing And Placing Hours)

Plant Type	Size	Telco Placing Hours	Inspection Hours for Contract Labor
Poles	25	0	0
Poles	30	0	0
Poles	35	0	0
Poles	40	0	0
Poles	45	0	0
Poles	50	0	0
Poles	55	0	0
Poles	60	0	0
Anchor	NA	0	0
Guy (all types)	NA	0	0

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Service Local Channel (Lookup Tables)

Service Code
ha
ia
jb
ob
pb
rb

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Service Description (Lookup Tables)

Service Code	Service	Service Category	Preferred Media	Extended Range Cutover	Pair Equivalence	DSO Equivalence	Service Class	Channel Unit / Plug-in type	Clustered
A	2WG UV	NSW	CU	14800	1	1	Bus	POTS	Yes
a	LOCAL POTS/POTS-LIKE	NSW	CU	14800	1	1	?	POTS	Yes
B	2WVG UDL ADSL	NSW	CU	1000000	1	32	Bus	NA	Yes
b	PBX	NSW	CU	14800	1	1	Bus	PBX	Yes
C	2WVG UDL HDSL	NSW	CU	1000000	1	24	Bus	NA	Yes
c	CENTREX	NSW	CU	14800	1	1	Bus	CENTREX	Yes
D	2WVG UDL ISDN	NSW	CU	18000	1	3	Bus	BRI-ISDN	Yes
d	COIN SMART LINE	NSW	CU	14800	1	1	Bus	COIN	Yes
E	2WVG USL FEEDER	NSW	CU	14800	1	1	Bus	POTS	Yes
e	COIN REGULAR	NSW	CU	14800	1	1	Bus	COIN	Yes
f	ISDN LOC	NSW	CU	18000	1	3	?	BRI-ISDN	Yes
F	2WVG USL DISTRIBUTION	NSW	CU	1000000	1	1	Bus	NA	Yes
G	2WVG USL RISER	NSW	CU	1000000	1	1	Bus	NA	Yes
g	ISDN PBX	NSW	CU	18000	1	3	Bus	BRI-ISDN	Yes
H	2WVG U LOCAL CHANNEL(357C)	NSW	CU	14800	1	1	Bus	POTS	No
h	DSO 2W	NSW	CU	18000	1	1	Bus	NSW-VGSS	Yes
I	4WVG UD	NSW	CU	18000	2	2	Bus	4-WIRE	Yes
i	DSO 4W	NSW	CU	18000	2	2	Bus	4-WIRE	Yes
J	4WVG UDL (257C) HDSL	NSW	CU	18000	2	24	Bus	HDSL	Yes
j	SLV ANALOG 2W	NSW	CU	14800	1	1	Bus	POTS	Yes
k	DS1 DIGITAL MEGALINK ISDN	NSW	CU	18000	2	24	Bus	HDSL	Yes
K	4WVG UDL (257C) DS1	Wideband	CU	18000	2	24	Bus	HDSL	Yes
L	4WVG USLC DS1	NSW	CU	18000	2	24	Bus	HDSL	Yes
M	4WVG LOOP	NSW	CU	18000	2	2	Bus	4-WIRE	Yes
N	4WVG USL DISTRIBUTION	NSW	CU	1000000	2	2	Bus	NA	Yes
o	SLV ANALOG 4W	NSW	CU	18000	2	2	Bus	4-WIRE	Yes
O	4WVGA LOCAL CHANNEL(357C)	NSW	CU	18000	2	2	Bus	4-WIRE	No
p	DS1 DIGITAL ACCESS	Wideband	CU	18000	2	24	Bus	HDSL	Yes
P	UCL (357C) LOCAL CHANNEL DS1 DIGITAL	Wideband	CU	1000000	2	24	Bus	HDSL	No
Q	UCL 2W	NSW	CU	14800	1	1	Bus	NSW-VGSS	Yes
r	DS3 DIGITAL ACCESS	Wideband	FO	1000000	0	672	Bus	DS3	No
R	UCL 4W	NSW	CU	18000	2	2	Bus	4W	Yes
s	DS3 DIGITAL LIGHTGATE/VIDEO	Wideband	FO	1000000	0	672	Bus	DS3	No
S	ULL (257C) DS3	Wideband	FO	1000000	0	672	Bus	DS3	No
T	ULL (257C) OC3	Wideband	FO	1000000	0	2016	Bus	OC3	No
t	DS1 DIGITAL SWITCHED AREA COMM. PLAN	Wideband	CU	18000	2	24	Bus	HDSL	Yes
u	OTHER DSO/ANALOG 2W/4W	NSW	CU	18000	1	1	Bus	NSW-VGSS	Yes
U	ULL (257C) OC12	Wideband	FO	1000000	0	8064	Bus	OC12	No
v	DS3 DIGITAL SWITCHED AREA COMM PLAN, BST TRK SVC	Wideband	FO	1000000	0	672	Bus	DS3	No
V	ULL (257C) OC48	Wideband	FO	1000000	0	32256	Bus	OC48	No
W	U LOCAL CHANNEL (357C) DS3	Wideband	FO	1000000	0	672	Bus	OC1	No
X	U LOCAL CHANNEL (357C) OC3	Wideband	FO	1000000	0	2016	Bus	OC3	No
Y	U LOCAL CHANNEL (357C) OC12	Wideband	FO	1000000	0	8064	Bus	OC12	No
Z	U LOCAL CHANNEL (357C) OC48	Wideband	FO	1000000	0	32256	Bus	OC48	No

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Density Classification (Lookup Tables)

Density Classification	Density Lower Range	Density Upper Range	Density Group
1	0	5	Rural
2	5	100	Rural
3	100	200	Rural
4	200	650	Suburban
5	650	850	Suburban
6	850	2550	Suburban
7	2550	5000	Suburban
8	5000	10000	Urban
9	10000	100000000	Urban

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Customer Type (Lookup Tables)

Customer Type ID	Customer Type
B	Multi-line Business
C	Coin
P	Pbx
R	Residential
S	Single-line Business
X	Centrex
Y	Special

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Cost Family (Lookup Tables)

Cost Element	Cost Family
BLDGCABLE	Dist
CO	Fdr
DLC-COT	Fdr
DLC-RT	Fdr
Drop	Dist
DT-FDI	Dist
DTBT	Dist
FDI	Fdr
FDI-DLC	Fdr
NID	Dist
ONU	Dist

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Component (Lookup Tables)

Component Code	FRC	SubFRC	Cost Type
AerialCU	22C		VS
AerialCU24G	22C4		VS
AerialFO	822C		VS
BuildingCU	12C		VS
BuildingCU24G	12C4		VS
BuildingFO	812C		VS
Buried Suburban Excavation Act	12C		VS
BuriedCU	45C		VS
BuriedCU24G	45C4		VS
BuriedFO	845C		VS
BuriedTrenchCU	45C		S
BuriedTrenchCU24G	45C4		S
BuriedTrenchFO	845C		S
Conduit	4C		S
DLCCOT	257C		VS
DLCRT	257C		VS
IntrabuildingCU	52C		VS
IntrabuildingCU24G	52C4		VS
IntrabuildingFO	852C		VS
NIDCU	22C	1	VS
NIUCU	257C	19	VS
Pole	1C		S
UndergroundCU	5C		VS
UndergroundCU24G	5C4		VS
UndergroundFO	85C		VS

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Underground Contract Labor (Contract Labor)

Structure	Type or Size	Contract Labor Cost	District
Duct	CU	0	
Duct	FO	0	
Inner Duct	1"	0	
Inner Duct	1.25"	0	
Manholes	1	0	
Manholes	2	0	
Manholes	3	0	
Manholes	5	0	

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Excavation Contract Labor (Contract Labor)

Excavation Activity	Contract Labor Cost Buried	Contract Labor Cost Underground
Backhoe Trench	0	0
Bore Cable	0	0
Cut & Restore Asphalt	0	0
Cut & Restore Concrete	0	0
Cut & Restore Sod	0	0
Free Trench (i.e. Developer)	0	0
Hand Dig Trench	0	0
Plow	0	0
Push Pipe & Pull Cable	0	0
Rocky Plow	0	0
Rocky Trench	0	0
Trench & Backfill	0	0

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Drop/NID Contract Labor (Contract Labor)

Cost Element	Plant Type	Contract Labor Cost	Telco Inspect Hrs
Drop	Aerial	0	0
Drop	Buried	0	0
NID	NID	0	0

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Aerial Contract Labor (Contract Labor)

Plant Type	Size	Contract Labor Cost	Telco Inspect Hrs
Poles	25	0	0
Poles	30	0	0
Poles	35	0	0
Poles	40	0	0
Poles	45	0	0
Poles	50	0	0
Poles	55	0	0
Poles	60	0	0
Anchor	NA	0	0
Guy (all types)	NA	0	0

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Material Loading (Labor Rates And Loadings)

Factor	Rate
Miscellaneous Material	0
Engineering Percent	0
Supply Expense	0
Tax	0
MiscellaneousAerMaterial	0
MiscellaneousBurMaterial	0
MiscellaneousUgMaterial	0
MiscellaneousElecMaterial	0

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Labor Rate (Labor Rates And Loadings)

Type	Rate/ Hour	Labor Rate
Engineering	0	Engineering Plant or Test Direct Labor Costs/ Hour
Estimators	0	Estimators/Posting
Inspectors	0	Inspectors (Contract Administration-46)
LAC	0	Assignment (LAC)
Placing	29.97	Placing (44) Plant Direct Labor Costs per Hour
Splicing	0	Splicing (43) Plant Direct Labor Costs per Hour

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Underground Material (Material)

Structure	Item	Type or Size	Material Cost
Manholes	SB 30"x12"	1	0
Manholes	HH 3x5 or 4x6	2	0
Manholes	PTS 65 (6x8x4)	3	0
Manholes	38Y (6x12x7)	5	0
Duct	1-PTS-77-4"	CU	0
Inner Duct	1 1/4"	FO	0
Inner Duct	1"	FO	0
Duct	1-4" w/3 in-Du	FO	0

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NID/NIU (Material)

Plant Type	Type or Size	Material Cost
HDSLModem	1	140
NID	2	[redacted]
NID	6	
NIDIntandProt	1	
NIU	1	169.85

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Indoor FDI Terminals Primitives (Material)

Plant Type	Type	Item	Capacity	Material Cost
Indoor FDI Terminals	FDI66Connector	66 -type Punch-Down Connector Blocks (50 pair)	50	5.46
Indoor FDI Terminals	FDIBackboard	Backboard (In) (200 pair)	200	8.87
Indoor FDI Terminals	FDI189Protector	189 type Protector (100 pair)	100	307.81
Indoor FDI Terminals	FDI303Connector	303 type connector (100 pair includes coils)	100	0
Indoor FDI Terminals	FDI303Rack	Iron Racks for 303 (per 100 pair)	100	0

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FITL Power (Material)

Plant Type	Type or Size	Material Cost
Power Cable for FITL (22Gauge)	25	0
Power Cable for FITL (22Gauge)	50	0
Power Cable for FITL (22Gauge)	100	0

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Fiber Cable (Material)

Plant Type	Type or Size	Material Cost
Aerial	6	0.44
Aerial	12	0.53
Aerial	18	0.64
Aerial	24	0.72
Aerial	30	0.84
Aerial	32	0.88
Aerial	36	0.91
Aerial	44	1.08
Aerial	48	1.22
Aerial	60	1.35
Aerial	72	1.58
Aerial	84	1.75
Aerial	96	1.93
Aerial	108	2.15
Aerial	120	2.36
Aerial	132	2.56
Aerial	144	2.77
Aerial	156	2.96
Aerial	168	3.16
Aerial	216	3.97
Buried	6	0.44
Buried	12	0.53
Buried	18	0.64
Buried	24	0.72
Buried	30	0.84
Buried	32	0.88
Buried	36	0.91
Buried	44	1.08
Buried	48	1.22
Buried	60	1.35
Buried	72	1.58
Buried	84	1.75
Buried	96	1.93
Buried	108	2.15
Buried	120	2.36
Buried	132	2.56
Buried	144	2.77
Buried	156	2.96
Buried	168	3.16
Buried	216	3.97

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Fiber Cable (Material)

Plant Type	Type or Size	Material Cost
Riser/Intrabuilding	6	0.57
Riser/Intrabuilding	12	1.14
Riser/Intrabuilding	18	1.19
Riser/Intrabuilding	24	1.59
Riser/Intrabuilding	30	1.66
Riser/Intrabuilding	32	1.77
Riser/Intrabuilding	36	1.99
Riser/Intrabuilding	44	2.43
Riser/Intrabuilding	48	2.68
Riser/Intrabuilding	60	3.35
Riser/Intrabuilding	72	3.63
Riser/Intrabuilding	84	4.84
Riser/Intrabuilding	96	5.45
Riser/Intrabuilding	108	6.05
Riser/Intrabuilding	120	6.66
Riser/Intrabuilding	132	7.26
Riser/Intrabuilding	144	8.5
Riser/Intrabuilding	156	9.92
Riser/Intrabuilding	168	12.75
Riser/Intrabuilding	216	21.87
Underground	6	0.44
Underground	12	0.53
Underground	18	0.64
Underground	24	0.72
Underground	30	0.84
Underground	32	0.88
Underground	36	0.91
Underground	44	1.08
Underground	48	1.22
Underground	60	1.35
Underground	72	1.58
Underground	84	1.75
Underground	96	1.93
Underground	108	2.15
Underground	120	2.36
Underground	132	2.56
Underground	144	2.77
Underground	156	2.96
Underground	168	3.16
Underground	216	3.97

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FDI Terminals (Material)

Plant Type	Type or Size	Material Cost
Aerial	50	0
Aerial	100	139.52
Aerial	200	279.04
Aerial	300	418.56
Aerial	400	796.96
Aerial	600	1061.11
Aerial	900	1429.52
Aerial	1000	1489.8
Aerial	1200	1735.67
Aerial	1400	1953.28
Aerial	1500	2048.43
Aerial	1800	2240.25
Aerial	2100	2929.92
Aerial	2400	3348.48
Aerial	2700	3767.04
Aerial	3000	4185.6
Aerial	3300	4604.16
Aerial	3600	5022.72
Aerial	4200	5859.84
Aerial	4800	6696.96
Aerial	5400	7534.08
Aerial	7200	10045.44
Buried	50	0
Buried	100	150.09
Buried	200	300.18
Buried	300	450.27
Buried	400	976.38
Buried	600	1567.55
Buried	900	1758.38
Buried	1000	1328.36
Buried	1200	2135.97
Buried	1400	2101.26
Buried	1500	2263.17
Buried	1800	2921.51
Buried	2100	3221.89
Buried	2400	3367.71
Buried	2700	3929.32
Buried	3000	4047.41
Buried	3300	3841.3
Buried	3600	5243.07
Buried	4200	7862.27
Buried	4800	6558.79
Buried	5400	7212
Buried	7200	10806.48
Indoor	1	0

FDI Terminals (Material)

Plant Type	Type or Size	Material Cost
Underground	50	0
Underground	100	0
Underground	200	0
Underground	300	0
Underground	400	0
Underground	600	0
Underground	900	0
Underground	1000	0
Underground	1200	0
Underground	1400	0
Underground	1500	0
Underground	1800	0
Underground	2100	0
Underground	2400	0
Underground	2700	0
Underground	3000	0
Underground	3300	0
Underground	3600	0
Underground	4200	0
Underground	4800	0
Underground	5400	0
Underground	7200	0

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DTBT Material (Material)

Plant Type	Type or Size	Material Cost
Aerial	25	0
Aerial	50	0
Aerial	100	327.6
Aerial	200	646.33
Aerial	300	973.93
Aerial	400	1292.66
Aerial	600	1938.99
Aerial	900	2912.92
Buried	25	0
Buried	50	0
Buried	100	327.6
Buried	200	646.33
Buried	300	973.93
Buried	400	1292.66
Buried	600	1938.99
Buried	900	2912.92

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Drop (Material)

Plant Type	Type or Size	Material Cost
Aerial	2	0.0679
Aerial	6	0.1111
Buried	2	0.0691
Buried	5	0.1511

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Copper Cable 26 gauge (Material)

Plant Type	Type or Size	Material Cost
Aerial	25	0.31
Aerial	50	0.39
Aerial	100	0.61
Aerial	200	0.98
Aerial	300	1.38
Aerial	400	1.72
Aerial	600	2.53
Aerial	900	3.81
Aerial	1200	4.99
Aerial	1500	6.41
Aerial	1800	7.83
Aerial	2100	9.59
Aerial	2400	10.8
Aerial	2700	12.42
Aerial	3000	13.5
Aerial	3600	16.2
Aerial	4200	18.9
Buried	25	0.18
Buried	50	0.31
Buried	100	0.51
Buried	200	0.87
Buried	300	1.28
Buried	400	1.74
Buried	600	2.54
Buried	900	3.68
Buried	1200	4.77
Buried	1500	6.12
Buried	1800	7.28
Buried	2100	8.94
Buried	2400	10.21
Buried	2700	11.42
Buried	3000	12.69
Buried	3600	15.12
Buried	4200	17.64

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Copper Cable 26 gauge (Material)

Plant Type	Type or Size	Material Cost
Riser/Intrabuilding	25	0.31
Riser/Intrabuilding	50	0.39
Riser/Intrabuilding	100	0.61
Riser/Intrabuilding	200	0.98
Riser/Intrabuilding	300	1.38
Riser/Intrabuilding	400	1.72
Riser/Intrabuilding	600	3.64
Riser/Intrabuilding	900	3.81
Riser/Intrabuilding	1200	4.99
Riser/Intrabuilding	1500	6.41
Riser/Intrabuilding	1800	10.19
Riser/Intrabuilding	2100	9.59
Riser/Intrabuilding	2400	13.78
Riser/Intrabuilding	2700	15.94
Riser/Intrabuilding	3000	16.98
Riser/Intrabuilding	3600	20.38
Riser/Intrabuilding	4200	23.1
Underground	25	0.1
Underground	50	0.2
Underground	100	0.4
Underground	200	0.8
Underground	300	1.2
Underground	400	1.6
Underground	600	2.59
Underground	900	3.9
Underground	1200	4.54
Underground	1500	6
Underground	1800	7.09
Underground	2100	8.49
Underground	2400	8.97
Underground	2700	10.06
Underground	3000	11.34
Underground	3600	13.49
Underground	4200	18.74

Copper Cable 24 gauge (Material)

Plant Type	Type or Size	Material Cost
Aerial	25	0.32
Aerial	50	0.57
Aerial	100	0.74
Aerial	200	1.25
Aerial	300	1.68
Aerial	400	2.26
Aerial	600	3.38
Aerial	900	4.84
Aerial	1200	6.58
Aerial	1500	8.6
Aerial	1800	10.66
Aerial	2100	11.97
Aerial	2400	13.68
Aerial	2700	15.39
Aerial	3000	17.1
Aerial	3600	20.52
Aerial	4200	23.94
Buried	25	0.23
Buried	50	0.38
Buried	100	0.67
Buried	200	1.24
Buried	300	1.91
Buried	400	2.37
Buried	600	3.42
Buried	900	5.04
Buried	1200	6.74
Buried	1500	8.44
Buried	1800	10.04
Buried	2100	11.76
Buried	2400	13.44
Buried	2700	15.12
Buried	3000	16.8
Buried	3600	20.16
Buried	4200	23.52

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Copper Cable 24 gauge (Material)

Plant Type	Type or Size	Material Cost
Riser/Intrabuilding	25	0.36
Riser/Intrabuilding	50	0.54
Riser/Intrabuilding	100	0.98
Riser/Intrabuilding	200	1.63
Riser/Intrabuilding	300	2.5
Riser/Intrabuilding	400	3.2
Riser/Intrabuilding	600	4.42
Riser/Intrabuilding	900	6.65
Riser/Intrabuilding	1200	8.57
Riser/Intrabuilding	1500	10.75
Riser/Intrabuilding	1800	13.14
Riser/Intrabuilding	2100	15.33
Riser/Intrabuilding	2400	17.52
Riser/Intrabuilding	2700	19.71
Riser/Intrabuilding	3000	21.9
Riser/Intrabuilding	3600	26.28
Riser/Intrabuilding	4200	30.66
Underground	25	0.13
Underground	50	0.27
Underground	100	0.53
Underground	200	1.06
Underground	300	1.59
Underground	400	2.12
Underground	600	3.33
Underground	900	4.82
Underground	1200	6.45
Underground	1500	8
Underground	1800	9.79
Underground	2100	11.16
Underground	2400	12.75
Underground	2700	14.31
Underground	3000	15.9
Underground	3600	19.08
Underground	4200	22.26

Composite Fiber > 6K Ft (Material)

Plant Type	Fiber Size	Copper Pairs	Material Cost
Aerial Fiber (Includes strand)	2	5	0
Aerial Fiber (Includes strand)	6	12	0
Aerial Fiber (Includes strand)	12	25	0
Aerial Fiber (Includes strand)	18	36	0
Aerial Fiber (Includes strand)	24	50	0
Aerial Fiber (Includes strand)	36	75	0
Aerial Fiber (Includes strand)	48	100	0
Aerial Fiber (Includes strand)	72	150	0
Aerial Fiber (Includes strand)	96	200	0
Buried Fiber (Includes inner-duct)	2	5	0
Buried Fiber (Includes inner-duct)	6	12	0
Buried Fiber (Includes inner-duct)	12	25	0
Buried Fiber (Includes inner-duct)	18	36	0
Buried Fiber (Includes inner-duct)	24	50	0
Buried Fiber (Includes inner-duct)	36	75	0
Buried Fiber (Includes inner-duct)	48	100	0
Buried Fiber (Includes inner-duct)	72	150	0
Buried Fiber (Includes inner-duct)	96	200	0
Riser/IntraBldg Fiber (AR/Fire Resistant)	2	5	0
Riser/IntraBldg Fiber (AR/Fire Resistant)	6	12	0
Riser/IntraBldg Fiber (AR/Fire Resistant)	12	25	0
Riser/IntraBldg Fiber (AR/Fire Resistant)	18	36	0
Riser/IntraBldg Fiber (AR/Fire Resistant)	24	50	0
Riser/IntraBldg Fiber (AR/Fire Resistant)	36	75	0
Riser/IntraBldg Fiber (AR/Fire Resistant)	48	100	0
Riser/IntraBldg Fiber (AR/Fire Resistant)	72	150	0
Riser/IntraBldg Fiber (AR/Fire Resistant)	96	200	0
Underground Fiber	2	5	0
Underground Fiber	6	12	0
Underground Fiber	12	25	0
Underground Fiber	18	36	0
Underground Fiber	24	50	0
Underground Fiber	36	75	0
Underground Fiber	48	100	0
Underground Fiber	72	150	0
Underground Fiber	96	200	0

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Composite Fiber < 6K Ft (Material)

Plant Type	Fiber Size	Copper Pairs	Material Cost
Aerial	2	2	0
Aerial	6	6	0
Aerial	12	12	0
Aerial	18	18	0
Aerial	24	25	0
Aerial	36	36	0
Aerial	48	50	0
Aerial	72	75	0
Aerial	96	150	0
Buried	2	2	0
Buried	6	6	0
Buried	12	12	0
Buried	18	18	0
Buried	24	25	0
Buried	36	36	0
Buried	48	50	0
Buried	72	75	0
Buried	96	150	0
Riser/IntraBldg	2	2	0
Riser/IntraBldg	6	6	0
Riser/IntraBldg	12	12	0
Riser/IntraBldg	18	18	0
Riser/IntraBldg	24	25	0
Riser/IntraBldg	36	36	0
Riser/IntraBldg	48	50	0
Riser/IntraBldg	72	75	0
Riser/IntraBldg	96	150	0
Underground	2	2	0
Underground	6	6	0
Underground	12	12	0
Underground	18	18	0
Underground	24	25	0
Underground	36	36	0
Underground	48	50	0
Underground	72	75	0
Underground	96	150	0

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CO Investment Adder (Material)

Cost Family	Cost Element	Cost Component	FRC	Sub FRC	Material Investment per Service
CO	CO-Adder	2WLC-CO-Combined	357C	15	0.92
CO	CO-Adder	2WLC-CO-Common Plugs	357C	6	42.27
CO	CO-Adder	2WLC-CO-Def Plugs	357C	9	90.3
CO	CO-Adder	2WLC-CO-Hardwired	357C	3	61.19
CO	CO-Adder	2WLC-Prem- Def Plugs	357C	25	90.3
CO	CO-Adder	2WLC-Prem-Com Plugs	357C	22	43.95
CO	CO-Adder	2WLC-Prem-Hardwired	357C	19	63.43
CO	CO-Adder	4WLC-CO-Combined	357C	15	0.92
CO	CO-Adder	4WLC-CO-Common Plugs	357C	6	42.27
CO	CO-Adder	4WLC-CO-Def Plugs	357C	9	112.54
CO	CO-Adder	4WLC-CO-Hardwired	357C	3	61.19
CO	CO-Adder	4WLC-Prem-Com Plugs	357C	22	43.95
CO	CO-Adder	4WLC-Prem-Def Plugs	357C	25	112.54
CO	CO-Adder	4WLC-Prem-Hardwired	357C	19	63.43
CO	CO-Adder	A.12.5 DSX1	257C	0	6.03
CO	CO-Adder	CO Repeater	257C	0	189.28
CO	CO-Adder	CO Repeater Shelf	257C	0	115
CO	CO-Adder	DS1 Line Card - RT	257C	25	230
CO	CO-Adder	DS1LC-CO-Combined	357C	15	18.86
CO	CO-Adder	DS1LC-CO-Common Plug	357C	6	277.37
CO	CO-Adder	DS1LC-CO-Def Plugs	357C	9	148.88
CO	CO-Adder	DS1LC-CO-Hardwired	357C	3	24.85
CO	CO-Adder	DS1LC-Prem-Com Plug	357C	22	311.8
CO	CO-Adder	DS1LC-Prem-Def Plugs	357C	25	148.88
CO	CO-Adder	DS1LC-Prem-Hardwired	357C	19	70.55
CO	CO-Adder	DS1Loop Feeder-HDSL	257C	46	46.77
CO	CO-Adder	DSX1	257C	0	3.92
CO	CO-Adder	MDF-2Wire Combo	377C	5	3.38
CO	CO-Adder	MDF-2Wire Melded	377C	5	6.66
CO	CO-Adder	MDF-2Wire-Copper	377C	5	7.34
CO	CO-Adder	MDF-4Wire Combo	377C	5	6.76
CO	CO-Adder	MDF-4Wire Melded	377C	5	13.32
CO	CO-Adder	MDF-4Wire-Copper	377C	5	14.69
CO	CO-Adder	MDF-DS1	377C	3	5.13
CO	CO-Adder	T-P-2Wire-Common	357C	6	0.66
CO	CO-Adder	T-P-2Wire-Hardwire	357C	3	11.78
CO	CO-Adder	T-P-2Wire-Plugin	357C	9	45.36
CO	CO-Adder	T-P-4Wire-Common	357C	6	1.32
CO	CO-Adder	T-P-4Wire-Hardwire	357C	3	23.56
CO	CO-Adder	T-P-4Wire-Plugin	357C	9	90.71

Aerial Structure (Material)

Plant Type	Type or Size	Material Cost
Poles	25	0
Poles	30	0
Poles	35	0
Poles	40	0
Poles	45	0
Poles	50	0
Poles	55	0
Poles	60	0
Anchor	NA	0
Guy (All Types)	NA	0

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