

POLE MAINTENANCE AND MISCELLANEOUS

ITEM

	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'	85'	90'	95'	100'
1. Trenching or moving: (with supply)*	1521	1703	2082	2259	2272	2399	2545	2705	4327	4449	4733	4914	5208	5359	5541
2. Trenching or moving: (without supply)*	649	651	668	723	849	811									
3. Lowering or raising to grade (one operation) :	949	1026	1070	1175	1218	1276	1490	1673	1956	2090	2283	2372	2627	2663	2797
4. Straightening in earth*:	857	875	922	939	974	997	1066	1239	1317	1763	1832	1863	1906	1934	1963
5. Removing from service:															
(a) Pulling.....per pole															862
*includes 1 hour pre-planning and engineering															
(b) Transporting.....per pole															238
(c) Topping Pole.....															311
*based on 2 cuts, topping and lowering.															
(d) Disposal.....per pole															125
*effective 07/01/02															
6. Pole Stubbing (stub-size):															
(a) 8 ft. plates.....															400
(b) 10 ft. plates.....															468
(c) 11 ft. plates.....															563
(d) 12 ft. plates.....															643
(e) 13 ft. plates.....															1385
(f) 14 ft. plates.....															2064
(g) 15.5 ft. plates.....															2388
(h) additional trusses (all sizes).....															273
7. Semi-circular cable guard (“U” guard):															
(a) Installation.....															82
(b) Transferring.....															87
8. Semi-circular pole guards:															
(a) Installation.....															149
(b) Transferring.....															118
9. Hand Dig Pole Set.....															795
(a) Inaccessible to digging equipment															
(b) Conflict-Must specify nature of conflict															
10. Sidewalk or pavement repairs for placement, replacement, or removal of pole or anchor: (Permit and/or inspection fees, if any, are by special agreement) (See also JPR Section 19.6)															
(a) Cement break and repair.....															483
(b) Asphalt break and repair.....															336
(c) Cement saw cut break and repair.....															705
11. Joint Rights of Way: (By special agreement)															
12. Pole Inspections and Treatment															
(a) Visual Inspection.....															26
(b) Partial Dig.....															30
(c) Sound and Bore.....															28
(d) Full Treatment.....															55
(e) Reject.....															27

AUTHORIZED COSTS

ITEM

13. Pole access obstructions:	
(a) Clearing poles in State Responsibility area..... (Includes cost of contractor to perform activity and post Quality Control inspection)	39
(b) Removal of vegetation to facilitate the placement/replacement of a pole	171
(c) All other by Special Agreement Section 1.2	
14. Failure to Final JPA Administrative Fee (per pole cost).....	125
15. Pole Marking	
(a) Tagging.....	33
(b) Visibility Strips	31
16. Backhoe:	
(a) 2 hour minimum.....	247
(b) Each additional hour (inclusive operator & truck).....	126
17. Wood pole fiberglass wrap restoration:	
(a) Pole set in dirt (8 ft. standard).....	1310
(b) Pole set in asphalt (includes cost of \$140 for asphalt / 8 ft. standard).....	1692
(c) Pole set in concrete (includes cost of \$245 for concrete / 8 ft. standard).....	1747
(d) Additional foot exceeding 8 ft. standard.....	116
18. Mod pole material and installation:	
(a) 9'.....	4589
(b) 14'.....	5276
(c) 18'.....	5350
Prices established are from price list received from Pole Care 6-23-00	
19. Cost for placing pole back in the same hole:	
(a) Pole placement located on street without riser and/or equipment	1183
(b) Pole placement located on street with riser and/or equipment.....	1489
(c) Pole placement on rear property with or without riser and/or equipment	1875

***NOTE:** Items 1,2,4 and 6 - For pole in sidewalk or pavement, use the specified "in earth" cost and add Item 10 as a separate item for the cost of sidewalk or pavement repair.

**TRENCHING OR MOVING
In Earth, 5' or Less, Item 1 (With Supply)
Allocation of Costs
Based on the Price Per Foot Concept**

Pole Size	Authorized Cost	Per Foot Cost	Total Shared \$	2 Owners Shared \$	3 Owners Shared \$	4 Owners Shared \$	5 Owners Shared \$	6 Owners Shared \$
30'	1521	50.70	1267.50	633.75	422.50	316.88	253.50	211.25
35'	1703	48.66	1313.74	656.87	437.91	328.44	262.75	218.96
40'	2082	52.05	1561.50	780.75	520.50	390.38	312.30	260.25
45'	2259	50.20	1506.00	753.00	502.00	376.50	301.20	251.00
50'	2272	45.44	1408.64	704.32	469.55	352.16	281.73	234.77
55'	2399	43.62	1352.16	676.08	450.72	338.04	270.43	225.36
60'	2545	42.42	1357.33	678.67	452.44	339.33	271.47	226.22
65'	2705	41.62	1331.69	665.85	443.90	332.92	266.34	221.95
70'	4327	61.81	2039.87	1019.94	679.96	509.97	407.97	339.98
75'	4449	59.32	1957.56	978.78	652.52	489.39	391.51	326.26
80'	4733	59.16	2011.53	1005.76	670.51	502.88	402.31	335.25
85'	4914	57.81	1965.60	982.80	655.20	491.40	393.12	327.60
90'	5208	57.87	2025.33	1012.67	675.11	506.33	405.07	337.56
95'	5359	56.41	1974.37	987.18	658.12	493.59	394.87	329.06
100'	5541	55.41	1939.35	969.68	646.45	484.84	387.87	323.23

**TRENCHING OR MOVING
In Earth, 5' or Less, Item 2 (Without Supply)
Allocation of Costs
Based on the Price Per Foot Concept**

Pole Size	Authorized Cost	Per Foot Cost	Total Shared \$	2 Owners Shared \$	3 Owners Shared \$	4 Owners Shared \$	5 Owners Shared \$	6 Owners Shared \$
30'	649	21.63	540.83	270.42	180.28	135.21	108.17	90.14
35'	651	18.60	502.20	251.10	167.40	125.55	100.44	83.70
40'	668	16.70	501.00	250.50	167.00	125.25	100.20	83.50
45'	723	16.07	482.00	241.00	160.67	120.50	96.40	80.33
50'	849	16.98	526.38	263.19	175.46	131.60	105.28	87.73
55'	811	14.75	457.11	228.55	152.37	114.28	91.42	76.18

**LOWERING OR RAISING
to Grade, Item 3
Allocation of Costs
Based on the Price Per Foot Concept**

Pole Size	Authorized Cost	Per Foot Cost	Total Shared \$	2 Owners Shared \$	3 Owners Shared \$	4 Owners Shared \$	5 Owners Shared \$	6 Owners Shared \$
30'	949	31.63	790.83	395.42	263.61	197.71	158.17	131.81
35'	1026	29.31	791.49	395.74	263.83	197.87	158.30	131.91
40'	1070	26.75	802.50	401.25	267.50	200.63	160.50	133.75
45'	1175	26.11	783.33	391.67	261.11	195.83	156.67	130.56
50'	1218	24.36	755.16	377.58	251.72	188.79	151.03	125.86
55'	1276	23.20	719.20	359.60	239.73	179.80	143.84	119.87
60'	1490	24.83	794.67	397.33	264.89	198.67	158.93	132.44
65'	1673	25.74	823.63	411.82	274.54	205.91	164.73	137.27
70'	1956	27.94	922.11	461.06	307.37	230.53	184.42	153.69
75'	2090	27.87	919.60	459.80	306.53	229.90	183.92	153.27
80'	2283	28.54	970.28	485.14	323.43	242.57	194.06	161.71
85'	2372	27.91	948.80	474.40	316.27	237.20	189.76	158.13
90'	2627	29.19	1021.61	510.81	340.54	255.40	204.32	170.27
95'	2663	28.03	981.11	490.55	327.04	245.28	196.22	163.52
100'	2797	27.97	978.95	489.48	326.32	244.74	195.79	163.16

**STRAIGHTENING
in Earth, Item 4
Allocation of Costs
Based on the Price Per Foot Concept**

Pole Size	Authorized Cost	Per Foot Cost	Total Shared \$	2 Owners Shared \$	3 Owners Shared \$	4 Owners Shared \$	5 Owners Shared \$	6 Owners Shared \$
30'	857	28.57	714.17	357.08	238.06	178.54	142.83	119.03
35'	875	25.00	675.00	337.50	225.00	168.75	135.00	112.50
40'	922	23.05	691.50	345.75	230.50	172.88	138.30	115.25
45'	939	20.87	626.00	313.00	208.67	156.50	125.20	104.33
50'	974	19.48	603.88	301.94	201.29	150.97	120.78	100.65
55'	997	18.13	561.95	280.97	187.32	140.49	112.39	93.66
60'	1066	17.77	568.53	284.27	189.51	142.13	113.71	94.76
65'	1239	19.06	609.97	304.98	203.32	152.49	121.99	101.66
70'	1317	18.81	620.87	310.44	206.96	155.22	124.17	103.48
75'	1763	23.51	775.72	387.86	258.57	193.93	155.14	129.29
80'	1832	22.90	778.60	389.30	259.53	194.65	155.72	129.77
85'	1863	21.92	745.20	372.60	248.40	186.30	149.04	124.20
90'	1906	21.18	741.22	370.61	247.07	185.31	148.24	123.54
95'	1934	20.36	712.53	356.26	237.51	178.13	142.51	118.75
100'	1963	19.63	687.05	343.53	229.02	171.76	137.41	114.51

**TRANSFER COSTS
GUY WIRES**

ITEM

20. Guy wires - transfer (overhead, span, arm, or anchor) including insulators if used:	
(a) All types and sizes, each end.....	215
(b) Sidewalk anchor guys (pipe brace and fittings, all sizes).....	279
NOTE: When necessary to relocate a guy insulator, add the following to above cost:	
(c) Insulator relocation.....	167

**TRANSFER COSTS
POWER CIRCUITS**

ITEM

21. Crossarms - raising, lowering, or transferring of all size crossarms whether in flat, vertical, sidearm or triangular configuration, including the insulators:										
	<table style="margin-left: auto; margin-right: 0;"> <tr> <td></td> <td style="text-align: center;">Plus</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Conductor</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Arm</td> <td style="text-align: center;">Each</td> </tr> </table>		Plus			Conductor			Arm	Each
	Plus									
	Conductor									
	Arm	Each								
(a) 0-7.5kv single arm (includes service arm).....	285 225									
(b) 0-7.5kv double arm.....	785 235									
(c) 0-7.5kv double arm with reinforcing bracket.....	1002 235									
(d) 0-7.5kv sidearm - single.....	209 146									
(e) 0-7.5kv sidearm - double.....	732 210									
(f) 7.6-15kv single arm.....	180 342									
(g) 7.6-15kv double arm.....	338 342									
(h) 7.6-15kv sidearm - single.....	338 342									
(i) 7.6-15kv sidearm - double.....	585 342									
(j) 16-34kv single arm.....	440 251									
(k) 16-34kv double arm.....	628 257									
(l) 16-34kv double arm with reinforcing bracket.....	827 257									
(m) 16-34kv sidearm - single.....	442 342									
(n) 16-34kv sidearm - double.....	891 271									
(o) 66-115kv single arm.....	516 337									
(p) 66-115kv double arm.....	722 337									
(q) 66-115kv steel arm.....	312 188									

NOTE: the specified conductor price is to be applied only when it is necessary to untie and retie the conductor. Where the conductors only are being transferred, the conductor price should be doubled. Add Item 24 for bonding cost.

NOTES CONCERNING ITEMS 21 AND 22:

For strain dead ends on arm, omit specified conductor cost and add Item 22. For Close Buck (Smith Corner) construction, cost of transferring corner arm bracing is extra by field agreement.
 In triangular or vertical configuration, when circuits are of different voltage or different type of conductor support, apply arm cost for higher voltage involved and respective conductor cost according to voltage. Where circuits are of different ownership, the utility transferring arms and its own circuit will apply both costs, and the utility transferring conductors only will apply double the specified conductor price.

22. Dead ends - on arm or direct to pole, per each dead end, any conductor size:	
(a) 0-750 volt secondary.....	151
(b) 750-7,500 volt primary.....	324
(c) 7.6-115kv - 1 or 2 strain insulators.....	744
(d) 7.6-115kv - 3 or 4 strain insulators.....	779
(e) 7.6-115kv - 5 or 6 strain insulators.....	359

NOTE: For dead ends on arm, add the cost of appropriate arm listed under Item 21. Add Item 24 for bonding cost

AUTHORIZED COSTS

ITEM

23. Changing type of construction – horizontal to vertical, triangular to horizontal, vertical to horizontal, etc.: (labor cost only - additional arms are extra)	
(a) Horizontal to vertical 7.5-115kv single arm, per pole.....	1266
(a1) Triangular to Horizontal 7.5-115kv single arm, per pole	1452
(a2) Vertical to Horizontal 7.5-115kv single arm, per pole	1751
(b) Horizontal to vertical 7.5-115kv double arm, per pole.....	1295
(b1) Triangular to Horizontal 7.5-115kv double arm, per pole	1452
(b2) Vertical to Horizontal 7.5-115kv double arm, per pole	1751
NOTE: Cost of rebonding is included in above prices.	
24. Bonding, per pole:	
(a) Single circuit - all voltages.....	256
(b) Double circuit - all voltages.....	442
25. Ground wire, including protective covering.....	376
26. Pole top switches (oil or open air): Price by field agreement (cost to be estimated and agreed to by field engineers)	
27. Racks and brackets, secondary:	
(a) Rack, 3 or 4 wire - direct to pole.....	209
plus conductor, each.....	136
(b) Bracket, triplex.....	142
plus triplex conductor.....	155
NOTE: If rack or bracket supports service drops only, omit specified line conductor cost and add Item 28. If service drops originate from line conductors, Item 28 is additional	
28. Service conductors - transferring, raising or lowering:	
(a) #4 conductor or smaller.....	88
(b) Larger than #4 conductor.....	139
(c) Triplex service conductors.....	136
29. Transformers, including cutouts, heel arm, and lightning arresters (hanger arms or brackets are extra):	
(a) 1-1/2 to 25 kva, each.....	1692
(b) 30 to 167 kva, each.....	1898
(c) Mounting brackets, two transformers.....	238
NOTE: If two transformers are on the same arm, deduct \$99 from the total; if three transformers are on the same arm, deduct \$246 from the total.	
30. Capacitors and associated equipment:	
(a) Capacitor bank, switched.....	3476
(b) Capacitor bank, non-switched.....	2105
31. Street lights:	
(a) Center suspension type - span end.....	192
(b) Center suspension type - feed end.....	374
(c) Goose neck or bracket type - open wire.....	167
(d) Goose neck or bracket type - conduit on pole.....	380
(e) Mast arm type.....	475
(f) Pole top pin and insulator - single.....	88
(g) Pole top pin and insulator - double.....	49
32. Meter or time switch control box: Price by field agreement	
33. Supports:	
(a) Single insulator, fiberglass.....	202
(b) Double insulator, fiberglass.....	202
(c) Triple insulator, fiberglass.....	89
(d) Pole top insulator, fiberglass.....	202
34. Support, single deadend, fiberglass.....	202

ITEM

35. Insulator mounting brackets:
(a) Single (vertical or horizontal)..... 192
(b) Double (vertical)..... 247
(c) Single, over 40kv..... 523

36. Steel crossarm, squirrel cage bracket, including insulator:
(a) Single..... 231
(b) Double..... 334

37. Double circuit side mount insulators (“Dreyfuss Sunburst”)..... 4172

38. Insulator assembly bracket for endarm mountings..... 459
NOTE: Refer to Item 21 for conductor cost

49. Transferring, raising, or lowering of power line equipment not listed:
Specify under this item number the nature thereof and the agreed cost.

**TRANSFER COSTS
COMMUNICATION CIRCUITS**

ITEM

75. Crossarms/Guardarms - transferring, raising, or lowering, per arm:
(a) Single..... 217
(b) Double..... 465

78. Drive hook with wedge grip unit (“P” tie), either single drop wire or multiple drop wire including conductor:
(a) Transferring, raising, or lowering drive hook with one wedge grip unit..... 41
(b) Transferring, raising, or lowering additional wedge grip units on same hook, each..... 39

79. Multiple distribution service wire on line pole..... 94

81. “C” rural wire (1 pair):
(a) “C” rural wire on line pole, each pair..... 58
(b) “C” rural wire on dead-end pole, each pair..... 78

82. Cable arm with one cable - transferring, raising, or lowering:
(a) Single wood arm..... 256
(b) Double wood arm..... 361
(c) Extension arm (“F” or Alley arm)..... 320
(d) Additional cable (on separate messenger) on same arm..... 95
NOTE: The above prices do not include cable terminals.

83. Cable attached direct to pole..... 115

84. Messenger reinforcing units:
(a) Reinforcing strap, each..... 50
(b) Reinforcing link, each..... 59

85. Messenger without cable - transferring, raising, or lowering: (See Item 82 for transfer of arms)
(a) Single wood arm..... 103
(b) Double wood arm..... 153
(c) Extension arm (“F” or Alley arm)..... 196
(d) Direct to pole..... 152

86. Messenger dead end, all sizes, with or without cable..... 143

87. Cable terminal transfer: (pole to pole, no splicing)
(a) Distribution cable terminal (25x - 50x)..... 111
(b) Feeder distribution interface..... 180
(c) Pole seat or balcony..... 223

AUTHORIZED COSTS

ITEM

88. Multiple distribution wire terminal transfer.....	61
89. Cable terminal replacement (cost to place new terminal and remove old terminal, including splicing due to replacement of pole at location to which existing terminal cannot be transferred) :	
(a) All types of terminals except Ready Access-25 Pair or less.....	684
(b) Ready Access-24 Pair or less.....	470
(c) Ready Access-24 Pair to 50 Pair.....	748
NOTE -When necessary to use multiple distribution stub, add the following to cost above;	
(d) Multiple distribution stub for Ready Access type.....	466

NOTE-Costs of drop and/or line pair rearrangements and cable transfer are not included in the above prices and are added only when cost of transfer is made applicable under the Routine. For replacement of terminals larger than 50 pair, the cost is to be billed under Item #109.

91. Cable splicing, average cost per splice, per pair:

(a) 18 pair.....	@ 9.16 per pair.....	333
(b) 25 pair.....	@ 6.56 per pair.....	332
(c) 50 pair.....	@ 4.20 per pair.....	378
(d) 100 pair.....	@ 3.74 per pair.....	542
(e) 200 Pair.....	@ 3.09 per pair.....	786
(f) 300 pair.....	@ 2.90 per pair.....	1039
(g) 400 pair.....	@ 2.49 per pair.....	1163
(h) 600 pair.....	@ 2.41 per pair.....	1614
(i) 700 pair.....	@ 2.43 per pair.....	1866
(j) 800 pair.....	@ 2.46 per pair.....	2133
(k) 900 pair.....	@ 2.52 per pair.....	2435
(l) 1200 pair.....	@ 2.49 per pair.....	3154

***Splice enclosure disassemble/re-assemble cost of \$168.10 embedded in prices listed above.

***NOTE: if tow splices are required, then the above amounts are doubled, plus the cost of the cable needed to enable the splicing process. Installation costs will be called out separately. Section 1.2 to be utilized if costs exceed those called out above.

92. Cable risers, including pipe and molding, each:.....	321
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93. Underground and terminal facilities:

Where the location of a pole makes reconstruction of cable plant necessary, the engineer is to estimate the cost (exclusive of material) and include same under this item number in the billing.

94. Fiber Optic Splicing/Testing:

(a) FUSION	
(1) 24 strand.....	1942
(2) 48 strand.....	3215
(3) 60 strand.....	4073
(4) 72 strand.....	4729
(5) 96 strand.....	6203
(6) 144 strand.....	8663

96. Transfer Wireless Equipment:.....	5142
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97. Transfer meter circuit breaker box/disconnect box.....	1091
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109. Transferring, raising, or lowering of communication not listed:

Specify under this item number the nature thereof and agreed cost.

**INSTALLATION COSTS
GUYS AND ANCHORS**

ITEM

110. Guy wire, complete make-up:

(a) Overhead, span, or arm guy.....	339
(b) Anchguy.....	267
(c) Cutting-in an insulator in existing guy.....	217
(d) Attaching span guy to interset pole.....	215
(e) Guy guards.....	49

NOTE: Where it is necessary to reattach the guy at pole or anchor end, due to cutting-in an insulator, the cost of relative Sub-Item 20 is to be added.

111. Anchors:

(a) Expanding Plate (Hand Dig).....	1079
(b) Expanding Plate (Truck Access).....	534
(c) PISA (Screw Anchor).....	446
(d) Hydraulically Driven (Mantaray).....	423
(e) Concreting an anchor.....	222
(f) Sale of abandoned anchor to another utility – all sizes.....	71
(g) Existing Anchor Purchase (Rear property).....	755
(h) Existing Anchor Purchase (Street/alley).....	374

NOTE: Actual size of anchor needs to be noted on JPA along with the appropriate item number for type.

Items 111 (g), and (h) are calculated at 70% of Item 111 (a) and (b) respectively.

112. Sidewalk anchor fittings:

(a) 2" pipe brace and fittings.....	193
(b) 2-1/2" pipe brace and fittings.....	201
(c) 3" pipe brace and fittings.....	208
(d) Sale of abandoned pipe brace and fittings to another utility - all sizes.....	102

NOTE: For anchor and rod, include relative Item under 111. For guy wire, include relative Item under 110. For transfer of guy wire or sidewalk fitting see Item 20.

115. Heel/toe bracing pole:

(a) With treated wood blocks, new pole.....	373
(b) With treated wood blocks, existing pole.....	621

116. Breast blocking only, new or existing pole:

(a) With treated wood block.....	230
(b) With concrete block.....	280

119. Installation of special guy equipment not listed:
Specify under this item number the nature thereof and the agreed cost.

AUTHORIZED COSTS

INSTALLATION COSTS POWER CIRCUITS

ITEM

120. Crossarms, standard line (pins and insulators are extra):
These are costs for installation or attachment to existing
(For attachment to existing, use arm cost only)

	Arm	Plus Conductor	
		Each	Each
(a) 0-7.5kv single arm (includes service).....	363		144
(b) 0-7.5kv double arm.....	598		151
(c) 0-7.5kv double arm with reinforcing brackets.....	873		151
(d) 0-7.5kv sidearm - single.....	305		128
(e) 0-7.5kv sidearm - double.....	616		175
(f) 7.6-15kv single arm.....	273		196
(g) 7.6-15kv double arm.....	611		196
(h) 7.6-15kv sidearm - single.....	313		196
(i) 7.6-15kv sidearm - double.....	666		196
	Arm	16-34kv	66-115kv
(j) 16-115kv single arm.....	523	167	123
(k) 16-115kv double arm.....	778	173	123
(l) 16-115kv double arm with reinforcing brackets.....	1024	173	123
(m) 16-115kv sidearm - single.....	434	196	184
(n) 16-115kv sidearm - double.....	743	197	123

NOTE: For dead end on arms, omit the specified conductor cost and add Item 123.

For Close Buck (Smith Corner) construction, the cost of installing corner arm bracing is extra by field Agreement. See Items 122 and 123 for insulator cost and Item 24 for bonding cost.

121. Pole top extensions, including arms (pins and insulators are extra):

	Extension Complete	Plus Conductor Each
(a) 6 or 7 ft. extension.....	1124	174
(b) 8 or 9 ft. extension.....	536	157

NOTE: Price for extensions of other lengths to be by field agreement. Where existing conductors are Raised, apply specified conductor cost; the cost of raising pins and insulators in such cases shall not be included. See Item 122 for insulator cost and Item 24 for bonding cost.

122. Insulators, including pins and hardware:

(a) 0-7.5kv pin type, each.....	63
(b) 11 or 16kv pin type, each.....	86
(c) 34kv pin type, each.....	217
(d) 66kv pin type, each.....	224
(e) 11 and 16kv post type, each.....	126
(f) 34kv post type, each.....	215
(g) 66kv post type, each.....	433
(h) 34 to 115kv suspension (strain) type, each insulator.....	167

123. Dead ends, on arm or direct to pole, per each strain dead end:

(a) 0-750 volt secondary.....	75
(b) 750-7,500 volt primary.....	102
(c) 11 or 16kv - 1 strain insulator.....	79
(d) 11 or 16kv - 2 strain insulators.....	141
(e) 34kv - 4/0 conductor or smaller - 2 insulators.....	275
(f) 34kv - 4/0 conductor or smaller - 3 insulators.....	300
(g) 34kv - larger than 4/0 conductor - 3 insulators.....	303
(h) 66 to 115kv - 4/0 conductor or smaller - 4 insulators.....	587
(i) 66 to 115kv - larger than 4/0 conductor - 4 insulators.....	609

NOTE: Add \$70 for each additional insulator on items (c) to (d). Add \$127 for each additional insulator on items (e) to (f). Add \$143 for each additional insulator on item (g). Add \$183 for each additional insulator on item (h). Add \$199 for each additional insulator on item (i). See Item 120 for cost of arms.

ITEM

124. Racks and brackets, secondary:
(a) Rack, 3 or 4 wire - direct to pole..... 157
 plus conductor, each..... 127
(b) Bracket, Triplex..... 110
 plus Triplex conductor..... 130

125. Secondary neutral ground assembly, complete..... 387
NOTE: This item is to be used only by those utilities that have executed agreements for the installation of grounds.

126. Support:
(a) Single insulator, fiberglass..... 173
(b) Double insulator, fiberglass..... 195
(c) Triple insulator, fiberglass..... 178
(d) Pole top insulator, fiberglass..... 170

127. Support, single dead end, fiberglass..... 178

128. Insulator mounting bracket:
(a) Single (vertical or horizontal)..... 276
(b) Double (vertical)..... 258
(c) Single, over 40kv..... 738

129. Steel crossarm, squirrel cage bracket, including insulator:
(a) Single..... 550
(b) Double..... 491

130. Double circuit side mount insulators (“Dreyfuss Sunburst”)..... 2308

131. Insulator assembly bracket for endarm mounting..... 528

132. Mounting bracket:
(a) Two transformers..... 300
(b) Three transformers..... 580
NOTE: Refer to Item 120 for conductor cost.

149. Installation of power line equipment not listed:
Specify under this item number the nature thereof and the agreed cost.

**INSTALLATION COSTS
COMMUNICATION CIRCUITS**

ITEM

160. Crossarms/Guard Arms: (For installation or attachment to existing with service wire only)
(a) Single wood service or guard arm..... 179
(b) Double wood service or guard arm..... 255
(c) Attach to existing arm..... No Charge

163. Drive hook with wedge grip unit (“P” tie), either single drop or multiple drop wire, including conductor:
(a) Drive hook with one wedge grip unit..... 41
(b) Additional wedge grip units on same hook, each..... 33

164. Cable arm: (For installation or attachment to existing)
(a) Single arm w/ one cable..... 209
(b) Double arm w/ one cable..... 290
(c) Extension arm (“F” or Alley arm) w/ one cable..... 211
(d) Additional cable (on separate messenger) on same arm..... 171
(e) Attach to existing cable arm..... No Charge

165. Cable attached direct to interset pole, each..... 109

AUTHORIZED COSTS

ITEM

166. Messenger reinforcing units:	
(a) Reinforcing strap, each.....	60
(b) Reinforcing link, each.....	64
167. Messenger without cable:	
(a) Single arm.....	149
(b) Double arm.....	151
(c) Extension arm ("F" or Alley arm).....	150
(d) Direct to pole.....	104
(e) Additional messenger.....	88
168. Multiple distribution service wire attached to pole or crossarm.....	58
169. Protective covering - wood or plastic: (Box guard)	
Street light stds. (marbelite or metal), each location.....	63
NOTE: Billing is optional, depending on policy of utility.	
170. Bonding to secondary neutral ground, per pole.....	81

INSTALLATION COSTS FIBER OPTICS

171. Install Wireless Equipment:.....	5820
199. Installation of communication equipment not listed:	
Specify under this item number the nature thereof and the agreed cost.	