
Kevin Balazs |
v. | Docket No.:
Duquesne Light Company | C-2024-3051077
|
Initial Call-In |
Telephonic Hearing

Pages 1 - 141

Judge's Chambers
Piatt Place
301 5th Avenue
Suite 220
Pittsburgh, PA

Tuesday, April 1, 2025
Commencing at 10:00 a.m.

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Docket No. C-2024-3051077

Hearing Date: April 1, 2025

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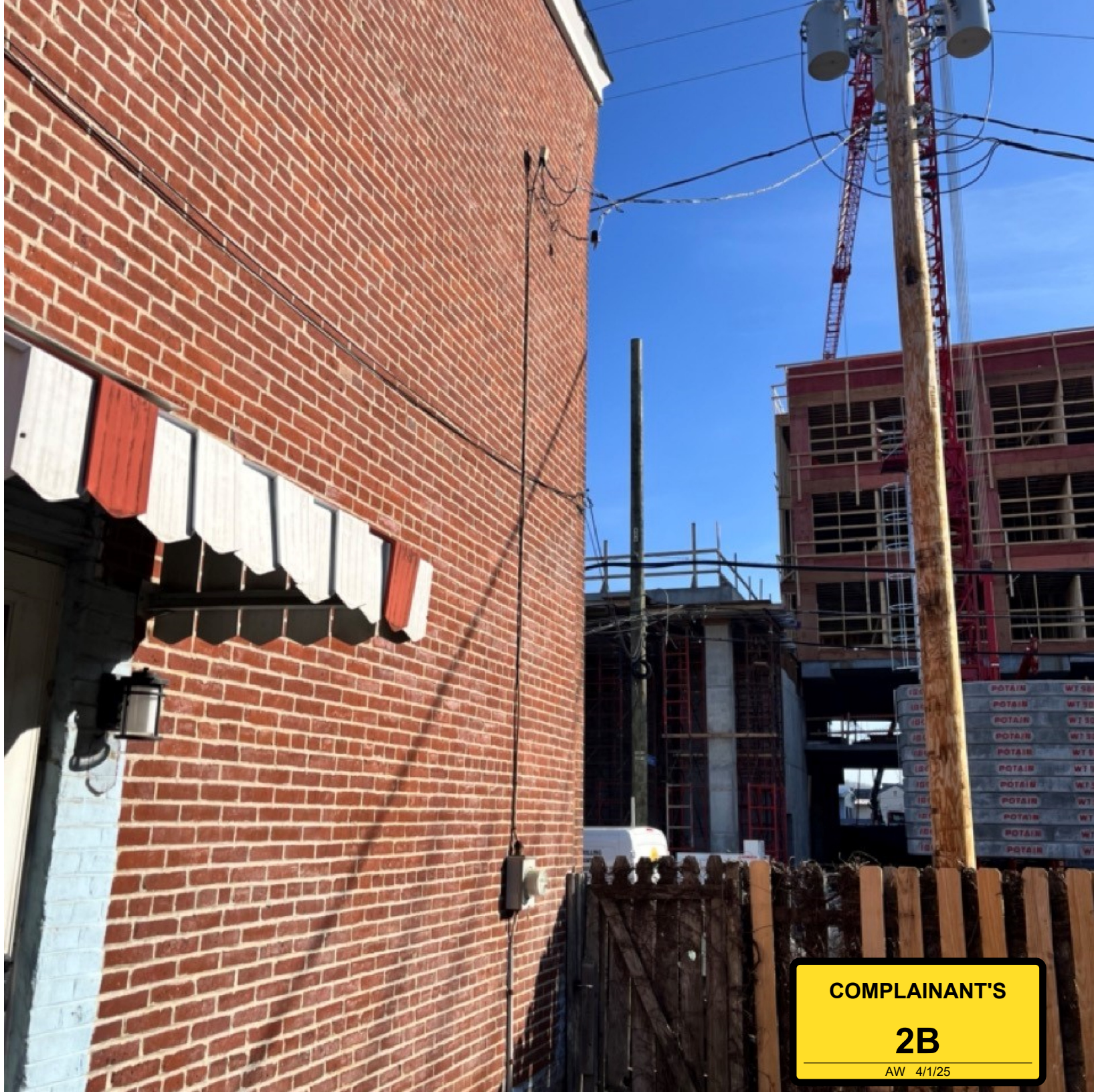
COMPLAINANT'S

1

AW 4/1/25



COMPLAINANT'S
2A
AW 4/1/25



COMPLAINANT'S
2B
AW 4/1/25



COMPLAINANT'S

2C

AW 4/1/25



35

COMPLAINANT'S
2D
AW 4/1/25



COMPLAINANT'S

3A

AW 4/1/25



COMPLAINANT'S

3B

AW 4/1/25



COMPLAINANT'S
3C
AW 4/1/25



COMPLAINANT'S

3D

AW 4/1/25



COMPLAINANT'S

4

AW 4/1/25

UNKNOWN

(888)

393-7100



mess...



call



video



mail



pay

September 9, 2024

10:24 AM **Outgoing Call**

12 minutes

COMPLAINANT'S

6

AW 4/1/25

Share Contact

DLC EXHIBIT NO. 1



Berlin Way

35

WEST PENN
HOSPITAL
EMPLOYEES
AND VISITORS
PARKING

90 CAT
ALISLE
EXCAVATOR

EDIE
717-436-6060

Search Google Maps

Share X

DLC Exhibit No. 1

Page 2 of 5

← **65 McCandless Ave**
 Pittsburgh, Pennsylvania

Google Street View

Nov 2024 [See latest date](#)



Navigation controls including a compass, zoom in (+) and zoom out (-) buttons, a street view pegman icon, and a close (X) button.

Search Google Maps

Share

DLC Exhibit No. 1
Page 3 of 5

← 65 McCandless Ave
Pittsburgh, Pennsylvania

Google Street View

Nov 2024 See latest date



Navigation controls including a compass, zoom in (+) and zoom out (-) buttons, a street view pegman icon, and a close (X) button.

Search Google Maps



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DLC Exhibit No. 1
Page 4 of 5

← 39 McCandless Ave

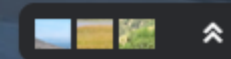
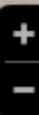


Pittsburgh, Pennsylvania



Google Street View

Nov 2024 See latest date



Search Google Maps



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5299 Harrison St



Pittsburgh, Pennsylvania



Google Street View

Nov 2024 See latest date

DLC Exhibit No. 1
Page 5 of 5



DLC EXHIBIT NO. 2

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64 McCandless Ave



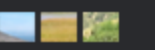
Pittsburgh, Pennsylvania



Google Street View

Jul 2017

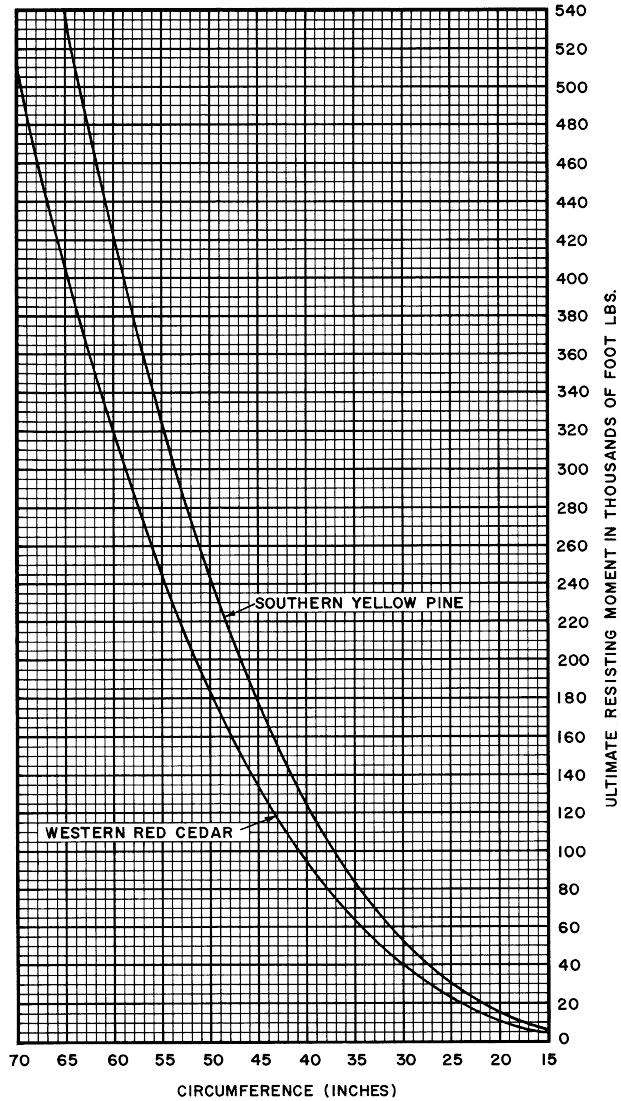
See latest date



DLC EXHIBIT NO. 4

SECTION 3- POLES

OH-3-12
1-2-59



RESISTING MOMENTS
OF POLES

DUQUESNE LIGHT CO. STANDARDS
FOR T. & D. DESIGN & CONSTRUCTION

NO.	DATE	REVISION	DRAWN	CHKD.	APPR.	APPROVED BY STDA. COMMITTEE	DATE AUTHORIZED	CASE RECORD NO.

DUQUESNE LIGHT COMPANY	
ENGINEERING & CONSTRUCTION	PITTSBURGH, PA.
TRANSMISSION & DISTRIBUTION DESIGN & CONSTRUCTION STANDARD	
DATE 8-25-58	DRAWN F.J.V.
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>
APPROVED BY STANDARDIZATION COMMITTEE	DATE 12-19-58
CASE RECORD NUMBER 117	DATE AUTHORIZED 1-2-59

No. 61057

SECTION 3 - POLES

OH-3-13
2-25-75

POLE LOADING LIMITS (IN POUNDS)

POLE SIZE	MOUNTING DISTANCE FROM TOP OF POLE TO TOP EQUIPMENT MTG. BOLT																		
	HT. CL.	0'-10"	1'-10"	2'-10"	3'-10"	4'-10"	5'-10"	6'-10"	7'-10"	8'-10"	9'-10"	10'-10"	11'-10"	12'-10"	13'-10"	14'-10"	15'-10"	16'-10"	17'-10"
	35' 7	564	622	644	711	785	836	902	997	1103	1154	1280	1422	1582	1672	1870	2097	2289	2537
*	35' 5	1030	1111	1187	1281	1385	1497	1605	1739	1887	2051	2233	2413	2639	2893	3181	3510	3857	4296
	35' 3	1711	1832	1964	2107	2281	2451	2637	2841	3066	3313	3588	3924	4269	4657	5098	5602	6184	6860
*	40' 5	885	940	1009	1084	1152	1238	1331	1418	1526	1644	1757	1896	2050	2199	2384	2589	2795	3049
*	40' 3	1467	1564	1667	1778	1913	2042	2182	2332	2496	2673	2866	3077	3332	3588	3870	4182	4530	4920
*	45' 3	1301	1381	1468	1559	1657	1762	1873	1993	2122	2260	2408	2569	2742	2931	3135	3334	3577	3843
*	45' 2	1628	1725	1842	1952	2069	2194	2345	2489	2643	2809	2987	3201	3410	3637	3883	4178	4473	4796
*	50' 2	1462	1544	1631	1724	1822	1925	2051	2169	2294	2428	2571	2723	2887	3062	3250	3453	3672	3934
	55' 2	1326	1398	1473	1553	1637	1726	1819	1918	2023	2135	2252	2378	2511	2652	2804	2965	3137	3322
	60' 2	1213	1277	1343	1413	1475	1552	1632	1718	1807	1902	2001	2107	2218	2320	2445	2576	2716	2865

* - NORMAL D.L. CO. STOCK

SOUTHERN YELLOW PINE POLES
DETAIL 3-13-A

POLE LOADING LIMITS (IN POUNDS)

POLE SIZE	MOUNTING DISTANCE FROM TOP OF POLE TO TOP EQUIPMENT MTG. BOLT																		
	HT. CL.	0'-10"	1'-10"	2'-10"	3'-10"	4'-10"	5'-10"	6'-10"	7'-10"	8'-10"	9'-10"	10'-10"	11'-10"	12'-10"	13'-10"	14'-10"	15'-10"	16'-10"	17'-10"
	35' 7	423	468	516	569	605	659	719	794	877	969	1072	1188	1318	1423	1571	1741	1955	2204
	35' 5	781	843	919	1001	1081	1179	1275	1394	1524	1655	1815	1994	2177	2403	2661	2932	3271	3666
	35' 3	1292	1396	1509	1631	1765	1926	2087	2264	2460	2676	2916	3184	3485	3826	4212	4687	5202	5803
	40' 5	664	721	781	838	909	975	1057	1136	1233	1338	1440	1566	1690	1841	2009	2179	2367	2599
	40' 3	1108	1191	1281	1388	1492	1605	1726	1858	2001	2157	2344	2532	2738	2964	3215	3494	3805	4181
	45' 3	983	1052	1127	1207	1292	1384	1482	1588	1701	1824	1956	2098	2253	2422	2605	2805	3025	3266
	45' 2	1230	1314	1414	1509	1611	1720	1850	1976	2111	2273	2431	2602	2787	3007	3227	3467	3730	4042
*	50' 2	1105	1176	1252	1333	1418	1520	1618	1722	1833	1951	2078	2214	2359	2516	2685	2885	3082	3296
*	55' 2	1002	1065	1131	1201	1274	1353	1435	1523	1617	1716	1821	1933	2052	2180	2316	2461	2617	2785
*	60' 2	917	973	1023	1084	1149	1216	1288	1354	1434	1518	1607	1701	1790	1895	2007	2126	2253	2374

* - NORMAL D.L. CO. STOCK

WESTERN RED CEDAR POLES
DETAIL 3-13-B

NOTE:

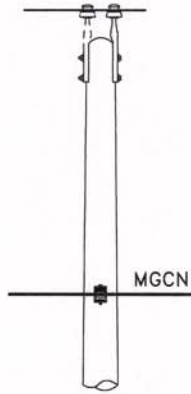
1. THE ABOVE LOADINGS ARE BASED ON:
 - (A) ECCENTRICITY OF LOAD = 22" (FROM CENTER OF POLE TO CENTER OF LOAD).
 - (B) RESULTING FIBER STRESS IN POLES NOT EXCEEDING 25 % OF BREAKING STRENGTH BASED ON NESC ULTIMATE FIBER STRESS. (S.Y.P. = 8,000 P.S.I. ; W.R.C. = 6,000 P.S.I.)
 - (C) MAXIMUM POLE TOP DEFLECTION OF 6 INCHES.
 - (D) MINIMUM CIRCUMFERENCE POLES OF THE VARIOUS CLASSES.
2. A POLE NOTED TO BE SERIOUSLY DETERIORATED OR TO HAVE EXCESSIVE KNOTS, SPUR MARKS OR BOLT HOLES MIGHT NOT HAVE THE LOAD CARRYING CAPACITY OF A MINIMUM DIMENSIONED POLE OF GOOD QUALITY AND CARE SHOULD BE EXERCISED IN ATTEMPTING TO APPLY LOADS IN THE ABOVE TABLES TO SUCH POLES.



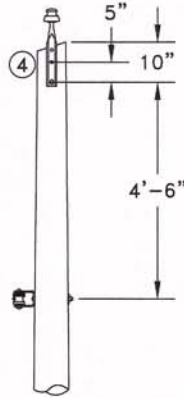
DUQUESNE LIGHT CO. STANDARDS
FOR I&D DESIGN & CONSTRUCTION

EQUIPMENT
POLE LOADING LIMITS

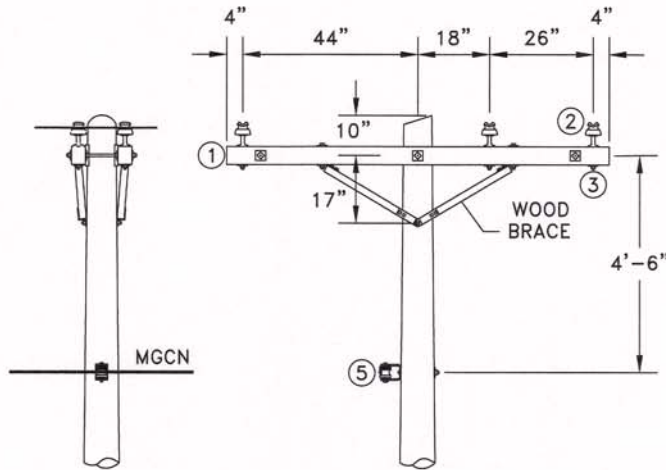
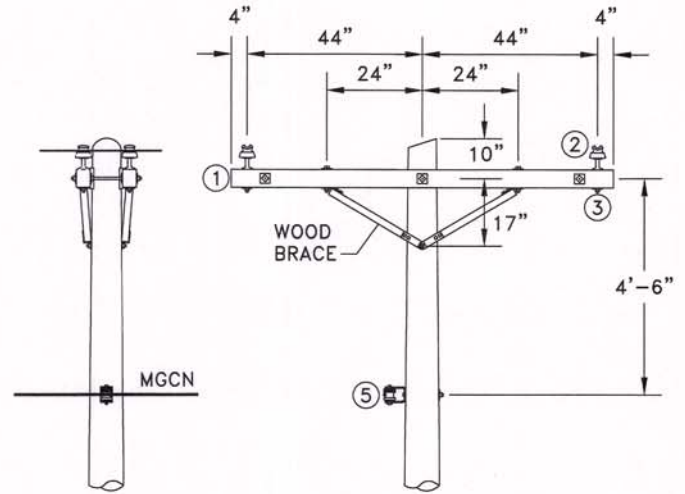
NO.	DATE	REVISION	DRAWN	CHKD.	APPR.	APPROVED BY	DATE	CASE
	5-24-73	SUPERSEDES DWG. OH-3-13 DATED 1-2-59. POLE LOADING LIMITS REFLECT INCREASED FIBER STRESS OF POLES, AND PREVIOUS ERROR IN CALCULATING OF DETAIL 3-13-B.	F.J.V.	ACS	[Signature]	[Signature]	2/24/75	
<p align="center">DUQUESNE LIGHT COMPANY ENGINEERING & CONSTRUCTION PITTSBURGH, PA.</p> <p align="center">FORM D1384 TRANSMISSION & DISTRIBUTION DESIGN & CONSTRUCTION STANDARD</p> <p>DATE 5-24-73 DRAWN F.J.V. CHECKED APPROVED</p> <p>APPROVED BY STANDARDIZATION COMMITTEE</p> <p>CASE RECORD NUMBER DATE AUTHORIZED No. 61071</p>								



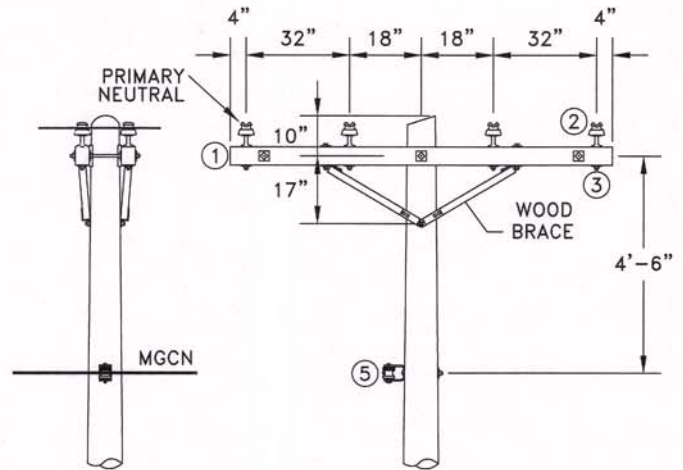
1 PHASE
DETAIL 7-1-A



1 PHASE W/ PRIMARY NEUTRAL OR TWO PHASE
DETAIL 7-1-B



2 PHASE W/ PRIMARY NEUTRAL OR 3 PHASE
DETAIL 7-1-C



3 PHASE W/ PRIMARY NEUTRAL
DETAIL 7-1-D

NOTES:

1. THIS CONSTRUCTION TO BE USED WITH:

DETAIL 7-1-A FOR ALL WIRE SIZES

- 1) ANGLES OF 0° TO 25°, USE POLE TOP PIN #211069.
- 2) ANGLES OF 26° TO 60°, USE TWO POLE TOP PINS #211069.

DETAIL 7-1-B OR C FOR #2 AL., #3 CU. & #6 CU. WIRE SIZES

- 1) ANGLES OF 0° TO 5°, USE LIGHT DUTY PIN #211015 & SXA.
- 2) ANGLES OF 6° TO 25°, USE HEAVY DUTY PIN #211012 & SXA.
- 3) ANGLES OF 26° TO 60°, USE HEAVY DUTY PIN #211012 & DXA.

DETAIL 7-1-B OR C FOR #4/0 AL., 397.5 AL., 1/0 CU., 4/0 CU. & 250 CU. WIRE SIZES

- 1) ANGLES OF 0° TO 25°, USE HEAVY DUTY PIN #211012 & SXA.
- 2) ANGLES OF 26° TO 60°, USE HEAVY DUTY PIN #211012 & DXA.

MATERIAL LIST

ITEM	DESCRIPTION	DETAIL REFERENCE	STOCK NO.
1	8'-0" SXA OR DXA ASSEMBLY	4-1-A, B	200066
2	INSULATOR, 2.4/4.16KV, PIN TYPE	19-31-A	220045
3	PIN, STEEL	LIGHT DUTY	19-8-B 211015
		HEAVY DUTY	19-8-C 211012
4	PIN, STEEL, POLE TOP	19-8-E	211069
5	CLEVIS, 1-WIRE, INSULATED	19-14-C	210554

THIS DRAWING REPLACES
OH-7-1 DATED 5-1-78

DLC DUQUESNE LIGHT CO.

APPROVED *[Signature]*
11/2/2021

DATE ISSUED

REV. 2

2.4/4.16KV DISTRIBUTION SINGLE OR
DOUBLE ARM NEW CONSTRUCTION

REASON FOR REVISION:
REDRAWN IN AUTOCAD, ADDED PRIMARY NEUTRAL GUIDANCE AND ADDED
DETAIL 7-1-D

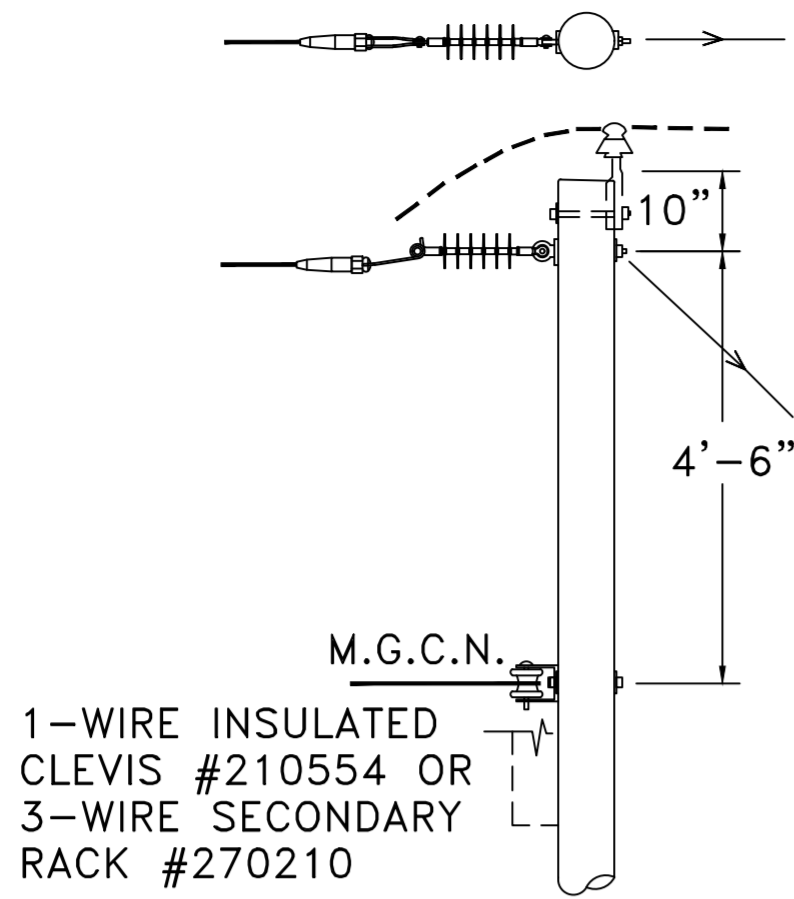
CONDUCTORS

STANDARDS FOR DESIGN
AND CONSTRUCTION

OH-7-1

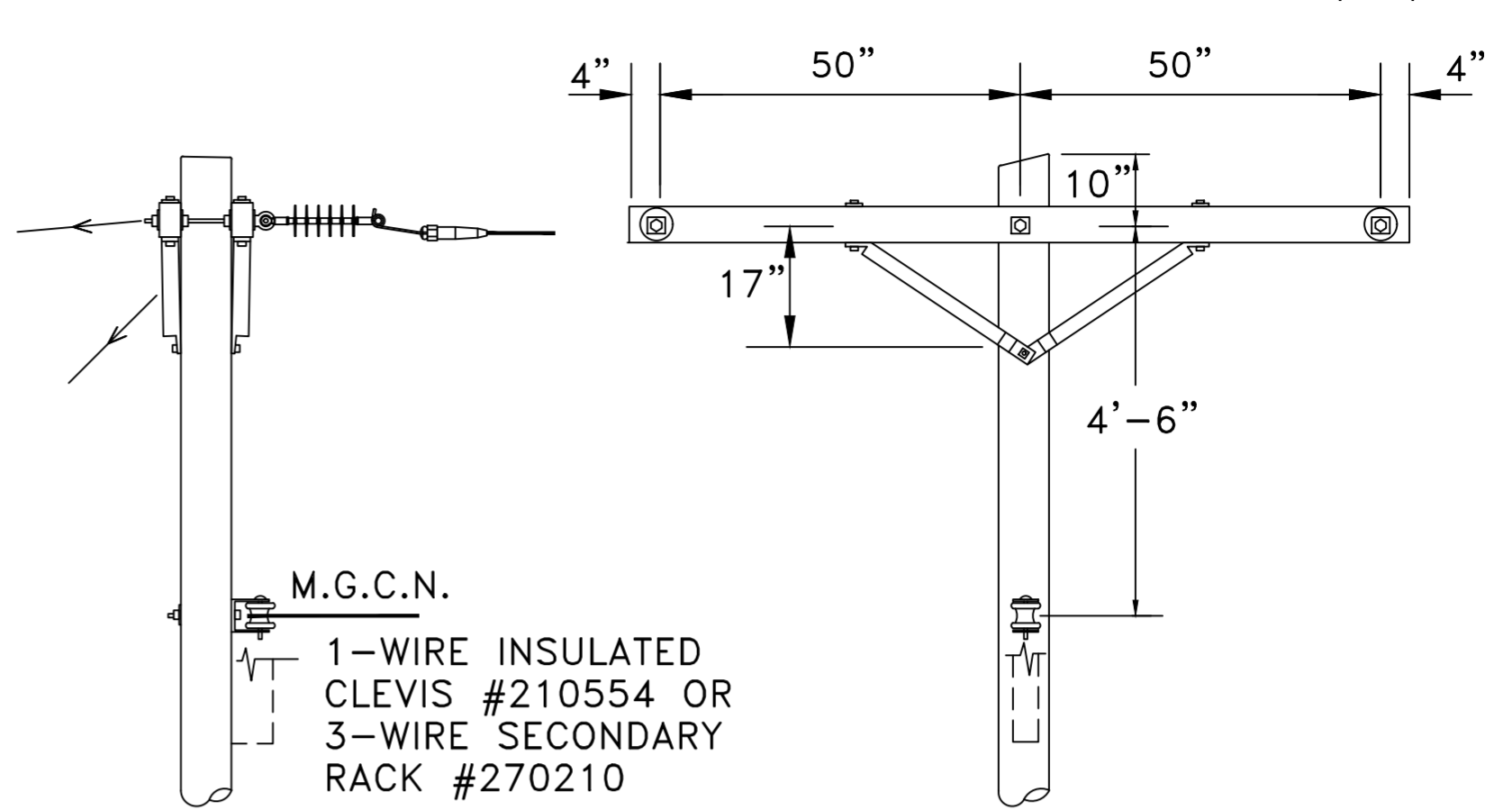
SECTION 7-CONDUCTORS

OH-7-3
1/26/09



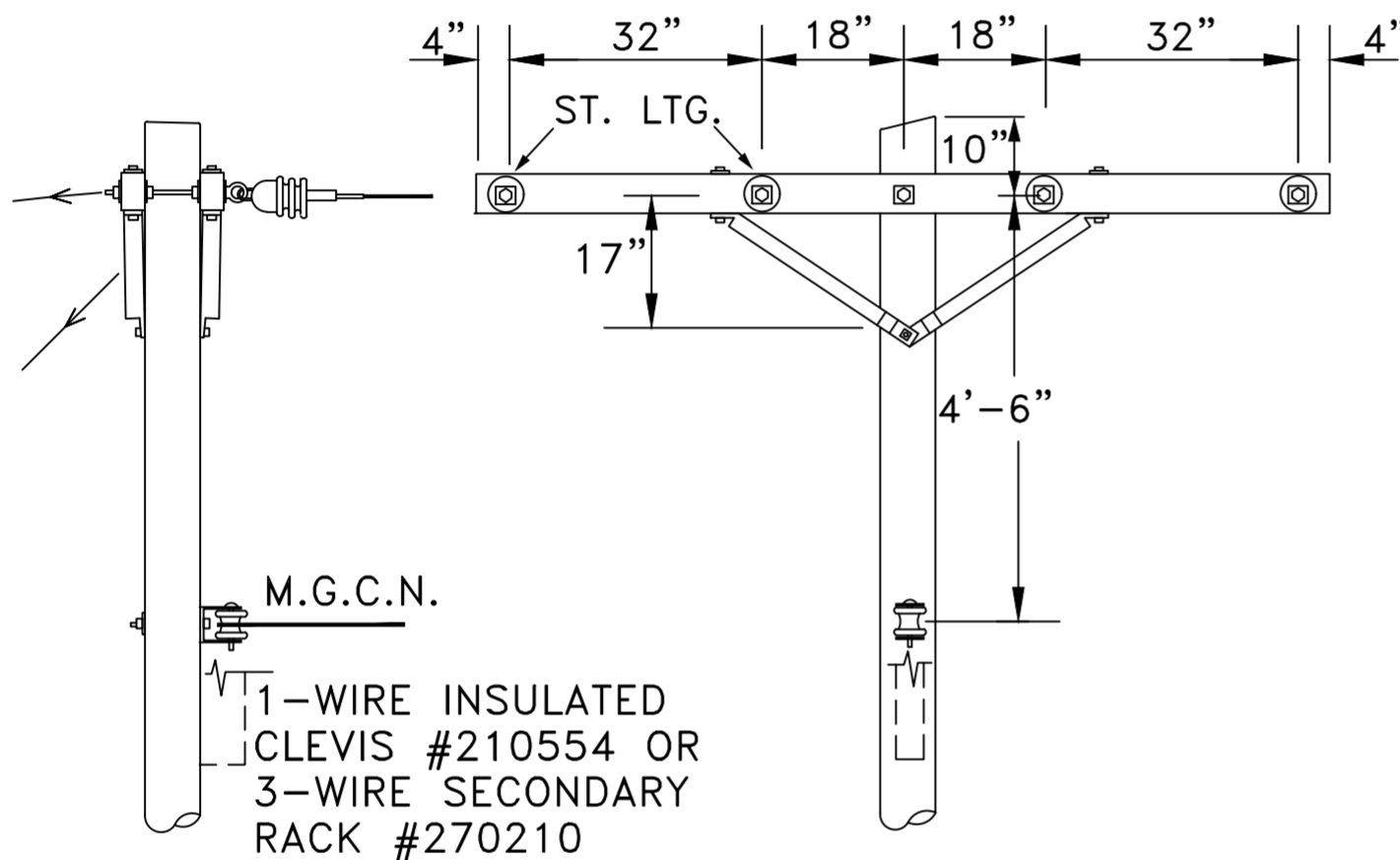
1-WIRE INSULATED
CLEVIS #210554 OR
3-WIRE SECONDARY
RACK #270210

1 PHASE-NO GROWTH EXPECTED
DETAIL 7-3-A



1-WIRE INSULATED
CLEVIS #210554 OR
3-WIRE SECONDARY
RACK #270210

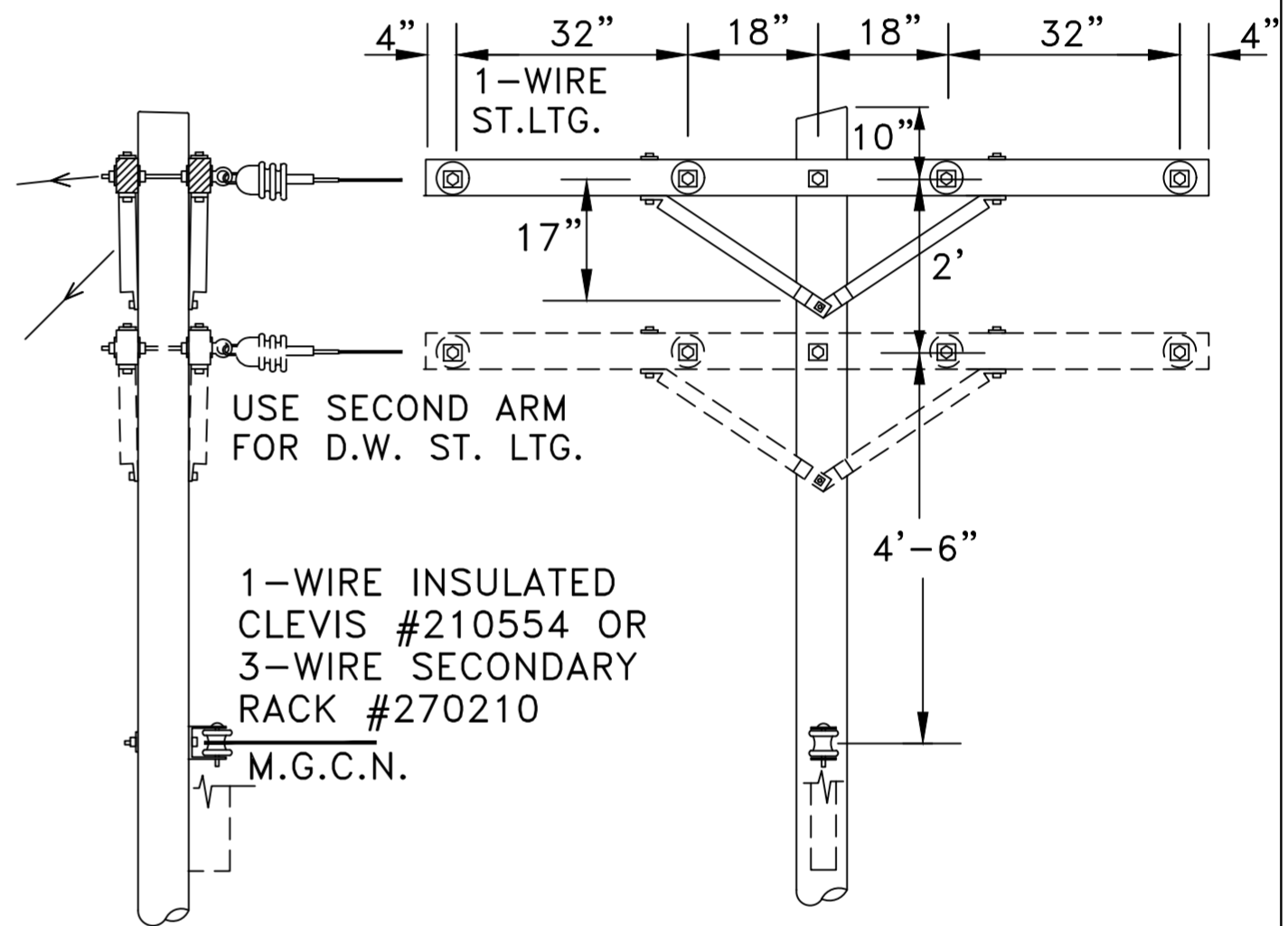
1 OR 2 PHASE-GROWTH EXPECTED
NO STREET LIGHTING
DETAIL 7-3-B



1-WIRE INSULATED
CLEVIS #210554 OR
3-WIRE SECONDARY
RACK #270210

1 OR 2 PHASE-WITH STREET LIGHTING
DETAIL 7-3-C

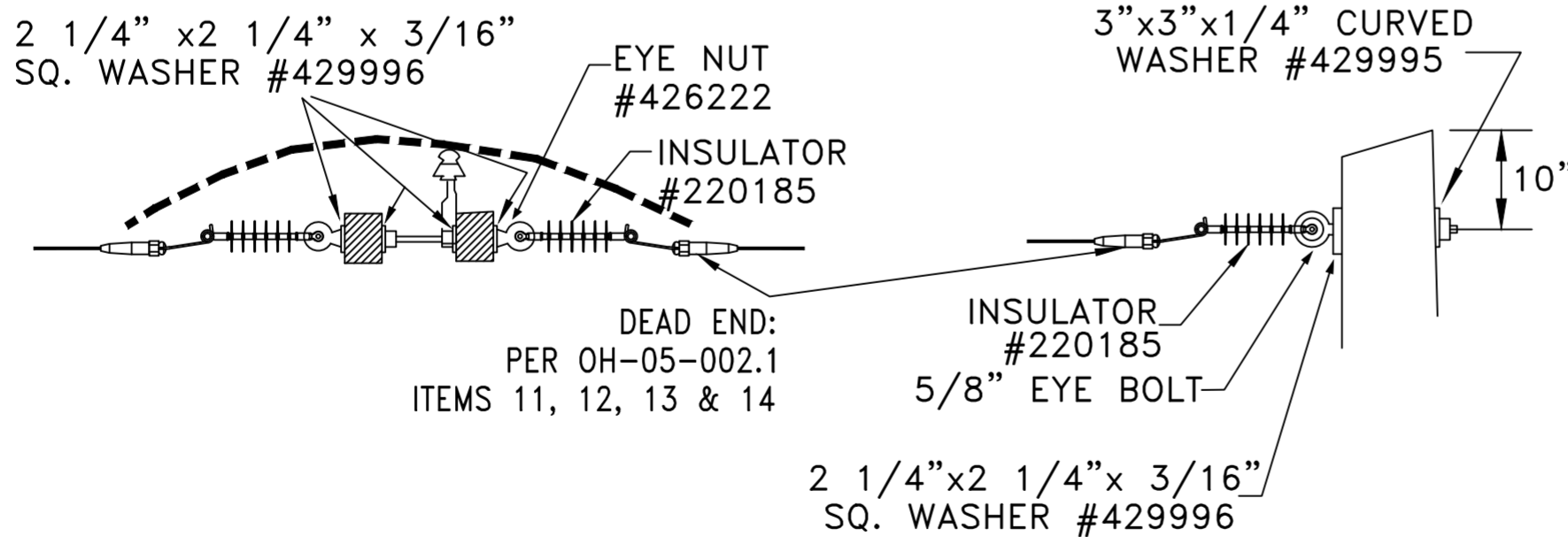
FOR RECORD AND MAINTENANCE PURPOSE ONLY
(STREET LIGHTING CIRCUIT NO LONGER IN USE)



1-WIRE INSULATED
CLEVIS #210554 OR
3-WIRE SECONDARY
RACK #270210

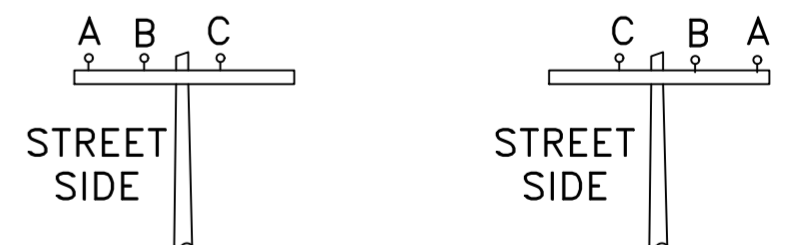
3 PHASE-WITH STREET LIGHTING
DETAIL 7-3-D

FOR RECORD AND MAINTENANCE PURPOSE ONLY
(STREET LIGHTING CIRCUIT NO LONGER IN USE)



DEAD END ON CROSSARMS
DETAIL 7-3-E

DEAD END ON POLE
DETAIL 7-3-F



3ø PIN POSITIONS FOR
PHASE IDENTIFICATION



DISTRIBUTION
DEAD END CONSTRUCTION

CONDUCTORS

APPROVED
By Christopher S. Kovach at 2:50 pm, Dec 12, 2022

APPROVED
By Jason Harchick at 10:13 am, Dec 13, 2022

STANDARDS FOR DESIGN
AND CONSTRUCTION

DATE ISSUED
12/13/22

REV.
3

REASON FOR REVISION:
UPDATED DEADENDS, INSULATORS, AND CROSSARM BRACES FOR DETAILS
A, B, E, AND F.

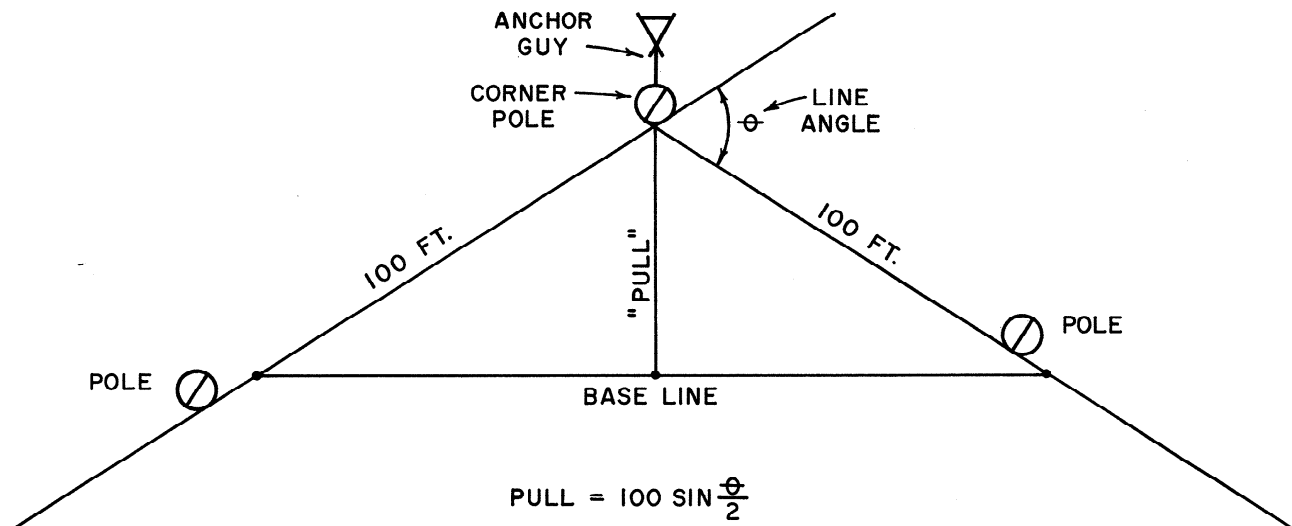
OH-7-3

SECTION 9-GUYING

OH-9-25
1-2-59

SIZE OF LINE ANGLE IN DEGREES	"PULL" IN FT.	"PULL" DIMENSION IN FEET WHEN DISTANCES MEASURED (IN FEET) ON EACH SIDE OF CORNER POLE ARE				
		25	50	75	125	150
1	0.9	0.2	0.4	0.7	1.1	1.4
2	1.8	0.5	0.9	1.4	2.3	2.7
3	2.6	0.7	1.3	2.0	3.3	3.9
4	3.5	0.9	1.8	2.6	4.4	5.3
5	4.4	1.1	2.2	3.3	5.5	6.6
10	8.7	2.2	4.4	6.5	10.9	13.1
15	13.1	3.3	6.6	9.8	16.4	19.7
20	17.4	4.4	8.7	13.1	21.8	26.1
25	21.7	5.4	10.9	16.3	27.1	32.6
30	25.9	6.5	13.0	19.4	32.4	38.9
35	30.1	7.5	15.1	22.6	37.6	45.2
40	34.2	8.6	17.1	25.7	42.8	51.3
45	38.3	9.6	19.2	28.7	47.9	57.5
50	42.3	10.6	21.2	31.7	52.9	63.5
55	46.2	11.6	23.1	34.7	57.8	69.3
60	50.0	12.5	25.0	37.5	62.5	75.0
65	53.8	13.5	26.9	40.4	67.3	80.7
70	57.4	14.4	28.7	43.1	71.8	86.1
75	60.9	15.2	30.5	45.7	76.1	91.4
80	64.3	16.1	32.2	48.2	80.4	96.5
85	67.6	16.9	33.8	50.7	84.5	101.4
90	70.7	17.7	35.4	53.0	88.4	106.1
95	73.7	18.4	36.9	55.3	92.1	110.6
100	76.6	19.2	38.3	57.5	95.8	114.9
105	79.3	19.8	39.7	59.5	99.1	119.0
110	81.9	20.5	41.0	61.4	102.4	122.9
115	84.3	21.1	42.2	63.2	105.4	126.5
120	86.6	21.7	43.3	65.0	108.3	129.9
125	88.7	22.2	44.4	66.5	110.9	133.1
130	90.6	22.7	45.3	68.0	113.3	135.9

"PULL" TABLE
DETAIL 9-25-A



THE PULL OF AN ANGLE IS OBTAINED BY MEASURING DISTANCES OF 100 FEET ON EACH SIDE OF A CORNER POLE, IN LINE WITH THE ADJACENT POLE, AND THEN MEASURING THE SHORTEST DIMENSION IN FEET BETWEEN THE CORNER POLE AND THE BASE LINE. THIS SHORTEST DISTANCE WILL BE PERPENDICULAR TO THE BASE LINE.

"PULL" DEFINITION
DETAIL 9-25-B



DUQUESNE LIGHT CO. STANDARDS
FOR T. & D. DESIGN & CONSTRUCTION

"PULL" TABLE
AND DEFINITION

NO.	DATE	REVISION	DRAWN	CHKD.	APPR.	APPROVED BY STDN. COMMITTEE	DATE AUTHORIZED	CASE RECORD NO.

DUQUESNE LIGHT COMPANY
ENGINEERING & CONSTRUCTION PITTSBURGH, PA.

TRANSMISSION & DISTRIBUTION
DESIGN & CONSTRUCTION STANDARD

DATE 9-18-58 DRAWN GEF CHECKED *RW* APPROVED *[Signature]*

APPROVED BY STANDARDIZATION COMMITTEE 12-19-58 *SR*

CASE RECORD NUMBER 111 DATE AUTHORIZED 1-2-59 **No. 61070**

61070

SECTION 9- GUYING

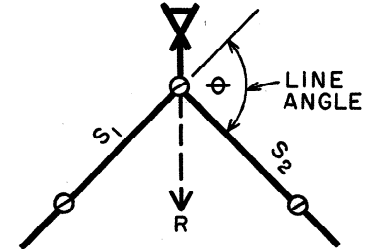
OH-9-26
1-2-59

SIZE & TYPE OF CONDUCTOR	* 6 CU.		* 3 CU.		1/0 CU.		4/0 CU.		250 MCM BA. CU.	1/0 WP AL.	336.4 BA. AL.
	BA.	WP.	BA.	WP.	BA.	WP.	BA.	WP.			
HORIZONTAL WIND LOAD LBS. PER FOOT	.387	.445	.410	.473	.456	.540	.507	.610	.525	.498	.555
LOADED CONDUCTOR TENSION	0'-150' SPAN		620 660		866 905		1300 1350		2000	2000	2000
	151'-200' SPAN		695 735		950 980		1360 1410		2000	2000	2000
WT. OF CONDUCTOR + 1/2" ICE (LBS PER FT.)	.491	.631	.613	.771	.865	1.121	1.289	1.627	1.440	0.789	1.041

add new wires

WIND LOAD AND LOADED CONDUCTOR TENSION
DETAIL 9-26-A

LINE ANGLE (DEGREES)	TENSION FACTOR A	WIND FACTOR B	LINE ANGLE (DEGREES)	TENSION FACTOR A	WIND FACTOR B	LINE ANGLE (DEGREES)	TENSION FACTOR A	WIND FACTOR B
1	.018	1.0000	31	.535	.9636	61	1.015	.8615
2	.035	.9998	32	.551	.9608	62	1.030	.8563
3	.052	.9997	33	.568	.9588	63	1.045	.8526
4	.070	.9993	34	.585	.9558	64	1.060	.8471
5	.087	.9990	35	.601	.9537	65	1.075	.8434
6	.105	.9985	36	.618	.9505	66	1.089	.8377
7	.122	.9981	37	.635	.9483	67	1.104	.8339
8	.140	.9974	38	.651	.9449	68	1.118	.8281
9	.157	.9969	39	.668	.9426	69	1.133	.8241
10	.174	.9960	40	.684	.9391	70	1.147	.8181
11	.192	.9954	41	.700	.9367	71	1.161	.8141
12	.209	.9943	42	.717	.9330	72	1.176	.8080
13	.226	.9936	43	.733	.9304	73	1.190	.8039
14	.244	.9923	44	.749	.9265	74	1.204	.7976
15	.261	.9914	45	.765	.9239	75	1.218	.7934
16	.278	.9900	46	.782	.9198	76	1.231	.7869
17	.296	.9890	47	.798	.9171	77	1.245	.7826
18	.313	.9874	48	.814	.9128	78	1.259	.7760
19	.330	.9863	49	.829	.9100	79	1.272	.7716
20	.347	.9845	50	.845	.9056	80	1.286	.7649
21	.365	.9833	51	.861	.9026	81	1.299	.7604
22	.382	.9813	52	.877	.8980	82	1.312	.7536
23	.399	.9799	53	.892	.8949	83	1.325	.7490
24	.416	.9778	54	.908	.8902	84	1.338	.7420
25	.433	.9763	55	.924	.8870	85	1.351	.7373
26	.450	.9740	56	.939	.8821	86	1.364	.7302
27	.467	.9724	57	.954	.8788	87	1.377	.7254
28	.484	.9699	58	.970	.8738	88	1.389	.7181
29	.501	.9681	59	.985	.8704	89	1.402	.7133
30	.518	.9655	60	1.000	.8652	90	1.414	.7059



$$R = TNA F_A + W_c SBN F_w + W_p F_w$$

WHERE:

R = RESULTANT LOAD ON POLE CAUSED BY TENSION IN CONDUCTORS AND WIND ON CONDUCTORS AND POLE.

T = LOADED CONDUCTOR TENSION.

A = TENSION FACTOR DEPENDING UPON LINE ANGLE.

N = NUMBER OF CONDUCTORS.

F_A = FACTOR OF SAFETY FOR LONGITUDINAL LOAD CAUSED BY WIRE TENSION.

W_c = WIND LOAD IN LBS. PER LINEAR FOOT OF CONDUCTOR.

S = AVERAGE LENGTH OF ADJACENT SPANS = $\frac{S_1 + S_2}{2}$

B = WIND FACTOR DEPENDING UPON LINE ANGLE.

F_w = FACTOR OF SAFETY FOR TRANSVERSE LOAD CAUSED BY WIND.

W_p = WIND LOAD ON POLE.

LONG. LOAD DUE TO ANGLE = TNA F_A

TRANSV. WIND LOAD ON COND = W_c SBN F_w

TRANSV. WIND LOAD ON POLE = W_p F_w

DETAIL 9-26-C

FACTOR A = 2 SINE $\frac{\theta}{2}$

FACTOR B = COS $\frac{\theta}{2}$

WHERE: θ = LINE ANGLE

TENSION AND WIND FACTORS

DETAIL 9-26-B

NOTE:

REFER TO OH-9-35 THRU OH-9-39 FOR EXAMPLES OF CALCULATIONS.



TABLES FOR CONDUCTOR TENSION AND WIND LOAD & TENSION AND WIND FACTORS

DUQUESNE LIGHT CO. STANDARDS FOR T. & D. DESIGN & CONSTRUCTION

NO.	DATE	REVISION	DRAWN	CHKD.	APPR.	APPROVED BY STDN. COMMITTEE	DATE AUTHORIZED	CASE RECORD NO.

DUQUESNE LIGHT COMPANY
ENGINEERING & CONSTRUCTION PITTSBURGH, PA.

TRANSMISSION & DISTRIBUTION
DESIGN & CONSTRUCTION STANDARD

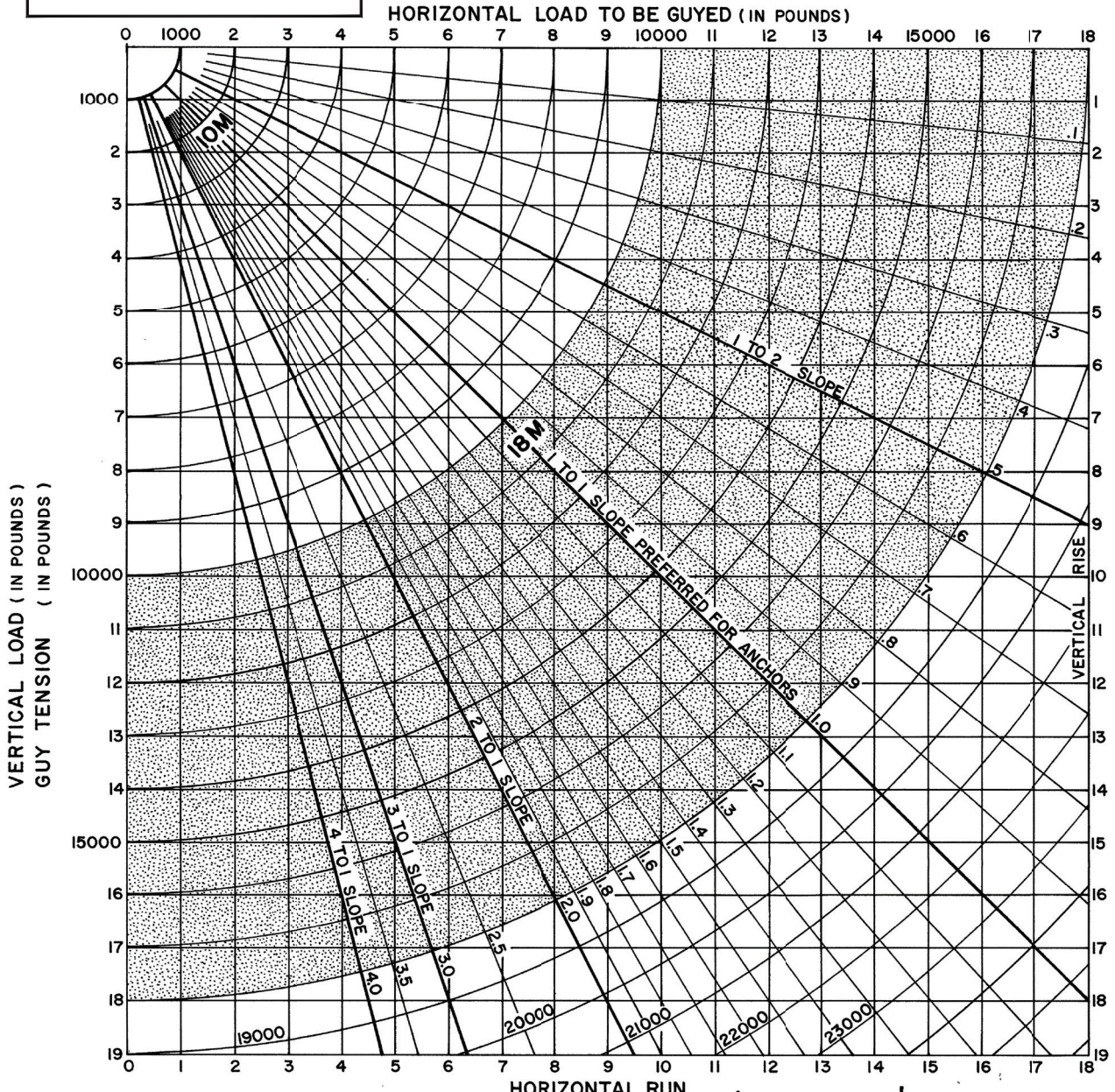
DATE 9-15-58 DRAWN GEF CHECKED *KM* APPROVED *AW*

APPROVED BY STANDARDIZATION COMMITTEE 12-19-58 *SR*

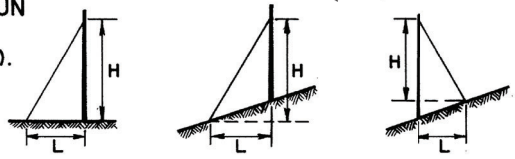
CASE RECORD NUMBER 112 DATE AUTHORIZED 1-2-59 No. 61069

FOR HISTORICAL PURPOSES ONLY
DO NOT USE

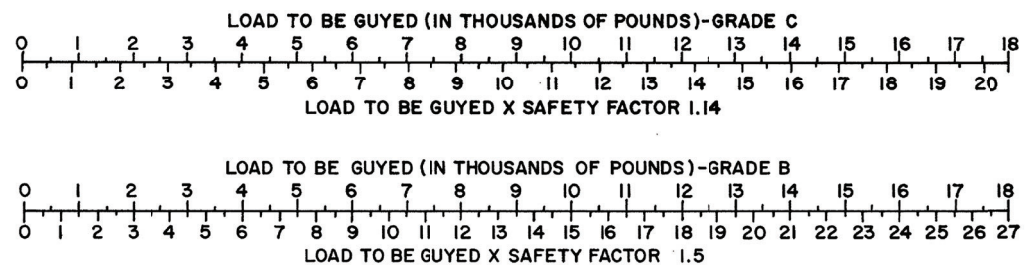
SECTION 9 - GUYING



- DIRECTIONS**
1. LOCATE HORIZONTAL LOAD ON TOP SCALE (ACTUAL LOAD X SAFETY FACTOR).
 2. PROCEED VERTICALLY DOWN TO LINE FOR SLOPE OF GUY. AREA IN WHICH THIS POINT LIES INDICATES THE PROPER SIZE OF GUY.
 3. FIND TENSION IN GUY WIRE BY FOLLOWING CIRCLE TO EDGE OF CHART.
 4. WHEN THE VERTICAL COMPONENT OF THE LOAD IS DESIRED, FOLLOW HORIZONTAL LINE TO THE SCALE ON THE LEFT.



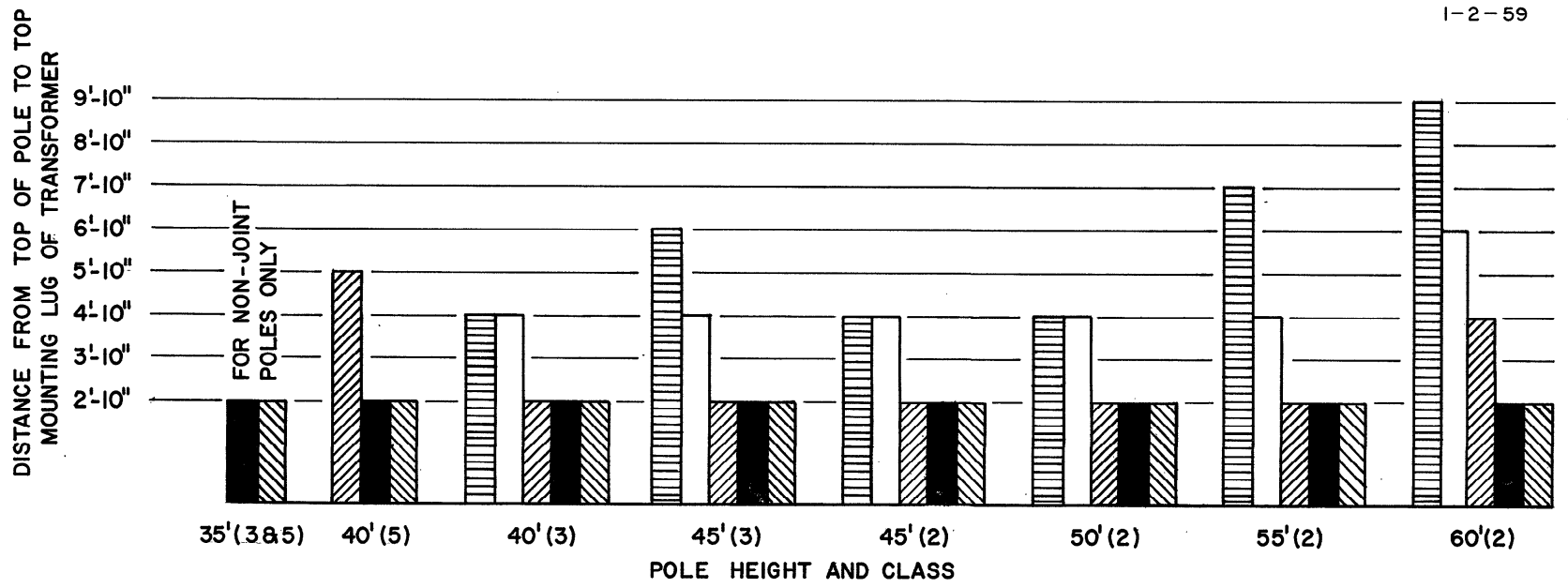
$$\text{SLOPE} = \frac{\text{VERTICAL RISE}}{\text{HORIZONTAL RUN}} = \frac{\text{ATTACHMENT HEIGHT}}{\text{LEAD}} = \frac{H}{L}$$



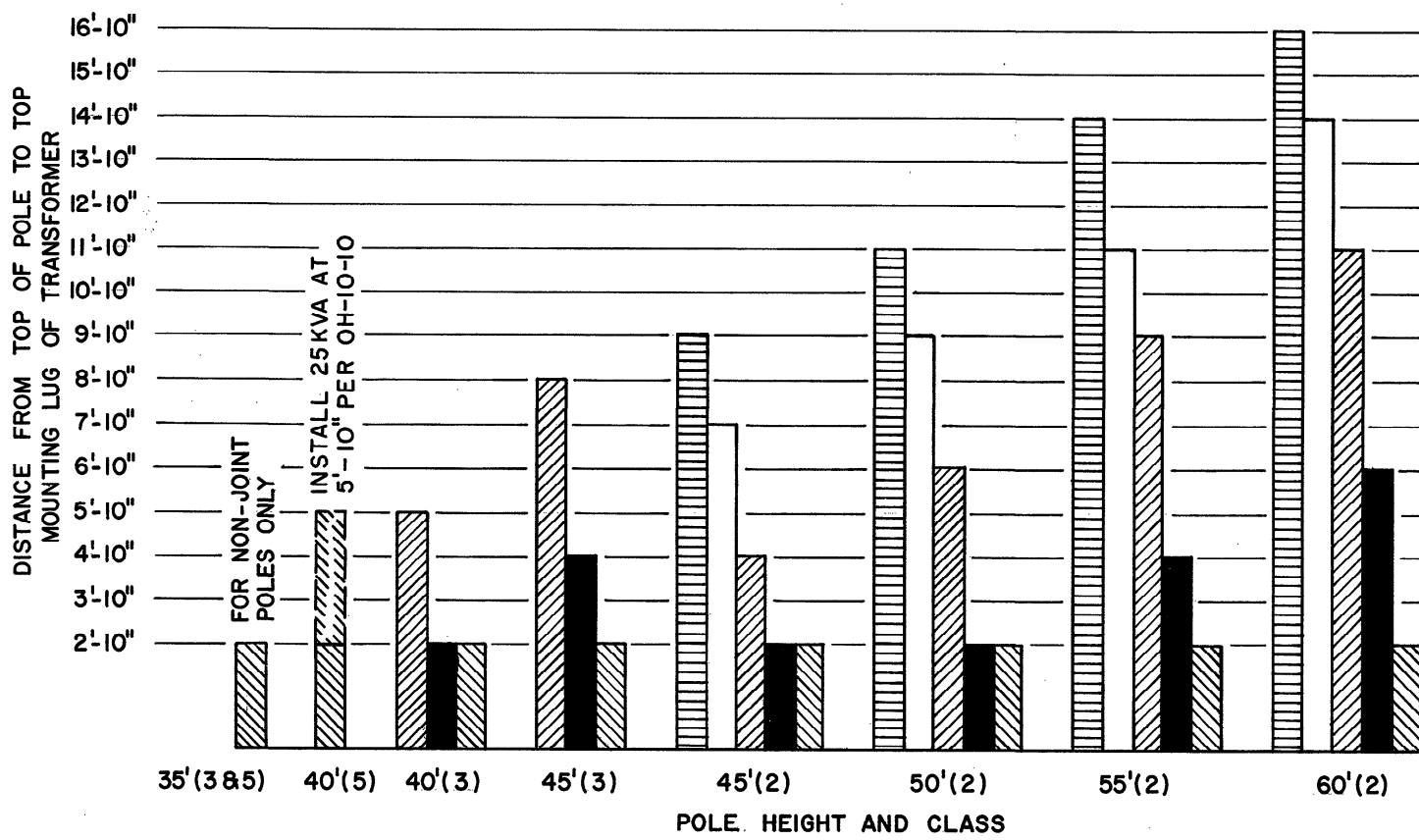
		<p>GUYING CHART</p>		<p>GUYING</p>
<p>APPROVED</p> <p>APPROVED By Christopher S. Kovach at 5:19 pm, Dec 05, 2023</p> <p>APPROVED By Jason Harchick at 7:50 am, Dec 07, 2023</p>				<p>STANDARDS FOR DESIGN AND CONSTRUCTION</p>
DATE ISSUED	REV.	REASON FOR REVISION:		
	1	CHANGED TO HISTORICAL PURPOSES ONLY.		<p>OH-09-28</p>

SECTION 10 - TRANSFORMERS

OH-10-8
1-2-59



SOUTHERN YELLOW PINE
DETAIL 10-8-A



WESTERN RED CEDAR & CHESTNUT
DETAIL 10-8-B

LEGEND

SYMBOL	SIZE	MAX. WT. (LBS)
	1 1/2 - 25 KVA	750
	37 1/2 KVA	1000
	50 KVA	1300
	75 KVA	1500
	100 - 167 KVA	1700

NOTES:

1. THESE CHARTS ARE BASED ON MAXIMUM WEIGHTS OF OLD STEEL TANK TRANSFORMERS AS SHOWN IN LEGEND
2. TRANSFORMERS MUST BE MOUNTED AT A DISTANCE, FROM TOP OF POLE TO TOP TRANSFORMER MOUNTING LUG, EQUAL TO OR GREATER THAN INDICATED BY THE TOP OF THE PROPER BAR.



DUQUESNE LIGHT CO. STANDARDS
FOR T. & D. DESIGN & CONSTRUCTION

POLE LOADING FOR
TRANSFORMER MOUNTING

NO.	DATE	REVISION	DRWN.	CHKD.	APPR.	APPROVED BY STDN. COMMIT.	DATE AUTHORIZED	CASE RECORD No.
1	11-18-58	CHANGED SO THAT 75KVA AND LARGER TRANSFORMERS ARE MOUNTED 4'-10" MINIMUM.	GEF	RM	///	12-19-58	1-2-59	72

DUQUESNE LIGHT COMPANY
ENGINEERING & CONSTRUCTION PITTSBURGH, PA.

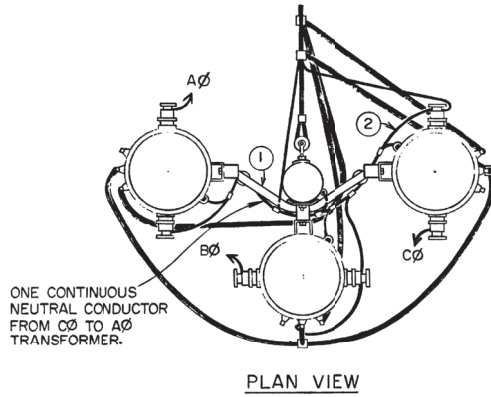
TRANSMISSION & DISTRIBUTION
DESIGN & CONSTRUCTION STANDARD

DATE 2-18-58 DRAWN CW CHECKED RM APPROVED [Signature]

APPROVED BY STANDARDIZATION COMMITTEE 3-14-58 [Signature]

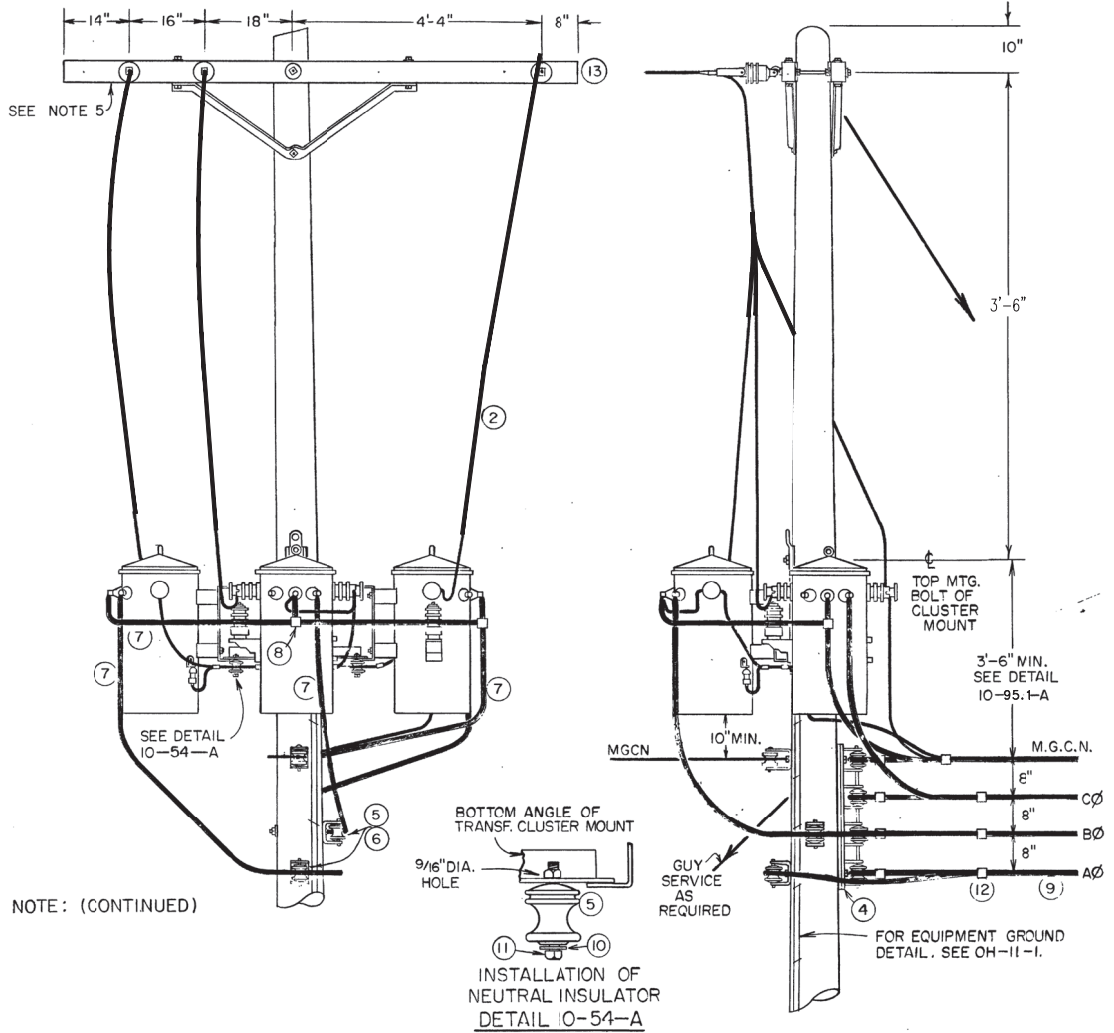
CASE RECORD NUMBER 37 DATE AUTHORIZED 4-1-58

No. 61030



MATERIAL LIST			
ITEM	DESCRIPTION	DETAIL REFERENCE	STOCK NO.
1	CLUSTER MOUNT, TRANSFORMER	10-95-A,B	271290
2	WIRE, #3, POLYETHYLENE COVERED		232533
3	8'-0" CROSSARM ASSEMBLY, SINGLE	4-4-A	
4	RACK, SECONDARY, 4-WIRE		27212
5	INSULATOR, SPOOL		2265
6	CLEVIS, 1-WIRE, INSULATED		21554
7	SECONDARY RISER	OH-10-7	
8	CONNECTOR 'VERSITAP'		
9	SECONDARY BUS	OH-10-7	
10	WASHER, ROUND, 5/8"		429918
11	BOLT, MACHINE, 1/2" X 6"		423605
12	CLAMP, STRAIN, U-BOLT		
13	9'-0" BALANCED DEAD END	7-32-A	

NOTE:
 1. MINIMUM POLE HEIGHT (TO PROVIDE FOR FUTURE INSTALLATION OF CONVENTIONAL TRANSFORMERS) - 45' CLASS±
 2. FOR OPPOSITE HAND PRIMARY PHASE POSITIONS, INTERCHANGE ARRESTERS AND WIRE OPPOSITE HAND TO THAT SHOWN.
 3. INSTALLATION RESTRICTED TO TRANSFORMERS WITH SIDEWALL OR DISCONNECTING POCKET-TYPE BUSHINGS.
 4. IF NEUTRAL IS DEAD-ENDED ON LINE ARM USE 3'-0" DOUBLE CROSSARM.



DLC DUQUESNE LIGHT CO.

CLUSTER MOUNTING OF PROTECTED TRANSFORMERS,
 3-5KVA THRU 3-25KVA 4160Y/2400-208Y/120VOLTS,
 3 PHASE, 4 WIRE

TRANSFORMERS
 STANDARDS FOR DESIGN
 AND CONSTRUCTION

APPROVED APPROVED
 By Michael F. Higgins at 11:59 am, Oct 01, 2024 Benjamin Cain

DATE ISSUED
 REV. 3

REASON FOR REVISION:
 CROSSARM BETWEEN TRANSFORMER AND PHASE CONDUCTOR NOT NEEDED. NOTE 3 NOT REQUIRED.

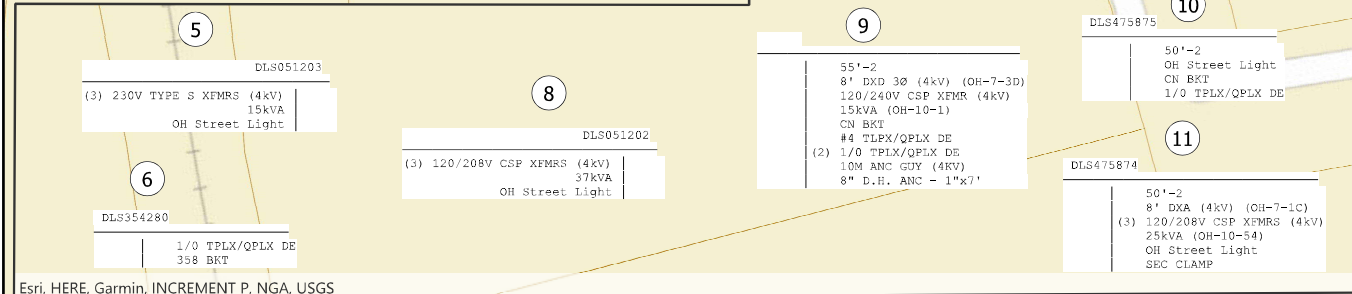
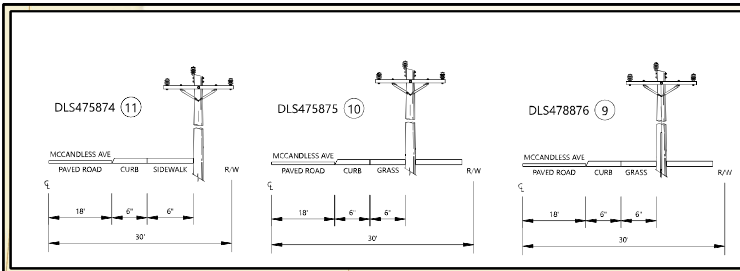
OH-10-54

DLC EXHIBIT NO. 7

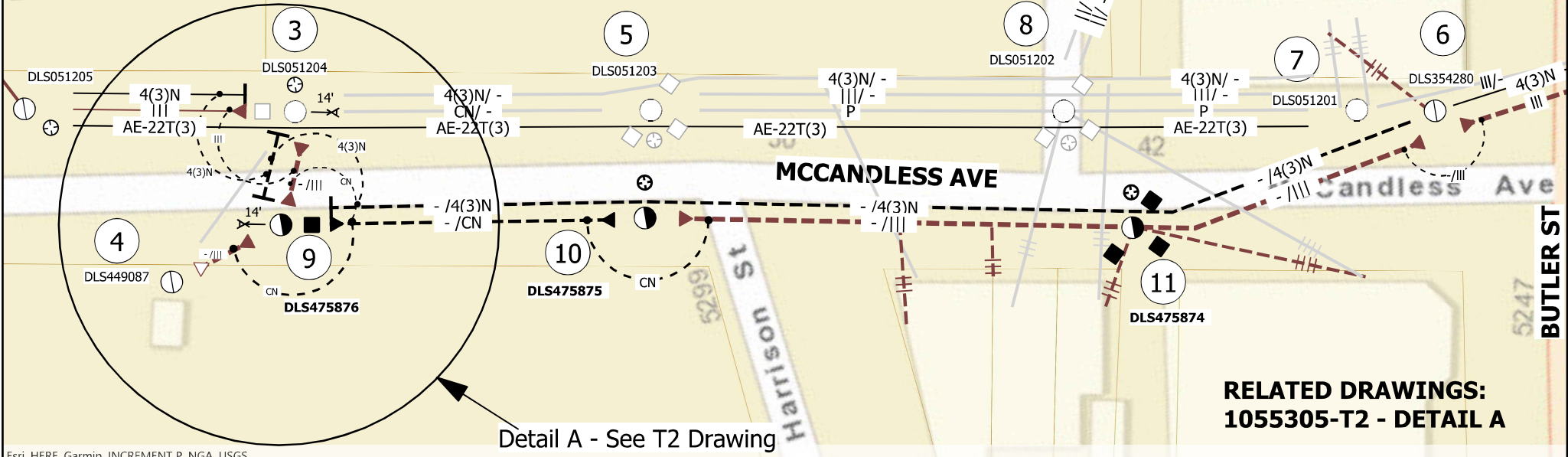
MAP: F 7-1
 CKT: 4185 (48TH ST)
 22402 (ARSENAL-48TH ST)



FINAL DESIGN PA ONECALL
 SERIAL NUMBERS
 20241924205



Esri, HERE, Garmin, INCREMENT P, NGA, USGS

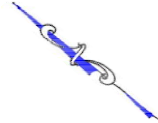


RELATED DRAWINGS:
 1055305-T2 - DETAIL A

Esri, HERE, Garmin, INCREMENT P, NGA, USGS

REVISIONS	APPROVAL BY:	DUQUESNE LIGHT CO. —		RELOCATION AND REMOVAL FOR BUILDING CONSTRUCTION		6255 Butler		10TH WARD				
	DATE:	AS-ISSUED: CHK'D	AS-MARKED: CHK'D	DRAWN BY:	DATE:	ENG. CHK:	DATE:	INSTALL POLES, RELOCATE AND REMOVE XFMRs, PRIMARY AND SECONDARY BANKS, SVC DROPS,				
	REV. BY:	J. BAER			7/10/24			ANSI	SCALE	PRJ. NO.	DWG. NO.	REV
								B	N.T.S.	20-0005	1055305-T1	0

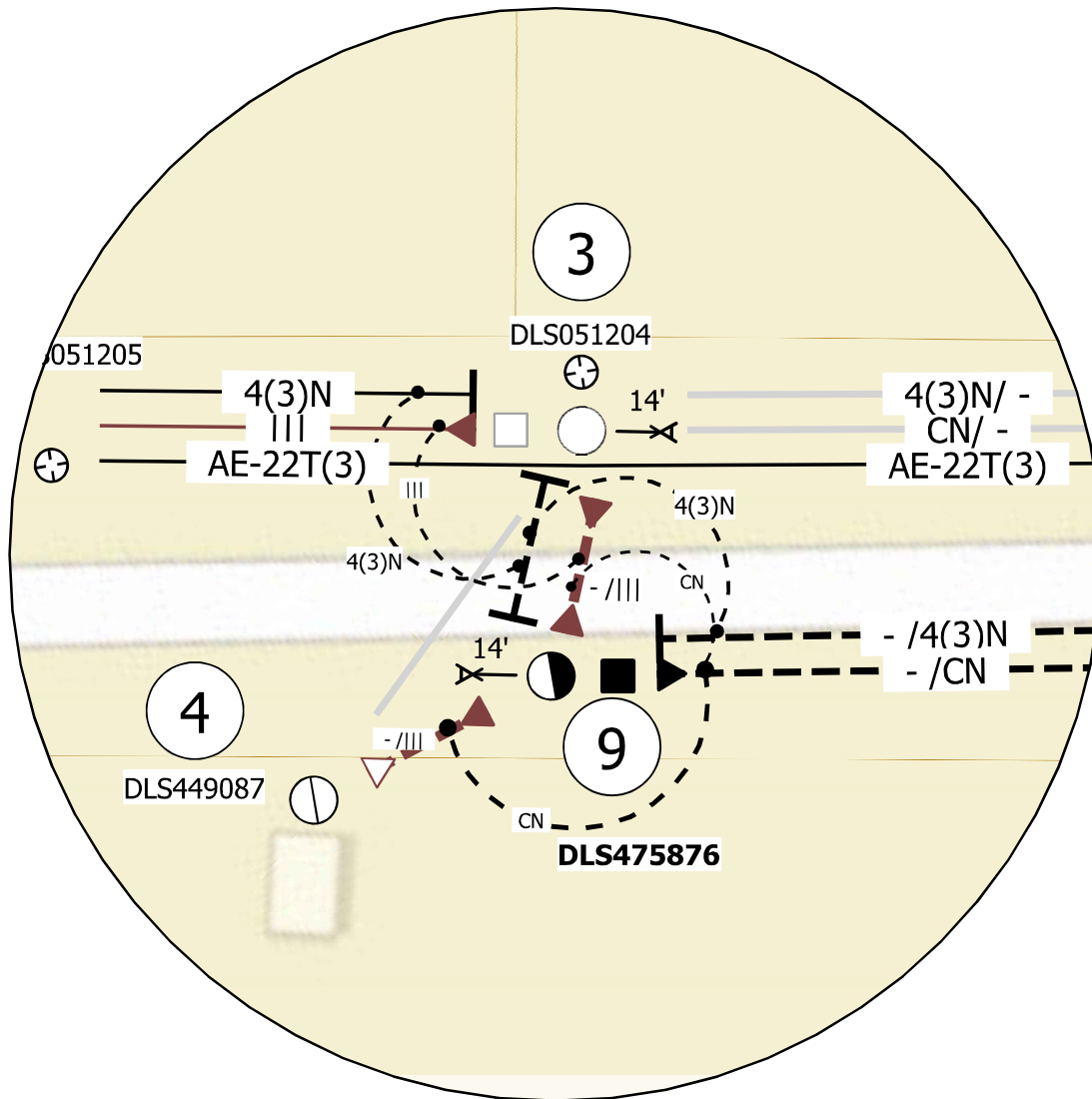
APPROVED
 By Corey A. Elzer at 4:51 pm, Jul 17, 2024



MAP: F 7-1
CKT: 4185 (48TH ST)
22402 (ARSENAL-48TH ST)



FINAL DESIGN PA ONECALL
SERIAL NUMBERS
20241924205



DETAIL "A"

RELATED DRAWINGS:
1055305-T1 - CONSTRUCTION DETAILS

REVISIONS	APPROVAL BY:	DLC — DUQUESNE LIGHT CO. —		5255 Butler		Relocation for 6-story Building construction		10TH WARD				
	REV BY:	AS-ISSUED: CHK'D	AS-MARKED: CHK'D	DRAWN BY: J. BAER	DATE: 7/10/24	ENG. CHK:	DATE:	INSTALL POLES, RELOCATE AND REMOVE XFMRs, PRIMARY AND SECONDARY BANKS, SVC DROPS				
								ANSI B	SCALE N.T.S.	PRJ NO. 20-0005	DWG. NO. 1055305-T2	REV 0
						APPROVED By: Corey A. Eltzer at 4:51 pm, Jul 17, 2024						

DLC EXHIBIT NO. 8

CUE Costs	Labor	\$	10,568.53	Materials	\$	7,895.05
	Calculating Overheads					
Supervision	Labor * .181	\$	1,912.90			
P&W	Material * .150	\$	1,184.26			
Fringes	Labor * .320	\$	3,381.93			
CO1	Material * Labor *.272	\$	5,022.09			
	Total Overheads	\$	11,501.18			

Total Invoice \$34,153.79

Station	CU Name	Description	Work Function	Quantity
3,9	AN2HL	ANCHOR 8" DOUBLE HELIX WITH 1"D-7'L 3-EYE ROD	Install	2
6	BK358	SECONDARY BRACKET-TYPE 358 FOR 3 WIRE OPEN SECONDARY	Install	2
3,9,10,11	BKCN	BRACKET-COMMON NEUTRAL INSULATED CLEVIS	Install	7
6,11	CHKSVC	1P SERVICE DROP DISCONNECT/RECONNECT/TRANSFER	Transfer	5
9	GY4AN18	GUY ANCHOR-4KV WITH 18M GUY WIRE, INSULATORS, HARDWARE	Install	1
11	OH71CD	2.4/4KV 3PH-NEW CONSTRUCTION-DOUBLE XARM-HEAVY DUTY PINS	Install	1
10	OH71CS	2.4/4KV 3PH-NEW CONSTRUCTION-SINGLE XARM-HEAVY DUTY PINS	Install	1
3,9	OH732B	DISTRIBUTION-4KV BALANCED 3PH DEAD END-LINE & BUCK XARMS	Install	2
10,11	P502	POLE WOOD - 50 FOOT CLASS 2	Install	2
9	P552	POLE-WOOD, 55 FOOT, CLASS 2	Install	1
10,11	SLMA	STREET LIGHT MAST ARM (TRANSFER ONLY)	Transfer	2
5,8,7		WIRE, 1/C-1/0 WP ALUMINUM SECONDARY-4000' REEL (FOR SECONDARY ONLY, SEE WR10ACNR FOR COMMON NEUTRAL)	Removal	1075
3,5,8,7	WR10ACNR	WIRE, 1/C-1/0 BARE ALUMINUM COMMON NEUTRAL- 4000' REEL	Install	400
3,5	WR10ACNR	WIRE, 1/C-1/0 BARE ALUMINUM COMMON NEUTRAL- 4000' REEL	Removal	125
9,10	WR10ACNR	WIRE, 1/C-1/0 BARE ALUMINUM COMMON NEUTRAL- 4000' REEL	Install	110
5,8,7	WR10AQ	WIRE-1/0 ALUMINUM QUADRUPLX SECONDARY	Removal	90
6,11,10	WR10AT	WIRE-1/0 ALUMINUM TRIPLEX SECONDARY	Install	300
5,7,8	WR10AT	WIRE-1/0 ALUMINUM TRIPLEX SECONDARY	Removal	125
6,11,10,9,3	WR2A	CONDUCTOR - #2 AL (REEL)	Install	1200
3,5,8,7	WR6A	WIRE-#6A COPPER/STEEL CORE PRIMARY-REMOVE ONLY	Removal	1050
5	WR6CW	WIRE-#6 WP COPPER HARD DRAWN SOLID 1/C	Removal	350
6,3,9	WRJP	WIRE JUMPER, 250 MCM, 37 STRAND COPPER, TINNED	Install	8
6,10,9,3	WRJP3	WIRE JUMPER, #3 AWG, 7 STRAND COPPER, TINNED	Install	10
9,11	XFOLABOR	XFMR-OVERHEAD LABOR ONLY	Install	4
3,5,8	XFOLABOR	XFMR-OVERHEAD LABOR ONLY	Removal	7
		Right of Way Processing Fixed Cost		