

MK 1-27-03
DECLASSIFIED

011221

**Explanation of JPG - 4
 Impact of AT&T/WorldCom's Proposed Changes on BellSouth's Proposed Loop/Port Rates**

Description of Input Change*	Fixed (Loop/Port) Cost**			
	Zone 1	Zone 2	Zone 3	Average
- BellSouth Proposed Rates	\$ 14.92	\$ 19.40	\$ 50.16	\$ 19.26
1 Correct Structure Sharing Inputs	\$ 12.11	\$ 15.69	\$ 38.23	\$ 15.50
2 Eliminate Double-Count of Indirect Labor	\$ 11.79	\$ 15.36	\$ 37.65	\$ 15.17
3 Correct DLC In-Plant Factors	\$ 11.21	\$ 14.15	\$ 33.91	\$ 14.04
4 Correct Aerial Structure Quantities (Spacing)	\$ 11.13	\$ 14.01	\$ 33.14	\$ 13.90
5 Eliminate 25% Closing Factor and Correct Contract Labor Data	\$ 10.71	\$ 13.47	\$ 30.98	\$ 13.33
6 Eliminate Duplicate Facilities (Facility Sharing)	\$ 10.61	\$ 13.35	\$ 30.08	\$ 13.19
7 Correct Placement Cost Inputs	\$ 10.22	\$ 12.88	\$ 27.35	\$ 12.66
8 Correct Calculation Errors	\$ 9.55	\$ 12.10	\$ 23.73	\$ 11.81
9 Update Inflation Factors	\$ 9.14	\$ 11.62	\$ 22.78	\$ 11.33
10 Correct Treatment for Exempt Material	\$ 8.36	\$ 10.86	\$ 21.30	\$ 10.54
11 Correct Engineering Factors	\$ 7.93	\$ 10.31	\$ 20.27	\$ 10.01
12 Correct Placing and Splicing Inputs	\$ 6.53	\$ 9.19	\$ 19.70	\$ 8.82
- AT&T/WorldCom Proposed Rates	\$ 6.53	\$ 9.19	\$ 19.70	\$ 8.82

* Note: The confidential back-up information describing "Input Changes Necessary to Implement Each Proposed Modification is being filed with the summary

FLORIDA PUBLIC SERVICE COMMISSION
 DOCKET
 NO. 990649A-TP EXHIBIT NO. 70
 COMPANY/
 WITNESS
 DATE: 3/11/02

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**Explanation of JPG - 4
Back-Up Information
Inputs Necessary to Implement Each Proposed Modification**

Input Table	Element	Variable	BellSouth Input	Change 1 Structure Sharing	Change 2 Indirect Labor	Change 3 DLC Factors	Change 4 Aerial Facilities	Change 5 Closing Factor	Change 6 Facility Sharing	Change 7 Place Costs	Change 8 Calc Errors	Change 9 Inflation Factors	Change 10 Exempt Material	Change 11 Engineer Factors	Change 12 Place & Splice	Final Inputs
Media Splicing and Placing Hours	AerialCU	Closure and Setup (hours)	-												2.2500	2.2500
Media Splicing and Placing Hours	AerialCU	Placing (hours/100 ft)	1.2500												0.1800	0.1800
Media Splicing and Placing Hours	AerialCU	Splice (hours/100 pairs or hours/strand)	3.3200												0.4000	0.4000
Media Splicing and Placing Hours	BuriedCU	Closure and Setup (hours)	-												2.2500	2.2500
Media Splicing and Placing Hours	BuriedCU	Placing (hours/100 ft)	-												0.1100	0.1100
Media Splicing and Placing Hours	BuriedCU	Splice (hours/100 pairs or hours/strand)	3.0700												0.4000	0.4000
Media Splicing and Placing Hours	UndergroundCU	Closure and Setup (hours)	-												2.2500	2.2500
Media Splicing and Placing Hours	UndergroundCU	Placing (hours/100 ft)	2.5000												0.5800	0.5800
Media Splicing and Placing Hours	UndergroundCU	Splice (hours/100 pairs or hours/strand)	5.3200												0.4000	0.4000
Media Splicing and Placing Hours	AerialFO	Closure and Setup (hours)	-												2.2500	2.2500
Media Splicing and Placing Hours	AerialFO	Placing (hours/100 ft)	1.1700												0.1800	0.1800
Media Splicing and Placing Hours	AerialFO	Splice (hours/100 pairs or hours/strand)	0.0800												0.1000	0.1000
Media Splicing and Placing Hours	BuriedFO	Closure and Setup (hours)	-												2.2500	2.2500
Media Splicing and Placing Hours	BuriedFO	Placing (hours/100 ft)	-												0.1100	0.1100
Media Splicing and Placing Hours	BuriedFO	Splice (hours/100 pairs or hours/strand)	0.0850												0.1000	0.1000
Media Splicing and Placing Hours	UndergroundFO	Closure and Setup (hours)	-												2.2500	2.2500
Media Splicing and Placing Hours	UndergroundFO	Placing (hours/100 ft)	1.5000												0.5800	0.5800
Media Splicing and Placing Hours	UndergroundFO	Splice (hours/100 pairs or hours/strand)	0.1000												0.1000	0.1000
Material Loading	AerialCU	Engineering Rate	0.1252											0.0730		0.0730
Material Loading	AerialCU24G	Engineering Rate	0.1252											0.0730		0.0730
Material Loading	AerialFO	Engineering Rate	0.0799											0.0661		0.0661
Material Loading	BuildingCU	Engineering Rate	0.5274											0.0852		0.0852
Material Loading	BuildingCU24G	Engineering Rate	0.5274											0.0852		0.0852
Material Loading	BuildingFO	Engineering Rate	0.2517											0.0869		0.0869
Material Loading	BuriedCU	Engineering Rate	0.2076											0.1024		0.1024
Material Loading	BuriedCU24G	Engineering Rate	0.2076											0.1024		0.1024
Material Loading	BuriedFO	Engineering Rate	0.2290											0.1110		0.1110
Material Loading	IntrabuildingCU	Engineering Rate	0.3760											0.0786		0.0786
Material Loading	IntrabuildingCU24G	Engineering Rate	0.3760											0.0786		0.0786
Material Loading	IntrabuildingFO	Engineering Rate	0.0944											0.0918		0.0918
Material Loading	Pole	Engineering Rate	0.4190											0.0941		0.0941
Material Loading	UndergroundCU	Engineering Rate	0.0881											0.0741		0.0741
Material Loading	UndergroundCU24G	Engineering Rate	0.0881											0.0741		0.0741
Material Loading	UndergroundFO	Engineering Rate	0.0812											0.0462		0.0462
Material Loading	AerialCU	Other Rate	0.3429		0.0471											0.0471
Material Loading	AerialCU24G	Other Rate	0.3429		0.0471											0.0471
Material Loading	AerialFO	Other Rate	0.1448		0.0697											0.0697
Material Loading	BuildingCU	Other Rate	0.2737		0.0041											0.0041
Material Loading	BuildingCU24G	Other Rate	0.2737		0.0041											0.0041
Material Loading	BuildingFO	Other Rate	0.3487		0.0103											0.0103
Material Loading	BuriedCU	Other Rate	0.2264		0.0988											0.0988
Material Loading	BuriedCU24G	Other Rate	0.2264		0.0988											0.0988
Material Loading	BuriedFO	Other Rate	0.0937		0.0497											0.0497
Material Loading	IntrabuildingCU	Other Rate	0.4068		0.0164											0.0164
Material Loading	IntrabuildingCU24G	Other Rate	0.4068		0.0164											0.0164
Material Loading	IntrabuildingFO	Other Rate	0.5622		-											-
Material Loading	Pole	Other Rate	0.1616		0.1070											0.1070
Material Loading	UndergroundCU	Other Rate	0.2718		0.0331											0.0331
Material Loading	UndergroundCU24G	Other Rate	0.2718		0.0331											0.0331
Material Loading	UndergroundFO	Other Rate	0.0782		0.0345											0.0345
Material Loading	AerialCU	Material Inflation	1.0822									0.9625				0.9625
Material Loading	AerialCU24G	Material Inflation	1.0822									0.9625				0.9625
Material Loading	AerialFO	Material Inflation	1.0201									0.9789				0.9789
Material Loading	BuildingCU	Material Inflation	1.0822									0.9625				0.9625
Material Loading	BuildingCU24G	Material Inflation	1.0822									0.9625				0.9625
Material Loading	BuildingFO	Material Inflation	1.0201									0.9789				0.9789
Material Loading	BuriedCU	Material Inflation	1.0715									1.0098				1.0098
Material Loading	BuriedCU24G	Material Inflation	1.0715									1.0098				1.0098
Material Loading	BuriedFO	Material Inflation	1.0405									0.9789				0.9789
Material Loading	IntrabuildingCU	Material Inflation	1.0926									0.9515				0.9515
Material Loading	IntrabuildingCU24G	Material Inflation	1.0926									0.9515				0.9515
Material Loading	IntrabuildingFO	Material Inflation	1.0405									0.9789				0.9789
Material Loading	Pole	Material Inflation	1.0768									0.9616				0.9616
Material Loading	UndergroundCU	Material Inflation	1.0926									0.9735				0.9735
Material Loading	UndergroundCU24G	Material Inflation	1.0926									0.9735				0.9735
Material Loading	UndergroundFO	Material Inflation	1.0000									0.9789				0.9789
Material Loading	AerialCU	Misc. Material Rate	1.2126													-
Material Loading	AerialCU24G	Misc. Material Rate	1.2126													-

011223

**Explanation of JPG - 4
 Back-Up Information
 Inputs Necessary to Implement Each Proposed Modification**

Input Table	Element	Variable	BellSouth Input	Change 1 Structure Sharing	Change 2 Indirect Labor	Change 3 DLC Factors	Change 4 Aerial Facilities	Change 5 Closing Factor	Change 6 Facility Sharing	Change 7 Place Costs	Change 8 Calc Errors	Change 9 Inflation Factors	Change 10 Exempt Material	Change 11 Engineer Factors	Change 12 Place & Splice	Final Inputs
Material Loading	AerialFO	Misc. Material Rate	0.3058													
Material Loading	BuildingCU	Misc. Material Rate	1.1147													
Material Loading	BuildingCU24G	Misc. Material Rate	1.1147													
Material Loading	BuildingFO	Misc. Material Rate	1.4423													
Material Loading	BuriedCU	Misc. Material Rate	0.5265													
Material Loading	BuriedCU24G	Misc. Material Rate	0.5265													
Material Loading	BuriedFO	Misc. Material Rate	0.1830													
Material Loading	IntrabuildingCU	Misc. Material Rate	1.6332													
Material Loading	IntrabuildingCU24G	Misc. Material Rate	1.6332													
Material Loading	IntrabuildingFO	Misc. Material Rate	2.3442													
Material Loading	Pole	Misc. Material Rate	0.2244													
Material Loading	UndergroundCU	Misc. Material Rate	0.9890													
Material Loading	UndergroundCU24G	Misc. Material Rate	0.9890													
Material Loading	UndergroundFO	Misc. Material Rate	0.1798													
Aerial Structure	Poles 25	Material Cost	300.1603					239.3050								239.3100
Aerial Structure	Poles 30	Material Cost	300.1603					239.3050								239.3100
Aerial Structure	Poles 35	Material Cost	300.1603					239.3050								239.3100
Aerial Structure	Poles 40	Material Cost	300.1603					239.3050								239.3100
Aerial Structure	Poles 45	Material Cost	300.1603					239.3050								239.3100
Aerial Structure	Poles 50	Material Cost	300.1603					239.3050								239.3100
Aerial Structure	Poles 55	Material Cost	300.1603					239.3050								239.3100
Aerial Structure	Poles 60	Material Cost	300.1603					239.3050								239.3100
Aerial Contract Labor	Poles 25	Contract Labor Cost	233.1900					185.9125			147.6900		177.2280			177.2280
Aerial Contract Labor	Poles 30	Contract Labor Cost	233.1900					185.9125			147.6900		177.2280			177.2280
Aerial Contract Labor	Poles 35	Contract Labor Cost	233.1900					185.9125			147.6900		177.2280			177.2280
Aerial Contract Labor	Poles 40	Contract Labor Cost	233.1900					185.9125			147.6900		177.2280			177.2280
Aerial Contract Labor	Poles 45	Contract Labor Cost	233.1900					185.9125			147.6900		177.2280			177.2280
Aerial Contract Labor	Poles 50	Contract Labor Cost	233.1900					185.9125			147.6900		177.2280			177.2280
Aerial Contract Labor	Poles 55	Contract Labor Cost	233.1900					185.9125			147.6900		177.2280			177.2280
Aerial Contract Labor	Poles 60	Contract Labor Cost	233.1900					185.9125			147.6900		177.2280			177.2280
Aerial Contract Labor	Anchor	Contract Labor Cost	99.7100					79.4945								99.7100
Aerial Structural Placing Hours	Guy (all types)	Telco Placing Hours	0.7500										95.3934			95.3934
Labor Rate	Placing	Rate/Hour	49.0500								42.5523	42.0900	50.5080			50.5080
Labor Rate	Splicing	Rate/Hour	49.0500								42.5500	42.0900	50.5080			50.5080
Aerial Structure Spacing	Poles 25	Spacing	120.0000				184.0000									184.0000
Aerial Structure Spacing	Poles 30	Spacing	120.0000				184.0000									184.0000
Aerial Structure Spacing	Poles 35	Spacing	120.0000				184.0000									184.0000
Aerial Structure Spacing	Poles 40	Spacing	120.0000				184.0000									184.0000
Aerial Structure Spacing	Poles 45	Spacing	120.0000				184.0000									184.0000
Aerial Structure Spacing	Poles 50	Spacing	120.0000				184.0000									184.0000
Aerial Structure Spacing	Poles 55	Spacing	120.0000				184.0000									184.0000
Aerial Structure Spacing	Poles 60	Spacing	120.0000				184.0000									184.0000
Aerial Structure Spacing	Anchor	Spacing	500.0000				600.0000									600.0000
Aerial Structure Spacing	Guy (all types)	Spacing	500.0000				600.0000									600.0000
Underground Contract Labor	Duct CU	Softrock Contract Labor Cost	2.7700					2.2120			1.1480			0.8200		0.8200
Underground Contract Labor	Duct CU	Normal Contract Labor Cost	2.7700					2.2120			1.1480			0.8200		0.8200
Underground Contract Labor	Duct CU	Hardrock Contract Labor Cost	2.7700					2.2120			1.1480			0.8200		0.8200
Underground Contract Labor	Duct CU	Water Contract Labor Cost	2.7700					2.2120			1.1480			0.8200		0.8200
Underground Contract Labor	Duct FO	Softrock Contract Labor Cost	2.7700					2.2120			1.1480			0.8200		0.8200
Underground Contract Labor	Duct FO	Normal Contract Labor Cost	2.7700					2.2120			1.1480			0.8200		0.8200
Underground Contract Labor	Duct FO	Hardrock Contract Labor Cost	2.7700					2.2120			1.1480			0.8200		0.8200
Underground Contract Labor	Duct FO	Water Contract Labor Cost	2.7700					2.2120			1.1480			0.8200		0.8200
Underground Excavation Contract Labor	Backhoe Trench	Softrock Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Bore Cable	Softrock Contract Labor Cost	316.0800					252.1260		251.4400				179.6000		179.6016
Underground Excavation Contract Labor	Cut & Restore Asphalt	Softrock Contract Labor Cost	20.7800					16.7020		21.3640				15.2600		15.2629
Underground Excavation Contract Labor	Cut & Restore Concrete	Softrock Contract Labor Cost	20.7800					16.7020		19.6000				14.0000		14.0029
Underground Excavation Contract Labor	Cut & Restore Sod	Softrock Contract Labor Cost	20.7800					16.7020		17.1220				12.2300		12.2329
Underground Excavation Contract Labor	Hand Dig Trench	Softrock Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Rocky Trench	Softrock Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Trench & Backfill	Softrock Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Backhoe Trench	Normal Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Bore Cable	Normal Contract Labor Cost	316.0800					252.1260		251.4400				179.6000		179.6073
Underground Excavation Contract Labor	Cut & Restore Asphalt	Normal Contract Labor Cost	20.7800					16.7020		21.3640				14.0000		15.2629
Underground Excavation Contract Labor	Cut & Restore Concrete	Normal Contract Labor Cost	20.7800					16.7020		19.6000				14.0000		14.0029
Underground Excavation Contract Labor	Cut & Restore Sod	Normal Contract Labor Cost	20.7800					16.7020		17.1220				12.2300		12.2329
Underground Excavation Contract Labor	Hand Dig Trench	Normal Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Rocky Trench	Normal Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Trench & Backfill	Normal Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429

**Explanation of JPG - 4
Back-Up Information
Inputs Necessary to Implement Each Proposed Modification**

Input Table	Element	Variable	BellSouth Input	Change 1 Structure Sharing	Change 2 Indirect Labor	Change 3 DLC Factors	Change 4 Aerial Facilities	Change 5 Closing Factor	Change 6 Facility Sharing	Change 7 Place Costs	Change 8 Calc Errors	Change 9 Inflation Factors	Change 10 Exempt Material	Change 11 Engineer Factors	Change 12 Place & Splice	Final Inputs
Underground Excavation Contract Labor	Backhoe Trench	Hardrock Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Bore Cable	Hardrock Contract Labor Cost	316.0800					252.1260		251.4400				179.6000		179.6073
Underground Excavation Contract Labor	Cut & Restore Asphalt	Hardrock Contract Labor Cost	20.7800					16.7020		21.3640				15.2600		15.2629
Underground Excavation Contract Labor	Cut & Restore Concrete	Hardrock Contract Labor Cost	20.7800					16.7020		19.6000				14.0000		14.0029
Underground Excavation Contract Labor	Cut & Restore Sod	Hardrock Contract Labor Cost	20.7800					16.7020		17.1220				12.2300		12.2329
Underground Excavation Contract Labor	Hand Dig Trench	Hardrock Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Rocky Trench	Hardrock Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Trench & Backfill	Hardrock Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Backhoe Trench	Water Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Bore Cable	Water Contract Labor Cost	316.0800					252.1260		251.4400				179.6000		179.6073
Underground Excavation Contract Labor	Cut & Restore Asphalt	Water Contract Labor Cost	20.7800					16.7020		21.3640				15.2600		15.2629
Underground Excavation Contract Labor	Cut & Restore Concrete	Water Contract Labor Cost	20.7800					16.7020		19.6000				14.0000		14.0029
Underground Excavation Contract Labor	Cut & Restore Sod	Water Contract Labor Cost	20.7800					16.7020		17.1220				12.2300		12.2329
Underground Excavation Contract Labor	Hand Dig Trench	Water Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Rocky Trench	Water Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Excavation Contract Labor	Trench & Backfill	Water Contract Labor Cost	20.7800					16.7020		16.0160				11.4400		11.4429
Underground Rural Excavation Activity	Bore Cable	Normal Terrain: % of Activity	0.0267					0.0267		0.0023						0.0023
Underground Rural Excavation Activity	Trench & Backfill	Normal Terrain: % of Activity	0.6400					0.6400		0.6644						0.6644
Underground Rural Excavation Activity	Backhoe Trench	SoftRock Terrain: % of Activity	0.4500					0.4500		0.2200						0.2200
Underground Rural Excavation Activity	Bore Cable	SoftRock Terrain: % of Activity	0.0367					0.0367		0.0023						0.0023
Underground Rural Excavation Activity	Hand Dig Trench	SoftRock Terrain: % of Activity	0.0433					0.0433		0.0300						0.0300
Underground Rural Excavation Activity	Rocky Trench	SoftRock Terrain: % of Activity	0.3367					0.3367		-						-
Underground Rural Excavation Activity	Trench & Backfill	SoftRock Terrain: % of Activity	0.0500					0.0500		0.6644						0.6644
Underground Rural Excavation Activity	Backhoe Trench	HardRock: % of Activity	0.3033					0.3033		0.2200						0.2200
Underground Rural Excavation Activity	Bore Cable	HardRock: % of Activity	0.0267					0.0267		0.0023						0.0023
Underground Rural Excavation Activity	Hand Dig Trench	HardRock: % of Activity	0.0433					0.0433		0.0300						0.0300
Underground Rural Excavation Activity	Rocky Trench	HardRock: % of Activity	0.5433					0.5433		-						-
Underground Rural Excavation Activity	Trench & Backfill	HardRock: % of Activity	-					-		0.6644						0.6644
Underground Rural Excavation Activity	Backhoe Trench	Water: % of Activity	0.3033					0.3033		0.2200						0.2200
Underground Rural Excavation Activity	Bore Cable	Water: % of Activity	0.0267					0.0267		0.0023						0.0023
Underground Rural Excavation Activity	Hand Dig Trench	Water: % of Activity	0.0433					0.0433		0.0300						0.0300
Underground Rural Excavation Activity	Rocky Trench	Water: % of Activity	0.5433					0.5433		-						-
Underground Rural Excavation Activity	Trench & Backfill	Water: % of Activity	-					-		0.6644						0.6644
Underground Suburban Excavation Activity	Bore Cable	Normal Terrain: % of Activity	0.0575					0.0575		0.0049						0.0049
Underground Suburban Excavation Activity	Trench & Backfill	Normal Terrain: % of Activity	0.2350					0.2350		0.2876						0.2876
Underground Suburban Excavation Activity	Backhoe Trench	SoftRock Terrain: % of Activity	0.1950					0.1950		0.2825						0.2825
Underground Suburban Excavation Activity	Bore Cable	SoftRock Terrain: % of Activity	0.0575					0.0575		0.0049						0.0049
Underground Suburban Excavation Activity	Rocky Trench	SoftRock Terrain: % of Activity	0.2350					0.2350		-						-
Underground Suburban Excavation Activity	Trench & Backfill	SoftRock Terrain: % of Activity	0.0875					0.0875		0.2876						0.2876
Underground Suburban Excavation Activity	Backhoe Trench	HardRock: % of Activity	0.1300					0.1300		0.2825						0.2825
Underground Suburban Excavation Activity	Bore Cable	HardRock: % of Activity	0.0575					0.0575		0.0049						0.0049
Underground Suburban Excavation Activity	Rocky Trench	HardRock: % of Activity	0.3875					0.3875		-						-
Underground Suburban Excavation Activity	Trench & Backfill	HardRock: % of Activity	-					-		0.2876						0.2876
Underground Suburban Excavation Activity	Backhoe Trench	Water: % of Activity	0.1300					0.1300		0.2825						0.2825
Underground Suburban Excavation Activity	Bore Cable	Water: % of Activity	0.0575					0.0575		0.0049						0.0049
Underground Suburban Excavation Activity	Rocky Trench	Water: % of Activity	0.3875					0.3875		-						-
Underground Suburban Excavation Activity	Trench & Backfill	Water: % of Activity	-					-		0.2876						0.2876
Underground Urban Excavation Activity	Bore Cable	Normal Terrain: % of Activity	0.1250					0.1250		0.0108						0.0108
Underground Urban Excavation Activity	Trench & Backfill	Normal Terrain: % of Activity	0.0400					0.0400		0.1542						0.1542
Underground Urban Excavation Activity	Backhoe Trench	SoftRock Terrain: % of Activity	0.1500					0.1500		0.1750						0.1750
Underground Urban Excavation Activity	Bore Cable	SoftRock Terrain: % of Activity	0.1250					0.1250		0.0108						0.0108
Underground Urban Excavation Activity	Rocky Trench	SoftRock Terrain: % of Activity	0.0550					0.0550		-						-
Underground Urban Excavation Activity	Trench & Backfill	SoftRock Terrain: % of Activity	0.0100					0.0100		0.1542						0.1542
Underground Urban Excavation Activity	Backhoe Trench	HardRock: % of Activity	0.0900					0.0900		0.1750						0.1750
Underground Urban Excavation Activity	Bore Cable	HardRock: % of Activity	0.1250					0.1250		0.0108						0.0108
Underground Urban Excavation Activity	Rocky Trench	HardRock: % of Activity	0.1250					0.1250		-						-
Underground Urban Excavation Activity	Trench & Backfill	HardRock: % of Activity	-					-		0.1542						0.1542
Underground Urban Excavation Activity	Backhoe Trench	Water: % of Activity	0.0900					0.0900		0.1750						0.1750
Underground Urban Excavation Activity	Bore Cable	Water: % of Activity	0.1250					0.1250		0.0108						0.0108
Underground Urban Excavation Activity	Rocky Trench	Water: % of Activity	0.1250					0.1250		-						-
Underground Urban Excavation Activity	Trench & Backfill	Water: % of Activity	-					-		0.1542						0.1542
Underground Sharing	Backhoe Trench	Rural Shared Percent Assigned to Telephone	0.9900	0.5000				0.9900		0.5000						0.5000
Underground Sharing	Bore Cable	Rural Shared Percent Assigned to Telephone	0.9900	0.5000				0.9900		0.5000						0.5000
Underground Sharing	Cut & Restore Asphalt	Rural Shared Percent Assigned to Telephone	0.9900	0.5000				0.9900		0.5000						0.5000
Underground Sharing	Cut & Restore Concrete	Rural Shared Percent Assigned to Telephone	0.9900	0.5000				0.9900		0.5000						0.5000
Underground Sharing	Cut & Restore Sod	Rural Shared Percent Assigned to Telephone	0.9900	0.5000				0.9900		0.5000						0.5000
Underground Sharing	Hand Dig Trench	Rural Shared Percent Assigned to Telephone	0.9900	0.5000				0.9900		0.5000						0.5000
Underground Sharing	Rocky Trench	Rural Shared Percent Assigned to Telephone	0.9900	0.5000				0.9900		0.5000						0.5000

NA A O D E

**Explanation of JPG - 4
 Back-Up Information
 Inputs Necessary to Implement Each Proposed Modification**

Input Table	Element	Variable	BellSouth Input	Change 1 Structure Sharing	Change 2 Indirect Labor	Change 3 DLC Factors	Change 4 Aerial Facilities	Change 5 Closing Factor	Change 6 Facility Sharing	Change 7 Place Costs	Change 8 Calc Errors	Change 9 Inflation Factors	Change 10 Exempt Material	Change 11 Engineer Factors	Change 12 Place & Splice	Final Inputs
Underground Sharing	Trench & Backfill	Rural Shared Percent Assigned to Telephone	0.9900	0.5000												0.5000
Underground Sharing	Backhoe Trench	Rural Shared Percent Assigned to Telephone	0.9900	0.5000												0.5000
Underground Sharing	Bore Cable	Suburb Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Cut & Restore Asphalt	Suburb Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Cut & Restore Concrete	Suburb Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Cut & Restore Sod	Suburb Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Hand Dig Trench	Suburb Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Rocky Trench	Suburb Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Trench & Backfill	Suburb Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Backhoe Trench	Suburb Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Bore Cable	Urban Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Cut & Restore Asphalt	Urban Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Cut & Restore Concrete	Urban Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Cut & Restore Sod	Urban Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Hand Dig Trench	Urban Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Rocky Trench	Urban Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Underground Sharing	Trench & Backfill	Urban Shared Percent Assigned to Telephone	0.9900	0.3300												0.3300
Buried Excavation Contract Labor	Backhoe Trench	Softrock Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Bore Cable	Softrock Contract Labor Cost	23.1400					18.7600		17.2200	14.0500					14.0500
Buried Excavation Contract Labor	Cut & Restore Asphalt	Softrock Contract Labor Cost	5.1800					4.4500		6.7300	6.0200					6.0200
Buried Excavation Contract Labor	Cut & Restore Concrete	Softrock Contract Labor Cost	5.1800					4.4500		4.7600	4.7600					4.7600
Buried Excavation Contract Labor	Cut & Restore Sod	Softrock Contract Labor Cost	5.1800					4.4500		3.7000	2.9900					2.9900
Buried Excavation Contract Labor	Free Trench (i.e. Developer)	Softrock Contract Labor Cost	1.1400					0.9100		0.9100	0.9100					0.9100
Buried Excavation Contract Labor	Hand Dig Trench	Softrock Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Plow	Softrock Contract Labor Cost	5.1800					4.4500		3.5600	17.0600					17.0600
Buried Excavation Contract Labor	Push Pipe & Pull Cable	Softrock Contract Labor Cost	6.0100					5.1000		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Rocky Plow	Softrock Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Rocky Trench	Softrock Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Trench & Backfill	Softrock Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Backhoe Trench	Normal Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Bore Cable	Normal Contract Labor Cost	23.1400					18.7600		17.2200	14.0500					14.0500
Buried Excavation Contract Labor	Cut & Restore Asphalt	Normal Contract Labor Cost	5.1800					4.4500		6.7300	6.0200					6.0200
Buried Excavation Contract Labor	Cut & Restore Concrete	Normal Contract Labor Cost	5.1800					4.4500		5.4700	4.7600					4.7600
Buried Excavation Contract Labor	Cut & Restore Sod	Normal Contract Labor Cost	5.1800					4.4500		3.7000	2.9900					2.9900
Buried Excavation Contract Labor	Free Trench (i.e. Developer)	Normal Contract Labor Cost	1.1400					0.9100		0.9100	0.9100					0.9100
Buried Excavation Contract Labor	Hand Dig Trench	Normal Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Plow	Normal Contract Labor Cost	5.1800					4.4500		2.9100	0.8000					0.8000
Buried Excavation Contract Labor	Push Pipe & Pull Cable	Normal Contract Labor Cost	6.0100					5.1000		3.5600	17.0600					17.0600
Buried Excavation Contract Labor	Rocky Plow	Normal Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Rocky Trench	Normal Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Trench & Backfill	Normal Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Backhoe Trench	Hardrock Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Bore Cable	Hardrock Contract Labor Cost	23.1400					18.7600		17.2200	14.0500					14.0500
Buried Excavation Contract Labor	Cut & Restore Asphalt	Hardrock Contract Labor Cost	5.1800					4.4500		6.7300	6.0200					6.0200
Buried Excavation Contract Labor	Cut & Restore Concrete	Hardrock Contract Labor Cost	5.1800					4.4500		5.4700	4.7600					4.7600
Buried Excavation Contract Labor	Cut & Restore Sod	Hardrock Contract Labor Cost	5.1800					4.4500		3.7000	2.9900					2.9900
Buried Excavation Contract Labor	Free Trench (i.e. Developer)	Hardrock Contract Labor Cost	1.1400					0.9100		0.9100	0.9100					0.9100
Buried Excavation Contract Labor	Hand Dig Trench	Hardrock Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Plow	Hardrock Contract Labor Cost	5.1800					4.4500		2.9100	0.8000					0.8000
Buried Excavation Contract Labor	Push Pipe & Pull Cable	Hardrock Contract Labor Cost	6.0100					5.1000		3.5600	17.0600					17.0600
Buried Excavation Contract Labor	Rocky Plow	Hardrock Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Rocky Trench	Hardrock Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Trench & Backfill	Hardrock Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Backhoe Trench	Water Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Bore Cable	Water Contract Labor Cost	23.1400					18.7600		17.2200	14.0500					14.0500
Buried Excavation Contract Labor	Cut & Restore Asphalt	Water Contract Labor Cost	5.1800					4.4500		6.7300	6.0200					6.0200
Buried Excavation Contract Labor	Cut & Restore Concrete	Water Contract Labor Cost	5.1800					4.4500		5.4700	4.7600					4.7600
Buried Excavation Contract Labor	Cut & Restore Sod	Water Contract Labor Cost	5.1800					4.4500		3.7000	2.9900					2.9900
Buried Excavation Contract Labor	Free Trench (i.e. Developer)	Water Contract Labor Cost	1.1400					0.9100		0.9100	0.9100					0.9100
Buried Excavation Contract Labor	Hand Dig Trench	Water Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Plow	Water Contract Labor Cost	5.1800					4.4500		2.9100	0.8000					0.8000
Buried Excavation Contract Labor	Push Pipe & Pull Cable	Water Contract Labor Cost	6.0100					5.1000		3.5600	17.0600					17.0600
Buried Excavation Contract Labor	Rocky Plow	Water Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Rocky Trench	Water Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Excavation Contract Labor	Trench & Backfill	Water Contract Labor Cost	5.1800					4.4500		2.9100	2.2000					2.2000
Buried Rural Excavation Activity	Bore Cable	Normal: % of Activity	0.0100								0.0009					0.0009
Buried Rural Excavation Activity	Trench & Backfill	Normal: % of Activity	0.0670								0.0761					0.0761
Buried Rural Excavation Activity	Backhoe Trench	SoftRock: % of Activity	0.0800								0.0367					0.0367

011226

**Explanation of JPG - 4
 Back-Up Information
 Inputs Necessary to Implement Each Proposed Modification**

Input Table	Element	Variable	BellSouth Input	Change 1 Structure Sharing	Change 2 Indirect Labor	Change 3 DLC Factors	Change 4 Aerial Facilities	Change 5 Closing Factor	Change 6 Facility Sharing	Change 7 Place Costs	Change 8 Calc Errors	Change 9 Inflation Factors	Change 10 Exempt Material	Change 11 Engineer Factors	Change 12 Place & Splice	Final Inputs
Buried Rural Excavation Activity	Bore Cable	SoftRock: % of Activity	0.0100							0.0009						0.0009
Buried Rural Excavation Activity	Hand Dig Trench	SoftRock: % of Activity	0.0367							0.0200						0.0200
Buried Rural Excavation Activity	Plow	SoftRock: % of Activity	0.3300							0.7800						0.7800
Buried Rural Excavation Activity	Push Pipe & Pull Cable	SoftRock: % of Activity	0.0100							0.0033						0.0033
Buried Rural Excavation Activity	Rocky Plow	SoftRock: % of Activity	0.3067							-						-
Buried Rural Excavation Activity	Rocky Trench	SoftRock: % of Activity	0.0600							-						-
Buried Rural Excavation Activity	Trench & Backfill	SoftRock: % of Activity	0.0833							0.0761						0.0761
Buried Rural Excavation Activity	Backhoe Trench	HardRock: % of Activity	0.0267							0.0367						0.0367
Buried Rural Excavation Activity	Bore Cable	HardRock: % of Activity	0.0100							0.0009						0.0009
Buried Rural Excavation Activity	Hand Dig Trench	HardRock: % of Activity	0.0233							0.0200						0.0200
Buried Rural Excavation Activity	Plow	HardRock: % of Activity	-							0.7800						0.7800
Buried Rural Excavation Activity	Push Pipe & Pull Cable	HardRock: % of Activity	0.0100							0.0033						0.0033
Buried Rural Excavation Activity	Rocky Plow	HardRock: % of Activity	0.4933							-						-
Buried Rural Excavation Activity	Rocky Trench	HardRock: % of Activity	0.2933							-						-
Buried Rural Excavation Activity	Trench & Backfill	HardRock: % of Activity	0.0600							0.0761						0.0761
Buried Rural Excavation Activity	Backhoe Trench	Water: % of Activity	0.0267							0.0367						0.0367
Buried Rural Excavation Activity	Bore Cable	Water: % of Activity	0.0100							0.0009						0.0009
Buried Rural Excavation Activity	Hand Dig Trench	Water: % of Activity	0.0233							0.0200						0.0200
Buried Rural Excavation Activity	Plow	Water: % of Activity	-							0.7800						0.7800
Buried Rural Excavation Activity	Push Pipe & Pull Cable	Water: % of Activity	0.0100							0.0033						0.0033
Buried Rural Excavation Activity	Rocky Plow	Water: % of Activity	0.4933							-						-
Buried Rural Excavation Activity	Rocky Trench	Water: % of Activity	0.2933							-						-
Buried Rural Excavation Activity	Trench & Backfill	Water: % of Activity	0.0600							0.0761						0.0761
Buried Suburban Excavation Activity	Bore Cable	Normal: % of Activity	0.0575							0.0049						0.0049
Buried Suburban Excavation Activity	Trench & Backfill	Normal: % of Activity	0.1925							0.2451						0.2451
Buried Suburban Excavation Activity	Backhoe Trench	SoftRock: % of Activity	0.1125							0.1300						0.1300
Buried Suburban Excavation Activity	Bore Cable	SoftRock: % of Activity	0.0575							0.0049						0.0049
Buried Suburban Excavation Activity	Plow	SoftRock: % of Activity	0.0275							0.1575						0.1575
Buried Suburban Excavation Activity	Rocky Plow	SoftRock: % of Activity	0.0475							-						-
Buried Suburban Excavation Activity	Rocky Trench	SoftRock: % of Activity	0.2000							-						-
Buried Suburban Excavation Activity	Trench & Backfill	SoftRock: % of Activity	0.0925							0.2451						0.2451
Buried Suburban Excavation Activity	Backhoe Trench	HardRock: % of Activity	0.1200							0.1300						0.1300
Buried Suburban Excavation Activity	Bore Cable	HardRock: % of Activity	0.0575							0.0049						0.0049
Buried Suburban Excavation Activity	Plow	HardRock: % of Activity	-							0.1575						0.1575
Buried Suburban Excavation Activity	Rocky Plow	HardRock: % of Activity	0.0475							-						-
Buried Suburban Excavation Activity	Rocky Trench	HardRock: % of Activity	0.3125							-						-
Buried Suburban Excavation Activity	Trench & Backfill	HardRock: % of Activity	-							0.2451						0.2451
Buried Suburban Excavation Activity	Backhoe Trench	Water: % of Activity	0.1200							0.1300						0.1300
Buried Suburban Excavation Activity	Bore Cable	Water: % of Activity	0.0575							0.0049						0.0049
Buried Suburban Excavation Activity	Plow	Water: % of Activity	-							0.1575						0.1575
Buried Suburban Excavation Activity	Rocky Plow	Water: % of Activity	0.0475							-						-
Buried Suburban Excavation Activity	Rocky Trench	Water: % of Activity	0.3125							-						-
Buried Suburban Excavation Activity	Trench & Backfill	Water: % of Activity	-							0.2451						0.2451
Buried Urban Excavation Activity	Bore Cable	Normal: % of Activity	0.1250							0.0108						0.0108
Buried Urban Excavation Activity	Trench & Backfill	Normal: % of Activity	0.0400							0.1542						0.1542
Buried Urban Excavation Activity	Backhoe Trench	SoftRock: % of Activity	0.1500							0.1750						0.1750
Buried Urban Excavation Activity	Bore Cable	SoftRock: % of Activity	0.1250							0.0108						0.0108
Buried Urban Excavation Activity	Rocky Trench	SoftRock: % of Activity	0.0550							-						-
Buried Urban Excavation Activity	Trench & Backfill	SoftRock: % of Activity	0.0100							0.1542						0.1542
Buried Urban Excavation Activity	Backhoe Trench	HardRock: % of Activity	0.0900							0.1750						0.1750
Buried Urban Excavation Activity	Bore Cable	HardRock: % of Activity	0.1250							0.0108						0.0108
Buried Urban Excavation Activity	Rocky Trench	HardRock: % of Activity	0.1250							-						-
Buried Urban Excavation Activity	Trench & Backfill	HardRock: % of Activity	-							0.1542						0.1542
Buried Urban Excavation Activity	Bore Cable	HardRock: % of Activity	0.0900							0.1750						0.1750
Buried Urban Excavation Activity	Rocky Trench	HardRock: % of Activity	0.1250							0.0108						0.0108
Buried Urban Excavation Activity	Trench & Backfill	HardRock: % of Activity	-							-						-
Buried Urban Excavation Activity	Backhoe Trench	Water: % of Activity	-							0.1542						0.1542
Buried Shoring	Backhoe Trench	Rural: % Telco	0.9600	0.5000												0.5000
Buried Shoring	Bore Cable	Rural: % Telco	0.9600	0.5000												0.5000
Buried Shoring	Cut & Restore Asphalt	Rural: % Telco	0.9600	0.5000												0.5000
Buried Shoring	Cut & Restore Concrete	Rural: % Telco	0.9600	0.5000												0.5000
Buried Shoring	Cut & Restore Sod	Rural: % Telco	0.9600	0.5000												0.5000
Buried Shoring	Free Trench (i.e. Developer)	Rural: % Telco	0.9600	0.5000												0.5000
Buried Shoring	Hand Dig Trench	Rural: % Telco	0.9600	0.5000												0.5000
Buried Shoring	Plow	Rural: % Telco	0.9600	0.5000												0.5000
Buried Shoring	Push Pipe & Pull Cable	Rural: % Telco	0.9600	0.5000												0.5000
Buried Shoring	Rocky Plow	Rural: % Telco	0.9600	0.5000												0.5000
Buried Shoring	Rocky Trench	Rural: % Telco	0.9600	0.5000												0.5000

123110

**Explanation of JPG - 4
 Back-Up Information
 Inputs Necessary to Implement Each Proposed Modification**

Input Table	Element	Variable	BellSouth Input	Change 1 Structure Sharing	Change 2 Indirect Labor	Change 3 DLC Factors	Change 4 Aerial Facilities	Change 5 Closing Factor	Change 6 Facility Sharing	Change 7 Place Costs	Change 8 Calc Errors	Change 9 Inflation Factors	Change 10 Exempt Material	Change 11 Engineer Factors	Change 12 Place & Splice	Final Inputs
Buried Sharing	Trench & Backfill	Rural: % Telco	0.9600	0.5000												0.5000
Buried Sharing	Backhoe Trench	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Bore Cable	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Cut & Restore Asphalt	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Cut & Restore Concrete	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Cut & Restore Sod	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Free Trench (i.e. Developer)	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Hand Dig Trench	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Plow	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Push Pipe & Pull Cable	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Rocky Pkwy	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Rocky Trench	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Trench & Backfill	Suburban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Backhoe Trench	Urban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Bore Cable	Urban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Cut & Restore Asphalt	Urban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Cut & Restore Concrete	Urban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Cut & Restore Sod	Urban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Free Trench (i.e. Developer)	Urban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Hand Dig Trench	Urban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Plow	Urban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Push Pipe & Pull Cable	Urban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Rocky Pkwy	Urban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Rocky Trench	Urban: % Telco	0.9600	0.3300												0.3300
Buried Sharing	Trench & Backfill	Urban: % Telco	0.9600	0.3300												0.3300
Underground Contract Labor	Manholes 1	Softrock Contract Labor Cost	6,509.2100	6,509.2149				5,189.5200			2,048.5920			1,463.2800		1,463.2800
Underground Contract Labor	Manholes 2	Softrock Contract Labor Cost	6,509.2100	3,254.6075			2,594.7600				1,024.2960			731.6400		731.6400
Underground Contract Labor	Manholes 3	Softrock Contract Labor Cost	19,337.1500	9,668.5759			7,708.3440				1,024.2960			731.6400		731.6400
Underground Contract Labor	Manholes 5	Softrock Contract Labor Cost	15,330.5400	7,665.2731			6,111.1960				2,822.4560			2,016.0400		2,016.0400
Underground Contract Labor	Manholes 1	Normal Contract Labor Cost	6,509.2100	6,509.2100			5,189.5200				2,048.5920			1,463.2800		1,463.2800
Underground Contract Labor	Manholes 2	Normal Contract Labor Cost	6,509.2100	3,254.6050			2,594.7600				1,024.2960			731.6400		731.6400
Underground Contract Labor	Manholes 3	Normal Contract Labor Cost	19,337.1500	9,668.5750			7,708.3440				1,024.2960			731.6400		731.6400
Underground Contract Labor	Manholes 5	Normal Contract Labor Cost	15,330.5400	7,665.2700			6,111.1960				2,822.4560			2,016.0400		2,016.0400
Underground Contract Labor	Manholes 1	Hardrock Contract Labor Cost	6,509.2100	6,509.2100			5,189.5200				2,048.5920			1,463.2800		1,463.2800
Underground Contract Labor	Manholes 2	Hardrock Contract Labor Cost	6,509.2100	3,254.6050			2,594.7600				1,024.2960			731.6400		731.6400
Underground Contract Labor	Manholes 3	Hardrock Contract Labor Cost	19,337.1500	9,668.5750			7,708.3440				1,024.2960			731.6400		731.6400
Underground Contract Labor	Manholes 5	Hardrock Contract Labor Cost	15,330.5400	7,665.2700			6,111.1960				2,822.4560			2,016.0400		2,016.0400
Underground Contract Labor	Manholes 1	Water Contract Labor Cost	6,509.2100	6,509.2100			5,189.5200				2,048.5920			1,463.2800		1,463.2800
Underground Contract Labor	Manholes 2	Water Contract Labor Cost	6,509.2100	3,254.6050			2,594.7600				1,024.2960			731.6400		731.6400
Underground Contract Labor	Manholes 3	Water Contract Labor Cost	19,337.1500	9,668.5750			7,708.3440				1,024.2960			731.6400		731.6400
Underground Contract Labor	Manholes 5	Water Contract Labor Cost	15,330.5400	7,665.2700			6,111.1960				2,822.4560			2,016.0400		2,016.0400
Facility Sharing (Plant Sharing)	Rural	Aerial Facility Sharing Percentage		0.2500					0.7500							0.7500
Facility Sharing (Plant Sharing)	Suburban	Aerial Facility Sharing Percentage		0.2500					0.7500							0.7500
Facility Sharing (Plant Sharing)	Urban	Aerial Facility Sharing Percentage		0.2500					0.7500							0.7500
Facility Sharing (Plant Sharing)	Rural	Buried Facility Sharing Percentage		0.2500					0.7500							0.7500
Facility Sharing (Plant Sharing)	Suburban	Buried Facility Sharing Percentage		0.2500					0.7500							0.7500
Facility Sharing (Plant Sharing)	Urban	Buried Facility Sharing Percentage		0.2500					0.7500							0.7500
Facility Sharing (Plant Sharing)	Rural	UG Facility Sharing Percentage		0.2500					0.7500							0.7500
Facility Sharing (Plant Sharing)	Suburban	UG Facility Sharing Percentage		0.2500					0.7500							0.7500
Facility Sharing (Plant Sharing)	Urban	UG Facility Sharing Percentage		0.2500					0.7500							0.7500
Cost Calculator	In-Plant Factor	DLC Plug-In Equipment	1.1682			1.0024										1.0024
Cost Calculator	In-Plant Factor	DLC Hardwire Equipment	2.5184			1.1680										1.1680
Cost Calculator	Inflation	FRC 22	1.0822									0.9625				0.9625
Cost Calculator	Inflation	FRC 45	1.0715									1.0098				1.0098
Cost Calculator	Inflation	FRC 377	1.0201									1.0168				1.0168
Cost Calculator	Inflation	FRC 257	0.9800									0.9374				0.9374