Database neiml.db Loop Summary Page 1
Jurisdiction: NE Location: Central Office:

Total Loops

	Residence	Business	Centrex	Special	Test	Total
0- 1	5	2	0	0	0	7
1- 2	29	9	0	0	0	38
2- 3	40	7	0	0	0	47
3- 4	1	0	0	0	0	1
4- 5	0	0	0	0	0	0
5- 6	1	0	0	0	0	1
6- 7	0	1	0	0	0	1
7- 8	0	0	0	0	0	0
8- 9	3	0	0	0	0	3
9-10	3	0	0	0	0	3
10-11	4	0	0	0	0	4
11-12	3	0	0	0	0	3
12-18	7	0	0	0	0	7
18-24	12	0	0	0	0	12
24-30	4	0	0	0	0	4
>=30	11	3	0	0	0	14
All	123	22	0	0	0	145

Total Validated Loops

	Residence	Business	Centrex	Special	Test	Total
0- 1	5	2	0	0	0	7
1- 2	29	9	0	0	0	38
2- 3	40	7	0	0	0	47
3- 4	1	0	0	0	0	1
4- 5	0	0	0	0	0	0
5- 6	1	0	0	0	0	1
6- 7	0	1	0	0	0	1
7- 8	0	0	0	0	0	0
8- 9	3	0	0	0	0	3
9-10	3	0	0	0	0	3
10-11	4	0	0	0	0	4
11-12	3	0	0	0	0	3
12-18	7	0	0	0	0	7
18-24	12	0	0	0	0	12
24-30	4	0	0	0	0	4
>=30	11	3	0	0	0	14
All	123	22	0	0	0	145
% Good	100.00%	100.00%	0.00%	0.00%	0.00%	100.00%

Average Loop Length

	Residence	Business	Centrex	Special	Test	Wtg.-Total
0-12	3277	2162	0	0	0	3081
12-18	14940	0	0	0	0	14940
18-24	21703	0	0	0	0	21703
24-30	26632	0	0	0	0	26632
>=30	43972	49502	0	0	0	45157
All	10137	8618	0	0	0	9907

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Database neimm.db Loop Summary Page 1
Jurisdiction: NE Location: Central Office:

Total Loops

	Residence	Business	Centrex	Special	Test	Total
0- 1	78	193	0	0	0	271
1- 2	252	238	0	0	0	490
2- 3	441	346	0	0	0	787
3- 4	612	221	0	0	0	833
4- 5	643	213	0	0	0	856
5- 6	796	289	0	0	0	1085
6- 7	939	245	0	0	1	1185
7- 8	867	568	0	0	0	1435
8- 9	787	307	0	0	0	1094
9-10	415	159	0	0	0	574
10-11	836	185	0	0	0	1021
11-12	842	109	0	0	0	951
12-18	1811	293	0	0	1	2105
18-24	179	55	0	0	0	234
24-30	139	20	0	0	0	159
>=30	389	33	0	0	0	422
All	10026	3474	0	0	2	13502

Total Validated Loops

	Residence	Business	Centrex	Special	Test	Total
0- 1	44	120	0	0	0	164
1- 2	110	195	0	0	0	305
2- 3	302	285	0	0	0	587
3- 4	527	180	0	0	0	707
4- 5	581	205	0	0	0	786
5- 6	755	271	0	0	0	1026
6- 7	935	244	0	0	1	1180
7- 8	837	562	0	0	0	1399
8- 9	781	306	0	0	0	1087
9-10	400	157	0	0	0	557
10-11	818	184	0	0	0	1002
11-12	828	106	0	0	0	934
12-18	1727	273	0	0	1	2001
18-24	157	52	0	0	0	209
24-30	131	20	0	0	0	151
>=30	389	33	0	0	0	422
All	9322	3193	0	0	2	12517
% Good	92.98%	91.91%	0.00%	0.00%	100.00%	92.70%

Average Loop Length

	Residence	Business	Centrex	Special	Test	Wtg.-Total
0-12	7310	6126	0	0	6065	6968
12-18	14026	13744	0	0	12496	13987
18-24	20896	20551	0	0	0	20810
24-30	28374	28044	0	0	0	28330
>=30	37502	37532	0	0	0	37504
All	10339	7475	0	0	9281	9608

07/24/1997 9:32 AM

Database neimm.db Loop Summary Page 2
Jurisdiction: NE Location: Central Office:

Feeder - Distribution Summary

Total Pr/Mi : 53380.77
Used* Pr/Mi : 24569.92
Percent Used : 46.03%

Good : 12517
Bad : 985
Total Records : 13502
Percent Good : 92.70%

Feeder Utilization

Cable	Pair Miles > Available	Used	Utilization
1	783	276	35.27%
10	2159	1369	63.42%
11	4907	2809	57.25%
12	4195	2435	58.03%
13	3889	2343	60.24%
2	5658	1115	19.70%
3	3409	1225	35.93%
4	396	245	61.84%
5	1517	1278	84.23%
6	2053	839	40.90%
7	2487	1425	57.29%
8	2364	1525	64.52%
9	677	611	90.20%
BM	229	1	0.25%
BR	307	4	1.16%
HA	662	1	0.12%
HB	122	1	0.88%
HH	366	1	0.23%
MJ	142	1	0.44%
MN	246	5	2.18%
MT	210	1	0.31%
RL41	986	430	43.62%
RL42	320	86	26.78%
RL43	196	40	20.26%
RS1	2378	929	39.07%
RS2	730	121	16.64%
SE	723	17	2.31%
SK	178	1	0.29%
WH	795	12	1.46%
Total Feeder	43084	19143	44.43%

07/24/1997 9:33 AM

Database neimm.db Loop Summary Page 3
Jurisdiction: NE Location: Central Office:

Distribution Utilization

Cable	Pair Miles > Available	Used	Utilization

101	53	13	24.64%
BF	21	8	36.88%
BM	229	82	35.92%
BN	31	13	41.13%
BR	307	239	77.90%
D2	726	149	20.45%
HA	662	297	44.92%
HB	122	25	20.76%
HC	124	32	25.83%
HE	62	37	60.46%
HG	502	161	32.16%
HH	366	135	36.95%
HJ	305	155	50.75%
HM	183	77	42.36%
HW	227	84	36.83%
HZ	46	19	40.96%
MB	356	2	0.46%
ME	314	91	28.96%
MG	357	220	61.74%
MJ	142	57	40.06%
MK	139	89	64.14%
ML	455	176	38.81%
MN	246	112	45.60%
MT	210	97	46.22%
NA	170	80	47.44%
PB	933	257	27.51%
SC	210	41	19.55%
SE	723	186	25.74%
SK	178	73	41.32%
SM	623	223	35.70%
WF	226	1	0.66%
WH	795	385	48.36%
WP	74	17	22.97%
Total Distribution	10117	3635	35.93%

Used* = Pair Feet/5280/(Good/(Good+Bad)) 07/24/1997 9:33 AM

Database NEIMM.DB Loop Summary Page 1
Jurisdiction: NE Location: Central Office:

Total Loops

	Residence	Business	Centrex	Special	Test	Total
0- 1	1160	3513	21	0	0	4694
1- 2	960	269	0	0	0	1229
2- 3	664	433	0	0	0	1097
3- 4	1220	521	0	0	0	1741
4- 5	2104	963	2	0	0	3069
5- 6	1426	553	4	0	0	1983
6- 7	1142	426	0	0	0	1568
7- 8	832	359	5	0	0	1196
8- 9	469	331	3	0	0	803
9-10	589	283	0	0	0	872
10-11	180	83	0	0	0	263
11-12	287	171	0	0	0	458
12-18	404	182	0	0	0	586
18-24	249	56	0	0	0	305
24-30	122	58	0	0	0	180
>=30	268	58	0	0	0	326
All	12076	8259	35	0	0	20370

Total Validated Loops

	Residence	Business	Centrex	Special	Test	Total
0- 1	43	69	0	0	0	112
1- 2	237	234	0	0	0	471
2- 3	600	379	0	0	0	979
3- 4	1131	377	0	0	0	1508
4- 5	1568	863	2	0	0	2433
5- 6	940	530	4	0	0	1474
6- 7	1138	413	0	0	0	1551
7- 8	658	340	5	0	0	1003
8- 9	449	328	3	0	0	780
9-10	507	276	0	0	0	783
10-11	173	81	0	0	0	254
11-12	285	170	0	0	0	455
12-18	379	181	0	0	0	560
18-24	248	45	0	0	0	293
24-30	112	54	0	0	0	166
>=30	268	58	0	0	0	326
All	8736	4398	14	0	0	13148
% Good	72.34%	53.25%	40.00%	0.00%	0.00%	64.55%

Average Loop Length

	Residence	Business	Centrex	Special	Test	Wtg.-Total
0-12	5741	5651	6874	0	0	5711
12-18	14721	13890	0	0	0	14452
18-24	20470	20518	0	0	0	20477
24-30	26204	27131	0	0	0	26505
>=30	47589	47802	0	0	0	47627
All	8094	6962	6874	0	0	7714

07/24/1997 10:35 AM

Database NEIMM.DB Loop Summary Page 2
Jurisdiction: NE Location: Central Office:

Feeder - Distribution Summary

Total Pr/Mi : 63972.54
Used* Pr/Mi : 29761.93
Percent Used : 46.52%

Good : 13148
Bad : 7222
Total Records : 20370
Percent Good : 64.55%

Feeder Utilization

Cable	Pair Miles > Available	Used	Utilization
1	5863	1816	30.98%
10	2949	1062	36.02%
100	4336	2027	46.74%
11	3003	1003	33.40%
2	3089	862	27.91%
200	2963	1167	39.38%
3	2658	803	30.21%
300	1649	668	40.54%
301	41	1	2.17%
4	2399	729	30.40%
5	3238	961	29.66%
501	2033	733	36.04%
502	15	2	12.45%
503	1885	779	41.31%
504	902	233	25.82%
6	5854	1422	24.28%
7	3986	1772	44.45%
8	3219	259	8.03%
9	2846	1694	59.54%
AA	434	2	0.35%
BA	336	1	0.23%
DA	618	2	0.28%
KSC	0	3	0.00%
NE	0	0	0.00%
Total Feeder	54315	17998	33.14%

07/24/1997 10:36 AM

Database NEIMM.DB Loop Summary Page 3
Jurisdiction: NE Location: Central Office:

Distribution Utilization

Cable	Pair Miles > Available	Used	Utilization
106	9	2	20.81%
300	1649	8	0.46%
301	41	3	7.58%
501	2033	3	0.17%
503	1885	5	0.27%

504	902	2	0.23%
702	5	90	1955.05%
901	64	32	49.85%
AA	434	140	32.34%
BA	336	166	49.42%
DA	618	270	43.67%
GR	40	5	12.18%
LH	286	3	1.14%
NE	16	7	39.86%
QK	727	244	33.51%
QL	395	160	40.47%
QM	261	72	27.69%
TR	89	1	1.33%
WE	52	2	3.05%
Total Distribution	9842	1215	12.34%

Used* = Pair Feet/5280/(Good/(Good+Bad)) 07/24/1997 10:36 AM

NOTES ON NEBRASKA OFFICES

% of records good:	low density	96.56%
	medium density	75.77%
	state total	83.29%

office (ICGS - low density

Office ran with 53.22% of records good due to 2 cables missing from ICGS and about 100 pairs missing from one cable which is in ICGS. Because this office represents less than 4.8% of the total records for low density offices, it does not seem worth the time required to get the corrected information which would bring the low density to 98.7% good.

office (ICGS - medium density

Office ran with 64.55% of records good due to 46 cables missing from ICGS and a large number of pairs missing from various cables which are in ICGS (the list of missing pairs is more than 5 pages long). Because there are only 2 medium density offices and this office is 60% of the total records for the two, it may be worth the time to try to improve it. If we could get information to correct half of the bad records, would be at 82%, medium density would improve to 86% and the state total to 90%. Based upon cable IDs, it appears 21 of the missing cables are probably pair gain systems. It may take the field engineer a day to provide the data. It would probably require 2-3 hours on my part to update all the data, including all reports.

All other offices in Nebraska ran at better than 75% of the records good; only 2 of those offices were less than 90% good.

7/24/97

GTE ALASKA INCORPORATED
3 AAC 48.275(h) SECTION 2
COST OF SERVICE STUDY

NETWORK ACCESS CHANNEL - BASIC LEVEL
LOOP SAMPLE STUDY

RESIDENCE

	Length (kf) (A)	Number of Samples (B)	Pct Dist (C)
1			
2			
3	0-1	39	7.56%
4	1-2	90	17.44%
5	2-3	81	15.70%
6	3-4	35	6.78%
7	4-5	26	5.04%
8	5-6	36	6.98%
9	6-7	40	7.75%
10	7-8	13	2.52%
11	8-9	6	1.16%
12	9-10	14	2.71%
13	10-11	15	2.91%
14	11-12	30	5.81%
15	>12	91	17.64%
16			
17	TOTAL	516	100.000%
18			
19	Average Loop Length (kf)		
20	Overall	7,791	
21	> 12 Kilofeet	24,039	

GTE Alaska performed a sampling of its residential, business, local private line and terminal loops to determine the average length and distribution of each loop type. GTE Alaska conducted this study beginning on May 13, 1996 and ending on June 13, 1996.

GTE ALASKA INCORPORATED
3 AAC 48.276(h) SECTION 2
COST OF SERVICE STUDY

NETWORK ACCESS CHANNEL - BASIC LEVEL
LOOP SAMPLE STUDY

BUSINESS

	Length (kf) (A)	Number of Samples (B)	Pct Dist (C)
1			
2			
3	0-1	80	20.00%
4	1-2	72	18.00%
5	2-3	53	13.25%
6	3-4	46	11.50%
7	4-5	25	6.25%
8	5-6	19	4.75%
9	6-7	16	4.00%
10	7-8	4	1.00%
11	8-9	7	1.75%
12	9-10	11	2.75%
13	10-11	6	1.50%
14	11-12	4	1.00%
15	>12	57	14.25%
16			
17	TOTAL	400	100.000%
18			
19	Average Loop Length (kf)		
20	Overall	5,931	
21	> 12 Kilofeet	22,986	

GTE Alaska performed a sampling of its residential, business, local private line and terminal loops to determine the average length and distribution of each loop type. GTE Alaska conducted this study beginning on May 13, 1996 and ending on June 13, 1996.

GTE ALASKA INCORPORATED
3 AAC 48.275(h) SECTION 2
COST OF SERVICE STUDY

NETWORK ACCESS CHANNEL - BASIC LEVEL
LOOP SAMPLE STUDY

PRIVATE LINE / TERMINAL LOOPS

	Length (kf) (A)	Number of Samples (B)	Pct Dist (C)
1			
2			
3	0-1	42	14.00%
4	1-2	88	29.33%
5	2-3	29	9.67%
6	3-4	34	11.33%
7	4-5	15	5.00%
8	5-6	6	2.00%
9	6-7	7	2.33%
10	7-8	13	4.33%
11	8-9	6	2.00%
12	9-10	9	3.00%
13	10-11	6	2.00%
14	11-12	4	1.33%
15	>12	41	13.67%
16			
17	TOTAL	300	100.000%
18			
19	Average Loop Length (kf)		
20	Overall	5,652	
21	> 12 Kilofeet	21,203	

GTE Alaska performed a sampling of its residential, business, local private line and terminal loops to determine the average length and distribution of each loop type. GTE Alaska conducted this study beginning on May 13, 1996 and ending on June 13, 1996.

GTE RESPONSE TO UNIVERSAL SERVICE DATA REQUEST 3

CC DOCKET NO. 96-45
DA 97-1433

Methodology

The response to Question 3 was based on the following inputs:

May 1997 - special study to check default factor for converting CCS/line into monthly MOU by state
May 1997 - special report of all customer trunk groups by office
May 1997 - special study to check default values for L-L, L-T, T-L, and T-T traffic types
June 1997 - normal report for billed intraLata toll separating business and residence MOU by entity (GTE and Contel; Alltel not available)
June 1997 - normal report for billed interLata toll separating MOU by entity
July 1997 - normal study for CCS/line and holding time by state for SPC offices
July 1997 - special study to check the ratio of billed calls to total completed calls by sampling switches within states

Using Michigan as an example, the above data was used to approximate MOU in the following manner:

Method #1

The average CCS/line for Michigan was 2.75 for 87 SPC offices with 505,883 lines.
Total CCS: 2.75 X 505,883 = 1,391,178 CCS

This CCS was adjusted by the traffic terminating onto customer trunks by adding 10% (for Michigan from the May 1997 study) to the line terminated value.
Total CCS for Michigan for SPC offices:
1,391,178 CCS X 1.1 = 1,530,295 switched CCS

Adjustment of busy hour total to the month by using the CCS/MOU conversion for Michigan:
1,530,295 X 436.36 = 667,671 thousands MOU

The value for thousands of MOU was distributed to the company and primary class of service categories using the ratios obtained from June 1997 billed toll studies.

Method #2

The total value of all billed traffic was compiled from the July 1997 revenue reports.

Total billed minutes of use for Michigan were summed.
The ratio of known billed traffic to total traffic for Michigan was applied to billed MOU to derive total MOU of 698,146 thousands MOU.

Generally, the two values were averaged as the basis of the data in the spreadsheet . The variance of the two values (667,671 and 698,146) can be attributed to the two different months of data and the sources of the data (one is based on July, 1997 CCS/line data and the other is based on June, 1997 billing data), but is consistent with other study data.

The results were then distributed by company and by class of service.
The percentage split for GTE and Contel is 93% and 7% respectively. The residence and business split within each company is 78% and 22% respectively, based on billed intraLATA toll MOU of total MOU.

GTE RESPONSE TO UNIVERSAL SERVICE DATA REQUEST 4

CC DOCKET NO. 96-45
DA 97-1433

Alabama
No allowance

Alaska
No allowance

Arkansas
No allowance

California - GTE and Contel

a. Residence Measured Service
$3.00 allowance per month, per line, local and ZUM calls

b. Residence Measured Service, Universal Lifeline Telephone Service
60 local call allowance per month

c. Note - Contel California Measured Service is only offered in following exchanges:
Bishop, Exeter, Gilroy, Lemon Cove, Mammoth Lakes, Sanger, Weaverville

California-West Coast
No allowance

Florida - GTE

a. Residential Message Rate Service
Provides an allowance of 30 messages per month, messages above the allowance are charged at $.10 per message.

Hawaii
No allowance

Idaho
No allowance

Illinois
No allowance

Indiana
No allowance

Iowa
No allowance

Kentucky
No allowance

Michigan - Alltel
No allowance

Michigan - Contel
No allowance

Michigan - GTE
a. One-Party Value Pak-60
Number of Free Calls: Sixty (60)

Micronesia
No allowance

Minnesota
No allowance

Missouri
No allowance

Nebraska
No allowance

New Mexico - GTE & Contel
No allowance

North Carolina
No allowance

Ohio
No allowance

Oklahoma - GTE-SW
No allowance

Oregon
No allowance

Pennsylvania
No allowance

South Carolina
No allowance

Texas - Contel in Nassau Bay

a. Offers local service on a measured basis only and has $2.00 usage allowance. The $2.00 allowance is included in the local access or flat rated part of the service. If the usage does not exceed the allowance, the customer will not be given credit in subsequent billing periods for the unused allowance. Naussa Bay is the only Contel exchange with usage rates.

Texas - GTE-SW
No allowance

Virginia - GTE & Contel

a. Residential Usage Sensitive Service
Usage allowance option provides an allowance of $3.00 per month, per line.

b. On multiple lines, usage on all lines is aggregated and the total allowance of the "number of lines times $3.00" is applied.

Washington
No allowance

Wisconsin

a. One-Party Value Pak
Monthly Usage Credit Amount: $3.60
Local calls at $.06 per call or EAS calls at $.12 per call can be applied to the usage allowance. All residential local calls over the call allowance are billed at $.04 per call.

b. LCS Econo-Pak Lifeline
Number of Free Calls: 120

GTE RESPONSE TO UNIVERSAL SERVICE DATA REQUEST 6

CC DOCKET NO. 96-45
DA 97-1433

Definitions

LABORGRP	Labor Group
DIRBASIC	Direct Basic Pay
DIRSUPP	Direct Support
DIRSUPV	Direct Supervision
OTPREM	Overtime Premium
PAIDABS	Paid Absent
INDSUP1	Indirect Support/Supervision 1
INDSUP2	Indirect Support/Supervision 2
INDSUP3	Indirect Support/Supervision 3
DIRDEPT	Direct Departmental Expense
INDDEP1	Indirect Departmental Expense 1
INDDEP2	Indirect Department Expense 2
INDDEP3	Indirect Department Expense 3
BENEFITS	Benefits
TOOLS	Tools
MOTORVEH	Motor Vehicle
NTRBLDIS	Non-trouble Dispatch
FFULLRATE	Fully Allocated Rate
IFULLRATE	Incremental Rate
INDSUPP	Indirect Support
INDDEPT	Indirect Departmental Expense

SPREADSHEET FOR REPLICATING LOOP MODEL CALCULATIONS
CABLE - MATERIAL AND LABOR INVESTMENTS

LABOR RATES:		YE '96	Alabama
OSP Planner	LG011	$65.19	
OSP Engineer	LG021	$46.68	
Line worker	LG111	$34.94	
Splicer	LG121	$32.40	

Hours/ft

	Size	LG011	LG021	LG111	LG121	Incremental labor $/ft	Material cost/ft	Total incr. cost/ft
A	25	0.001	0.003	0.02	0.004	$1.04	$0.14	$1.17
A	50	0.001	0.005	0.02	0.005	$1.16	$0.27	$1.44
A	100	0.001	0.005	0.02	0.010	$1.32	$0.54	$1.86
A	200	0.001	0.005	0.024	0.014	$1.59	$1.04	$2.64
A	300	0.001	0.006	0.024	0.021	$1.87	$1.52	$3.39
A	400	0.001	0.006	0.024	0.028	$2.09	$1.98	$4.06
A	600	0.001	0.006	0.026	0.042	$2.69	$2.88	$5.57
A	900	0.001	0.006	0.028	0.063	$3.46	$4.19	$7.65
A	1200	0.001	0.012	0.028	0.084	$4.33	$5.50	$9.83
A	1500	0.001	0.012	0.028	0.105	$5.01	$6.82	$11.82
A	1800	0.001	0.012	0.028	0.126	$5.69	$8.14	$13.83
A	2100	0.001	0.012	0.028	0.147	$6.37	$9.48	$15.84
A	2700	0.001	0.012	0.028	0.189	$7.73	$12.16	$19.89
A	3200	0.001	0.012	0.028	0.224	$8.86	$14.40	$23.27
U	25	0.001	0.006	0.062	0.006	$3.41	$0.14	$3.55
U	50	0.001	0.01	0.062	0.006	$3.64	$0.27	$3.92
U	100	0.001	0.01	0.062	0.010	$3.72	$0.54	$4.26
U	200	0.001	0.01	0.09	0.020	$4.33	$1.04	$5.37
U	300	0.001	0.01	0.09	0.030	$4.65	$1.52	$6.17
U	400	0.001	0.012	0.09	0.040	$5.07	$1.98	$7.05
U	600	0.001	0.012	0.099	0.060	$6.03	$2.88	$8.91
U	900	0.001	0.012	0.099	0.090	$7.00	$4.19	$11.19
U	1200	0.001	0.012	0.099	0.120	$7.96	$5.50	$13.47
U	1500	0.001	0.012	0.099	0.150	$8.95	$6.82	$15.76
U	1800	0.001	0.012	0.099	0.180	$9.92	$8.14	$18.06
U	2100	0.001	0.012	0.099	0.210	$10.88	$9.48	$20.37
U	2700	0.001	0.012	0.099	0.270	$12.84	$12.16	$24.99
U	3200	0.001	0.012	0.099	0.320	$14.48	$14.40	$28.88
B	25	0.001	0.003	0.02	0.004	$1.04	$0.14	$1.17
B	50	0.001	0.005	0.02	0.006	$1.16	$0.27	$1.44
B	100	0.001	0.005	0.02	0.010	$1.32	$0.54	$1.86
B	200	0.001	0.005	0.023	0.014	$1.58	$1.04	$2.60
B	300	0.001	0.006	0.023	0.021	$1.83	$1.52	$3.35
B	400	0.001	0.006	0.023	0.028	$2.06	$1.98	$4.04
B	600	0.001	0.006	0.026	0.042	$2.62	$2.88	$5.50
B	900	0.001	0.006	0.028	0.063	$3.39	$4.19	$7.58
B	1200	0.001	0.006	0.028	0.084	$4.07	$5.50	$9.57
B	1500	0.001	0.006	0.028	0.105	$4.75	$6.82	$11.57
B	1800	0.001	0.006	0.028	0.126	$5.43	$8.14	$13.57
B	2100	0.001	0.006	0.028	0.147	$6.11	$9.48	$15.59
B	2700	0.001	0.006	0.028	0.189	$7.47	$12.16	$19.63
B	3200	0.001	0.006	0.028	0.224	$8.61	$14.40	$23.01

Fixed labor per segment = (4.0 hr LG 011 + 4.0 hr LG 021 + 4.0 hr LG 111 + 4.0 hr LG 121)
= $728.72

Example: Placement o 1000 feet 400-28 cable"

		Feet	Total	Total/ft
Material cost:	$2.09	1000	$2,093.85	$2.09
Incremental labor:	$1.98	1000	$1,984.79	$1.98
Fixed labor:	$728.72		$728.72	$0.73
		TOTAL	$4,807.36	$4.81

SPREADSHEET FOR REPLICATING LOOP MODEL CALCULATIONS
CABLE - MATERIAL AND LABOR INVESTMENTS

LABOR RATES:		YE '96	Arkansas
OSP Planner	LG011	$58.86	
OSP Engineer	LG021	$50.82	
Line worker	LG111	$36.23	
Splicer	LG121	$33.94	

Hours/ft

	Size	LG011	LG021	LG111	LG121	Incremental labor $/ft	Material cost/ft	Total incr. cost/ft
A	25	0.001	0.003	0.02	0.004	$1.05	$0.14	$1.19
A	50	0.001	0.005	0.02	0.005	$1.19	$0.27	$1.46
A	100	0.001	0.005	0.02	0.010	$1.36	$0.54	$1.89
A	200	0.001	0.005	0.024	0.014	$1.63	$1.04	$2.67
A	300	0.001	0.006	0.024	0.021	$1.92	$1.52	$3.44
A	400	0.001	0.006	0.024	0.028	$2.16	$1.98	$4.14
A	600	0.001	0.006	0.028	0.042	$2.77	$2.88	$5.65
A	900	0.001	0.006	0.028	0.063	$3.59	$4.19	$7.78
A	1200	0.001	0.012	0.028	0.084	$4.51	$5.50	$10.00
A	1500	0.001	0.012	0.028	0.105	$5.22	$6.82	$12.03
A	1800	0.001	0.012	0.028	0.126	$5.93	$8.14	$14.07
A	2100	0.001	0.012	0.028	0.147	$6.64	$9.48	$16.12
A	2700	0.001	0.012	0.028	0.189	$8.07	$12.16	$20.23
A	3200	0.001	0.012	0.028	0.224	$9.28	$14.40	$23.68
U	25	0.001	0.006	0.082	0.006	$3.45	$0.14	$3.59
U	50	0.001	0.01	0.082	0.006	$3.71	$0.27	$3.98
U	100	0.001	0.01	0.082	0.010	$3.79	$0.54	$4.33
U	200	0.001	0.01	0.09	0.020	$4.42	$1.04	$5.46
U	300	0.001	0.01	0.09	0.030	$4.75	$1.52	$6.28
U	400	0.001	0.012	0.09	0.040	$5.20	$1.98	$7.18
U	600	0.001	0.012	0.099	0.060	$6.19	$2.88	$9.07
U	900	0.001	0.012	0.099	0.090	$7.21	$4.19	$11.40
U	1200	0.001	0.012	0.099	0.120	$8.23	$5.50	$13.73
U	1500	0.001	0.012	0.099	0.150	$9.25	$6.82	$16.08
U	1800	0.001	0.012	0.099	0.180	$10.26	$8.14	$18.41
U	2100	0.001	0.012	0.099	0.210	$11.28	$9.48	$20.76
U	2700	0.001	0.012	0.099	0.270	$13.32	$12.16	$25.48
U	3200	0.001	0.012	0.099	0.320	$15.02	$14.40	$29.42
B	25	0.001	0.003	0.02	0.004	$1.05	$0.14	$1.19
B	50	0.001	0.005	0.02	0.005	$1.19	$0.27	$1.46
B	100	0.001	0.005	0.02	0.010	$1.36	$0.54	$1.89
B	200	0.001	0.005	0.023	0.014	$1.60	$1.04	$2.64
B	300	0.001	0.006	0.023	0.021	$1.89	$1.52	$3.41
B	400	0.001	0.006	0.023	0.028	$2.12	$1.98	$4.11
B	600	0.001	0.006	0.026	0.042	$2.70	$2.88	$5.58
B	900	0.001	0.006	0.028	0.063	$3.52	$4.19	$7.71
B	1200	0.001	0.006	0.028	0.084	$4.23	$5.50	$9.73
B	1500	0.001	0.006	0.028	0.105	$4.94	$6.82	$11.76
B	1800	0.001	0.006	0.028	0.126	$5.66	$8.14	$13.80
B	2100	0.001	0.006	0.028	0.147	$6.37	$9.48	$15.84
B	2700	0.001	0.006	0.028	0.189	$7.79	$12.16	$19.95
B	3200	0.001	0.006	0.028	0.224	$8.98	$14.40	$23.39

Fixed labor per segment = (4.0 hr LG 011 + 4.0 hr LG 021 + 4.0 hr LG 111 + 4.0 hr LG 121)
= $707.80

Example: Placement o 1000 feet 400-28 cable"

		Feet	Total	Total/ft
Material cost:	$2.16	1000	$2,158.22	$2.16
Incremental labor:	$1.98	1000	$1,984.79	$1.98
Fixed labor:	$707.80		$707.80	$0.71
		TOTAL	$4,850.81	$4.85

SPREADSHEET FOR REPLICATING LOOP MODEL CALCULATIONS
CABLE - MATERIAL AND LABOR INVESTMENTS

LABOR RATES:		YE '96	Arizona
OSP Planner	LG011	$47.79	
OSP Engineer	LG021	$61.17	
Line worker	LG111	$38.10	
Splicer	LG121	$36.91	

Hours/ft

	Size	LG011	LG021	LG111	LG121	Incremental labor $/ft	Material cost/ft	Total incr. cost/ft
A	25	0.001	0.003	0.02	0.004	$1.11	$0.14	$1.25
A	50	0.001	0.005	0.02	0.005	$1.25	$0.27	$1.52
A	100	0.001	0.005	0.02	0.010	$1.43	$0.54	$1.97
A	200	0.001	0.005	0.024	0.014	$1.73	$1.04	$2.78
A	300	0.001	0.006	0.024	0.021	$2.04	$1.52	$3.67
A	400	0.001	0.006	0.024	0.028	$2.30	$1.98	$4.28
A	600	0.001	0.006	0.028	0.042	$2.97	$2.88	$5.85
A	900	0.001	0.008	0.028	0.063	$3.85	$4.19	$8.04
A	1200	0.001	0.012	0.028	0.084	$4.83	$5.50	$10.33
A	1500	0.001	0.012	0.028	0.105	$5.60	$6.82	$12.42
A	1800	0.001	0.012	0.028	0.126	$6.38	$8.14	$14.52
A	2100	0.001	0.012	0.028	0.147	$7.15	$9.48	$16.63
A	2700	0.001	0.012	0.028	0.189	$8.70	$12.16	$20.86
A	3200	0.001	0.012	0.028	0.224	$10.00	$14.40	$24.40
U	25	0.001	0.006	0.082	0.006	$3.70	$0.14	$3.84
U	50	0.001	0.01	0.082	0.006	$3.96	$0.27	$4.23
U	100	0.001	0.01	0.082	0.010	$4.05	$0.54	$4.59
U	200	0.001	0.01	0.09	0.020	$4.73	$1.04	$5.77
U	300	0.001	0.01	0.09	0.030	$5.10	$1.52	$6.62
U	400	0.001	0.012	0.09	0.040	$5.57	$1.98	$7.55
U	600	0.001	0.012	0.099	0.060	$6.65	$2.88	$9.53
U	900	0.001	0.012	0.099	0.090	$7.78	$4.19	$11.96
U	1200	0.001	0.012	0.099	0.120	$8.86	$5.50	$14.36
U	1500	0.001	0.012	0.099	0.150	$9.97	$6.82	$16.79
U	1800	0.001	0.012	0.099	0.180	$11.08	$8.14	$19.22
U	2100	0.001	0.012	0.099	0.210	$12.18	$9.48	$21.66
U	2700	0.001	0.012	0.099	0.270	$14.40	$12.16	$26.56
U	3200	0.001	0.012	0.099	0.320	$16.24	$14.40	$30.65
B	25	0.001	0.003	0.02	0.004	$1.11	$0.14	$1.25
B	50	0.001	0.005	0.02	0.005	$1.25	$0.27	$1.52
B	100	0.001	0.005	0.02	0.010	$1.43	$0.54	$1.97
B	200	0.001	0.005	0.023	0.014	$1.70	$1.04	$2.74
B	300	0.001	0.006	0.023	0.021	$2.01	$1.52	$3.53
B	400	0.001	0.006	0.023	0.028	$2.26	$1.98	$4.25
B	600	0.001	0.006	0.026	0.042	$2.90	$2.88	$5.78
B	900	0.001	0.006	0.026	0.063	$3.77	$4.19	$7.96
B	1200	0.001	0.006	0.026	0.084	$4.55	$5.50	$10.05
B	1500	0.001	0.006	0.026	0.105	$5.32	$6.82	$12.14
B	1800	0.001	0.006	0.026	0.126	$6.10	$8.14	$14.24
B	2100	0.001	0.006	0.026	0.147	$6.87	$9.48	$16.35
B	2700	0.001	0.006	0.026	0.189	$8.42	$12.16	$20.58
B	3200	0.001	0.006	0.026	0.224	$9.72	$14.40	$24.12

Fixed labor per segment = (4.0 hr LG 011 + 4.0 hr LG 021 + 4.0 hr LG 111 + 4.0 hr LG 121)
= $695.88

Example: Placement o 1000 feet 400-26 cable"

		Feet:	Total	Total/ft
Material cost:	$2.30	1000	$2,302.69	$2.30
Incremental labor:	$1.98	1000	$1,984.79	$1.98
Fixed labor:	$695.88		$695.88	$0.70
		TOTAL	$4,983.36	$4.98

SPREADSHEET FOR REPLICATING LOOP MODEL CALCULATIONS
CABLE - MATERIAL AND LABOR INVESTMENTS

LABOR RATES:		California
		YE '96
OSP Planner	LG011	$63.48
OSP Engineer	LG021	$56.84
Line worker	LG111	$44.00
Splicer	LG121	$38.48

Hours/ft

	Size	LG011	LG021	LG111	LG121	Incremental labor $/ft	Material cost/ft	Total incr. cost/ft
A	25	0.001	0.003	0.02	0.004	$1.27	$0.14	$1.41
A	50	0.001	0.005	0.02	0.006	$1.42	$0.27	$1.69
A	100	0.001	0.005	0.02	0.010	$1.61	$0.54	$2.16
A	200	0.001	0.005	0.024	0.014	$1.94	$1.04	$2.98
A	300	0.001	0.006	0.024	0.021	$2.27	$1.52	$3.79
A	400	0.001	0.006	0.024	0.028	$2.54	$1.98	$4.52
A	600	0.001	0.006	0.028	0.042	$3.25	$2.88	$6.13
A	900	0.001	0.006	0.028	0.063	$4.17	$4.19	$8.36
A	1200	0.001	0.012	0.028	0.084	$5.20	$5.50	$10.70
A	1500	0.001	0.012	0.028	0.105	$6.01	$6.82	$12.83
A	1800	0.001	0.012	0.028	0.126	$6.82	$8.14	$14.96
A	2100	0.001	0.012	0.028	0.147	$7.63	$9.48	$17.10
A	2700	0.001	0.012	0.028	0.189	$9.24	$12.16	$21.40
A	3200	0.001	0.012	0.028	0.224	$10.59	$14.40	$24.99
U	25	0.001	0.006	0.082	0.006	$4.24	$0.14	$4.38
U	50	0.001	0.01	0.082	0.008	$4.53	$0.27	$4.80
U	100	0.001	0.01	0.082	0.010	$4.82	$0.54	$5.16
U	200	0.001	0.01	0.09	0.020	$5.36	$1.04	$6.40
U	300	0.001	0.01	0.09	0.030	$5.74	$1.52	$7.26
U	400	0.001	0.012	0.09	0.040	$6.24	$1.98	$8.22
U	600	0.001	0.012	0.099	0.060	$7.40	$2.88	$10.29
U	900	0.001	0.012	0.099	0.090	$8.56	$4.19	$12.75
U	1200	0.001	0.012	0.099	0.120	$9.71	$5.50	$15.21
U	1500	0.001	0.012	0.099	0.150	$10.87	$6.82	$17.68
U	1800	0.001	0.012	0.099	0.180	$12.02	$8.14	$20.16
U	2100	0.001	0.012	0.099	0.210	$13.17	$9.48	$22.65
U	2700	0.001	0.012	0.099	0.270	$15.48	$12.16	$27.64
U	3200	0.001	0.012	0.099	0.320	$17.40	$14.40	$31.81
B	25	0.001	0.003	0.02	0.004	$1.27	$0.14	$1.41
B	50	0.001	0.005	0.02	0.006	$1.42	$0.27	$1.69
B	100	0.001	0.005	0.02	0.010	$1.61	$0.54	$2.16
B	200	0.001	0.005	0.023	0.014	$1.90	$1.04	$2.94
B	300	0.001	0.006	0.023	0.021	$2.22	$1.52	$3.74
B	400	0.001	0.006	0.023	0.028	$2.49	$1.98	$4.48
B	600	0.001	0.006	0.028	0.042	$3.16	$2.88	$6.04
B	900	0.001	0.006	0.028	0.063	$4.08	$4.19	$8.27
B	1200	0.001	0.006	0.028	0.084	$4.89	$5.50	$10.39
B	1500	0.001	0.006	0.028	0.105	$5.70	$6.82	$12.51
B	1800	0.001	0.006	0.028	0.126	$6.50	$8.14	$14.66
B	2100	0.001	0.006	0.028	0.147	$7.31	$9.48	$16.79
B	2700	0.001	0.006	0.028	0.189	$8.83	$12.16	$21.09
B	3200	0.001	0.006	0.028	0.224	$10.27	$14.40	$24.68

Fixed labor per segment = (4.0 hr LG 011 + 4.0 hr LG 021 + 4.0 hr LG 111 + 4.0 hr LG 121)
= $609.68

Example: Placement o 1000 feet 400-26 cable"

		Feet:	Total	Total/ft
Material cost:	$2.54	1000	$2,535.32	$2.54
Incremental labor:	$1.98	1000	$1,984.79	$1.99
Fixed labor:	$609.68		$609.68	$0.61
		TOTAL	$5,329.99	$5.33

SPREADSHEET FOR REPLICATING LOOP MODEL CALCULATIONS
CABLE - MATERIAL AND LABOR INVESTMENTS

LABOR RATES:		YE '96	Florida
OSP Planner	LG011	$62.82	
OSP Engineer	LG021	$66.79	
Line worker	LG111	$36.30	
Splicer	LG121	$36.06	

Hours/ft

	Size	LG011	LG021	LG111	LG121	Incremental labor $/ft	Material cost/ft	Total incr cost/ft
A	25	0.001	0.003	0.02	0.004	$1.20	$0.14	$1.34
A	50	0.001	0.005	0.02	0.005	$1.37	$0.27	$1.65
A	100	0.001	0.005	0.02	0.010	$1.56	$0.54	$2.10
A	200	0.001	0.005	0.024	0.014	$1.87	$1.04	$2.91
A	300	0.001	0.006	0.024	0.021	$2.21	$1.52	$3.73
A	400	0.001	0.006	0.024	0.028	$2.47	$1.98	$4.46
A	600	0.001	0.006	0.028	0.042	$3.16	$2.88	$6.04
A	800	0.001	0.006	0.028	0.063	$4.10	$4.19	$8.29
A	1200	0.001	0.012	0.028	0.084	$5.16	$5.50	$10.66
A	1500	0.001	0.012	0.028	0.105	$5.96	$6.82	$12.78
A	1800	0.001	0.012	0.028	0.126	$6.76	$8.14	$14.90
A	2100	0.001	0.012	0.028	0.147	$7.56	$9.48	$17.03
A	2700	0.001	0.012	0.028	0.189	$9.16	$12.16	$21.32
A	3200	0.001	0.012	0.028	0.224	$10.49	$14.40	$24.89
U	25	0.001	0.006	0.062	0.006	$3.91	$0.14	$4.05
U	50	0.001	0.01	0.062	0.008	$4.24	$0.27	$4.51
U	100	0.001	0.01	0.062	0.010	$4.33	$0.54	$4.87
U	200	0.001	0.01	0.09	0.020	$5.03	$1.04	$6.07
U	300	0.001	0.01	0.09	0.030	$5.41	$1.52	$6.93
U	400	0.001	0.012	0.09	0.040	$5.92	$1.98	$7.91
U	600	0.001	0.012	0.099	0.060	$7.04	$2.88	$9.92
U	900	0.001	0.012	0.099	0.090	$8.18	$4.19	$12.37
U	1200	0.001	0.012	0.099	0.120	$9.32	$5.50	$14.82
U	1500	0.001	0.012	0.099	0.150	$10.46	$6.82	$17.28
U	1800	0.001	0.012	0.099	0.180	$11.61	$8.14	$19.75
U	2100	0.001	0.012	0.099	0.210	$12.75	$9.48	$22.22
U	2700	0.001	0.012	0.099	0.270	$15.03	$12.16	$27.19
U	3200	0.001	0.012	0.099	0.320	$16.93	$14.40	$31.34
B	25	0.001	0.003	0.02	0.004	$1.20	$0.14	$1.34
B	50	0.001	0.005	0.02	0.005	$1.37	$0.27	$1.65
B	100	0.001	0.005	0.02	0.010	$1.56	$0.54	$2.10
B	200	0.001	0.005	0.023	0.014	$1.83	$1.04	$2.88
B	300	0.001	0.006	0.023	0.021	$2.17	$1.52	$3.69
B	400	0.001	0.006	0.023	0.028	$2.43	$1.98	$4.42
B	600	0.001	0.006	0.026	0.042	$3.08	$2.88	$5.96
B	900	0.001	0.006	0.026	0.063	$4.02	$4.19	$8.21
B	1200	0.001	0.006	0.026	0.084	$4.82	$5.50	$10.32
B	1500	0.001	0.006	0.026	0.105	$5.62	$6.82	$12.43
B	1800	0.001	0.006	0.026	0.126	$6.41	$8.14	$14.56
B	2100	0.001	0.006	0.026	0.147	$7.21	$9.48	$16.69
B	2700	0.001	0.006	0.026	0.189	$8.81	$12.16	$20.97
B	3200	0.001	0.006	0.026	0.224	$10.14	$14.40	$24.55

Fixed labor per segment = (4.0 hr LG 011 + 4.0 hr LG 021 + 4.0 hr LG 111 + 4.0 hr LG 121)
= $826.28

Example: Placement o 1000 feet 400-28 cable"

		Feet:	Total	Total/ft
Material cost:	$2.47	1000	$2,472.54	$2.47
Incremental labor:	$1.98	1000	$1,984.79	$1.98
Fixed labor	$826.28		$826.28	$0.83
		TOTAL	$5,283.61	$5.28