

## ESTIMATED LIGHTING QUANTITIES

TDOT ITEM NO.	DESCRIPTION	UNIT	QTY.
(5) 707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	90
707-01.12	END & CORNER POST ASSEMBLY (CHAIN-LINK FENCE 6')	EACH	18
(5) 707-01.13	GATE - CHAIN-LINK FENCE-6 FOOD (3 FOOT WIDE)	EACH	6
(1) 714-03	JACKED OR BORED CONDUIT	L.F.	3980
714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	26025
714-05.05	PULL BOXES (MLG&W STREET LIGHTING - 14" X 24" X 12")	EACH	29
714-06.04	CABLE (1/C # 8 AWG)	L.F.	12150
714-06.05	CABLE (1/C # 6 AWG)	L.F.	19200
714-06.06	CABLE (1/C # 4 AWG)	L.F.	31485
714-06.07	CABLE (1/C # 2 AWG)	L.F.	28560
714-06.08	CABLE (#2 COPPER SOFT DRAWN BARE) (GROUND)	L.F.	9520
714-06.09	CABLE (#4 COPPER SOFT DRAWN BARE) (GROUND)	L.F.	10495
714-06.10	CABLE (#6 COPPER SOFT DRAWN BARE) (GROUND)	L.F.	6400
714-06.11	CABLE (#8 COPPER SOFT DRAWN BARE) (GROUND)	L.F.	4050
(2) 714-08.09	LIGHT STANDARDS (45' M.H., 6' ARM)	EACH	127
714-08.10	LIGHT STANDARDS (WALLPACK)	EACH	9
714-08.11	LIGHT STANDARDS (150' HIGH MAST)	EACH	6
(6) 714-08.32	REMOVAL OF LIGHT STANDARD & FOUNDATION	EACH	168
(4) 714-08.46	FOUNDATION (ONLY) FOR HIGH MAST LIGHT STANDARD	EACH	6
714-09.47	LED LUMINAIRES (142 WATT)	EACH	127
714-09.64	LED LUMINAIRES - HIGHMAST (312 WATTS)	EACH	36
714-09.83	LED LUMINAIRES - UNDERPASS (51 WATT)	EACH	9
714-12.01	CONTROL CENTER (NO. 1)	LS	1
714-12.02	CONTROL CENTER (NO. 2)	LS	1
714-12.03	CONTROL CENTER (NO. 3)	LS	1
(3) 714-25.01	ELECTRICAL CONNECTION (TO CONTROL CENTER NO. 1)	LS	1
(3) 714-25.02	ELECTRICAL CONNECTION (TO CONTROL CENTER NO. 2)	LS	1
(3) 714-25.03	ELECTRICAL CONNECTION (TO CONTROL CENTER NO. 3)	LS	1

**FOOTNOTES:**

- (1) SCHEDULE 80, 2" PVC, DIRECTIONAL BORING ONLY.
- (2) A JUNCTION BOX (6" X 6") SHALL BE PROVIDED FOR EACH LIGHT POLE FOR THE PURPOSE OF PULLING AND SPLICING WIRE. IF THE LIGHT POLE IS MANUFACTURED WITH AN ACCESS PANEL AT THE BASE, THE JUNCTION BOX WILL NOT BE REQUIRED. THE COST OF THE JUNCTION BOX SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE LIGHT POLE.
- (3) THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY TO OBTAIN THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE NEW CONTROL CENTERS. THESE CHARGES SHALL BE INCLUDED IN THE BID FOR THIS ITEM. INCLUDES THE COST OF THE CONCRETE PADS, DISCONNECTS, TRANSFORMERS, STEEL RISERS, AND METERS. ALSO, INCLUDES THE COST TO FURNISH AND INSTALL ALL APPURTENANCES FOR A COMPLETE INSTALLATION.
- (4) THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE HIGH MAST FOUNDATION AS INDICATED IN STANDARD DRAWING T-L-1.
- (5) INCLUDES 3 STRANDS OF BARBED WIRE, SUPPORT ARMS, TIE WIRE, AND ALL HARDWARE FOR A COMPLETE FENCE INSTALLATION.
- (6) INCLUDES THE COST TO REMOVE EXISTING LIGHT FIXTURE, BRACKET ARM, POLE, AND WIRING WITHIN THE POLE. EXISTING FOUNDATIONS TO BE REMOVED A MINIMUM OF SIX INCHES BELOW GRADE. ALL LIGHT FIXTURES, POLES, AND ASSOCIATED LIGHTING EQUIPMENT SHALL BE SALVAGED AND RETURNED TO MLG&W. CONTRACTOR TO CONTACT TOM WORD (901-491-5739) TEN (10) DAYS PRIOR TO REMOVAL TO COORDINATE MLG&W DE-ENERGIZING EXISTING LIGHT STANDARDS TO BE REMOVED AND THE TRANSFER OF SALVAGED MATERIALS.

## STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
<b>10-202.00</b>		<b>LIGHTING AND UTILITY POLES</b>
T-L-1	07-15-24	STANDARD LIGHTING FOUNDATION DETAILS
T-L-1SA	07-15-24	STANDARD LIGHTING DETAILS FOR SINGLE ARM SUPPORTS
T-L-4	07-15-24	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION
T-L-5		STANDARD LIGHTING DETAILS CONTROL CENTER DETAILS

## GENERAL NOTES

1. ANY DEVIATION OF THE CONDITIONS LISTED MUST BE APPROVED BY THE OWNER PRIOR TO THE DEVIATION TAKING PLACE ON THE PROJECT. FAILURE BY THE LIGHTING CONTRACTOR OR SUBCONTRACTORS TO FOLLOW THESE CONDITIONS AS LISTED WILL RESULT IN REFUSAL OF ACCEPTANCE BY THE OWNER TO ACCEPT THE PROJECT AT IT'S COMPLETION UNTIL SUCH TIME AS ANY DEFICIENCIES ARE CORRECTED TO THE SATISFACTION OF THE OWNER.
2. ALL WORK SHALL BE DONE IN A SAFE, THOROUGH AND WORKMAN-LIKE MANNER IN ACCORDANCE WITH THE PLAN SHEETS, CONSTRUCTION DETAILS AND TECHNICAL SPECIFICATIONS AS WELL AS ANYAND ALL APPLICABLE SAFETY CODES, INCLUDING, BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL SAFETY CODE (NESEC), AND ANY OTHER STATE AND LOCAL CODES THAT ARE REQUIRED FOR THE TYPE OF WORK THAT IS BEING PERFORMED AS PART OF THIS CONTRACT.
3. THE LIGHTING CONTRACTOR SHALL BEAR THE RESPONSIBILITY FOR THE SAFETY OF ITS EMPLOYEES AND SHALL ENSURE THAT THEY ABIDE BY ALL STATE, FEDERAL AND LOCAL REGULATIONS REGARDING SAFE WORK PRACTICES. IF SUCH REGULATIONS ARE VIOLATED, THE OWNER SHALL MAINTAIN THE RIGHT TO STOP WORK ON THEIR FACILITIES UNTIL SUCH CONDITIONS ARE CORRECTED.
4. IN GENERAL, THE LIGHTING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, METHODS, AND/OR INTEGRAL MATERIALS OUTLINED IN THE LIGHTING CONSTRUCTION DRAWINGS AND THE TECHNICAL SPECIFICATIONS THAT ARE NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONAL INSTALLATION OF THE LIGHTING FACILITIES BEING INSTALLED.
5. ALL MATERIALS TO BE USED BY THE LIGHTING CONTRACTOR ON THE PROJECT MUST BE NEW MATERIALS AND MUST BE APPROVED BY THE OWNER PRIOR TO PURCHASE OR USE. A PROPOSED LIST OF MATERIALS SHALL BE SUBMITTED TO THE OWNER AS NOTED IN THE TECHNICAL SPECIFICATIONS FOR THE PROJECT. NO MATERIAL SUBSTITUTIONS ARE ALLOWED WITHOUT THE PRIOR CONSENT OF THE UTILITY OWNER. STORAGE LOCATION OF MATERIALS ON THE PROJECT SITE MUST BE A SECURE ENVIRONMENT. THE LIGHTING CONTRACTOR IS RESPONSIBLE FOR ANY LOST, STOLEN OR DAMAGED MATERIALS ON THE PROJECT.
6. IF FIELD CONDITIONS ARISE WHICH PREVENT THE CONSTRUCTION ON THE PROJECT FROM PROCEEDING AS DESIGNED, THE LIGHTING CONTRACTOR WILL COORDINATE WITH THE OWNER / ENGINEER TO RESOLVE THE ISSUES SO THAT CONSTRUCTION CAN CONTINUE.
7. THE LIGHTING CONTRACTOR SHALL REQUEST EXISTING UTILITY LOCATIONS A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO BEGINNING ANY CONSTRUCTION IN THE AREA OF THE UTILITIES IN QUESTION.
8. SOME EXISTING UTILITIES CAN BE LOCATED BY CALLING TENNESSEE ONE-CALL SYSTEMS, INC. AT "811".
9. THE LIGHTING CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING THE CONSTRUCTION OF THE PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND EXISTING UTILITIES, THE LIGHTING CONTRACTOR SHALL BE REQUIRED TO FURNISH THE EQUIPMENT NECESSARY TO COMPLETE THE WORK.
10. THE LIGHTING CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY ITS EMPLOYEES IN AREAS OUTSIDE OF ROW ALONG THE LENGTH OF THE PROJECT. THE LIGHTING CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR RESOLVING ALL COMPLAINTS THAT MAY ARISE FROM ITS ACTIVITIES, AND SHALL PROMPTLY REPORT SUCH COMPLAINTS TO THE OWNER AS TO WHETHER OR NOT IT HAS BEEN RESOLVED.
11. INSPECTION OF INSTALLED FACILITIES ONCE COMPLETED SHALL BE THE RESPONSIBILITY OF THE LIGHTING CONTRACTOR. ANY CORRECTIONS THAT ARE REQUIRED SHALL BE DONE DURING THE CONSTRUCTION OF THE PROJECT AND VERIFIED BY THE OWNER / ENGINEER.
12. WHILE SOME WORK MAY ONLY BE REQUIRED "AROUND" OTHER UTILITY FACILITIES, SOME WORK MAY NEED TO BE DONE CONCURRENTLY WITH THE OPERATIONS OF OTHER CONTRACTORS. IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO ENSURE THAT ALL COORDINATION BE ADDRESSED DURING THE CONSTRUCTION OF THE PROJECT.
13. THE LIGHTING CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FACILITIES INDICATED WITHIN THESE DRAWINGS AT "FINAL GRADE" AS SHOWN. ANY TEMPORARY INSTALLATIONS THAT ARE NOT SPECIFICALLY NOTED WITHIN THESE DRAWINGS AND THAT ARE NOT ADDRESSED AND COORDINATED PRIOR TO CONSTRUCTION OF THE PROJECT WILL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
14. THE LIGHTING CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONSTRUCTION DRAWINGS AND TECHNICAL SPECIFICATIONS FOR THE INSTALLATION OF FACILITIES PRIOR TO BIDDING THE PROJECT. ANY QUESTIONS CONCERNING INFORMATION SHOWN IN THE CONTRACT DOCUMENTS SHALL BE ADDRESSED TO THE OWNER / ENGINEER PRIOR TO BIDDING ON THE PROJECT.
15. CONTRACTOR TO CONTACT THE PROJECT MANAGER THREE DAYS BEFORE THE START OF PROJECT WORK IN ORDER TO ARRANGE FOR INSPECTIONS. FAILURE TO OBTAIN INSPECTIONS MAY RESULT IN THE INSTALLATION NOT BEING ACCEPTED BY THE OWNER.
16. CONTRACTOR SHALL HAVE QUALIFIED JOURNEYMAN ELECTRICIAN ON THE JOB SITE AT ALL TIMES TO SUPERVISE THE INSTALLATION AND TESTING OF ALL LIGHTING SYSTEM COMPONENTS AND TO INSURE ADHERENCE TO ALL STANDARDS AND CODES.
17. CONTRACTOR TO BE RESPONSIBLE FOR INSTALLATION DEFECTS FOR A PERIOD OF ONE YEAR AFTER THE CITY ACCEPTS THE INSTALLATION.
18. ALL WIRE IN CONDUIT SHALL BE RATED FOR DRY AND WET LOCATIONS AND SHALL BE STRANDED COPPER WITH XHHW TYPE XLPE INSULATION. WIRE SIZE 14-10 AWG SHALL HAVE A MINIMUM INSTALLATION THICKNESS OF 30 MILS, WIRE SIZE 8-2 AWG SHALL HAVE A MINIMUM INSTALLATION THICKNESS OF 45 MILS, AND WIRE SIZE 1/0-4/0 SHALL HAVE A MINIMUM INSTALLATION THICKNESS OF 55 MILS.
19. OBTAIN FINAL INSPECTION AND WRITTEN LETTER OF ACCEPTANCE FROM THE OWNER BEFORE FINAL PROJECT IS CLOSED OUT.
20. IN-LINE FUSES ARE REQUIRED IN EACH AND EVERY HOT LEG FOR EACH LIGHT AND RECEPTACLE.
21. FACTORY BENDS ARE MANDATORY. HEAT BENDING OF CONDUIT IS NOT ALLOWED. ALL CONDUIT INSTALLATIONS ARE SUBJECT TO MANDREL TESTING. CONTRACTOR TO PERFORM TESTING AT NO ADDITIONAL EXPENSE TO THE OWNER.
22. ALL CONDUITS AND DUCT BANKS CROSSING UNDER ROADWAYS SHALL BE CONCRETE ENCASED FROM A MINIMUM OF 12" OUTSIDE CURB TO A MINIMUM OF 12" OUTSIDE CURB, OR SHALL BE BORED USING HDPE CONDUIT.
23. LIGHTING ASSEMBLIES SHALL INCLUDE THE FOLLOWING:
  - A. POLE GROUND LUG SHALL BE TINNED OR RATED FOR COPPER TO ALUMINUM CONNECTIONS.
  - B. TAMPER RESISTANT STAINLESS STEEL SCREWS SIMILAR TO FASTENAL X204C0040SSX600, SIZED AS REQUIRED.
  - C. WIRING INSIDE POLES SHALL BE THW TYPE WITH 75 DEG C RATING.
  - D. SINGLE 8 FOOT COPPERCLAD GROUND ROD
24. LIGHTING INSTALLATION SHALL COMPLY WITH ALL APPLICABLE TDOT STANDARD LIGHTING DETAILS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	L-1
PIH	2026	STP/NH-4(6)	L-1

REV. 7-15-25: SHEET REVISED DUE TO DESIGN CHANGES ON PROJECT.

PLAN  
IN  
HAND

SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

LIGHTING QUANTITIES  
AND GENERAL NOTES

SCALE: N.T.S.

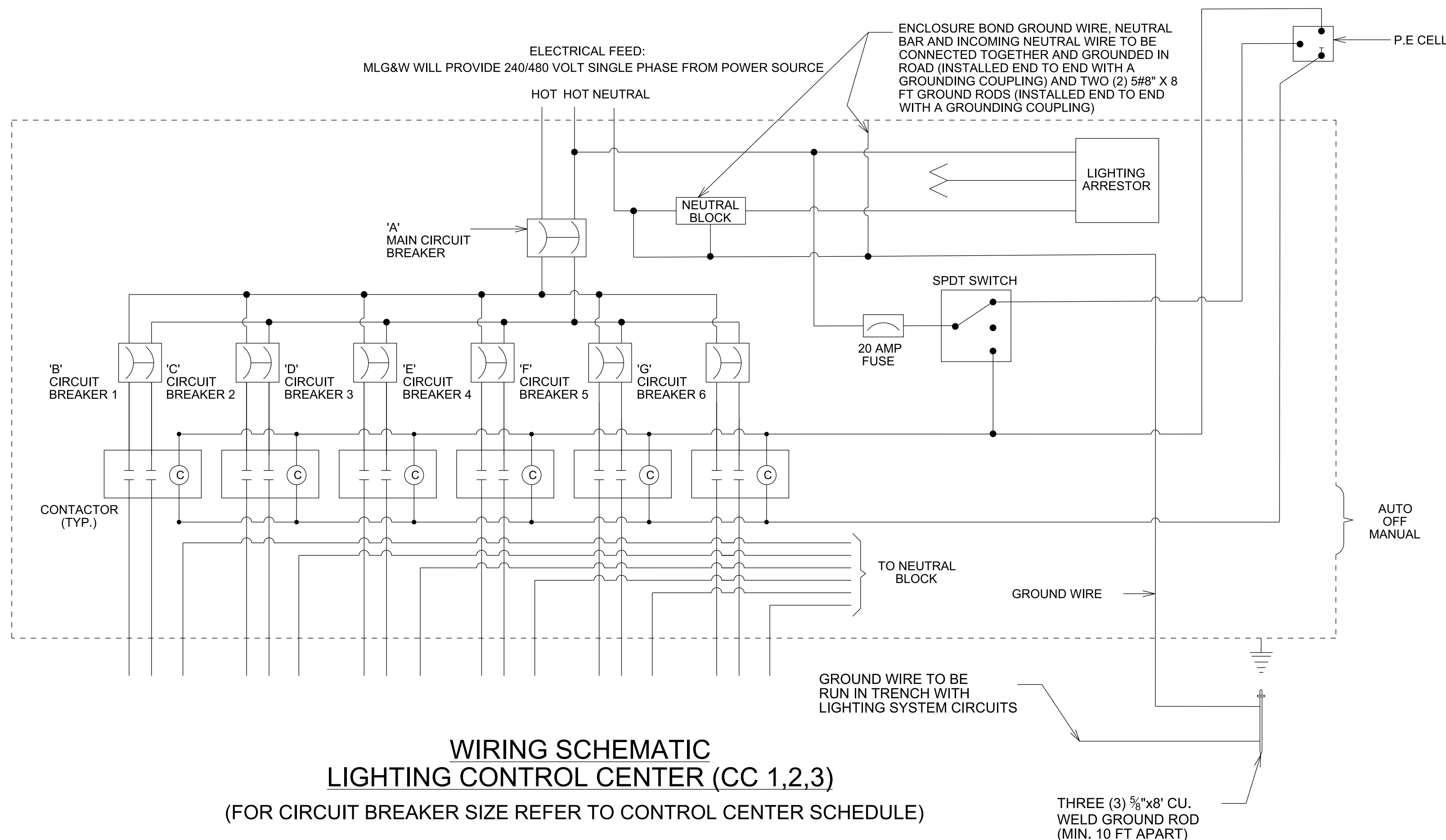
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LIGHT POLE SCHEDULE													
LP#	SHEET NO.	LAMP WATTAGE (LED)	VOLTAGE	LUMINAIRE TYPE	NO. OF LAMPS	CONTROL CENTER NO.	CIRCUIT NO.	MOUNTING HEIGHT	STATION	OFFSET	SIDE	NORTHING	EASTING
7	L-6	142	240	A	1	CC1	1-B	45	515+48.10	624.27	LT	279873.4403	795467.4091
8	L-6	142	240	A	1	CC1	1-B	45	516+18.42	474.87	LT	280027.4399	795542.4089
9	L-6	142	240	A	1	CC1	1-B	45	514+76.48	468.58	LT	279896.4402	795643.4087
10	L-6	142	240	A	1	CC1	1-B	45	525+50.23	96.04	LT	281110.4378	795455.4091
11	L-7	142	240	A	1	CC1	1-B	45	527+17.49	83.35	LT	281280.9924	795426.8011
12	L-7	142	240	A	1	CC1	1-C	45	528+74.96	91.36	RT	281467.6341	795569.8099
13	L-7	142	240	A	1	CC1	1-B	45	528+73.80	80.66	LT	281439.3021	795400.1382
14	L-7	142	240	A	1	CC1	1-C	45	530+25.69	79.01	RT	281612.5868	795536.6289
15	L-7	142	240	A	1	CC1	1-B	45	530+32.48	75.75	LT	281599.4608	795382.2782
16	L-7	142	240	A	1	CC1	1-C	45	531+88.62	77.35	RT	281773.5085	795514.9640
17	L-7	142	240	A	1	CC1	1-B	45	531+94.58	70.58	LT	281761.4365	795367.4093
19	L-7	142	240	A	1	CC1	1-B	45	533+54.46	68.12	LT	281920.4362	795350.4093
24	L-7	142	240	A	1	CC1	1-C	45	538+32.24	68.22	RT	282411.2382	795427.6641
26	L-7	142	240	A	1	CC2	2-C	45	539+92.89	61.61	RT	282570.0929	795401.4692
27	L-7	142	240	A	1	CC1	1-B	45	539+98.59	68.76	LT	282559.4349	795271.4095
28	L-7	142	240	A	1	CC2	2-C	45	541+51.96	62.06	RT	282729.6195	795379.7422
29	L-7	142	240	A	1	CC2	2-A	45	541+61.23	73.50	LT	282717.4346	795244.4095
30	L-7	142	240	A	1	CC2	2-C	45	543+09.03	62.27	RT	282887.8902	795350.2243
31	L-7	142	240	A	1	CC2	2-A	45	543+30.43	77.32	LT	282877.4342	795209.4096
32	L-7	142	240	A	1	CC2	2-C	45	544+65.08	61.67	RT	283043.3409	795308.1144
33	L-7	142	240	A	1	CC2	2-A	45	544+95.12	77.54	LT	283029.4339	795166.4097
34	L-7	142	240	A	1	CC2	2-C	45	546+20.90	65.31	RT	283196.1746	795257.4935
35	L-7	142	240	A	1	CC2	2-A	45	546+61.51	76.23	LT	283179.2496	795111.2528
36	L-7	142	240	A	1	CC2	2-C	45	547+76.62	65.32	RT	283342.9223	795191.2646
37	L-7	142	240	A	1	CC2	2-A	45	548+28.38	76.22	LT	283323.6014	795041.8619
38	L-7	142	240	A	1	CC2	2-C	45	549+32.33	65.35	RT	283483.7930	795113.3148
39	L-7	142	240	A	1	CC2	2-A	45	549+96.03	77.53	LT	283461.2431	794958.6231
40	L-7	142	240	A	1	CC2	2-C	45	550+88.05	65.38	RT	283617.8538	795024.1589
41	L-7	142	240	A	1	CC2	2-A	45	551+60.68	77.66	LT	283589.4328	794866.4103
42	L-8	142	240	A	1	CC2	2-C	45	552+44.09	65.42	RT	283744.3095	794924.5101
43	L-8	142	240	A	1	CC2	2-A	45	553+27.18	74.68	LT	283714.4326	794764.4105
44	L-8	142	240	A	1	CC2	2-C	45	554+02.02	65.45	RT	283864.2433	794817.0234
45	L-8	142	240	A	1	CC2	2-A	45	554+90.75	78.64	LT	283829.4323	794651.4107
46	L-8	142	240	A	1	CC2	2-C	45	555+62.03	65.50	RT	283980.6890	794705.8426
47	L-8	142	240	A	1	CC2	2-A	45	556+69.94	75.63	LT	283960.3761	794529.3489
48	L-8	142	240	A	1	CC2	2-C	45	557+23.05	65.46	RT	284096.5518	794594.0258
49	L-8	142	240	A	1	CC2	2-A	45	558+31.88	76.34	LT	284076.4318	794416.4112
50	L-8	142	240	A	1	CC2	2-D	45	559+01.88	80.11	RT	284235.4315	794480.4110
51	L-8	142	240	A	1	CC2	2-A	45	559+96.70	74.35	LT	284196.4316	794303.4114
52	L-8	142	240	A	1	CC2	2-D	45	560+88.06	90.20	RT	284376.4312	794358.4113
53	L-8	142	240	A	1	CC2	2-A	45	561+57.69	71.23	LT	284314.4634	794193.8836
54	L-8	142	240	A	1	CC2	2-B	45	563+41.52	54.30	LT	284458.5251	794078.4338
55	L-8	142	240	A	1	CC2	2-D	45	564+75.44	59.76	RT	284634.0967	794067.5579
56	L-8	142	240	A	1	CC2	2-B	45	565+28.65	58.64	LT	284590.1898	793945.3961
57	L-8	142	240	A	1	CC2	2-D	45	566+76.11	58.19	RT	284777.4334	793927.1021
58	L-8	142	240	A	1	CC2	2-B	45	567+44.46	61.63	LT	284743.4305	793793.4124
59	L-8	142	240	A	1	CC2	2-D	45	568+83.02	59.94	RT	284927.5594	793784.7058
60	L-8	142	240	A	1	CC2	2-B	45	569+98.05	60.86	LT	284926.4831	793617.9038
61	L-8	142	240	A	1	CC2	2-D	45	571+27.38	59.86	RT	285103.3749	793614.9935
62	L-8	142	240	A	1	CC2	2-B	45	572+46.01	60.89	LT	285104.9208	793445.7261
63	L-8	142	240	A	1	CC2	2-D	45	573+65.77	62.32	RT	285276.4294	793452.4131
64	L-8	142	240	A	1	CC3	3-A	45	574+53.36	62.30	LT	285256.4295	793301.4134
65	L-8	142	240	A	1	CC2	2-F	45	576+04.19	53.76	RT	285446.4291	793288.4134
66	L-8	142	240	A	1	CC3	3-A	45	576+67.89	62.62	LT	285418.6602	793158.6817
67	L-8	142	240	A	1	CC2	2-D	45	562+71.03	100.14	RT	284515.0178	794238.5286
68	L-8	142	240	A	1	CC2	2-D	45	564+67.62	117.32	RT	284668.4307	794114.4118
69	L-8	142	240	A	1	CC2	2-D	45	566+53.33	140.86	RT	284818.4304	794002.4120
70	L-8	142	240	A	1	CC2	2-D	45	567+21.75	209.64	RT	284915.4302	794004.4120
71	L-8	142	240	A	1	CC2	2-D	45	568+29.44	141.22	RT	284945.4301	793880.4122
72	L-8	142	240	A	1	CC2	2-B	45	563+95.06	102.73	LT	284463.4311	794006.4120
73	L-8	142	240	A	1	CC2	2-B	45	565+93.35	126.81	LT	284589.4308	793851.4123
74	L-8	142	240	A	1	CC2	2-B	45	568+17.69	157.72	LT	284729.4305	793673.4127
75	L-8	142	240	A	1	CC2	2-B	45	570+40.49	195.67	LT	284863.4303	793491.4130
76	L-8	142	240	A	1	CC2	2-B	45	572+29.80	247.87	LT	284963.4301	793322.4134
77	L-8	142	240	A	1	CC2	2-F	45	569+86.12	202.06	RT	285100.4298	793815.4124
78	L-8	142	240	A	1	CC2	2-F	45	572+07.53	165.54	RT	285234.4295	793635.4127
79	L-8	142	240	A	1	CC2	2-F	45	574+36.50	137.41	RT	285378.4292	793460.4131
80	L-8	142	240	A	1	CC2	2-F	45	576+28.59	106.33	RT	285499.2390	793312.2944
81	L-8	142	240	A	1	CC3	3-A	45	573+85.40	198.05	LT	285113.4298	793248.4135
82	L-8	142	240	A	1	CC3	3-A	45	575+05.54	154.36	LT	285234.4295	793197.4136
83	L-8	142	240	A	1	CC3	3-A	45	576+78.50	130.41	LT	285382.4292	793100.4138
84	L-8	142	240	A	1	CC2	2-D	45	565+85.11	358.49	RT	284920.4302	794206.4116
85	L-8	142	240	A	1	CC2	2-F	45	566+72.86	440.37	RT	285040.4299	794204.4116
86	L-8	142	240	A	1	CC2	2-F	45	568+50.62	287.52	RT	285062.2499	793970.9941
87	L-8	142	240	A	1	CC2	2-D	45	570+51.41	96.92	RT	285074.4298	793694.4126
88	L-8	142	240	A	1	CC2	2-B	45	570+55.33	78.54	LT	284955.4301	793565.4129
89	L-8	142	240	A	1	CC2	2-B	45	572+77.09	109.13	LT	285093.7968	793389.4302
90	L-8	142	240	A	1	CC2	2-B	45	573+58.32	387.39	LT	284963.4301	793129.4137
91	L-8	142	240	A	1	CC3	3-A	45	574+79.87	316.46	LT	285106.4298	793094.4138
98	L-9	142	240	A	1	CC2	2-F	45	578+19.53	79.68	RT	285626.4287	793167.4137
99	L-9	142	240	A	1	CC3	3-A	45	578+43.84	67.35	LT	285548.8179	793040.1929
100	L-9	142	240	A	1	CC2	2-F	45	580+12.30	68.97	RT	285765.4285	793033.4139
101	L-9	142	240	A	1	CC3	3-A	45	580+15.52	98.60	LT	285658.4287	792904.4142
102	L-9	142	240	A	1	CC2	2-F	45	582+05.57	71.91	RT	285913.7041	792822.5762
103	L-9	142	240	A	1	CC3	3-A	45	581+56.91	84.73	LT	285774.5635	792822.5762
104	L-9	142	240	A	1	CC2	2-F	45	583+81.74	69.32	RT	286045.4279	792792.4144
105	L-9	142	240	A	1	CC3	3-A	45	583+79.42	67.13	LT	285954.5631	792690.5896
106	L-9	142	240	A	1	CC2	2-F	45	585+58.68	61.86	RT	286174.5556	792671.2147
107	L-9	142	240	A	1	CC3	3-A	45	585+75.60	58.70	LT	286108.6378	792568.8589
108	L-9	142	240	A	1	CC2	2-F	45	587+57.81	58.77	RT	286323.3424	792538.8229

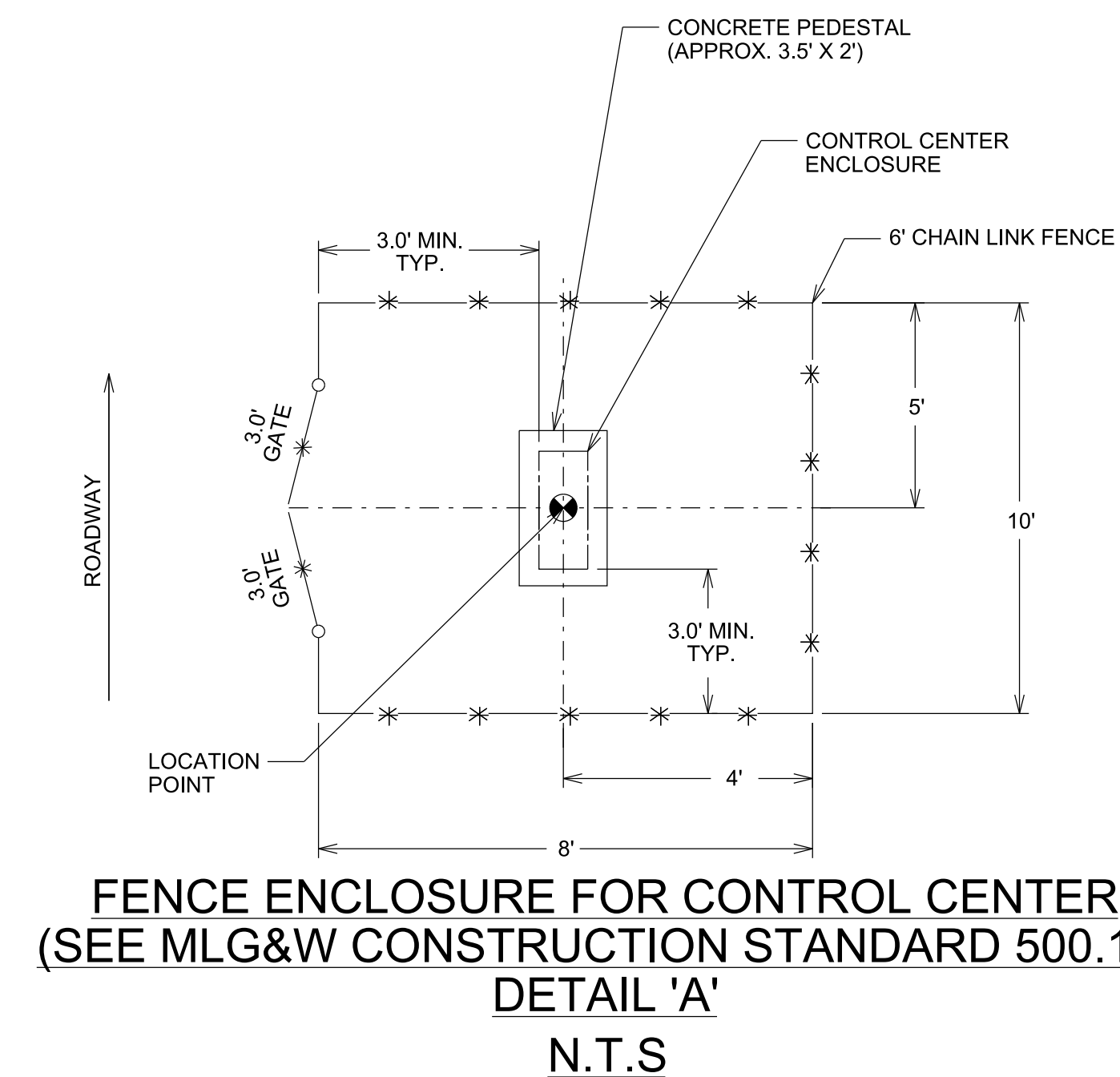
LIGHT POLE SCHEDULE													
LP#	SHEET NO.	LAMP WATTAGE (LED)	VOLTAGE	LUMINAIRE TYPE	NO. OF LAMPS	CONTROL CENTER NO.	CIRCUIT NO.	MOUNTING HEIGHT	STATION	OFFSET	SIDE	NORTHING	EASTING
109	L-9	142	240	A	1	CC3	3-A	45	587+77.91	57.92	LT	286262.3579	792437.3317
110	L-9	142	240	A	1	CC2	2-F	45	589+58.25	58.96	RT	286475.2560	7

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	L-3
PIH	2026	STP/NH-4(6)	L-3

REV. 7-15-25: SHEET REVISED DUE TO DESIGN CHANGES ON PROJECT.



**WIRING SCHEMATIC  
LIGHTING CONTROL CENTER (CC 1,2,3)**  
(FOR CIRCUIT BREAKER SIZE REFER TO CONTROL CENTER SCHEDULE)



**FENCE ENCLOSURE FOR CONTROL CENTER  
(SEE MLG&W CONSTRUCTION STANDARD 500.14)**  
**DETAIL 'A'**  
**N.T.S**

ESTIMATED FENCE & GATE QUANTITIES:  
30 L.F. - 6 FT. CHAIN LINK FENCE W/ 3 STRANDS BARBED WIRE  
2 @ 3 L.F. - 6 FT. CHAIN LINK GATE W/ 3 STRANDS BARBED WIRE

CONTROL CENTER SCHEDULE																
CONTROL CENTER NO.	MAIN CIRCUIT BREAKER (AMPS) 'A'	BRANCH CIRCUIT BREAKERS							LOCATION OF CONTROL CENTER							
		CIRCUIT 1 'B'	CIRCUIT 2 'C'	CIRCUIT 3 'D'	CIRCUIT 4 'E'	CIRCUIT 5 'F'	CIRCUIT 6 'G'	CIRCUIT 7 'H' "SPARE"	BASELINE	STATION	OFFSET (FT)	SIDE	SHEET NO.	NORTHING	EASTING	
(1)	CC1	100	80	15	15				20	S.R.4.	516+51.00	299.00'	LT	L-6	280155.9035	795668.2294
(2)	CC2	100	15	15	15	15	15	15	20	S.R.4.	573+44.00	81.00'	RT	L-8	285272.8428	793480.5667
(3)	CC3	50	20	20	15				20	S.R.4.	597+31.00	96.00'	RT	L-9	287085.0256	791929.9365

- (1) SHALL CONSIST OF ONE (1) TWO POLE, SINGLE THROW CIRCUIT BREAKER, TWO (2) SINGLE POLE, SINGLE THROW CIRCUIT BREAKERS, AND A SPARE BREAKER  
(2) SHALL CONSIST OF SIX (6) SINGLE POLE, SINGLE THROW CIRCUIT BREAKERS AND A SPARE BREAKER  
(3) SHALL CONSIST OF THREE (3) SINGLE POLE, SINGLE THROW CIRCUIT BREAKERS AND A SPARE BREAKER

### CONTROL CENTER NOTES:

- CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL AND INSTALLATION UP TO AND INCLUDING WEATHERHEAD.
- CONTRACTOR SHALL INSTALL A 150 AMP DISCONNECT FOR EACH CONTROL CENTER AS DIRECTED BY THE ENGINEER AND MLG&W.
- CONTRACTOR TO COORDINATE FINAL LOCATION OF CONTROL CENTERS WITH MLG&W AND THE ENGINEER.
- FOR ELECTRICAL SERVICE CONNECTION, CONTACT TOM WORD OF MLG&W AT (901) 491-5739.
- LIGHTING SYSTEM SHALL BE 240 / 480 VOLT SINGLE PHASE SERVICE. HIGHMAST LUMINAIRES SHALL HAVE 480 VOLT OPERATION. ALL OTHER LUMINAIRES SHALL HAVE 240 VOLT OPERATION.
- CONTRACTOR SHALL BALANCE LOADS ON EACH CIRCUIT.
- THE CONTROL CENTER SHALL BE ENCLOSED BY A CHAIN LINK FENCE AS SHOW IN DETAIL 'A'.
- THE CONTROL CENTER CABINET DOOR SHALL FACE AND OPEN TOWARDS THE ROADWAY.
- THE PHOTO ELECTRIC CELL SHALL BE LOCATED AT THE CONTROL CENTER.

### FENCE ENCLOSURE NOTES:

- THE FENCE ENCLOSURE SHALL BE CONSTRUCTED SO THAT THE CONTROL CENTER IS CENTERED WITHIN THE ENCLOSURE.
- THE GATE OPENING SHALL FACE AND OPEN TOWARDS THE ROADWAY.
- THE FENCE ENCLOSURE AS DETAILED ABOVE IN DETAIL 'A' SHALL BE CONSIDERED INCIDENTAL TO THE CONTROL CENTER.

**PLAN  
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HAND**

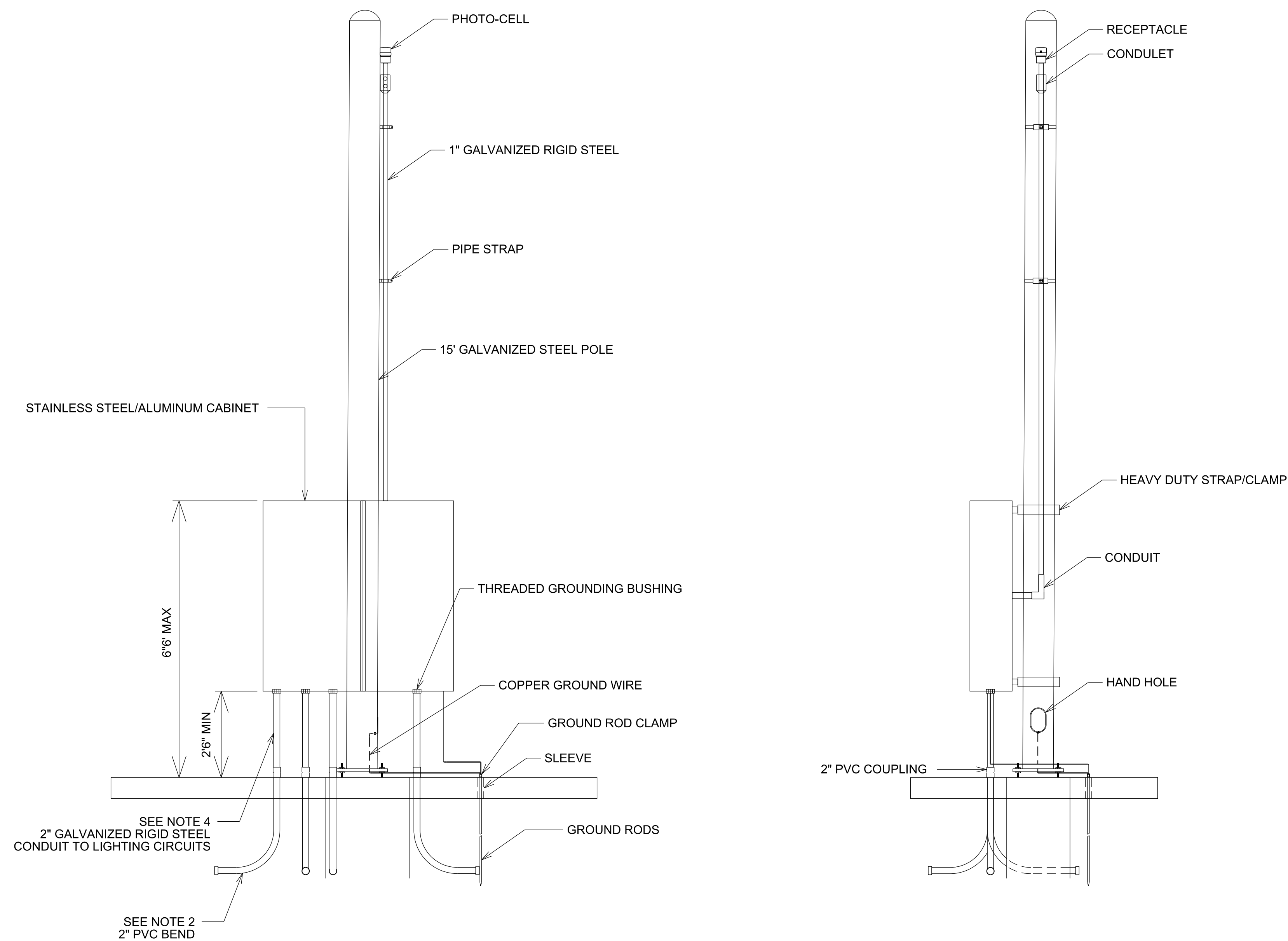
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**CONTROL  
CENTER  
DETAILS**  
SCALE: N.T.S.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	L-4
PIH	2026	STP/NH-4(6)	L-4

REV. 7-15-25: SHEET REVISED DUE TO DESIGN CHANGES ON PROJECT.



### SECONDARY CENTER NOTES:

- LOAD CENTER SHALL HAVE A FENCE, SEE MLG&W STD 500.14 FOR DETAILS.
- THE LOAD CENTER AND FENCE SHALL BE INSTALLED ON A LEVEL AREA WHICH EXTENDS 2' BEYOND THE FENCE PERIMETER, A CONCRETE SLAB SHALL BE CONSTRUCTED AROUND THE POLE FOUNDATION AND EXTEND 1 FOOT BEYOND THE FENCE PERIMETER.
- ADJUST PHOTO ELECTRIC CONTROL RECEPTABLE SO PHOTO-CELL FACES NORTH (OR MODIFY TO ELIMINATE LIGHT SOURCE) WHEN PHOTO ELECTRIC CONTROL IS INSTALLED. THE PHOTO ELECTRIC CONTROL SHALL NEVER FACE THE POLE.
- NUMBER OF CONDUITS WILL VARY.
- ONE INCH CONDUIT IS TO ACCOMMODATE GROUND WIRE.
- ALL CONDUIT ENTERING OR EXITING CABINET TO BE GALVANIZED IRON. EACH SHALL HAVE A THREADED GROUNDING BUSHING AND SHALL BE GROUNDED.
- NO METAL CONDUIT SHALL BE EXPOSED TO DIRT; USE ONLY IN OR ABOVE TOP OF CONCRETE.
- BENDS SHALL BE PVC WITH 24" MINIMUM DEPTH OF COVER.
- LOAD CENTER AND METAL CONDUIT SHALL BE GROUNDED. TWO (2) GROUND RODS SHALL BE INSTALLED ONE ON TOP OF THE OTHER AND JOINED WITH A GROUND ROD COUPLING. MULTIPLE EARTH GROUND ROD LOCATIONS ARE NOT PERMITTED.
- CONTACTOR SHALL BE A MINIMUM OF 9" FROM BOTTOM OF CABINET FOR #2 OR SMALLER CABLE TO AVOID SEVERE CABLE STRAINING BENDS; OR 12" SPACING FOR CABLE LARGER THAN #2. ALL CABLES SHALL BE ROUTED, TRAINED AND SECURED IN THE CABINET BY METHODS WHICH PREVENT DAMAGE TO THE CABLE AND CONNECTIONS. THE CABLE SHALL NOT BE ROUTED OVER SHARP EDGES AND SHALL NOT BE BENT TO A RADIUS LESS THAN FIVE (5) TIMES THE OUTSIDE DIAMETER OF THE CABLE, OR AS RECOMMENDED BY THE MANUFACTURER, WHICHEVER IS GREATER. CONNECTIONS SHALL BE MECHANICALLY AND ELECTRICALLY SECURE WITHOUT MECHANICAL TENSION ON THE CONNECTIONS.
- CABINET SHALL BE CENTERED WITH RESPECT TO THE MINIMUM AND MAXIMUM HEIGHTS ABOVE FINAL GRADE.
- NO SPLICES SHALL BE ALLOWED INSIDE OF CABINET.

PLAN  
IN  
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DEPARTMENT OF TRANSPORTATION

CONTROL  
CENTER  
DETAILS  
SCALE: N.T.S.

UNDERGROUND FEED SECONDARY CONTROL CENTER (CC 1,2,3)  
N.T.S.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	L-5
PIH	2026	STP/NH-4(6)	L-5

REV. 7-15-25: SHEET REVISED DUE TO DESIGN CHANGES ON PROJECT.

WIRING AND CONDUIT SCHEDULE						
RUN NO.	POLE NO. TO POLE NO.		CONDUIT LENGTH (FT.)			NO. & SIZE OF WIRE
			OPEN TRENCH (FT.) (SCH. 40 PVC)	DIRECTIONAL BORE (FT.) (SCH. 80 PVC)	TOTAL LENGTH (FT.)	
CC1-A	CC1	PB1	160	0	160	(3) 1C #6 AWG (1) #6 AWG COPPER
	PB1	HM4	140	0	140	
	HM4	HM2	420	0	420	
	PB1	HM5	410	0	410	
	PB1	PB2	0	250	250	
	PB2	HM6	700	0	700	
	PB2	HM3	260	0	260	
	HM3	HM1	430	0	430	
CC1-B	CC1	PB3	0	140	140	(3) 1C #4 AWG (1) #4 AWG COPPER
	PB3	LP8	100	0	100	
	LP8	LP7	170	0	170	
	LP7	LP9	0	180	180	
	PB3	LP10	980	0	980	
	LP10	LP11	170	0	170	
	LP11	LP13	160	0	160	
	LP13	LP15	160	0	160	
	LP15	LP17	160	0	160	
	LP17	LP19	160	0	160	
	LP19	LP21	160	0	160	
	LP21	LP23	160	0	160	
	LP23	LP25	160	0	160	
	LP25	LP27	160	0	160	
	CC1-C	CC1	PB1	160	0	
PB1		PB2	0	250	250	
PB2		PB4	1000	0	1000	
PB4		LP12	0	150	150	
LP12		LP14	150	0	150	
LP14		LP16	160	0	160	
LP16		LP18	160	0	160	
LP18		LP20	160	0	160	
LP20		LP22	160	0	160	
LP22	LP24	160	0	160		
CC2-A	CC2	PB14	60	0	60	(3) 1C #2 AWG (1) #2 AWG COPPER
	PB14	PB15	0	140	140	
	PB15	LP53	910	230	1140	
	LP53	LP51	160	0	160	
	LP51	LP49	160	0	160	
	LP49	LP47	160	0	160	
	LP47	LP45	0	180	180	
	LP45	LP43	160	0	160	
	LP43	LP41	160	0	160	
	LP41	LP39	160	0	160	
	LP39	LP37	160	0	160	
	LP37	LP35	160	0	160	
	LP35	LP33	160	0	160	
LP33	LP31	160	0	160		
LP31	LP29	160	0	160		
CC2-B	CC2	PB14	60	0	60	(3) 1C #4 AWG (1) #4 AWG COPPER
	PB14	PB15	0	140	140	
	PB15	LP62	200	0	200	
	LP62	LP89	70	0	70	
	LP89	PB27	20	0	20	
	PB27	PB26	0	190	190	
	PB26	LP88	20	0	20	
	LP88	LP60	60	0	60	
	LP60	LP58	250	0	250	
	LP58	LP56	220	0	220	
	LP56	LP54	190	0	190	
	LP54	PB6	10	0	10	
	PB6	PB5	0	40	40	
	PB5	LP72	60	0	60	
	LP72	LP73	200	0	200	
	LP73	LP74	230	0	230	
	LP74	LP75	230	0	230	
	LP75	LP76	190	0	190	
	LP76	LP90	190	0	190	

\* SEE TDOT STANDARD DRAWING STD-8-2SS FOR THE CONDUIT INSTALLED ON BRIDGES. SEE BRIDGE AND RETAINING WALL PLANS FOR PAY ITEM.

WIRING AND CONDUIT SCHEDULE						
RUN NO.	POLE NO. TO POLE NO.		CONDUIT LENGTH (FT.)			NO. & SIZE OF WIRE
			OPEN TRENCH (FT.) (SCH. 40 PVC)	DIRECTIONAL BORE (FT.) (SCH. 80 PVC)	TOTAL LENGTH (FT.)	
CC2-C	CC2	PB14	60	0	60	(3) 1C #2 AWG (1) #2 AWG COPPER
	PB14	PB9	330	190	520	
	PB9	PB8	0	60	60	
	PB8	PB7	0	90	90	
	PB7	LP48	1000	0	1000	
	LP48	LP46	160	0	160	
	LP46	LP44	160	0	160	
	LP44	LP42	160	0	160	
	LP42	LP40	170	0	170	
	LP40	LP38	160	0	160	
	LP38	LP36	160	0	160	
	LP36	LP34	160	0	160	
	LP34	LP32	160	0	160	
	LP32	LP30	160	0	160	
	LP30	LP28	160	0	160	
LP28	LP26	160	0	160		
CC2-D	CC2	PB14	60	0	60	(3) 1C #4 AWG (1) #4 AWG COPPER
	PB14	LP63	30	0	30	
	LP63	LP61	240	0	240	
	LP61	LP87	90	0	90	
	LP87	PB11	50	0	50	
	PB11	PB10	0	190	190	
	PB10	LP59	20	0	20	
	LP59	LP57	210	0	210	
	LP57	LP55	200	0	200	
	LP55	PB9	60	0	60	
	PB9	PB8	0	60	60	
	PB8	LP71	30	0	30	
	LP71	PB7	0	90	90	
	PB7	LP69	60	0	60	
	LP69	LP68	190	0	190	
LP68	LP67	200	0	200		
LP67	LP52	185	0	185		
LP52	LP50	190	0	190		
LP50	PB7	40	0	40		
LP70	LP84	200	0	200		
CC2-E	CC2	PB11	250	0	250	(3) 1C #8 AWG (1) #8 AWG COPPER
	PB11	UP95	30	0	30	
	UP95	UP96	80	0	80	
	UP96	UP97	60	0	60	
	PB11	PB10	0	190	190	
	PB10	UP92	90	0	90	
	UP92	UP93	60	0	60	
	UP93	UP94	60	0	60	
	UP94					
CC2-F	CC2	PB13	60	0	60	(3) 1C #6 AWG (1) #6 AWG COPPER
	PB13	LP65	40	0	40	
	PB13	PB12	0	50	50	
	PB12	LP79	150	0	150	
	LP79	LP78	230	0	230	
	LP78	LP77	220	0	220	
	LP77	LP86	160	0	160	
	LP86	LP85	230	0	230	
	PB12	LP80	40	0	40	
	LP80	LP98	190	0	190	
	LP98	LP100	190	0	190	
	LP100	LP102	190	0	190	
	LP102	LP104	180	0	180	
	LP104	LP106	180	0	180	
	LP106	LP108	200	0	200	
LP108	LP110	200	0	200		
LP110	LP112	150	0	150		

\* SEE TDOT STANDARD DRAWING STD-8-2SS FOR THE CONDUIT INSTALLED ON BRIDGES. SEE BRIDGE AND RETAINING WALL PLANS FOR PAY ITEM.

WIRING AND CONDUIT SCHEDULE						
RUN NO.	POLE NO. TO POLE NO.		CONDUIT LENGTH (FT.)			NO. & SIZE OF WIRE
			OPEN TRENCH (FT.) (SCH. 40 PVC)	DIRECTIONAL BORE (FT.) (SCH. 80 PVC)	TOTAL LENGTH (FT.)	
CC3-A	CC3	PB25	30	0	30	(3) 1C #2 AWG (1) #2 AWG COPPER
	PB25	PB18	0	130	130	
	PB18	LP139	240	0	240	
	PB18	LP119	40	0	40	
	LP119	LP117	180	0	180	
	LP117	LP115	190	0	190	
	LP115	LP113	180	0	180	
	LP113	LP111	180	0	180	
	LP111	LP109	180	0	180	
	LP109	LP107	200	0	200	
	LP107	LP105	200	0	200	
	LP105	LP103	220	0	220	
	LP103	LP101	150	0	150	
	LP101	LP125	160	0	160	
	LP125	PB17	110	0	110	
PB17	LP83	70	0	70		
LP83	LP82	180	0	180		
LP82	LP81	130	0	130		
LP81	LP91	150	0	150		
PB17	PB16	0	60	60		
PB16	LP99	110	0	110		
PB16	LP66	60	0	60		
LP66	LP64	210	0	210		
CC3-B	CC3	PB25	30	0	30	(3) 1C #8 AWG (1) #8 AWG COPPER
	PB25	LP120	30	0	30	
	LP120	LP137	30	0	30	
	LP137	LP135	270	0	270	
	PB25	PB24	0	110	110	
	PB24	LP118	30	0	30	
	LP118	LP116	0	190	190	
	LP116	LP114	170	0	170	
	PB24	LP126	30	0	30	
	LP126	LP127	170	0	170	
	LP127	LP128	200	0	200	
	LP128	LP129	210	0	210	
	LP129	LP120	0	110	110	
	PB21	LP122	30	0	30	
	LP122	LP136	120	0	120	
	LP136	PB23	30	0	30	
	PB23	PB22	0	90	90	
	PB22	LP131	140	0	140	
	LP131	LP130	220	0	220	
	PB22	LP132	90	0	90	
LP132	LP124	110	0	110		
PB21	PB20	0	130	130		
PB20	LP121	30	0	30		
PB20	LP138	90	0	90		
PB20	PB19	0	110	110		
PB19	LP123	140	0	140		
PB19	LP133	60	0	60		
LP133	LP134	260	0	260		
CC3-C	CC3	PB25	30	0	30	(3) 1C #8 AWG (1) #8 AWG COPPER
	PB25	UP141	80	0	80	
	PB25	PB18	0	130	130	
	PB18	UP140	60	0	60	
	UP140	UP142	50	0	50	

\* SEE TDOT STANDARD DRAWING STD-8-2SS FOR THE CONDUIT INSTALLED ON BRIDGES. SEE BRIDGE AND RETAINING WALL PLANS FOR PAY ITEM.

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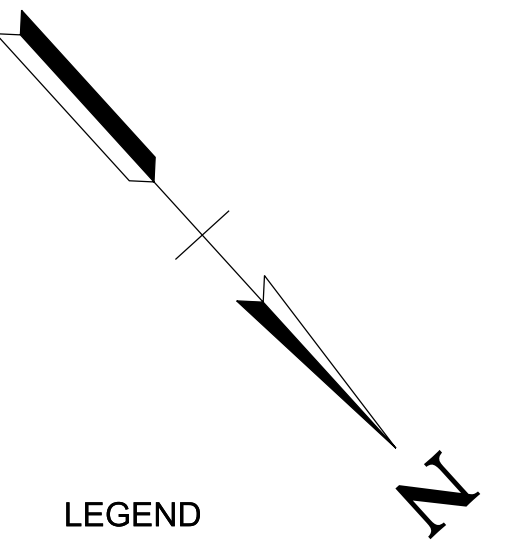
WIRING AND CONDUIT  
DETAILS

SCALE: N.T.S.

AGI32 STATISTICAL CALCULATION SUMMARY							
LOCATION	LUMINAIRE TYPE	QUANTITY	ILLUMINANCE (FC)				
			AVERAGE	MAXIMUM	MINIMUM	AVERAGE/ MINIMUM	MAXIMUM/ MINIMUM
MAINLINE	HIGHMAST	6	1.02	2.00	0.34	3.00	5.88
MAINLINE	COBRA HEAD w/ 6' ARM	1	1.08	2.01	0.36	3.00	5.58
RAMP 1	COBRA HEAD w/ 6' ARM	3	0.84	1.75	0.35	2.40	5.00
CORRIDOR 2	N/A	N/A	0.81	1.19	0.33	2.45	3.61

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	L-6
PIH	2026	STP/NH-4(6)	L-6

REV. 7-15-25: SHEET REVISED DUE TO DESIGN CHANGES ON PROJECT.



**LEGEND**

- JACK AND BORE / ENCASED CONDUIT
- TRENCHED CONDUIT
- SINGLE LIGHT FIXTURE
- SINGLE UNDERPASS LIGHT FIXTURE
- SINGLE HIGH MAST LIGHT FIXTURE
- SINGLE HIGH MAST LIGHT FIXTURE (BY OTHERS)
- LP# / UP#
- PULL BOX
- LIGHTING CONTROL CENTER



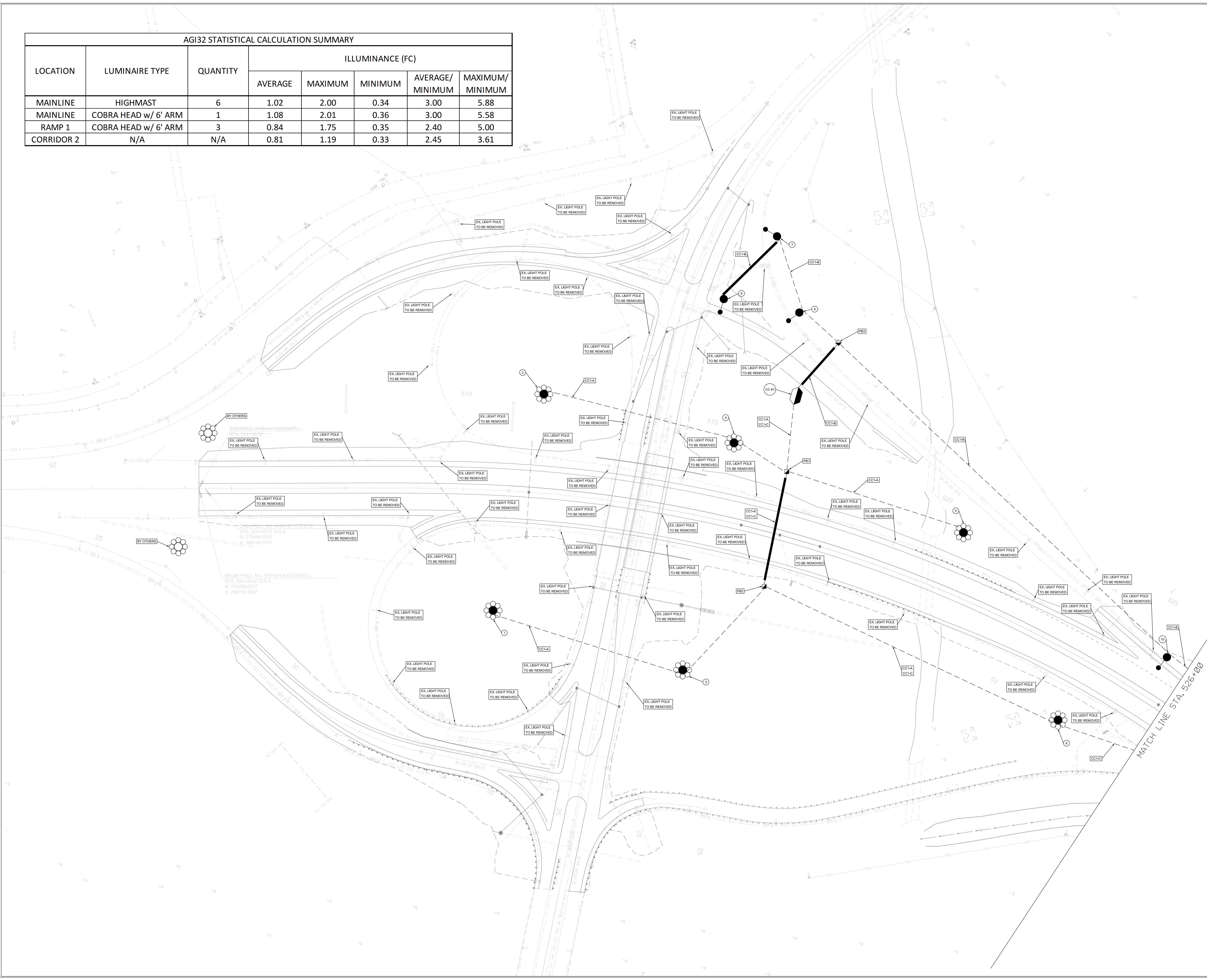
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PROPOSED  
LIGHTING PLANS  
STA. 504+30 TO STA 526+00  
SCALE: 1"=100'

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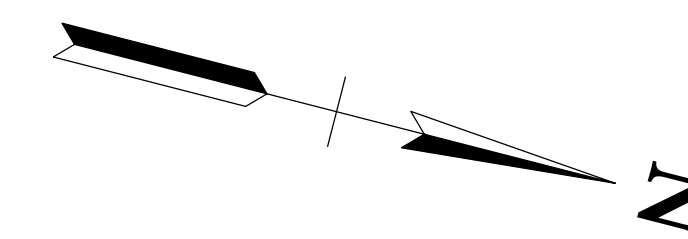
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E. 796745.9151

BEGIN PROJ. NO. STP-NH-4(6) (CONST.)  
STA. 504+30.00 S.R.4  
N. 279438.0977  
E. 796755.7987

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	L-7
PIH	2026	STP/NH-4(6)	L-7

REV. 7-15-25: SHEET REVISED DUE TO DESIGN CHANGES ON PROJECT.

AGI32 STATISTICAL CALCULATION SUMMARY							
LOCATION	LUMINAIRE TYPE	QUANTITY	ILLUMINANCE (FC)				
			AVERAGE	MAXIMUM	MINIMUM	AVERAGE/MINIMUM	MAXIMUM/MINIMUM
MAINLINE	COBRA HEAD w/ 6' ARM	31	1.02	2.00	0.34	3.00	5.88



LEGEND

- JACK AND BORE / ENCASED CONDUIT
- TRENCHED CONDUIT
- SINGLE LIGHT FIXTURE
- SINGLE UNDERPASS LIGHT FIXTURE
- SINGLE HIGH MAST LIGHT FIXTURE
- SINGLE HIGH MAST LIGHT FIXTURE (BY OTHERS)
- LP# / UP#
- PULL BOX
- LIGHTING CONTROL CENTER



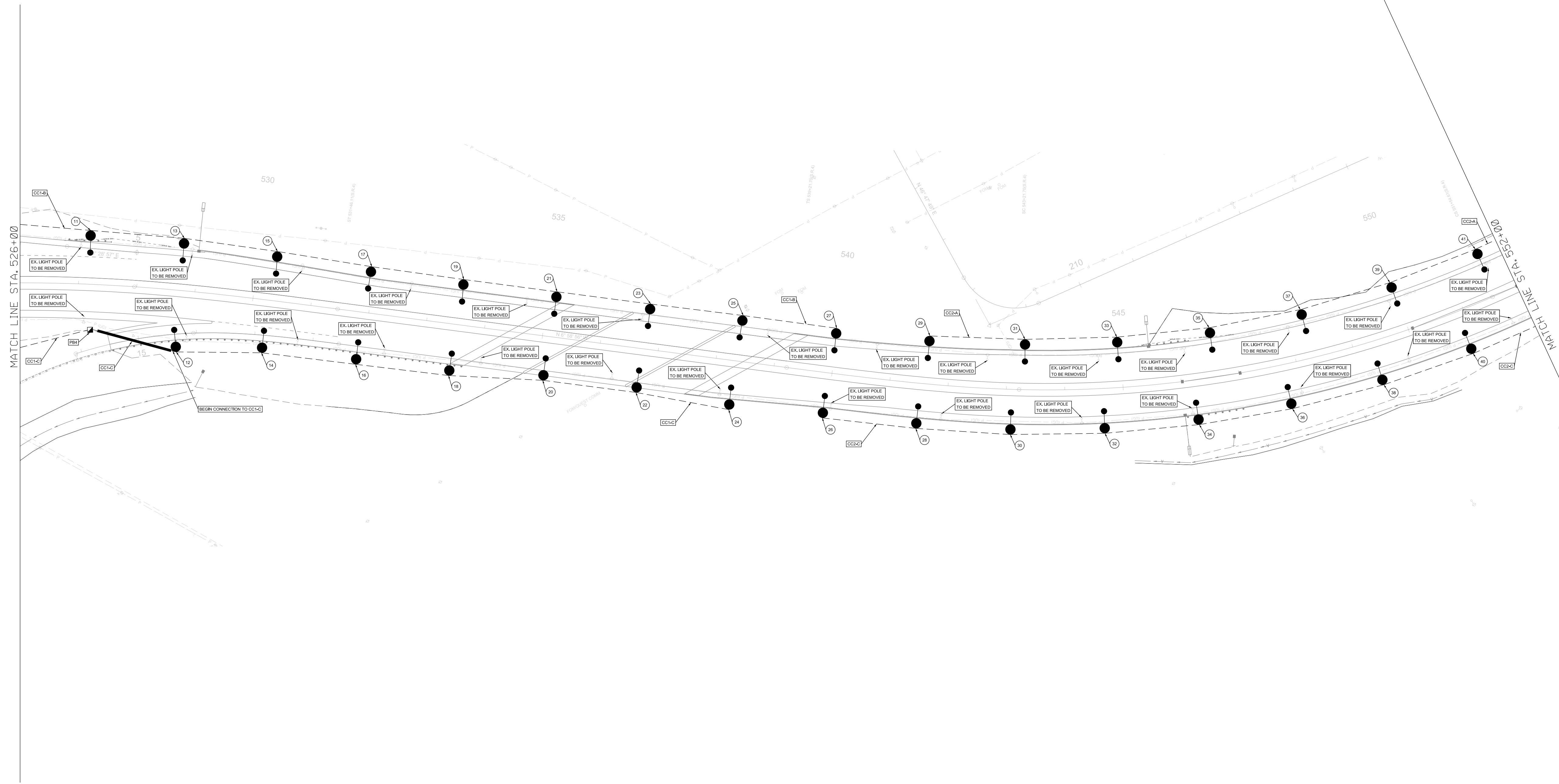
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PROPOSED  
LIGHTING PLANS  
STA. 526+00 TO STA 552+00

SCALE: 1"=100'



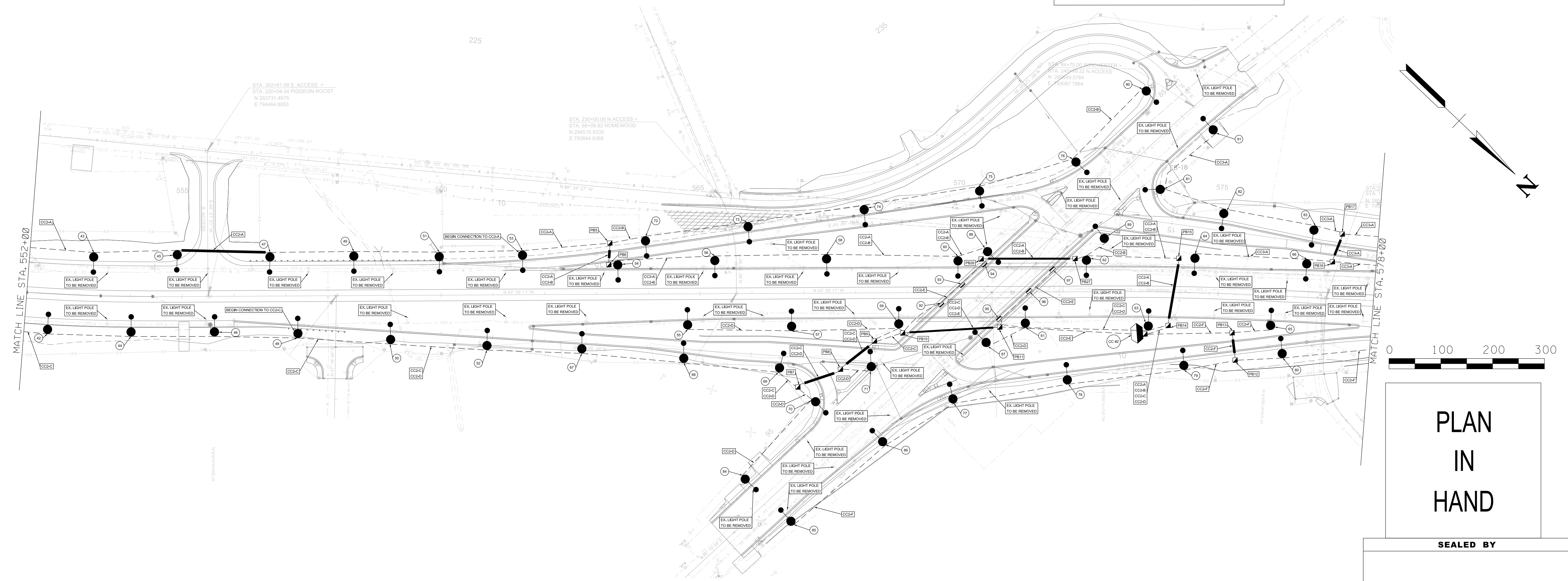
AGI32 STATISTICAL CALCULATION SUMMARY							
LOCATION	LUMINAIRE TYPE	QUANTITY	ILLUMINANCE (FC)				
			AVERAGE	MAXIMUM	MINIMUM	AVERAGE/ MINIMUM	MAXIMUM/ MINIMUM
MAINLINE	COBRA HEAD w/ 6' ARM	25	1.02	2.00	0.34	3.00	5.88
RAMP 2	COBRA HEAD w/ 6' ARM	4	0.87	1.52	0.29	3.00	5.24
RAMP 3	COBRA HEAD w/ 6' ARM	5	1.09	1.6	0.38	2.87	4.21
CORRIDOR 3	COBRA HEAD w/ 6' ARM	9	0.93	1.72	0.33	2.82	5.21
UNDERPASS 1	WALL PACK	6	1.01	2.78	0.35	2.89	7.94
RAMP 4	COBRA HEAD w/ 6' ARM	4	0.95	1.59	0.35	2.71	4.54
RAMP 5	COBRA HEAD w/ 6' ARM	3	1.08	2.26	0.38	2.84	5.95

**LEGEND**

- JACK AND BORE / ENCASED CONDUIT
- TRENCHED CONDUIT
- SINGLE LIGHT FIXTURE
- SINGLE UNDERPASS LIGHT FIXTURE
- SINGLE HIGH MAST LIGHT FIXTURE
- SINGLE HIGH MAST LIGHT FIXTURE (BY OTHERS)
- LP# / UP#
- PULL BOX
- LIGHTING CONTROL CENTER

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	L-8
PIH	2026	STP/NH-4(6)	L-8

REV. 7-15-25: SHEET REVISED DUE TO DESIGN CHANGES ON PROJECT.



**PLAN  
IN  
HAND**

SEALED BY


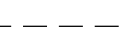
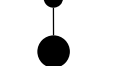

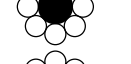
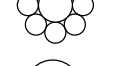



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED  
LIGHTING PLANS  
STA. 552+00 TO STA 578+00**

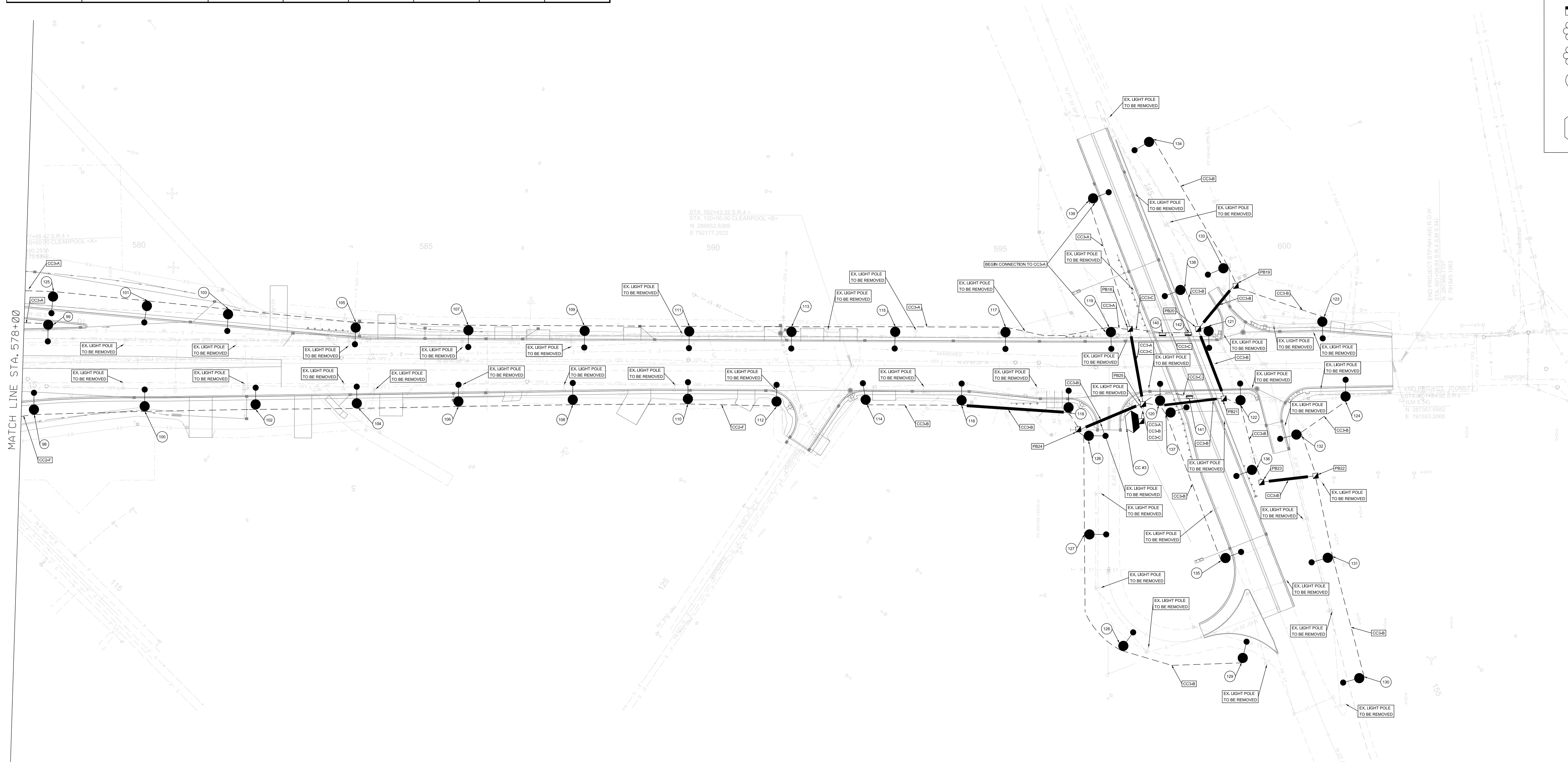
SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	L-9
PIH	2026	STP/NH-4(6)	L-9

REV. 7-15-25: SHEET REVISED DUE TO DESIGN CHANGES ON PROJECT.  
**LEGEND**

-  JACK AND BORE / ENCASED CONDUIT
-  TRENCHED CONDUIT
-  SINGLE LIGHT FIXTURE
-  SINGLE UNDERPASS LIGHT FIXTURE
-  SINGLE HIGH MAST LIGHT FIXTURE
-  SINGLE HIGH MAST LIGHT FIXTURE (BY OTHERS)
-  LP# / UP#
-  PULL BOX
-  LIGHTING CONTROL CENTER

AGI32 STATISTICAL CALCULATION SUMMARY							
LOCATION	LUMINAIRE TYPE	QUANTITY	ILLUMINANCE (FC)				
			AVERAGE	MAXIMUM	MINIMUM	AVERAGE/MINIMUM	MAXIMUM/MINIMUM
MAINLINE	COBRA HEAD w/ 6' ARM	27	1.02	2.00	0.34	3.00	5.88
RAMP 5	COBRA HEAD w/ 6' ARM	1	1.08	2.26	0.38	2.84	5.95
RAMP 6	COBRA HEAD w/ 6' ARM	4	0.92	1.56	0.31	2.97	5.03
CORRIDOR 4	COBRA HEAD w/ 6' ARM	5	1.11	2.95	0.37	3.00	7.97
UNDERPASS 2	WALL PACK	3	0.94	2.46	0.33	2.85	7.45
RAMP 7	COBRA HEAD w/ 6' ARM	3	0.99	1.48	0.39	2.54	3.79
RAMP 8	COBRA HEAD w/ 6' ARM	2	0.84	1.42	0.3	2.80	4.73



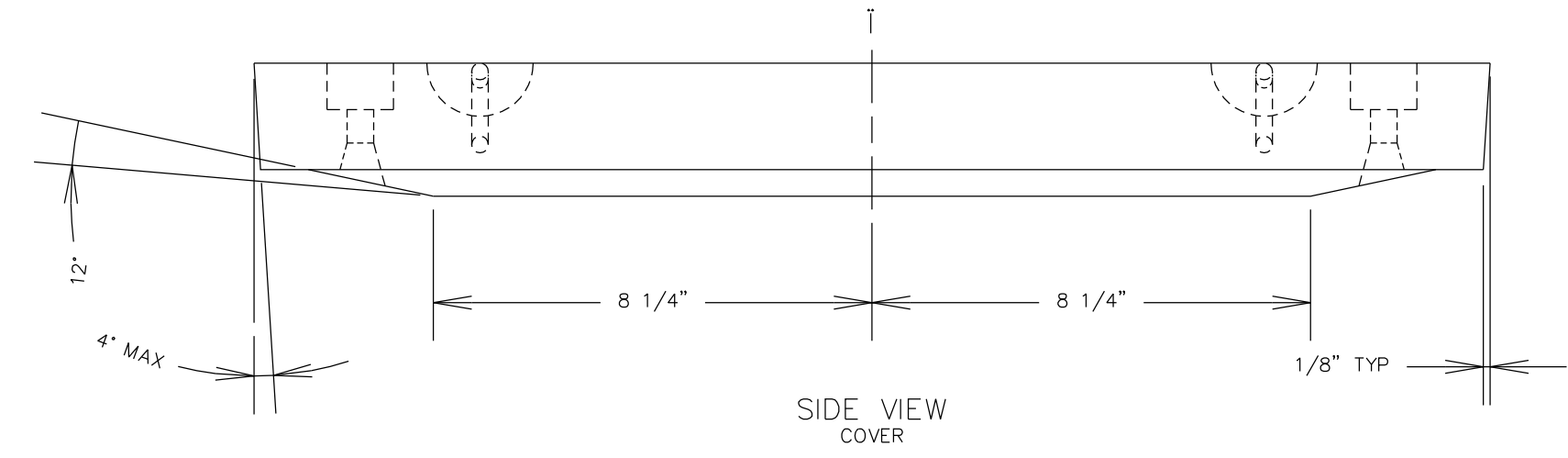
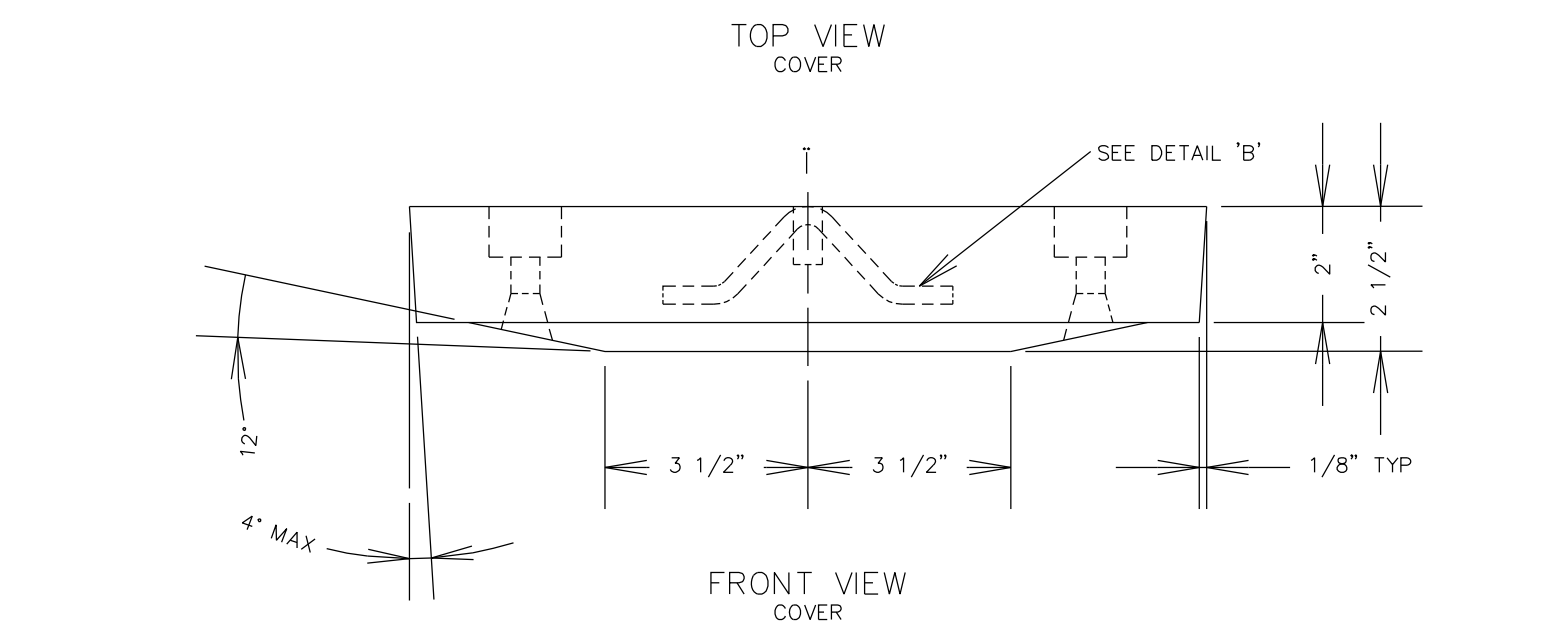
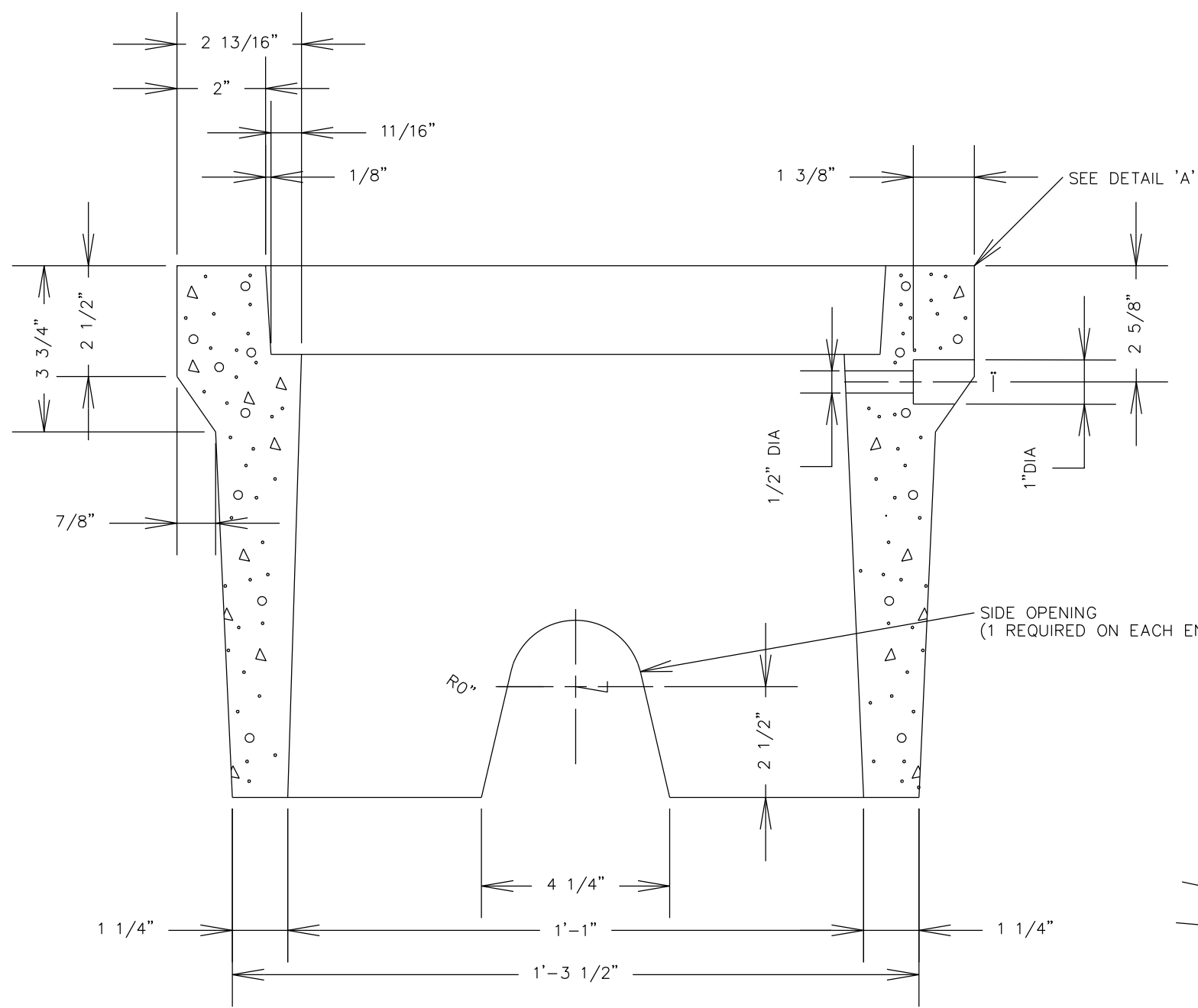
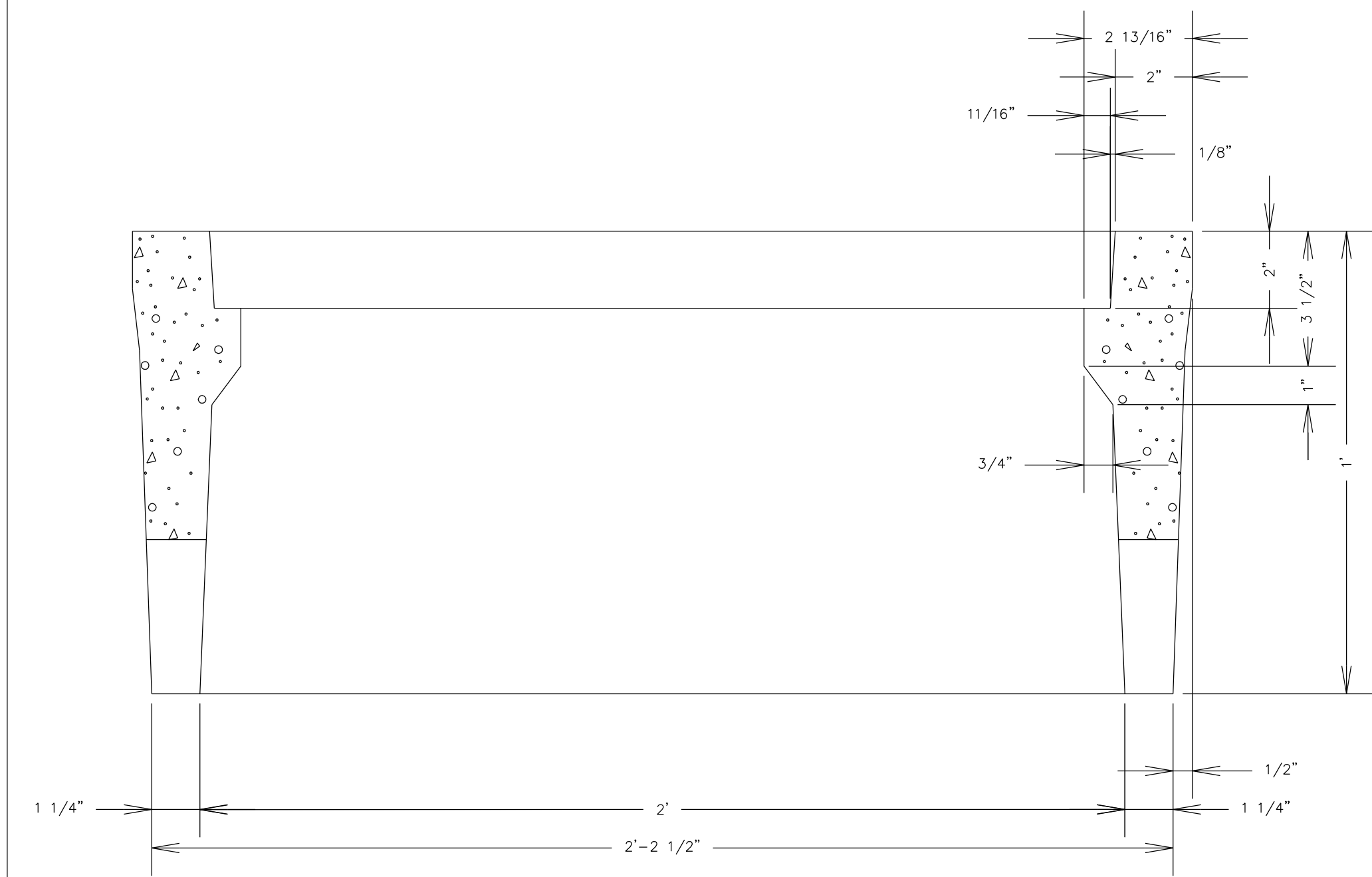
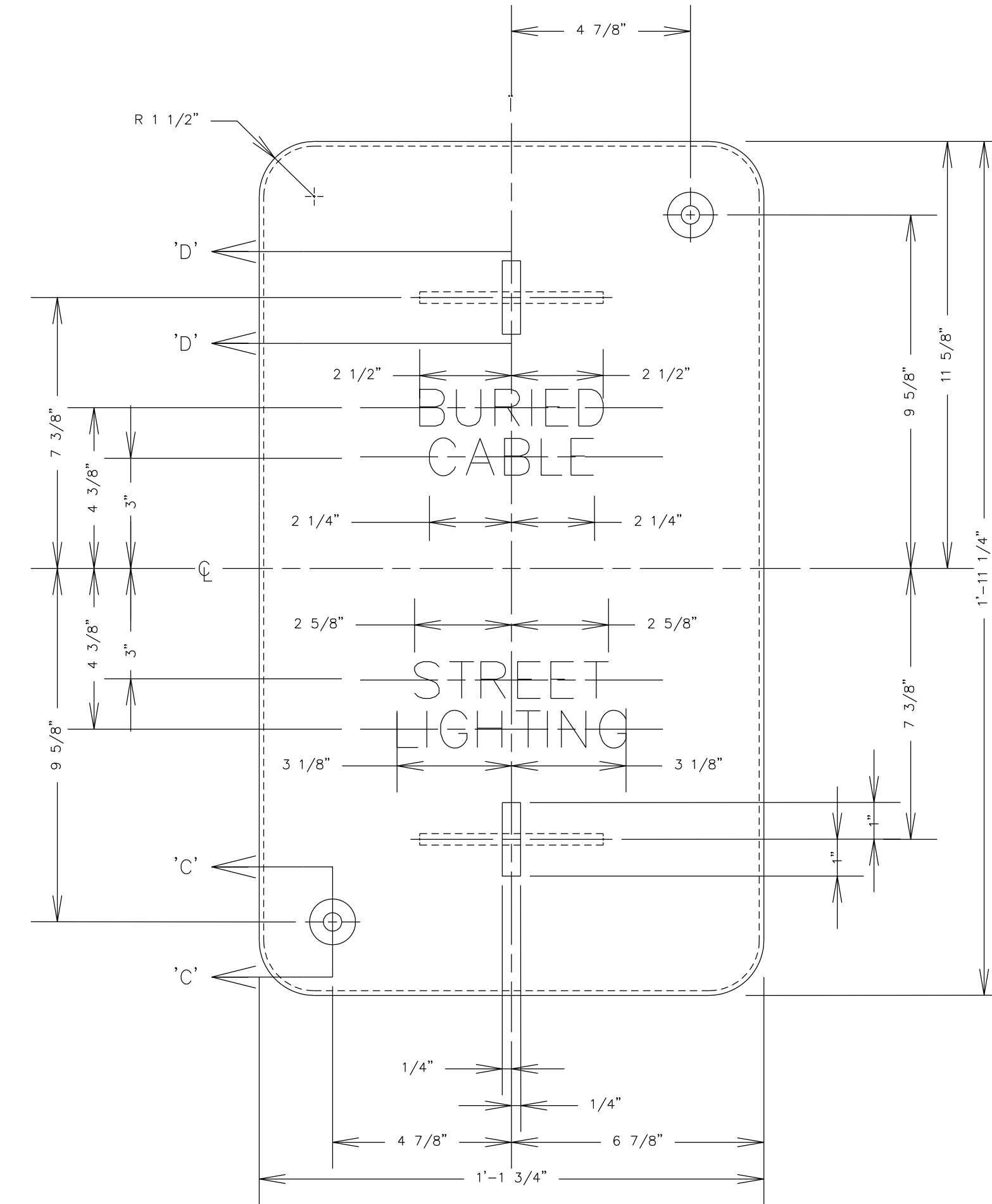
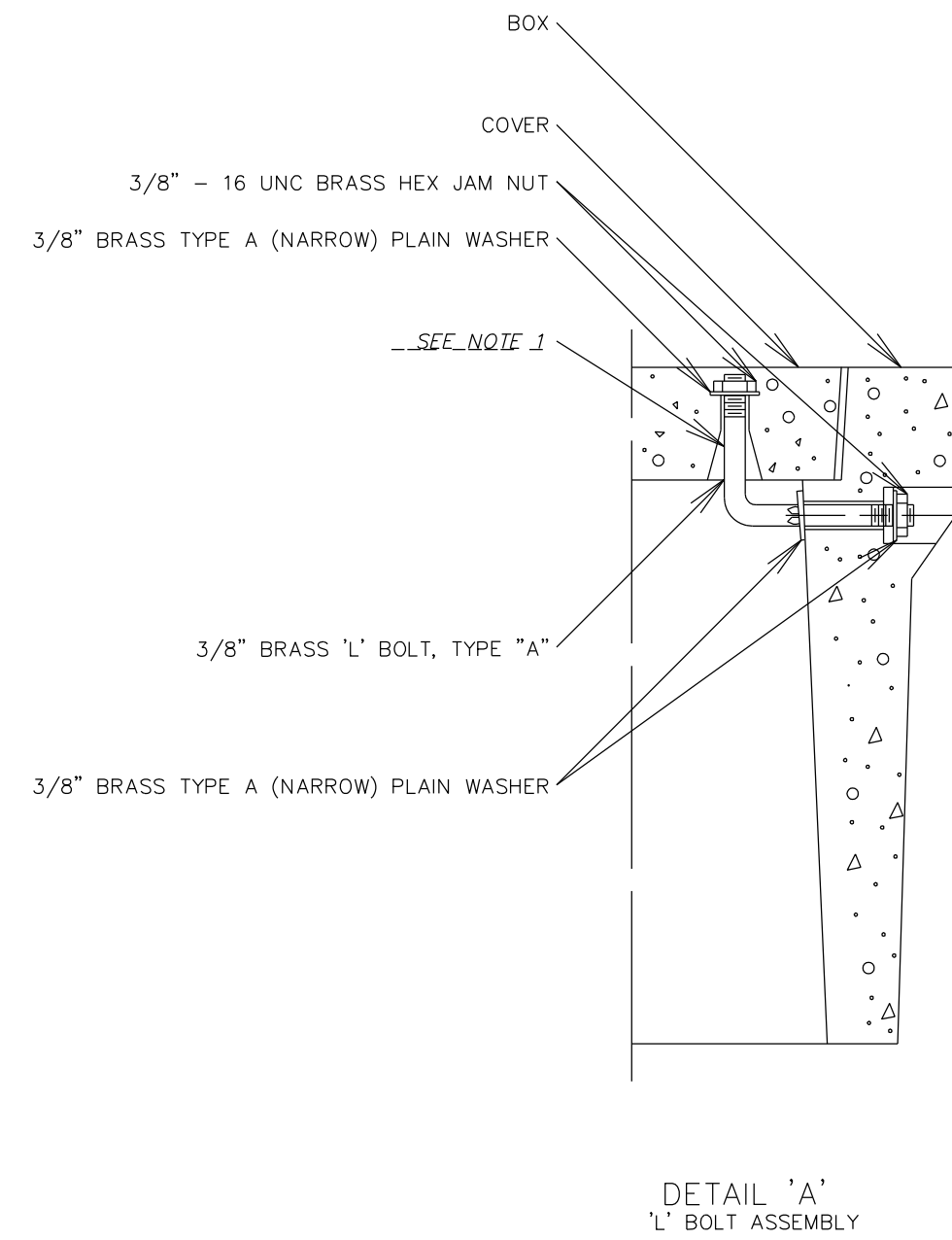
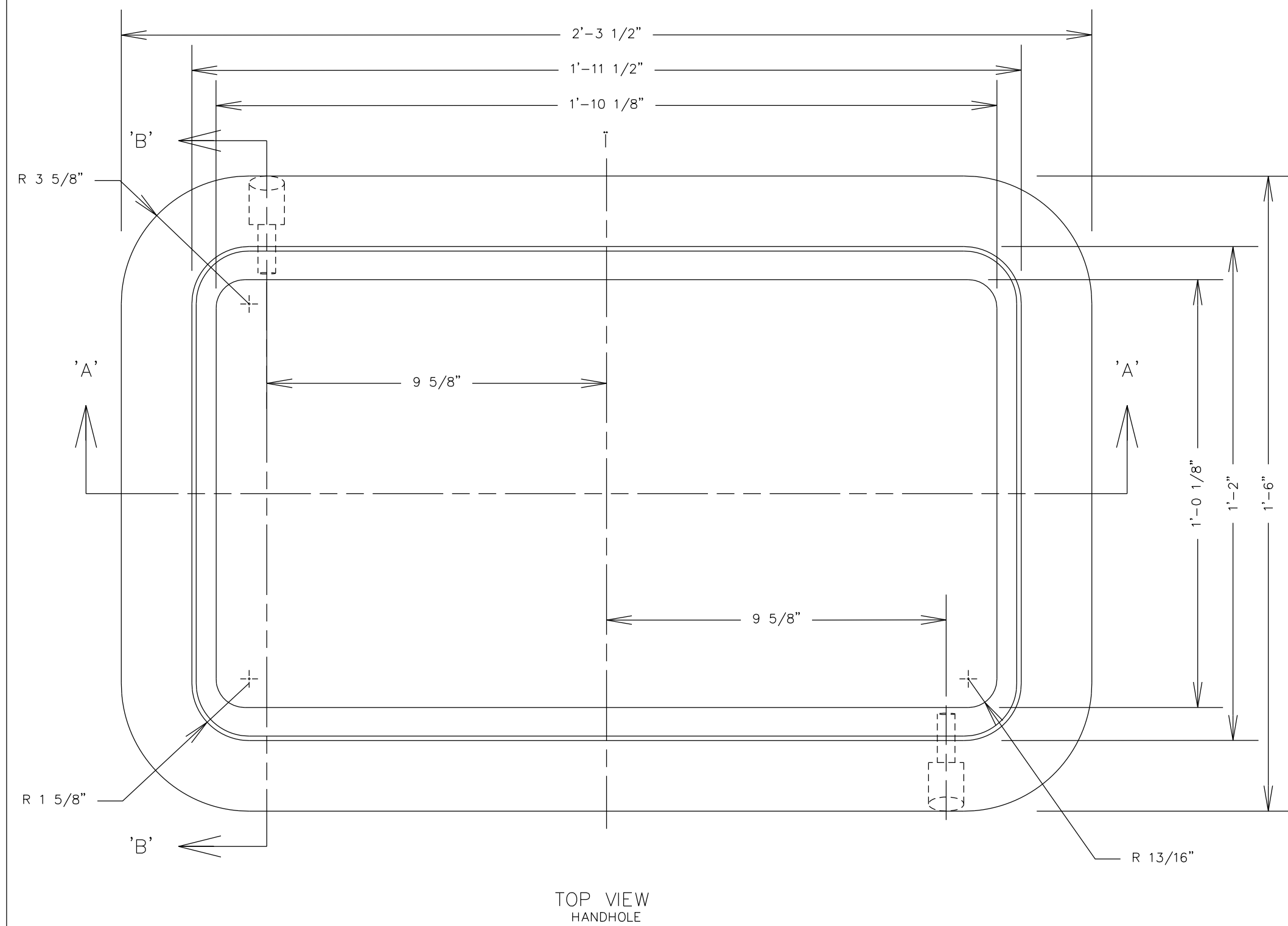
PLAN  
IN  
HAND

SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

PROPOSED  
LIGHTING PLANS  
STA. 578+00 TO E.O.P.  
SCALE: 1"=100'

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	N/A
PIH	2026	STP/NH-4(6)	L-10



- NOTES:
1. WHEN SHIPPED, THE COVER SHALL BE SECURELY BOLTED DOWN IN THE HANDHOLE WITH 'L' BOLT ASSEMBLIES.
  2. WEIGHT: COVER - 45# APPROX  
HANDHOLE - 94# APPROX  
TOTAL - 139# APPROX

PRECAST CONCRETE  
ELECTRIC STREETLIGHT PULL BOX  
14" X 24" X 12"  
WITH  
13 3/4" X 23 1/4" X 2"  
BOLT DOWN COVER

PLAN  
IN  
HAND

SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

LIGHTING  
DETAILS  
(PULL BOXES)  
SCALE: N.T.S.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	N/A
PIH	2026	STP/NH-4(6)	L-11

**SPECIFICATIONS**

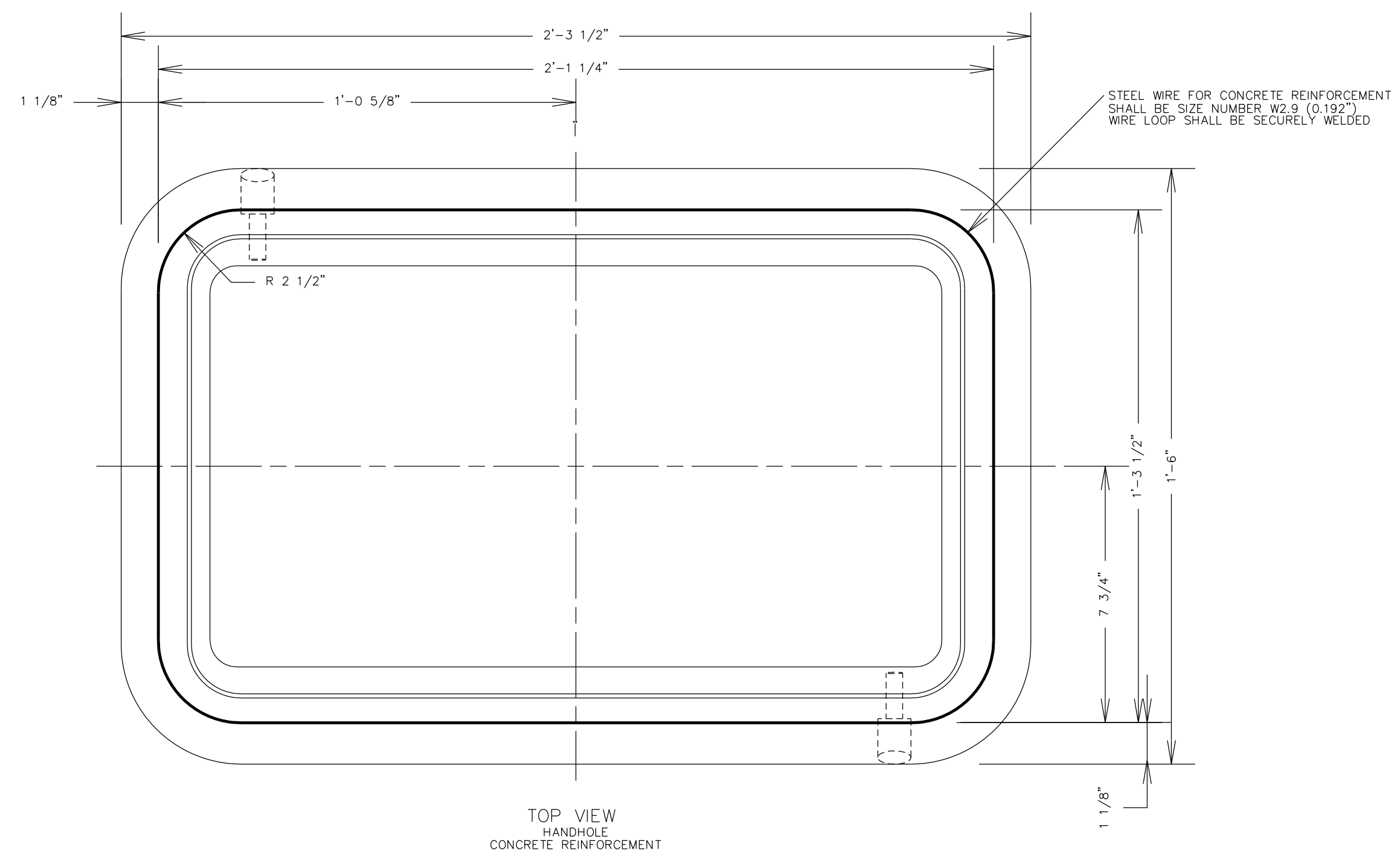
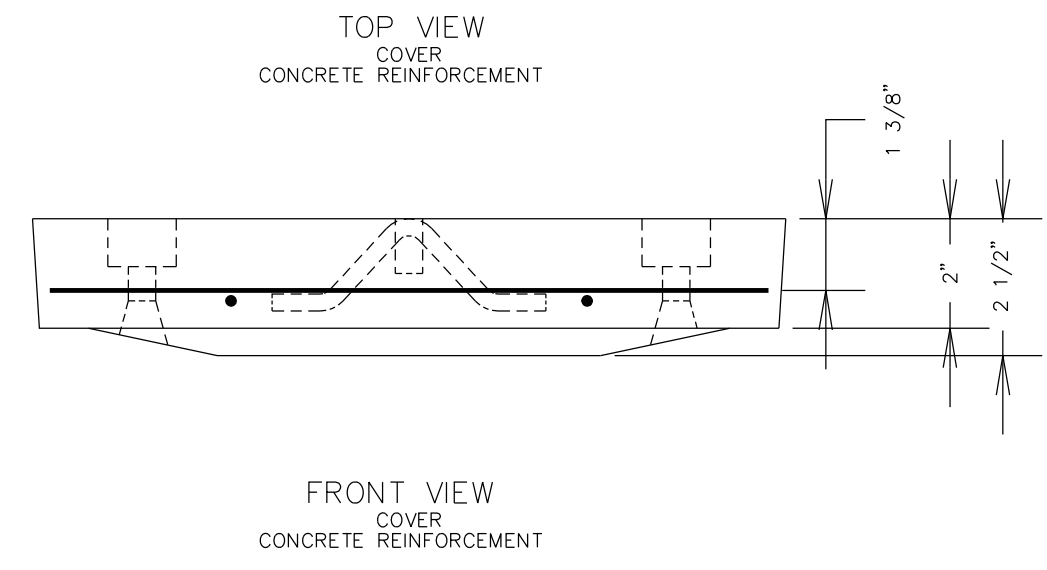
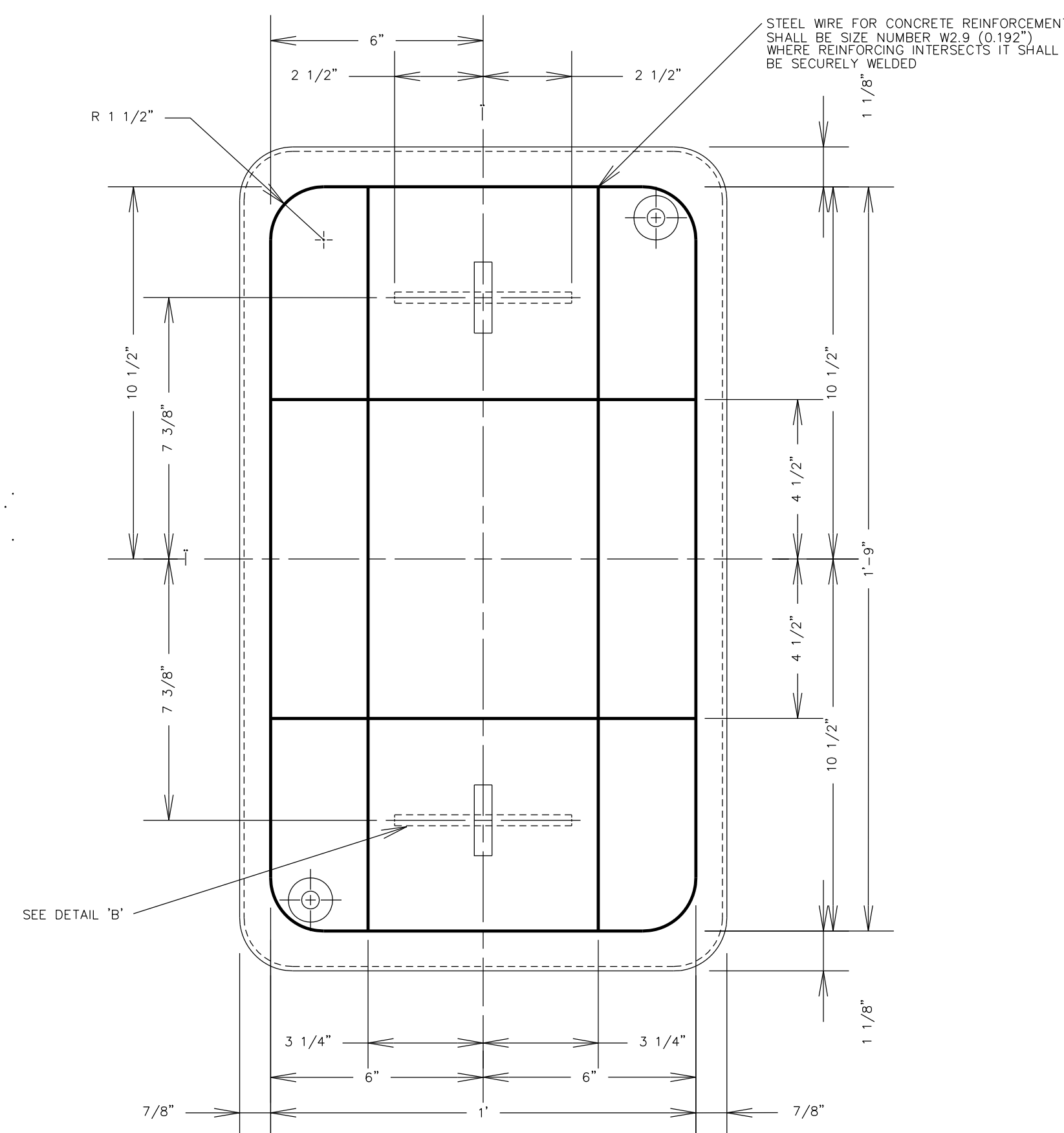
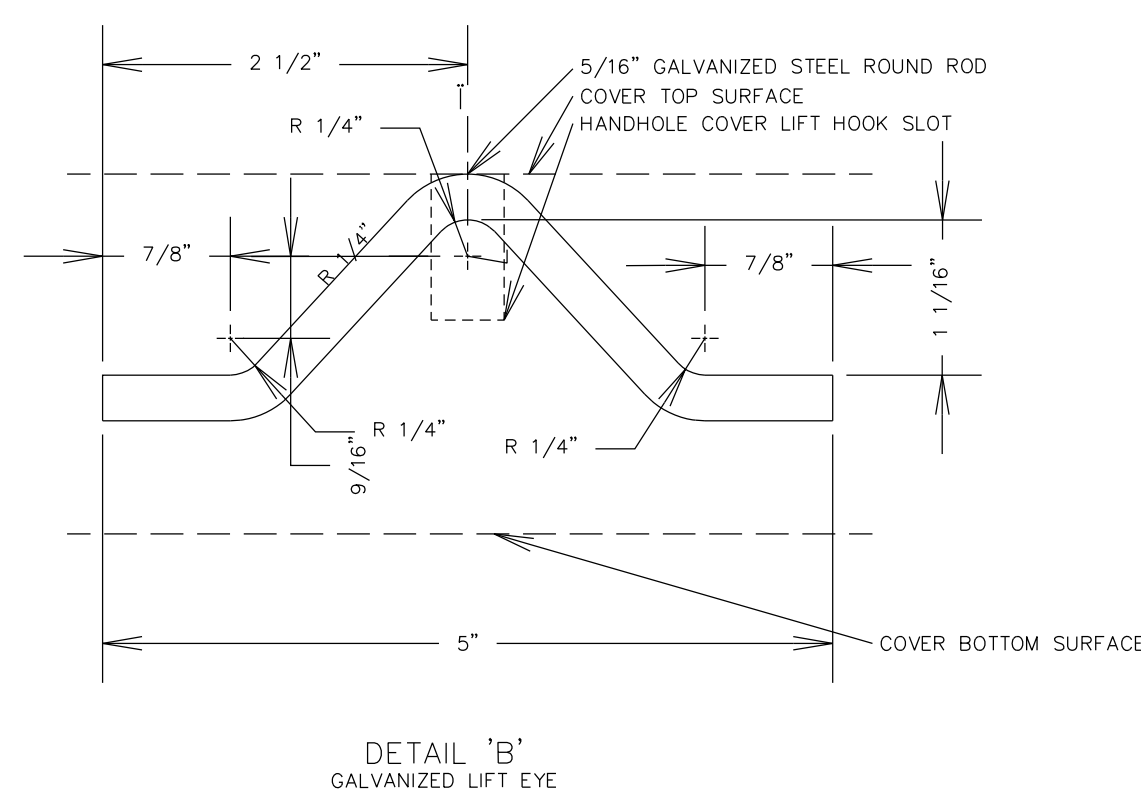
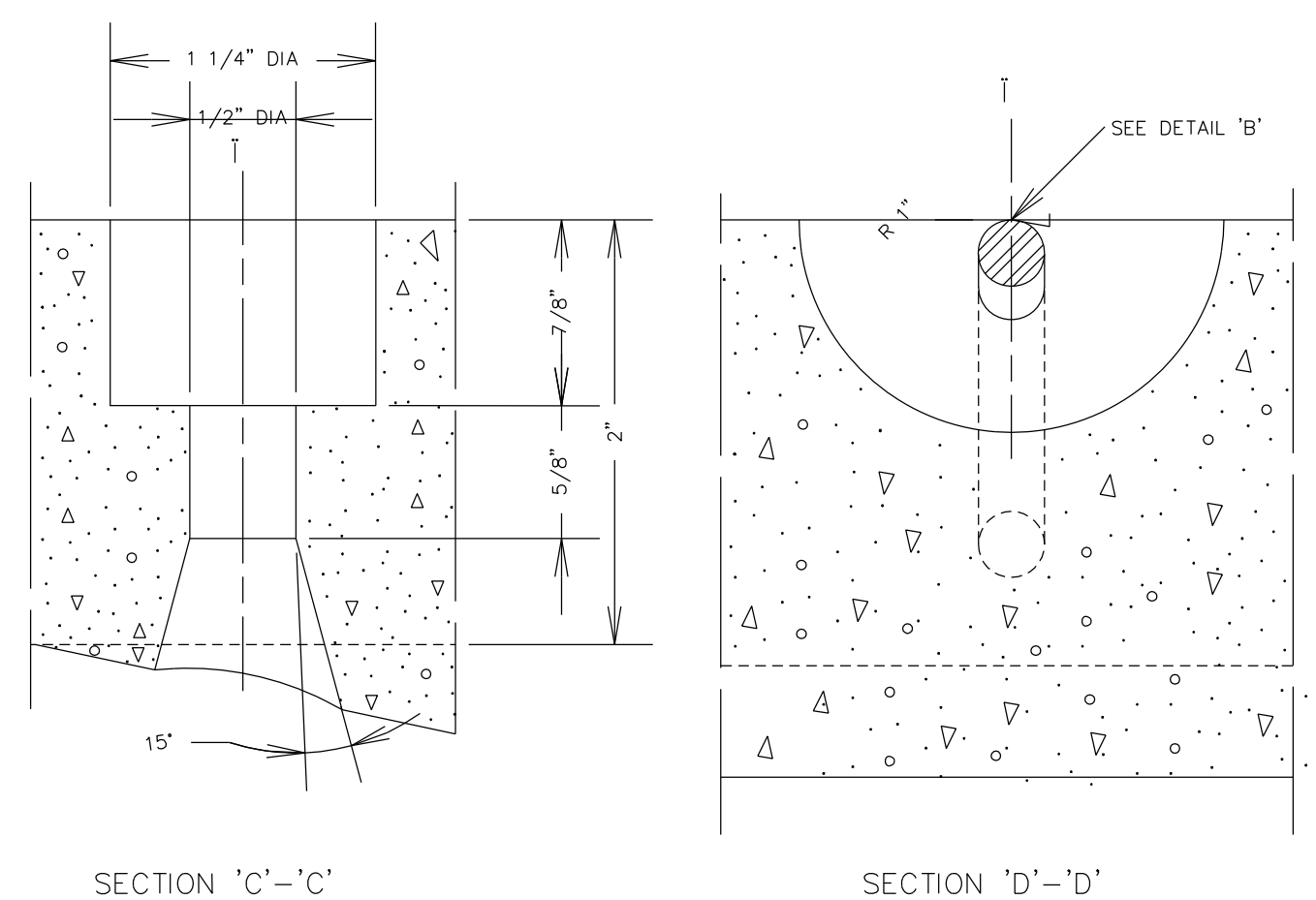
**MATERIAL:** THE CEMENT SHALL BE TYPE I OR TYPE II IN ACCORDANCE WITH ASTM DESIGNATION: C 150, "STANDARD SPECIFICATION FOR PORTLAND CEMENT" AS LAST REVISED. THE AGGREGATE SHALL BE LIGHTWEIGHT IN ACCORDANCE WITH ASTM DESIGNATION: C 330, "STANDARD SPECIFICATION FOR LIGHTWEIGHT AGGREGATES FOR STRUCTURAL CONCRETE" AS LAST REVISED. ALSO, THE MAXIMUM SIZE OF THE COARSE AGGREGATE SHALL NOT EXCEED 1/5 OF THE MINIMUM WALL DIMENSION. THE PLAIN STEEL WIRE SHALL BE IN ACCORDANCE WITH ASTM DESIGNATION: A 82, "STANDARD SPECIFICATION FOR STEEL WIRE, PLAIN, FOR CONCRETE REINFORCEMENT" AS LAST REVISED OR MEMPHIS LIGHT, GAS AND WATER DIVISION APPROVED EQUAL. THE LIFT EYE FOR THE COVER SHALL BE COMPLETELY DIPPED IN A PROTECTIVE ZINC COATING APPLIED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, "STANDARD SPECIFICATION FOR ZINC COATING (HOT DIP) ON IRON AND STEEL HARDWARE" AS LAST REVISED OR MEMPHIS LIGHT, GAS AND WATER APPROVED EQUAL.

**TOLERANCE:** TOLERANCES SHALL BE HELD TO  $\pm 1/16"$  OF THE DIMENSION SHOWN, EXCEPT WHEN INDICATED ON DRAWING, THEN THIS SHALL BE THE TOLERANCE THAT SHALL PREVAIL. DRAFT ANGLES SHALL NOT EXCEED 3 DEGREES UNLESS OTHERWISE SPECIFIED.

**MANUFACTURING:** TO ASSURE A TRUE LEVEL SURFACE AND A SMOOTH FINISH, BOTH PRODUCTS SHALL BE RAMMED IN METAL MOLDS AND BE SCREEDED OFF WITH A STRAIGHT EDGE. ALL TOP SURFACES OF THE HANDHOLES SHALL BE FLAT AND FINISHED SMOOTH. CORNERS AND EDGES SHALL BE ROUNDED. THE CONCRETE, AFTER CURING TO 90% OF ITS ULTIMATE STRENGTH, SHALL BE 4000 PSI.

**MARKING:** THE COVER SHALL HAVE LETTERING TO IDENTIFY OWNERSHIP, BURIED CABLE AND CITY IN GOTHIC FACE WITH AN OVERALL HEIGHT OF 1/2" AND SUBDIVISION OF UTILITY WITH AN OVERALL HEIGHT OF 1" IN THE LOCATIONS AS SHOWN ON THE DRAWING.

**ASSEMBLY:** AFTER FABRICATION THE HANDHOLE SHALL HAVE TWO (2) 3/8" 'L' BOLTS, TYPE "A", BRASS - BROOKS PRODUCTS INCORPORATED CATALOG #PBOLTA, SIX (6) 3/8" TYPE A (NARROW) PLAIN WASHERS, BRASS (ANSI/ASME B18.22.1) - BROOKS PRODUCTS, INCORPORATED CATALOG #PWASH2003 AND FOUR (4) 3/8" - 16 UNC HEX JAM NUTS, BRASS - BROOKS PRODUCTS, INCORPORATED CATALOG #PNUT2002 INSTALLED IN THE LOCATION SHOWN ON THE DRAWING.



**PLAN  
IN  
HAND**

**SEALED BY**

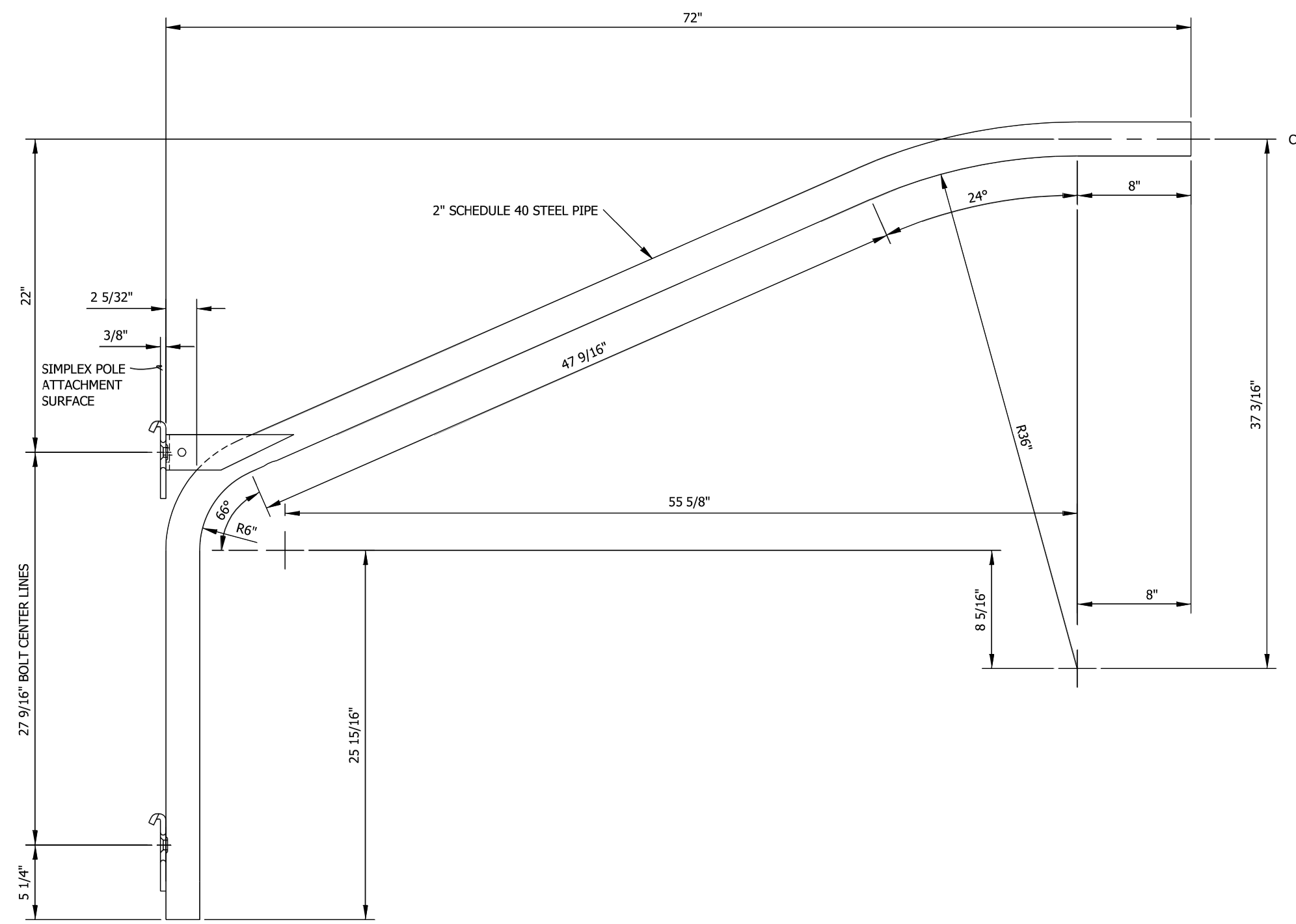
**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING  
DETAILS  
(PULL BOXES)**  
SCALE: N.T.S.

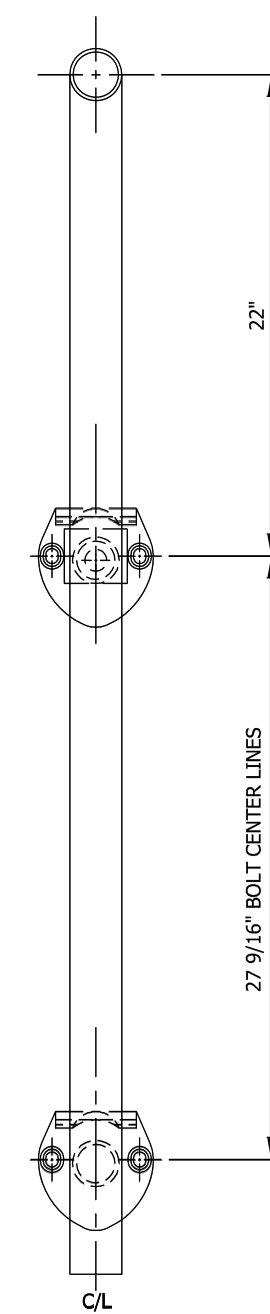
MATERIAL STANDARD  
DATE 12-05-16 STD 41-0260A PAGE 2 OF 2

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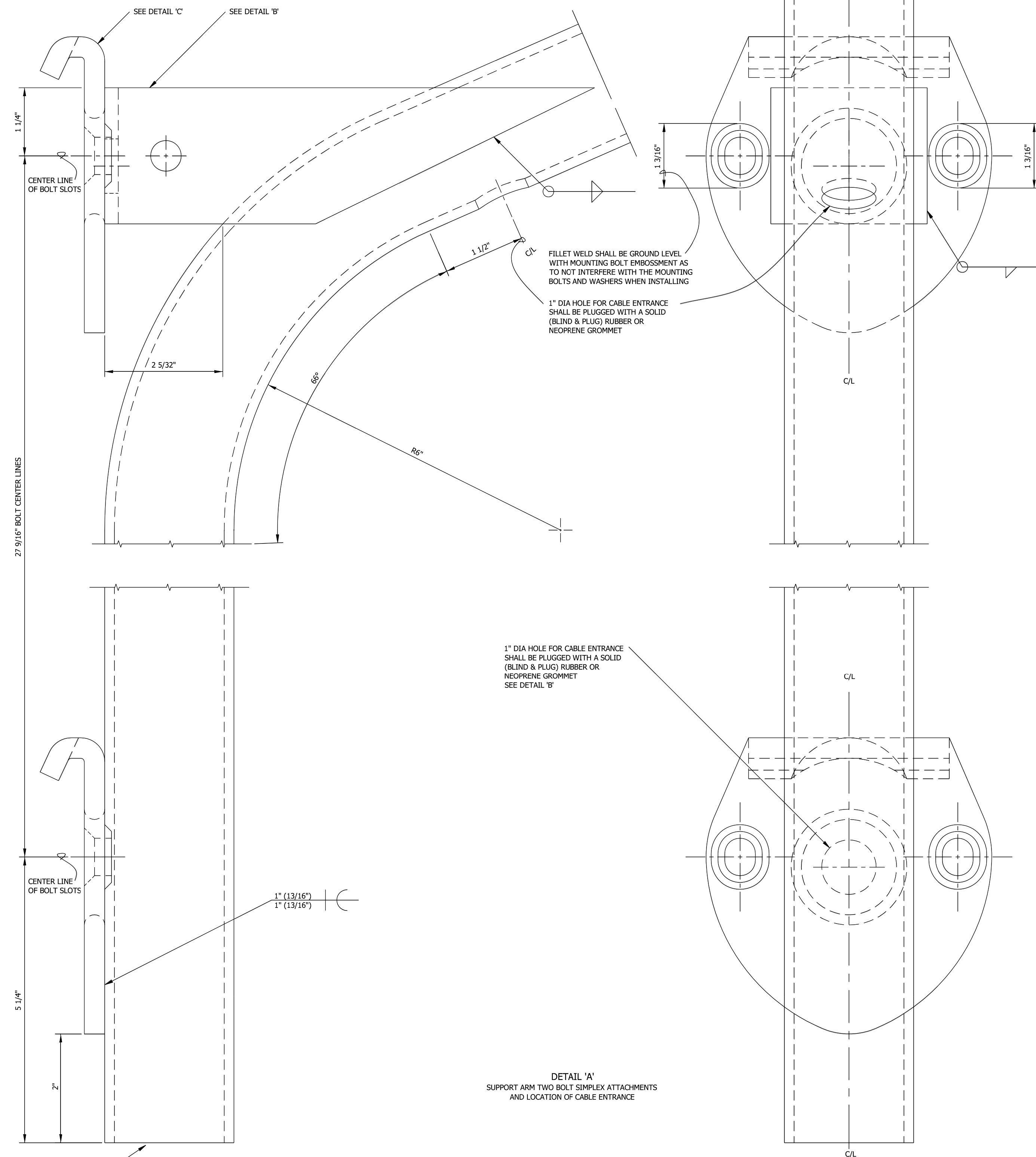
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	N/A
PIH	2026	STP/NH-4(6)	L-12



LOW RISE STREET LIGHT BRACKET



THE REQUIRED END CAP SHALL BE ATTACHED



DETAIL 'A'  
SUPPORT ARM TWO BOLT SIMPLEX ATTACHMENTS  
AND LOCATION OF CABLE ENTRANCE

PLAN  
IN  
HAND

SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

LIGHTING  
DETAILS  
(BRACKET ARM)

SCALE: N.T.S.

STREET LIGHT BRACKET  
LOW RISE  
2" X 6'-0"  
WITH SIMPLEX ATTACHMENTS  
(GALVANIZED)

DATE 12-05-16    STD 43-0658    PAGE 1 OF 2

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	N/A
PIH	2026	STP/NH-4(6)	L-13

**SPECIFICATIONS**

**MATERIAL:**  
 THE BRACKET SHALL BE MADE OF 2" NOMINAL PIPE SIZE, SCHEDULE NO. 40 STEEL PIPE, TYPE S OR E, GRADE A IN ACCORDANCE WITH ASTM DESIGNATION: A 53, "STANDARD SPECIFICATION FOR PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC COATED WELDED AND SEAMLESS" AS LAST REVISED. THE 1/4" X 2 1/2" SIMPLEX SUPPORT STRAP AND 3/8" X 5 1/4" SIMPLEX ATTACHMENTS SHALL BE MADE OF HOT WROUGHT SPECIAL QUALITY CARBON STEEL BAR AND SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM DESIGNATION: A 576 "STANDARD SPECIFICATION FOR STEEL BARS, CARBON, HOT-WROUGHT, SPECIAL QUALITY" AS LAST REVISED. TWO (2) SOLID (BLIND & PLUG) RUBBER OR NEOPRENE GROMMET HAVING A FULL MEMBRANE FOR A 1" DIA HOLE WITH A 1 1/2" OUTSIDE DIA.

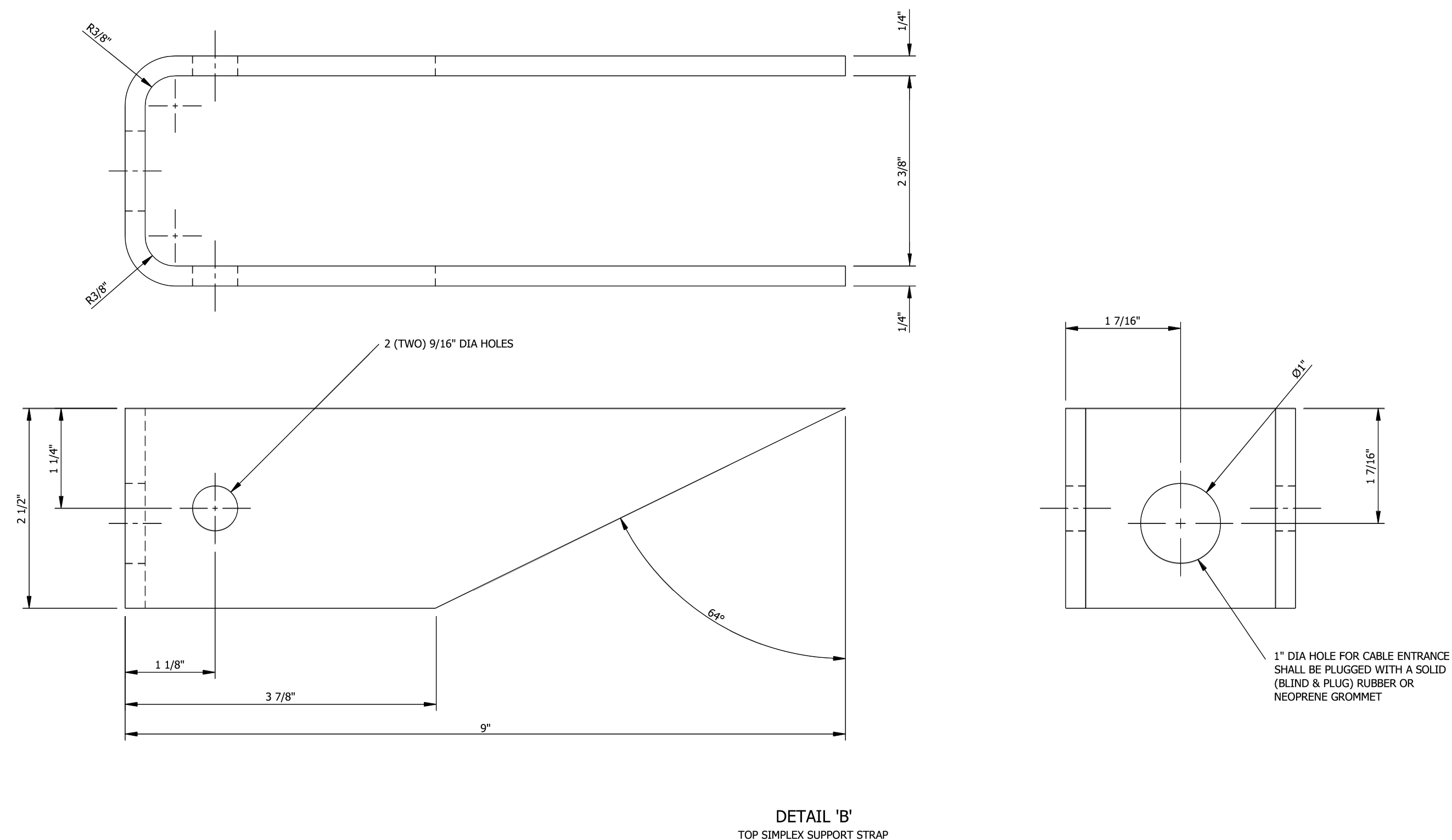
**TOLERANCE:**  
 ALL TOLERANCES SHALL BE ±1/16" UNLESS OTHERWISE SPECIFIED.

**FABRICATION:**  
 ALL WELDS SHALL MEET OR EXCEED ANSI/AWS D1.1 "STRUCTURAL WELDING-CODE STEEL", SECTION 9.25 AS TO THE QUALITY OF WELDS. THE WELD STRENGTH SHALL BE EQUAL TO GREATER THAN THE MATERIAL BEING WELDED.

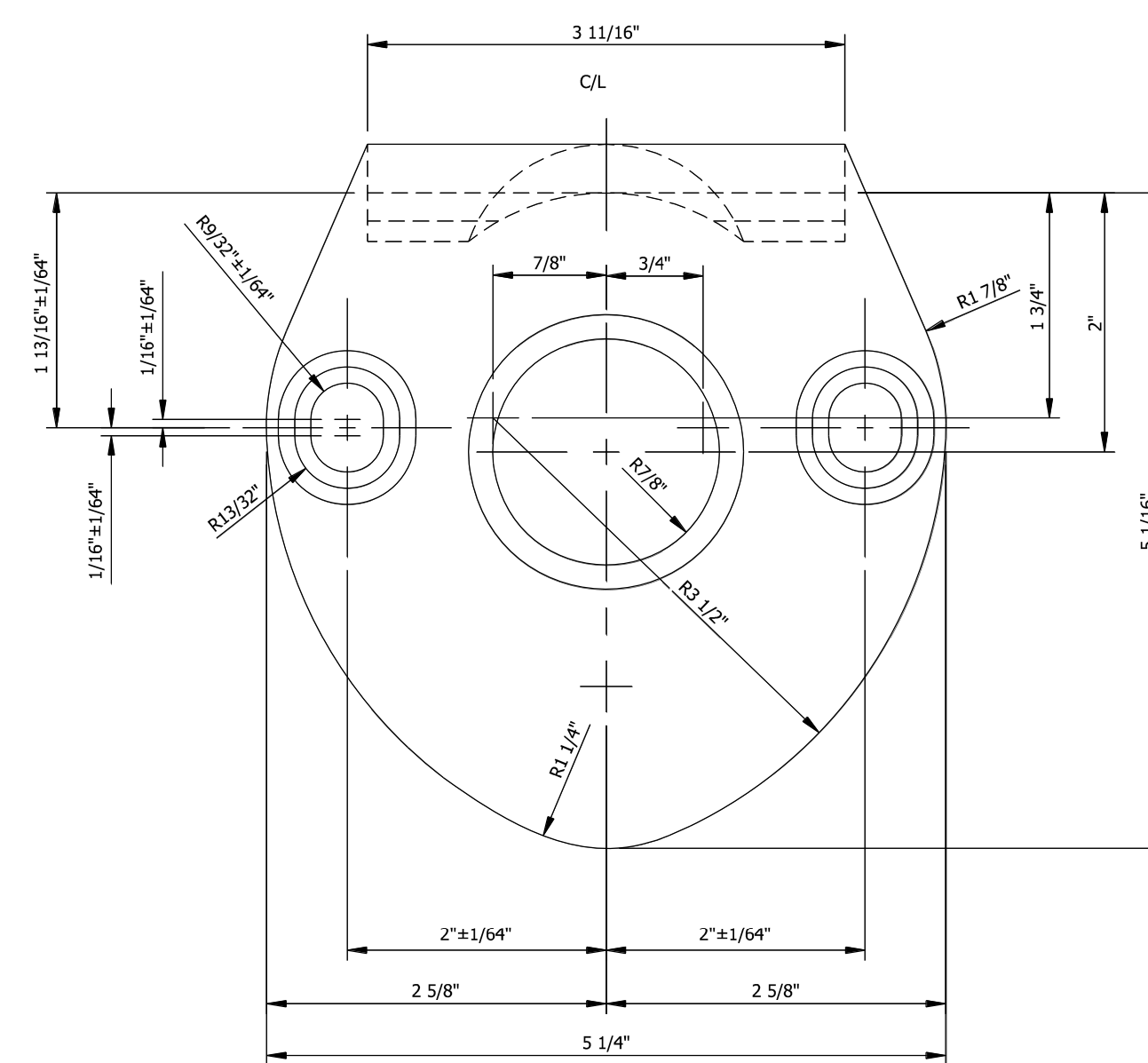
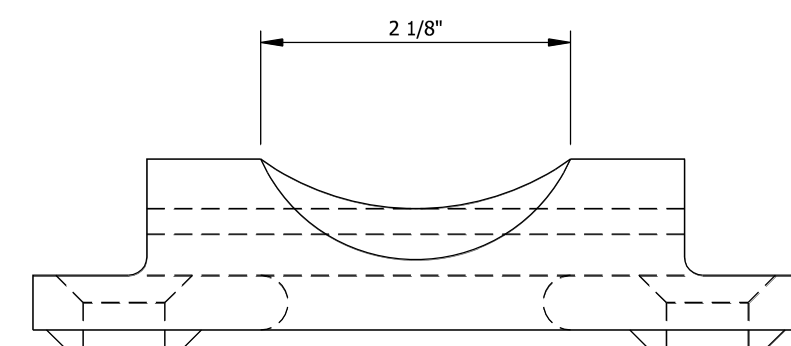
**FINISH:**  
 AFTER FABRICATION, THE BRACKET SHALL BE COMPLETELY DIPPED IN A PROTECTIVE ZINC COATING APPLIED IN ACCORDANCE WITH ASTM DESIGNATION: A 123, "STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS" AS LAST REVISED.

**HARDWARE:**  
 THE BRACKET HARDWARE SHALL CONSIST OF FOUR (4) 1/2" - 13 X 1 1/2" UNC FINISHED HEX BOLTS, GALVANIZED STEEL (ANSI/ASME B18.2.1), FOUR (4) 1/2" SAE DESIGNATE NARROW "N" TYPE A PLAIN WASHERS, GALVANIZED STEEL (ANSI/ASME B18.2.1.1) AND FOUR (4) 1/2" REGULAR HELICAL SPRING LOCK WASHERS, GALVANIZED STEEL (ANSI/ASME B 18.21.1). THE BRACKET HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A153 "STANDARD SPECIFICATIONS FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE" AS LAST REVISED.

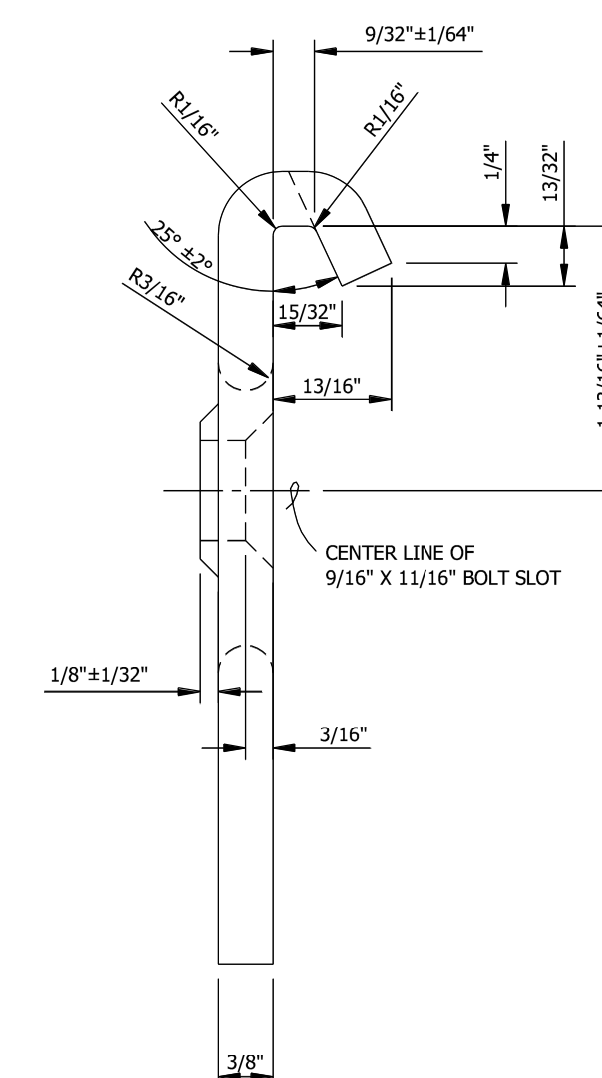
**CERTIFICATION:**  
 A CERTIFIED HEAT LOT TEST REPORT SHALL BE FURNISHED COVERING THE MATERIAL USED IN EACH POLE. ALL WELDS SHALL BE TESTED FOR PENETRATION AND A CERTIFIED WELD TEST REPORT SHALL BE FURNISHED.



DETAIL 'B'  
 TOP SIMPLEX SUPPORT STRAP



DETAIL 'C'  
 TWO BOLT ARM SIMPLEX ATTACHMENT



PLAN  
 IN  
 HAND

SEALED BY

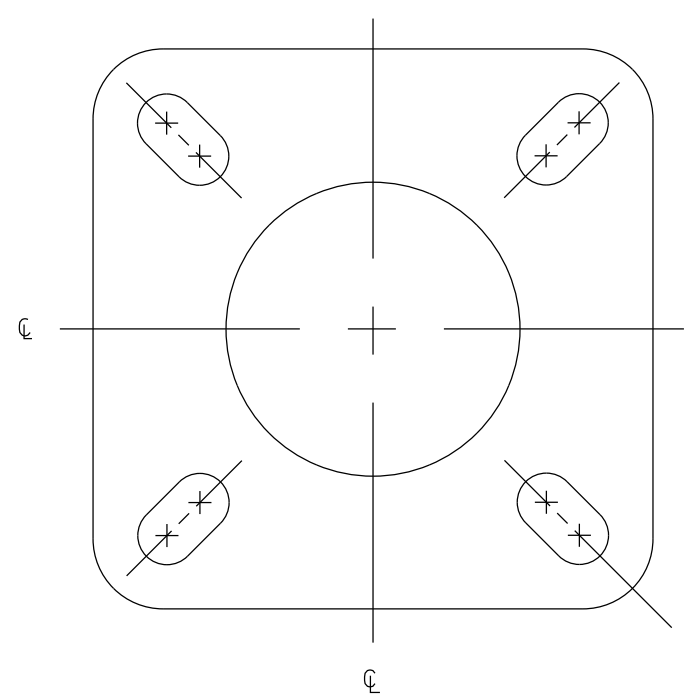
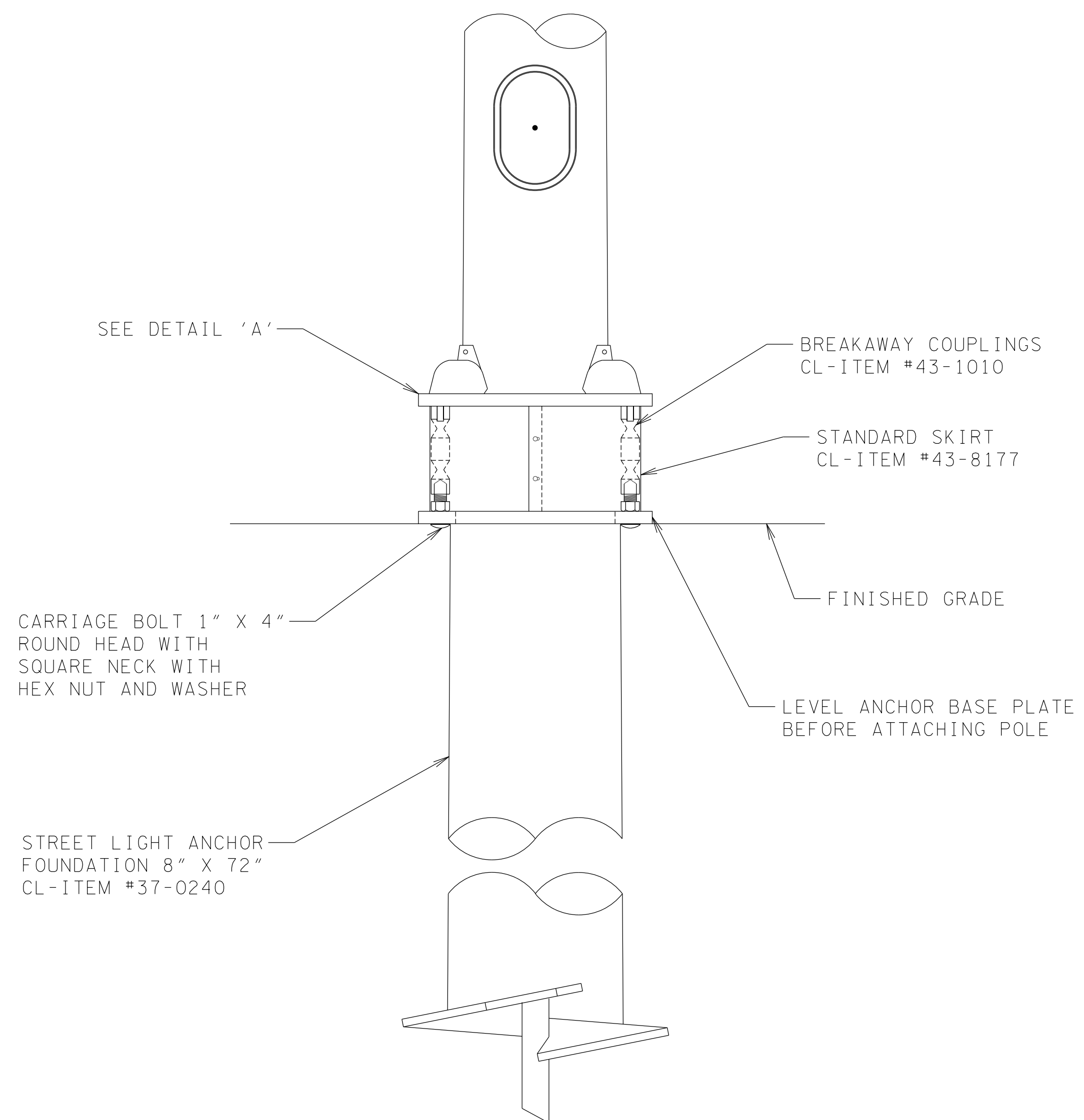
STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION

LIGHTING  
 DETAILS  
 (BRACKET ARM)

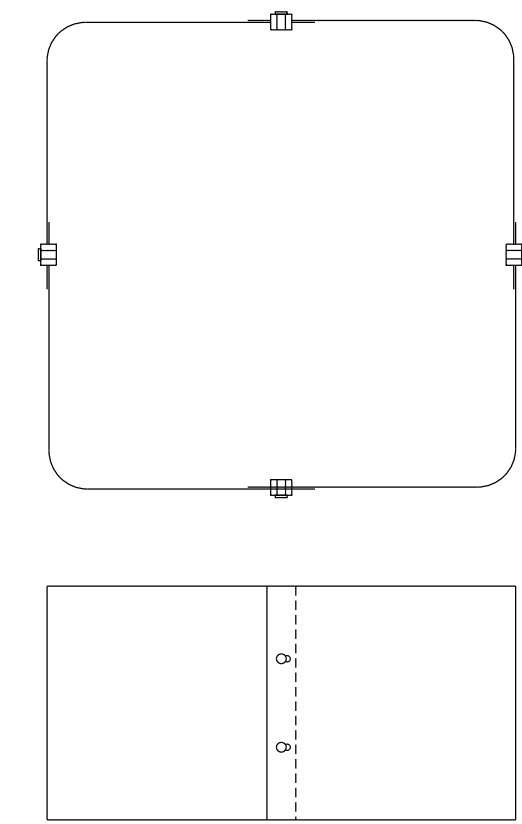
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MATERIAL STANDARD		
DATE 12-05-16	STD 43-0658	PAGE 2 OF 2

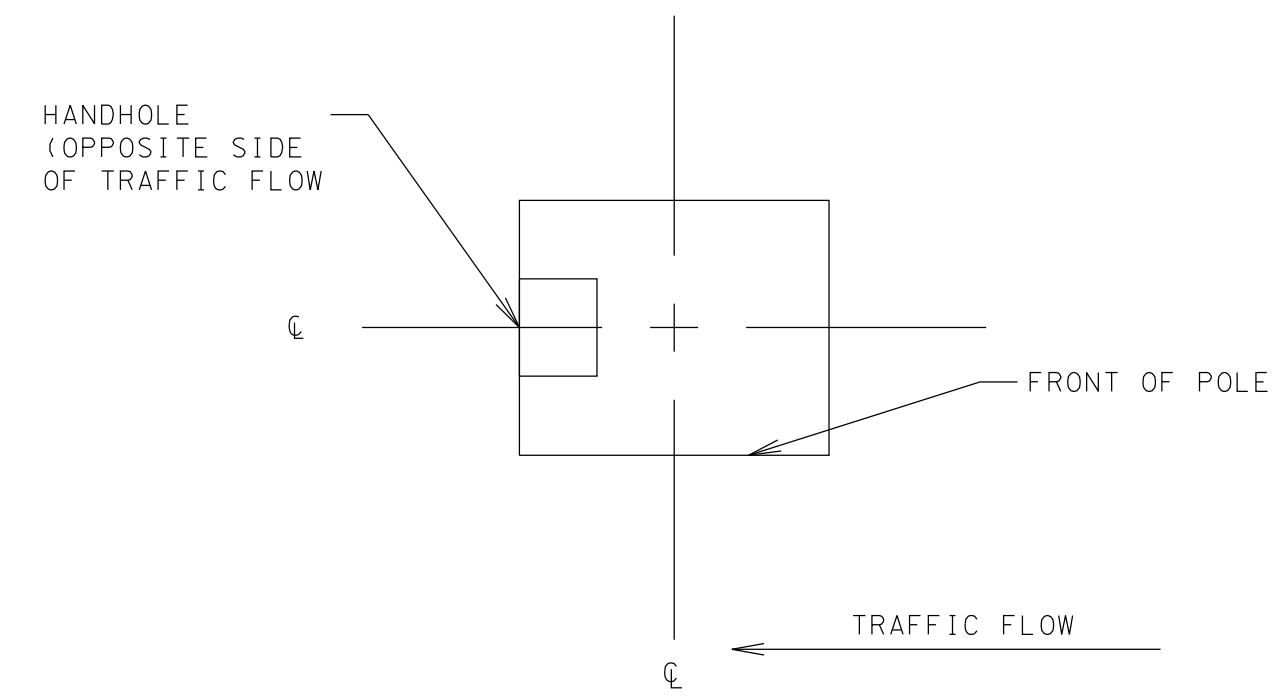
TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	N/A
PIH	2026	STP/NH-4(6)	L-14



DETAIL 'A'  
BASE PLATE OF POLE  
N.T.S.



DETAIL 'B'  
FRONT VIEW STANDARD SKIRT



DETAIL 'D'

GALVANIZED STEEL  
POLE INSTALLATION  
WITH BREAKAWAY  
COUPLINGS

(A) THE INFORMATION PROVIDED IN THIS STANDARD IS TO SHOW THE RELATIONSHIP OF THE VARIOUS COMPONENTS OF A GALVANIZED STEEL POLE INSTALLATION WITH BREAKAWAY COUPLINGS AND IS A COMPILATION OF MLGW MATERIAL CLASS & ITEM NUMBERS 43-1010, 43-8177 & 37-0240.

PLAN  
IN  
HAND

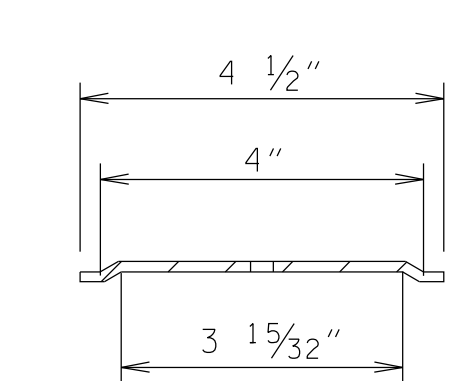
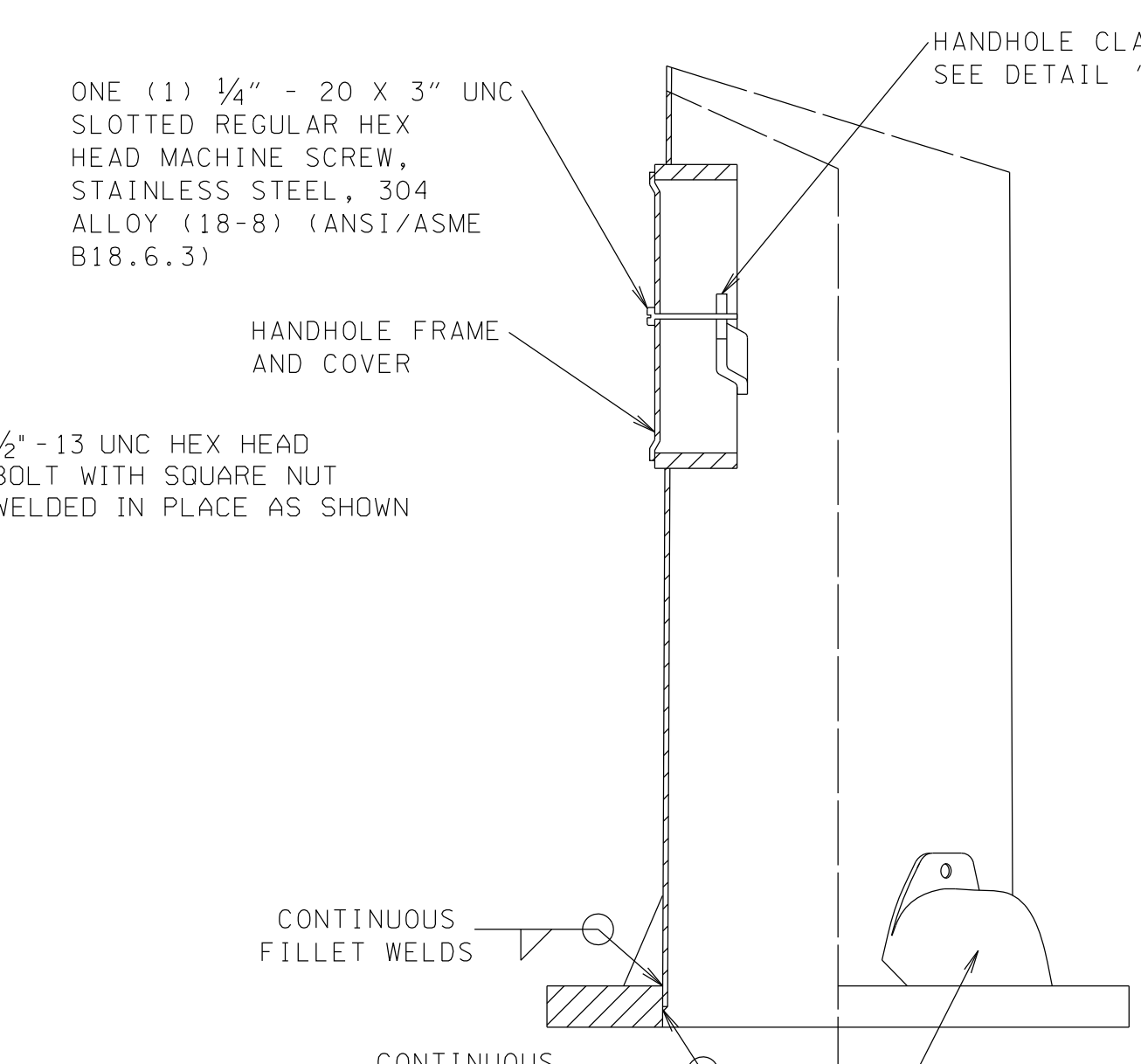
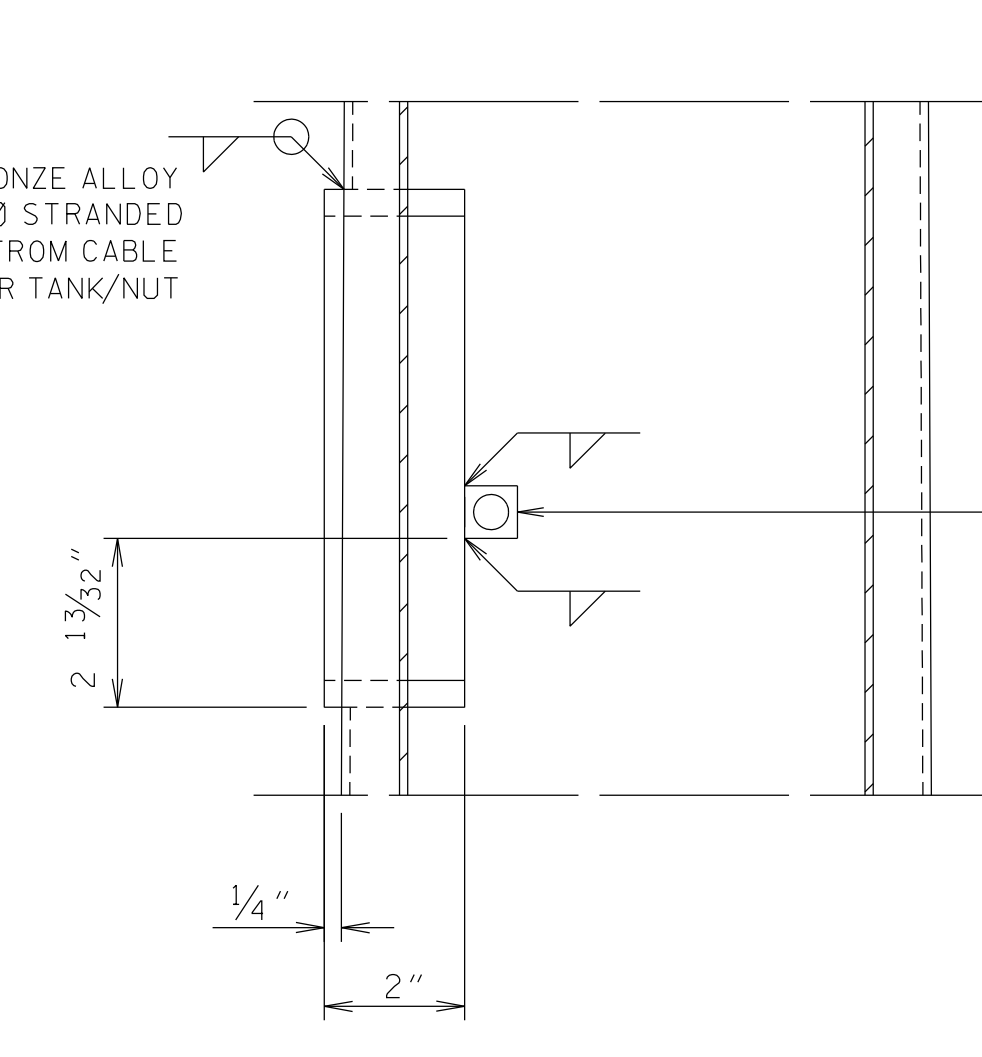
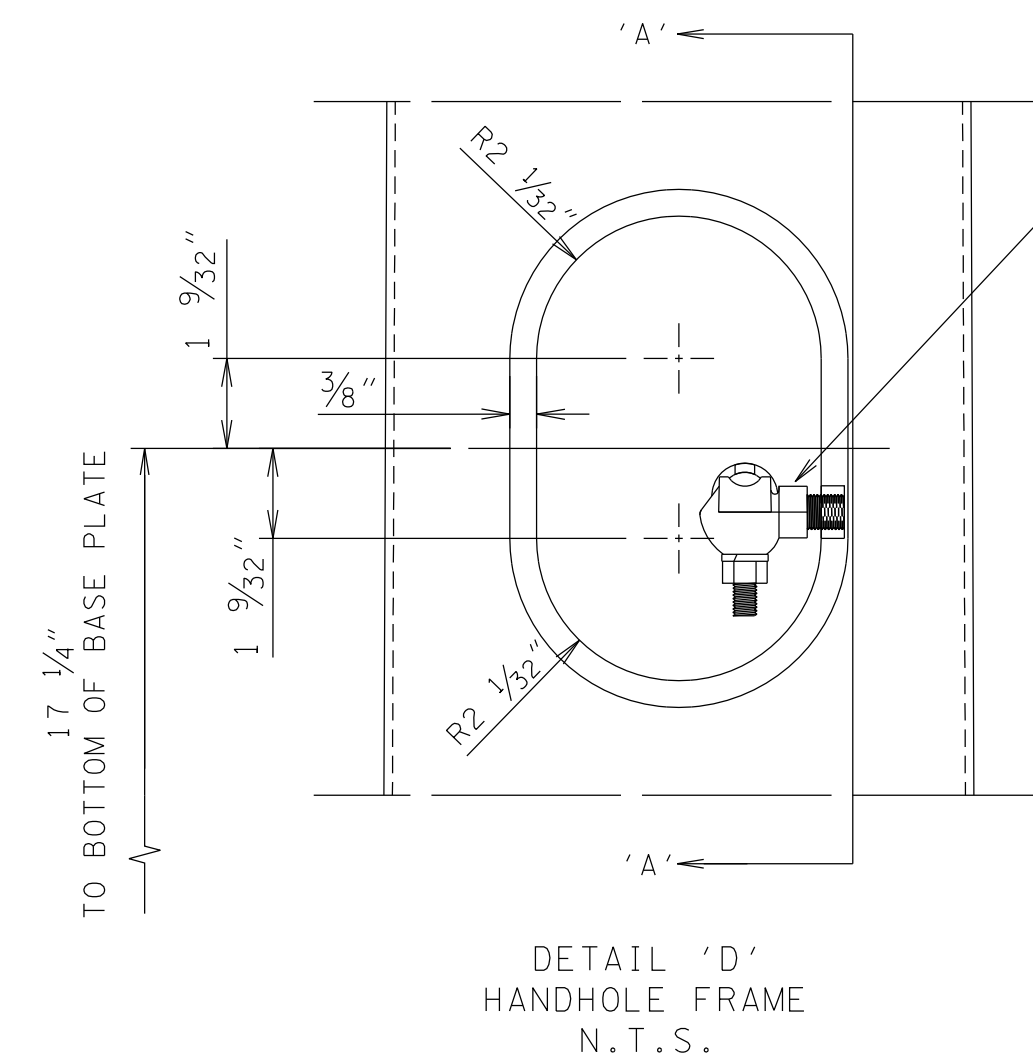
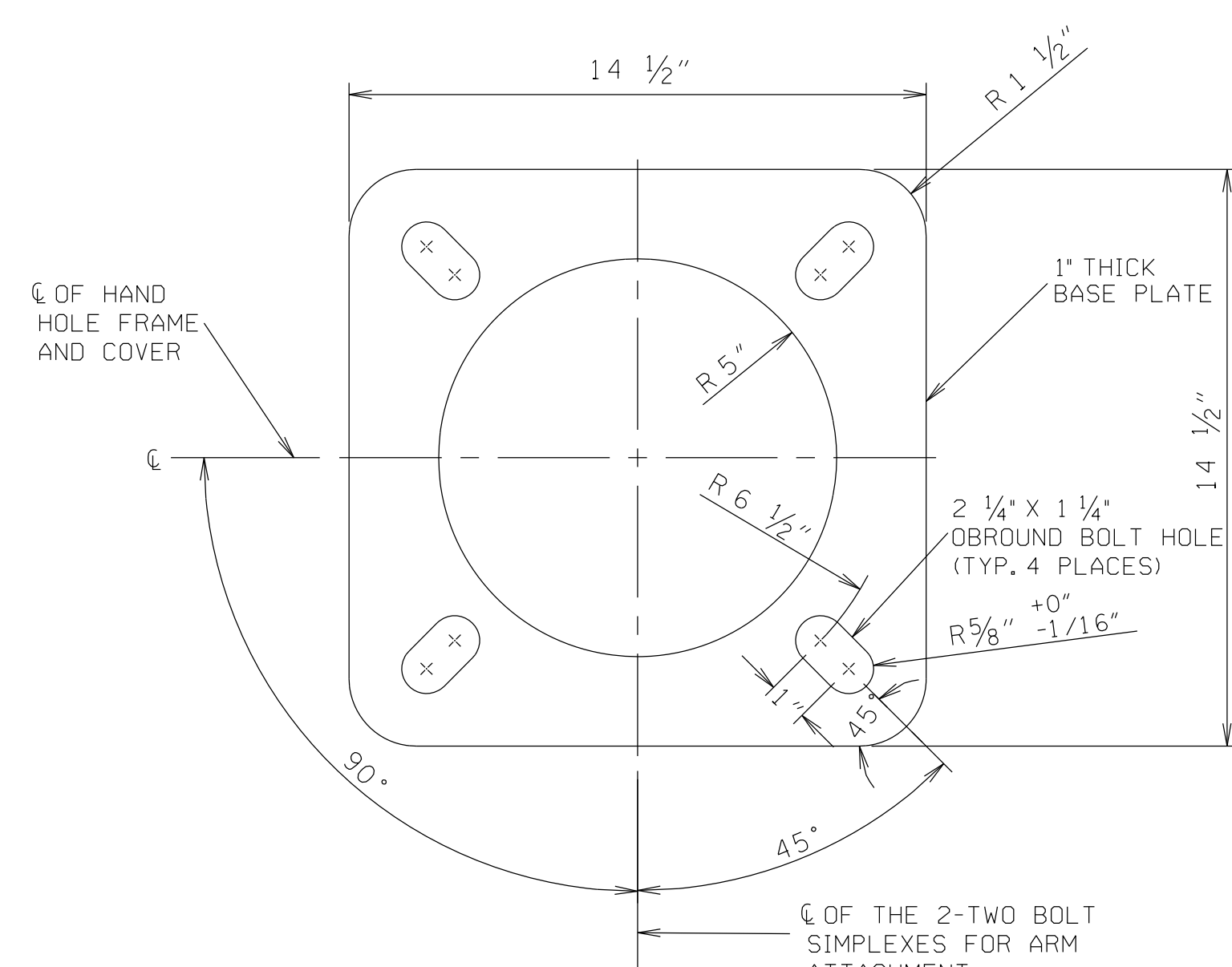
SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

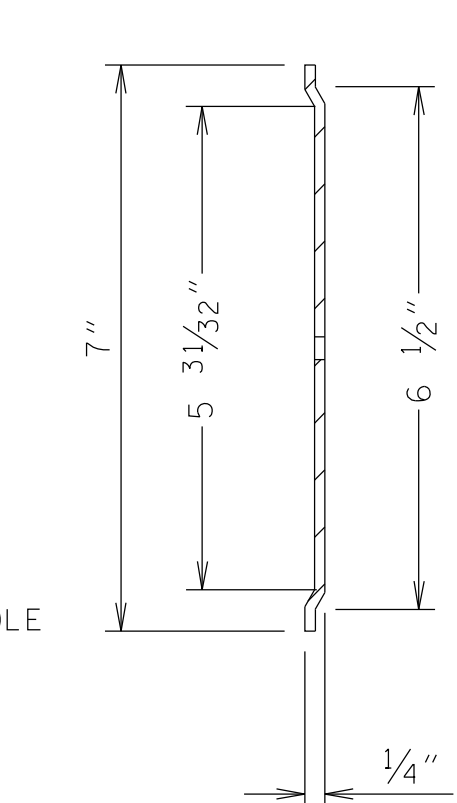
LIGHTING DETAILS  
(STREET LIGHT  
ANCHOR FOUNDATION)

SCALE: N.T.S.

TYPE	YEAR	PROJECT NO.	SHEET NO.
ROW	2020	STP/NH-4(6)	N/A
PIH	2026	STP/NH-4(6)	L-15



SECTION 'C' - 'C'  
N.T.S.



SECTION 'B' - 'B'  
N.T.S.

**PLAN  
IN  
HAND**

SEALED BY

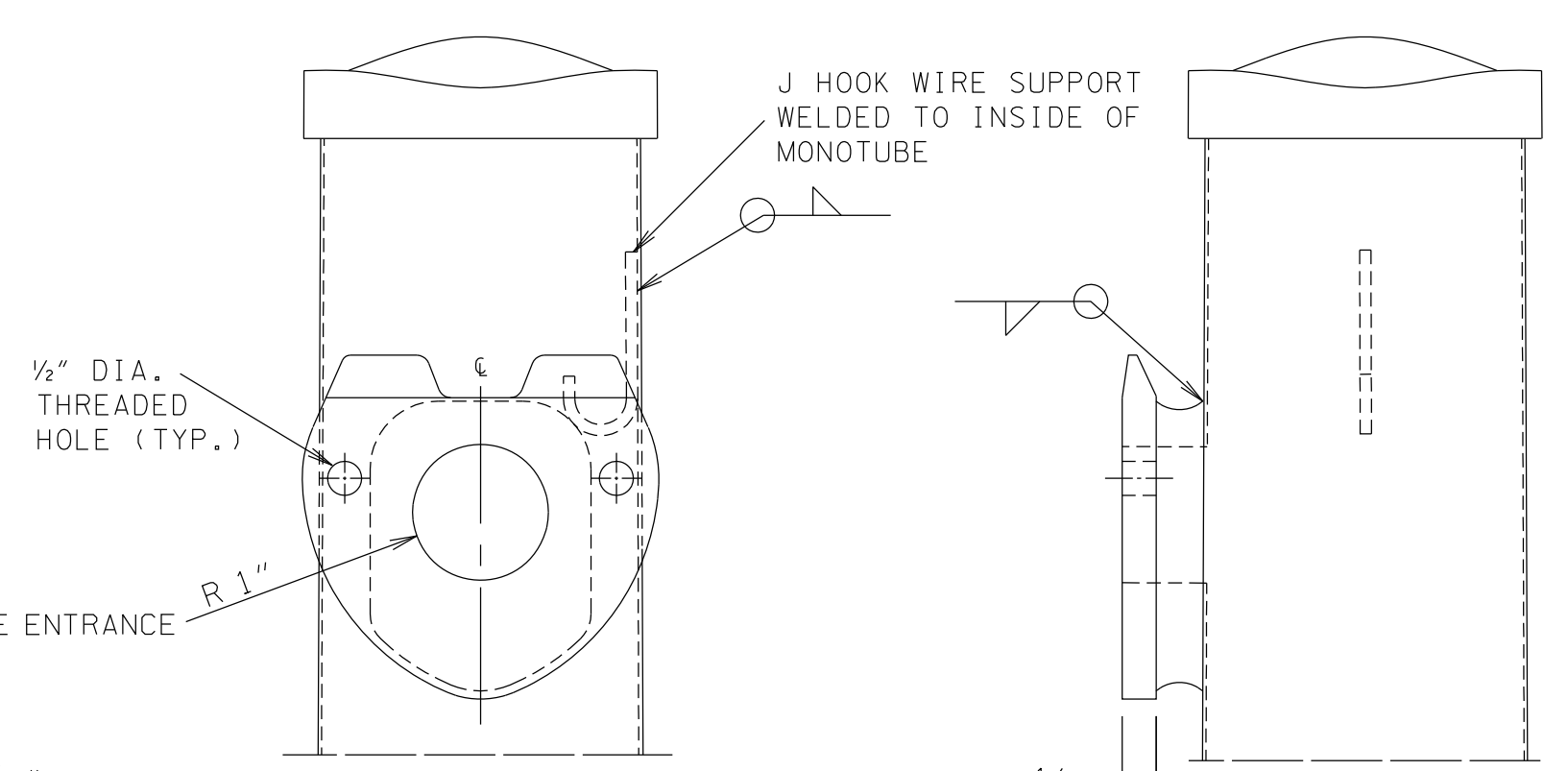
FORTY-FIVE FOOT  
GALVANIZED STEEL  
EXPRESSWAY LIGHTING  
POLE WITH SINGLE  
ARM ATTACHEMENTS

MATERIAL SPECIFICATIONS	
MONOTUBE	ASTM - A 595 GRADE A
PLATE AND BAR	ASTM - A 36
POLE TOP & NUT COVERS	ASTM - B 26 (356 OR 43 ALLOY)
ANCHOR BOLTS	ASTM - A 675 GRADE 90
STRUCTURE FINISH	GALVANIZE TO ASTM - A 123
HARDWARE FINISH	GALVANIZE TO ASTM - A 153

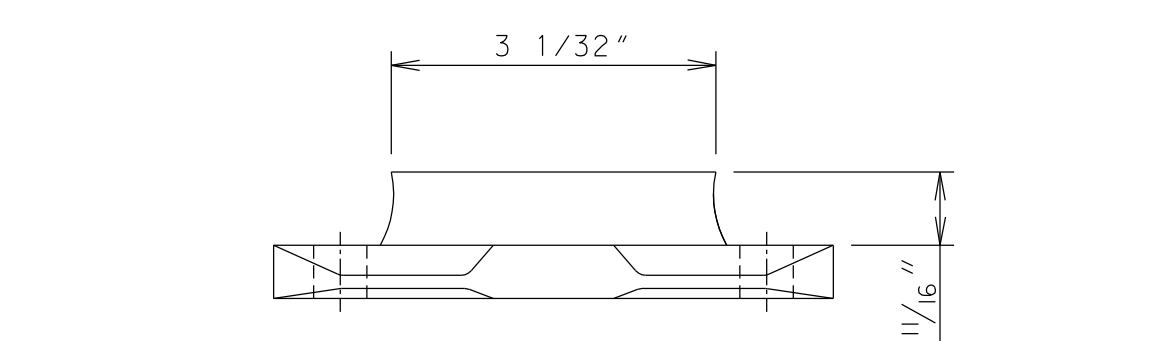
**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING  
DETAILS  
(LIGHT POLE)**  
SCALE: N.T.S.

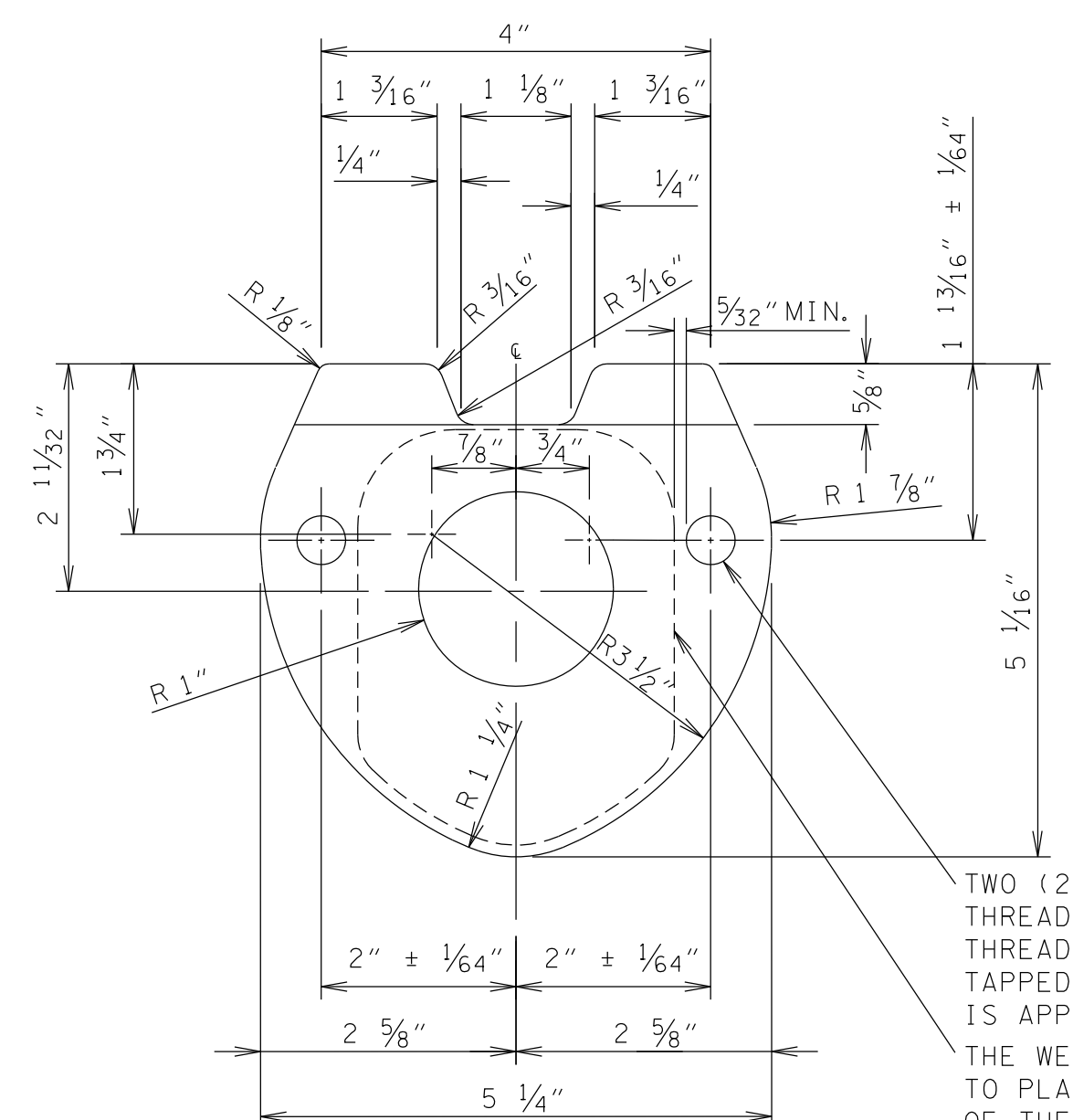
DETAIL 'A'  
BASE PLATE/LOCATIONS FOR HANDHOLE AND  
2-TWO BOLT SIMPLEXES FOR ARM ATTACHMENT  
N.T.S.



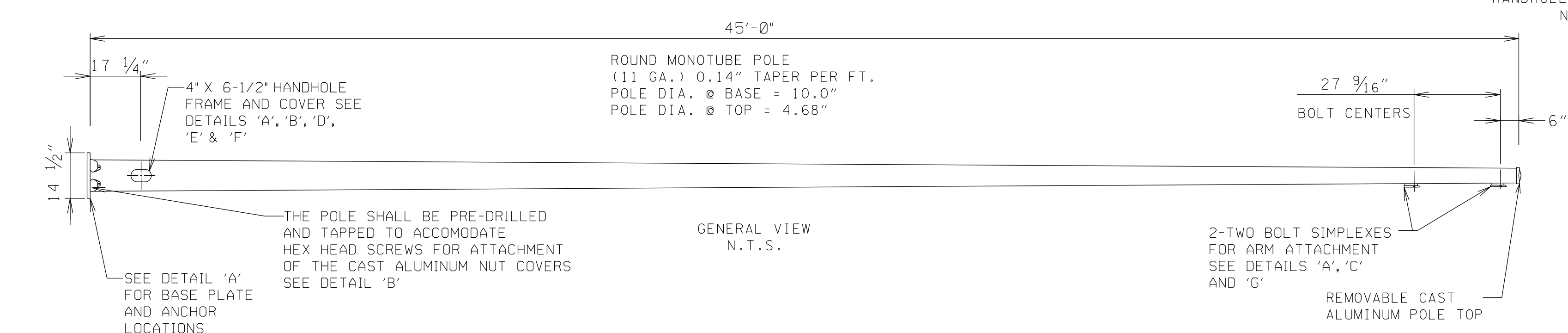
DETAIL 'C'  
TWO BOLT SIMPLEX FOR ARM  
ATTACHMENT AND J-HOOK  
N.T.S.



DETAIL 'G'  
TWO BOLT SIMPLEX FOR ARM ATTACHMENT  
N.T.S.



DETAIL 'E'  
HANDHOLE COVER CLAMP  
N.T.S.



GENERAL VIEW  
N.T.S.

2-TWO BOLT SIMPLEXES  
FOR ARM ATTACHMENT  
SEE DETAILS 'A', 'C'  
AND 'G'

REMOVABLE CAST  
ALUMINUM POLE TOP

(A) THE INFORMATION PROVIDED IN THIS STANDARD DRAWING IS EQUIVALENT TO MLGW STANDARD DRAWING 43-8638.