MANATEE COUNTY PUBLIC WORKS DEPARTMENT

CONTRACT PLANS

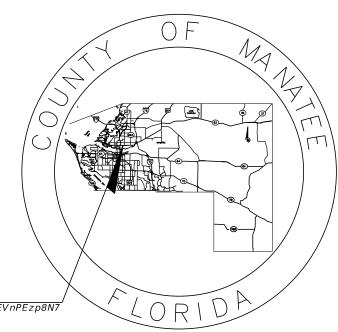
INDEX OF LIGHTING PLANS

SHEET NO. SHEET DESCRIPTION KEY SHEET L-1 L-2 SIGNATURE SHEET TABULATION OF QUANTITIES L-3 LEGEND AND LIGHTING DESIGN CRITERIA L-4 L-5 POLE DATA L-6 GENERAL NOTES L-7 - L-12 LIGHTING PLAN LOAD CENTER CROSS SECTION L-13 ELECTRICAL DISTRIBUTION PANELBOARD SCHEDULE L-14 L-15 LIGHTING CONTROL PANEL ENCLOSURE

MANATEE COUNTY
PROJECT NUMBER 6094361
CANAL ROAD (16TH AVENUE EAST)
SEGMENT 1 - US 301 TO 24TH STREET EAST

LIGHTING PLANS

LOCATION OF PROJECT
https://goo.gl/maps/UoqZ3RrEVnPEzp8N7



T-33-S T-34-S T-34-S END LIGHTING STA. 235+80.00 \bigcirc AIRFIELD MEMPH RAILROAD CROSSING END EXCEPTION DOT# 624610H STA. 213+67.97 RRMP# SW 869.73 BEGIN EXCEPTION STA. 213+35.73 STA. 213+03.47

CSX SUBMITTAL 1/2023

LIGHTING PLANS ENGINEER OF RECORD:

BIJAN BEHZADI, P.E.
P.E. NO.: 43868
HDR ENGINEERING, INC.
2601 CATTLEMEN ROAD, SUITE 400
SARASOTA, FLORIDA 34232
VENDOR NO. 47-0680568
CONTRACT NO.: 15-0909JE

MANATEE CO. PROJECT MANAGER: MICHAEL L. STURM, P.E.

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

FISCAL	SHEET
YEAR	NO.
22	L-1

BEGIN LIGHTING

STA. 199+60.00

98 WATT LED LUMINAIRES WIRED FOR 480V OPERATION, ATTACHED ON SHOULDER MOUNTED DOUBLE ARM CONVENTIONAL LIGHT POLE. ANALYZED USING GENERAL ELECTRIC LIGHTING LUMINAIRE, PHOTOMETRIC CURVE NUMBER ERLH_11C340XXXXX AT 11500 LUMENS EACH. POLE MOUNTING HEIGHT IS 35 FT AND ARM LENGTHS ARE 8 FT. SYMBOL INCLUDES LUMINAIRES, DUAL ARMS, POLE WITH STANDARD FOUNDATION, MODIFIED CONCRETE SLAB (6' x 6.5'), BREAKAWAY TRANSFORMER BASE, PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM. THE LUMINAIRE IS A CUTOFF FIXTURE DESIGNED FOR MEDIUM THROW TYPE III DISTRIBUTION WITH ZERO TILT.



149 WATT LED LUMINAIRE WIRED FOR 480V OPERATION, ATTACHED ON SHOULDER MOUNTED CONVENTIONAL LIGHT POLE. ANALYZED USING GENERAL ELECTRIC LIGHTING LUMINAIRE, PHOTOMETRIC CURVE NUMBER ERLH_16C340XXXXX AT 16000 LUMENS. POLE MOUNTING HEIGHT IS 35 FT AND ARM LENGTH IS 8 FT. SYMBOL INCLUDES LUMINAIRE, ARM, POLE WITH STANDARD FOUNDATION, CONCRETE SLAB, BREAKAWAY TRANSFORMER BASE, PULL BOX, AND POLE CABLE DISTRIBUTION SYSTEM. THE LUMINAIRE IS A CUTOFF FIXTURE DESIGNED FOR MEDIUM THROW TYPE III DISTRIBUTION WITH ZERO TILT.



149 WATT LED LUMINAIRE WIRED FOR 480V OPERATION, ATTACHED ON SHOULDER MOUNTED CONVENTIONAL LIGHT POLE. ANALYZED USING GENERAL ELECTRIC LIGHTING LUMINAIRE, PHOTOMETRIC CURVE NUMBER ERLH_16C340XXXXX AT 16000 LUMENS. POLE MOUNTING HEIGHT IS 35 FT AND ARM LENGTH IS 12 FT. SYMBOL INCLUDES LUMINAIRE, ARM, POLE WITH STANDARD FOUNDATION, CONCRETE SLAB, BREAKAWAY TRANSFORMER BASE, PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM. THE LUMINAIRE IS A CUTOFF FIXTURE DESIGNED FOR MEDIUM THROW TYPE III DISTRIBUTION WITH ZERO TILT.



149 WATT LED LUMINAIRE WIRED FOR 480V OPERATION, ATTACHED ON SHOULDER MOUNTED UTILITY CONFLICT LIGHT POLE. ANALYZED USING GENERAL ELECTRIC LIGHTING LUMINAIRE, PHOTOMETRIC CURVE NUMBER ERLH_16C340XXXXX -ELSHS-ERLI-BLCK AT 15600 LUMENS. POLE MOUNTING HEIGHT IS 35 FT AND ARM LENGTH IS 16 FT. SYMBOL INCLUDES LUMINAIRE, HOUSE SIDE SHIELD, ARM, POLE WITH STANDARD FOUNDATION, CONCRETE SLAB, BREAKAWAY TRANSFORMER BASE, PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM. THE LUMINAIRE IS A CUTOFF FIXTURE DESIGNED FOR MEDIUM THROW TYPE III DISTRIBUTION WITH ZERO TILT.



149 WATT LED LUMINAIRE WIRED FOR 480V OPERATION, ATTACHED ON SHOULDER MOUNTED UTILITY CONFLICT LIGHT POLE. ANALYZED USING GENERAL ELECTRIC LIGHTING LUMINAIRE, PHOTOMETRIC CURVE NUMBER ERLH 16C340XXXXX AT 16000 LUMENS. POLE MOUNTING HEIGHT IS 35 FT AND ARM LENGTH IS 16 FT. SYMBOL INCLUDES LUMINAIRE, ARM, POLE WITH STANDARD FOUNDATION, BREAKAWAY TRANSFORMER BASE, AND POLE CABLE DISTRIBUTION SYSTEM. THE LUMINAIRE IS A CUTOFF FIXTURE DESIGNED FOR MEDIUM THROW TYPE III DISTRIBUTION WITH ZERO TILT.



251 WATT LED LUMINAIRE WIRED FOR 480V OPERATION, ATTACHED ON SHOULDER MOUNTED CONVENTIONAL LIGHT POLE. ANALYZED USING GENERAL ELECTRIC LIGHTING LUMINAIRE, PHOTOMETRIC CURVE NUMBER ERL2_28C340XXXXX AT 28000 LUMENS. POLE MOUNTING HEIGHT IS 35 FT AND ARM LENGTH IS 15 FT. SYMBOL INCLUDES LUMINAIRE, ARM, POLE WITH SPREAD FOOTER FOUNDATION, CONCRETE SLAB, BREAKAWAY TRANSFORMER BASE, AND POLE CABLE DISTRIBUTION SYSTEM. THE LUMINAIRE IS A CUTOFF FIXTURE DESIGNED FOR MEDIUM THROW TYPE III DISTRIBUTION WITH ZERO TILT.



251 WATT LED LUMINAIRE WIRED FOR 480V OPERATION, ATTACHED ON SHOULDER MOUNTED CONVENTIONAL LIGHT POLE. ANALYZED USING GENERAL ELECTRIC LIGHTING LUMINAIRE, PHOTOMETRIC CURVE NUMBER ERL2_28C340XXXXX AT 28000 LUMENS. POLE MOUNTING HEIGHT IS 35 FT AND ARM LENGTH IS 15 FT. SYMBOL INCLUDES LUMINAIRE, ARM, POLE WITH STANDARD FOUNDATION, CONCRETE SLAB, BREAKAWAY TRANSFORMER BASE, PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM. THE LUMINAIRE IS A CUTOFF FIXTURE DESIGNED FOR MEDIUM THROW TYPE III DISTRIBUTION WITH ZERO TILT.



251 WATT LED LUMINAIRE WIRED FOR 480V OPERATION, ATTACHED ON SHOULDER MOUNTED CONVENTIONAL LIGHT POLE. ANALYZED USING GENERAL ELECTRIC LIGHTING LUMINAIRE, PHOTOMETRIC CURVE NUMBER ERL2 28C340XXXXX AT 2800O LUMENS. POLE MOUNTING HEIGHT IS 35 FT AND ARM LENGTH IS 15 FT. SYMBOL INCLUDES LUMINAIRE, ARM, POLE WITH STANDARD FOUNDATION, BREAKAWAY TRANSFORMER BASE AND POLE CABLE DISTRIBUTION SYSTEM. THE LUMINAIRE IS A CUTOFF FIXTURE DESIGNED FOR MEDIUM THROW TYPE III DISTRIBUTION WITH ZERO TILT.



CONDUIT INSTALLED BY OPEN TRENCH METHOD WITH CONDUCTORS INSIDE. RUN ONE (1) COPPER GROUND BONDING CONDUCTOR (GREEN INSULATION) INSIDE WITH OTHER CONDUCTORS.



TWO CONDUITS (ONE SPARE) INSTALLED BY DIRECTIONAL BORE METHOD WITH CONDUCTORS INSIDE. RUN ONE (1) COPPER GROUND BONDING CONDUCTOR (GREEN INSULATION) INSIDE WITH OTHER CONDUCTORS.



PROPOSED TYPICAL FOOT SHOULDER MOUNTED LIGHTING PULL BOX WITH MODIFIED CONCRETE SLAB OF 36" X 36". PULL BOX COVER SIZE 13" X 24" UNLESS OTHERWISE NOTED.



PROPOSED LOAD CENTER "A" 240/ 480 VOLT, SINGLE PHASE, 3 WIRE, PER FDOT STANDARD PLANS AND SPECIFICATIONS INCLUDING THE METER ENCLOSURE WITH BASE AND SERVICE DISCONNECT PER FP&L REQUIREMENTS. INCLUDE A MANUAL BYPASS SWITCH TO THE METER BASE PER FP&L REQUIREMENTS.

CONVENTIONAL LIGHTING DESIGN CRITERIA FOR SIGNALIZED INTERSECTION

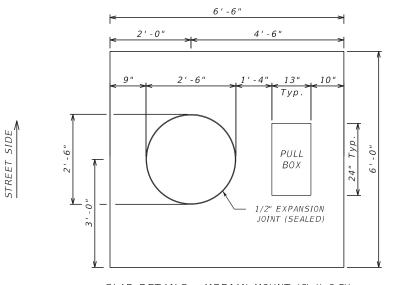
DESIGN WIND SPEED
AVERAGE HORIZONTAL INITIAL ILLUMINATION
AVERAGE VERTICAL INITIAL ILLUMINATION
AVERAGE TO MIN.
MAX TO MIN

140 MPH 3.0 H.F.C. STD / 1.5 H.F.C. MIN 1.5 V.F.C. STD / 1.2 V.F.C. MIN 4:1 OR LESS 10:1 OR LESS

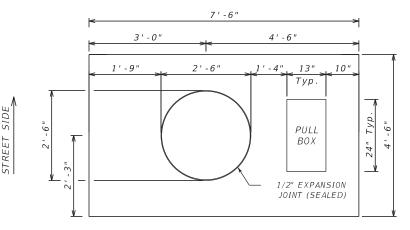
CONVENTIONAL LIGHTING DESIGN CRITERIA FOR ROADWAY SEGMENT

DESIGN WIND SPEED
AVERAGE HORIZONTAL INITIAL ILLUMINATION
AVERAGE TO MIN.
MAX TO MIN.
VEILING LUMINANCE RATIO

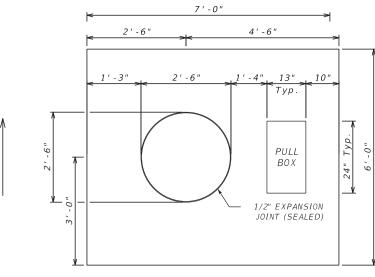
1.0 H.F.C. 4:1 OR LESS 10:1 OR LESS 0.3 : 1 OR LESS



SLAB DETAILS - MEDIAN MOUNT (6' X 6.5')



SLAB DETAILS - POLE NO. 24 (4.5' X 7.5')



SLAB DETAILS - POLE NO. 28 (6' X 7')

SCALE AS NOTED

DESIGNED BY

BB

DRAWN BY

SM

CHECKED BY

NO. REVISIONS

DATE BY

JG



HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233 DATE

10/2022

PROJECT NO.



Manatee MANATEE COUNTY
County PUBLIC WORKS

DESIGN ENGINEER
BIJAN BEHZADI

FL. LICENSE NO.
43868

SID

LEGEND AND LIGHTING
DESIGN CRITERIA

SHEET NO. L-4

No. 2:03:48 F

10/24/2022

DATE BI

6094361

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNT I NG HE I GHT	OFFSET / POLE SETBACK	PAY ITEM
1	A - 1	STA. 200+84	15'	251W	35 '	75' LT / 5.4' FROM FOP TO FOC	715-61-252
2	A - 1	STA. 199+60	15'	251W	35'	92' LT / 11.6' FROM FOP TO FOG	715-62-252
3	A - 1	STA. 199+78	15'	251W	35 '	91' RT / 26.3' FROM FOP TO EOTL	715-62-252
4	A - 1	STA. 200+94	15'	251W	35'	133' RT / 20.0' FROM FOP TO EOTL	715-61-252
5	A - 1	STA. 200+93.5	15'	251W	35'	73' RT	715-61-252
6	A - 1	STA. 201+60	8 '	98W	35'	5.5' RT / CENTER OF MEDIAN	715-512-135
7	A - 1	STA. 203+20	8 '	98W	35'	5.5' RT / CENTER OF MEDIAN	715-512-135
8	A - 1	STA. 204+80	8 '	98W	35'	0' / CENTER OF MEDIAN	715-512-135
9	A - 1	STA. 206+40	8 '	98W	35 '	0' / CENTER OF MEDIAN	715-512-135
10	A - 1	STA. 208+00	8 '	98W	35 '	0' / CENTER OF MEDIAN	715-512-135
11	A - 1	STA. 209+60	8 '	98W	35'	0' / CENTER OF MEDIAN	715-512-135
12	A - 1	STA. 211+20	8 '	98W	35 '	0' / CENTER OF MEDIAN	715-512-135
13	A - 1	STA. 212+80	8 '	98W	35 '	0' / CENTER OF MEDIAN	715-512-135
14	A - 1	STA. 213+90	8 '	98W	35'	0' / CENTER OF MEDIAN	715-512-135
15	A - 1	STA. 215+35	8 '	98W	35'	0' / CENTER OF MEDIAN	715-512-135
16	A - 1	STA. 216+80	8 '	98W	35'	0' / CENTER OF MEDIAN	715-512-135
17	A-2	STA. 218+27	8 '	98W	35'	0' / CENTER OF MEDIAN	715-512-135
18	A-2	STA. 219+74	8 '	98W	35'	0' / CENTER OF MEDIAN	715-512-135
19	A-2	STA. 221+21	8 '	98W	35 '	0' / CENTER OF MEDIAN	715-512-135
20	A-2	STA. 222+68	8 '	98W	35'	3' LT / CENTER OF MEDIAN	715-512-135
21	A-2	STA. 224+15	8 '	98W	35 '	5.5' LT / CENTER OF MEDIAN	715-512-135
22	A-2	STA. 225+65	8 '	98W	35 '	5.5' LT / CENTER OF MEDIAN	715-512-135
23	A-2	STA. 226+19	12'	149W	35'	59' LT	715-61-242
24	A-2	STA. 226+31	8 '	149W	35 '	118' LT / 11' FROM FOP TO EOTL	715-61-211
25	A-2	STA. 227+51	12'	149W	35 '	65' LT	715-61-242
26	A-2	STA. 226+30.4	16'	149W	35'	60' RT	715-65-266
27	A-2	STA. 226+50	8'	149W	35'	100' RT / 10' FROM FOP TO EOTL	715-61-211
28	A-2	STA. 227+42.6	16'	149W	35'	48.6' RT	715-65-266

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNT I NG HE I GHT	OFFSET / POLE SETBACK	PAY ITEM
29	A-2	STA. 227+90	8 '	98W	35'	5.5' RT / CENTER OF MEDIAN	715-512-135
30	A-2	STA. 229+48	8 '	98W	35'	5.5' RT / CENTER OF MEDIAN	715-512-135
31	A-2	STA. 231+06	8 '	98W	35 '	0' / CENTER OF MEDIAN	715-512-135
32	A-2	STA. 232+64	8 '	98W	35'	0' / CENTER OF MEDIAN	715-512-135
33	A-2	STA. 234+22	8 '	98W	35'	0' / CENTER OF MEDIAN	715-512-135
34	A-2	STA. 235+80	8 '	98W	35'	0' / CENTER OF MEDIAN	715-512-135
				_			
				<u> </u>			

TABLE LEGEND

EOTL - EDGE OF TRAVEL LANE

FOC - FACE OF CURB

FOG - FACE OF GUARDRAIL

FOP - FACE OF POLE

					AS NOTED	Τ
					A A NOTED	╛
					DESIGNED BY	7
\vdash					BB	ı
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					CHECKED BY	1
	No.	REVISIONS	DATE	BY] JG	1
2:0)3:49 PM	10/24/2022			PW:\	



HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233

DATE 10/2022 PROJECT NO.

6094361

Manatee	MANATEE COUNTY
County	PUBLIC WORKS

DESIGN ENGINEER	
BIJAN BEHZADI	
FL. LICENSE NO.	
43868	

POLE DATA

SHEET NO.	
L-5	

GENERAL NOTES:

- "LOCATES "SUNSHINE ONE CALL OF FLORIDA, INC." SERVICES DO NOT LOCATE BUNED RAILROAD SIGNAL AND COMMUNICATION LINES, CONTACT THE RAILROAD'S REPRESENTATIVE TWO (2) WEEKS IN ADVANCE OF THOSE PLACES WHERE EXCAVATION, PILE DRIVING OR HEAVY LOADS MAY DAMAGE RAILROAD UNDERGROUND LINES ON RAILROAD PROPERTY. UPON REQUEST, RAILROAD SIGNAL FORCES WILL LOCATE AND PAINT MARK OR FLAG RAILROAD UNDERGROUND SIGNAL. COMMUNICATION OF POWER LINES IN THE AREA TO BE DISTURBED, AVOID EXCAVATION OR OTHER DISTURBANCES OF THESE LINES WHICH ARE CRITICAL TO THE SAFETY OF THE RAILROAD AND THE PUBLIC. IF DISTURBANCE OR EXCAVATION IS REQUIRED NEAR A BURIED RAILROAD SIGNAL, COMMUNICATIONS OR POWER LINE, THE LINE SHALL BE POTHOLED MANUALLY WITH CAREFUL HAND EXCAVATION AND PROTECTED DURING THE COURSE OF THE DISTURBANCE UNDER THE SUPERVISION AND DIRECTION OF A RAILROAD SIGNAL REPRESENTATIVE.
- SEE ROADWAY PLANS FOR UTILITY OWNERS.
- SEE SIGNALIZATION PLANS FOR ADDITIONAL CONDUIT DETAILS.
- PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. INCLUDING BUT NOT LIMITED TO:
 - A) LUMINAIRE PHOTOMETRICS, INCLUDING ELECTRONIC IES PHOTOMETRIC FILES
 - B) POLE STRENGTH CALCULATIONS
 - C) POLE FRANGIBILITY TEST
 - D) BOLT SPECIFICATIONS AND BOLT CIRCLE DIAMETER
 - E) POLE SHOP DRAWINGS
 - F) LOAD CENTER ELECTRICAL EQUIPMENT, INCLUDING WIRING SCHEMATICS
- THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. BEFORE EXCAVATING STAKE ALL POLE LOCATIONS AND TAKE RESPONSIBILITY FOR NOTIFYING THE UTILITY COMPANY OWNER(S) AND REQUEST THEM TO LOCATE AND STAKE THEIR UNDERGROUND
- PROVIDE NOTICE TO THE UTILITY OWNER(S) PER FLORIDA STATUTE 556 (2012). THIS STATUTE REQUIRES THAT BEFORE EXCAVACATION, NOTICE BE GIVEN TO THE SUNSHINE STATE ONE-CALL OF FLORIDA, INC. (SSOCOF) A MINIMUM OF TWO (2) FULL BUSINESS DAYS BEFORE BEGINNING ANY EXCAVATION OR DEMOLITION, EXCLUDING SATURDAY, SUNDAY, AND LEGAL HOLIDAYS. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF 1-800-432-4770.
- THE LOCATION OF THE CONDUCTORS, CONDUITS AND JUNCTION BOXES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.
- ALUMINUM POLES, LUMINAIRES AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO'S "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AND SHALL HAVE BEEN TESTED BY FHWA-APPROVED METHODS. CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
- ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDISTIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE AND THE STATE OF FLORIDA D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 10. IN ACCORDANCE WITH N.E.C., IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS".
 INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH POLE.
- 11. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET AND MEET MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY N.E.C. OR N.E.S.C. FOR CARLE USED
- 12. FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING STANDARD. TAGS SHALL BE 2" x 8" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR LIGHT POLE COMPLETE. TAG SHALL BE PLACED 5 FEET ABOVE FINAL GRADE

RAILROAD REQUIRMENTS:

- THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL OF ANY KIND ON CSXT RIGHT-OF-WAY (ROW) OR WHERE THEY MAY HAVE THE POTENTIAL TO INTERFERE WITH CSXT OPERATIONS UNLESS CONTRACTOR HAS RECEIVED PRIOR WRITTEN AUTHORIZATION BY CSXT REPRESENTATIVE.
- COORDINATE ALL RAILROAD ACTIVITIES THROUGH MANATEE COUNTY, FLORIDA, COUNTY ENGINEER.
- CSXT RAILROAD FLAGMAN IS REQUIRED ANYTIME CONTRACT ACTIVITIES OCCUPY OR HAVE POTENTIAL TO IMPACT CSXT ROW OR TRACKS.
- UNDER NO CONDITIONS SHALL WORK AFFECT THE SAFE PASSAGE OF TRAINS OR OTHER ON TRACK EQUIPMENT. CONTRACTORS AND ALL SUBCONTRACTORS (IF APPLICABLE) SHALL PROCURE AND MAINTAIN RAILROAD PROTECTIVE LIABILITY INSURANCE AND COVERAGE OF INSURANCE
- CONTRACTOR SHALL REFER TO THE CSXT PUBLIC PROJECTS MANUAL, MOST RECENT EDITION, FOR CONSTRUCTION REQUIREMENTS WHILE WITHIN THE
- CONTRACTOR MUST HAVE AN EMERGENCY ACTION AND HURRICANE PREPAREDNESS PLAN, WHICH SHOULD BE SITE SPECIFIC AND MUST INCLUDE COORDINATION WITH CSXT AND CSXT REPRESENTATIVE, WHILE WORKING WITHIN THE CSXT ROW LIMITS. THIS PLAN MUST BE PROVIDED TO CSXT FOR RECORD PRIOR TO WORK COMMENCING WHICH MAY IMPACT CSXT ROW OR FACILITIES.
- AGENCY AND CONTRACTOR ARE NOT PERMITTED TO CROSS CSXT'S PROPERTY OR TRACKS, EXCEPT ON EXISTING PUBLIC ROAD CROSSINGS, WITH VEHICLES, MEN. OR EQUIPMENT OF ANY KIND WITHOUT PRIOR AUTHORIZATION FROM CSXT OR AUTHORIZED REPRESENTATIVE
- IF ANY ISSUE OR INCIDENT OCCURS WITHIN CSXT ROW, OPERATIONS ARE TO CEASE IMMEDIATELY. THE CONTRACTOR MUST CONTACT THE CSXT PUBLIC SAFETY COORDINATION CENTER AT 800-232-0144 AND NOTIFY THE CSXT REPRESENTATIVE. THE CONTRACTOR MUST RECEIVE AUTHORIZATION FROM CSXT REFORE RESUMING CONSTRUCTION ACTIVITIES AT SITE
- ALL SOILS EXCAVATED WITHIN CSXT'S RAILROAD RIGHT-OF-WAY SHALL REMAIN ON CSXT'S RIGHT-OF-WAY, TESTING OF SOILS ON CSXT ROW IS PROHIBITED WITHOUT PRIOR WRITTEN CSX1 AUTHORIZATION. ANY SOLLS EXCAVATED ON CSXT ROW CAN BE REUSED ON THE ROW PROVIDED PLACING SOILS ALONG CSXT ROW POSES NO ADVERSE IMPACTS TO THE EXISTING TERRAIN, DRAINAGE OR ENVIRONMENT. SHOULD SOIL NEED TO BE REMOVED FROM CSXT ROW, THE CSXT ENVIRONMENTAL DEPARTMENT WILL SAMPLE THE SOIL FOR DISPOSITION. SOIL STAGED ON CSXT MUST FOLLOW CSXT PROTOCOL AND BE PROPERLY STORED AND/OR PROTECTED FROM THE ELEMENTS AND POTENTIAL EXPOSURE.

AS NOTED SM DATE



HDR Engineering, Inc 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233

DATE 10/2022

PROJECT NO

6094361



Manatee MANATEE COUNTY PUBLIC WORKS

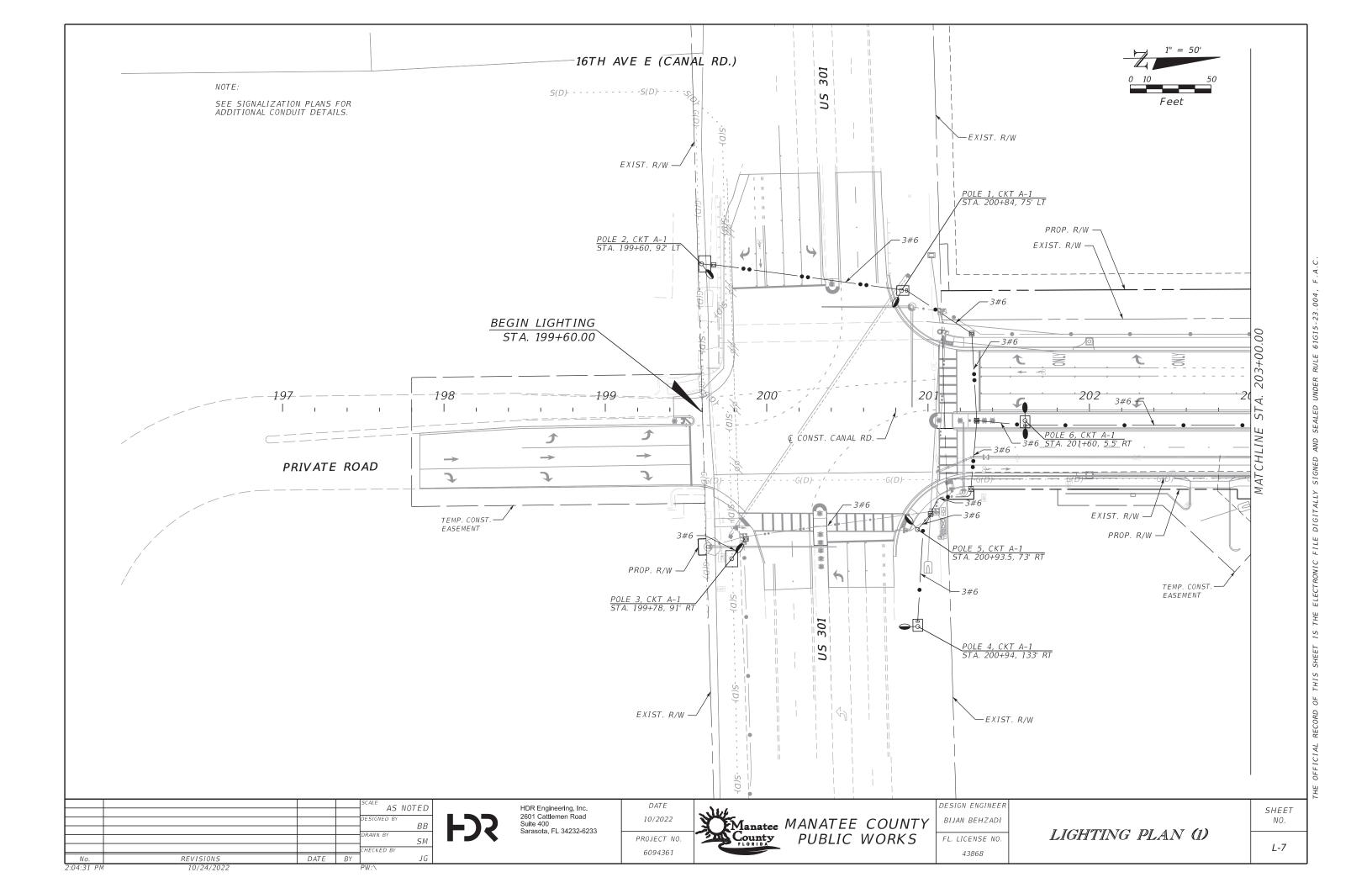
DESIGN ENGINEER BIJAN BEHZADI

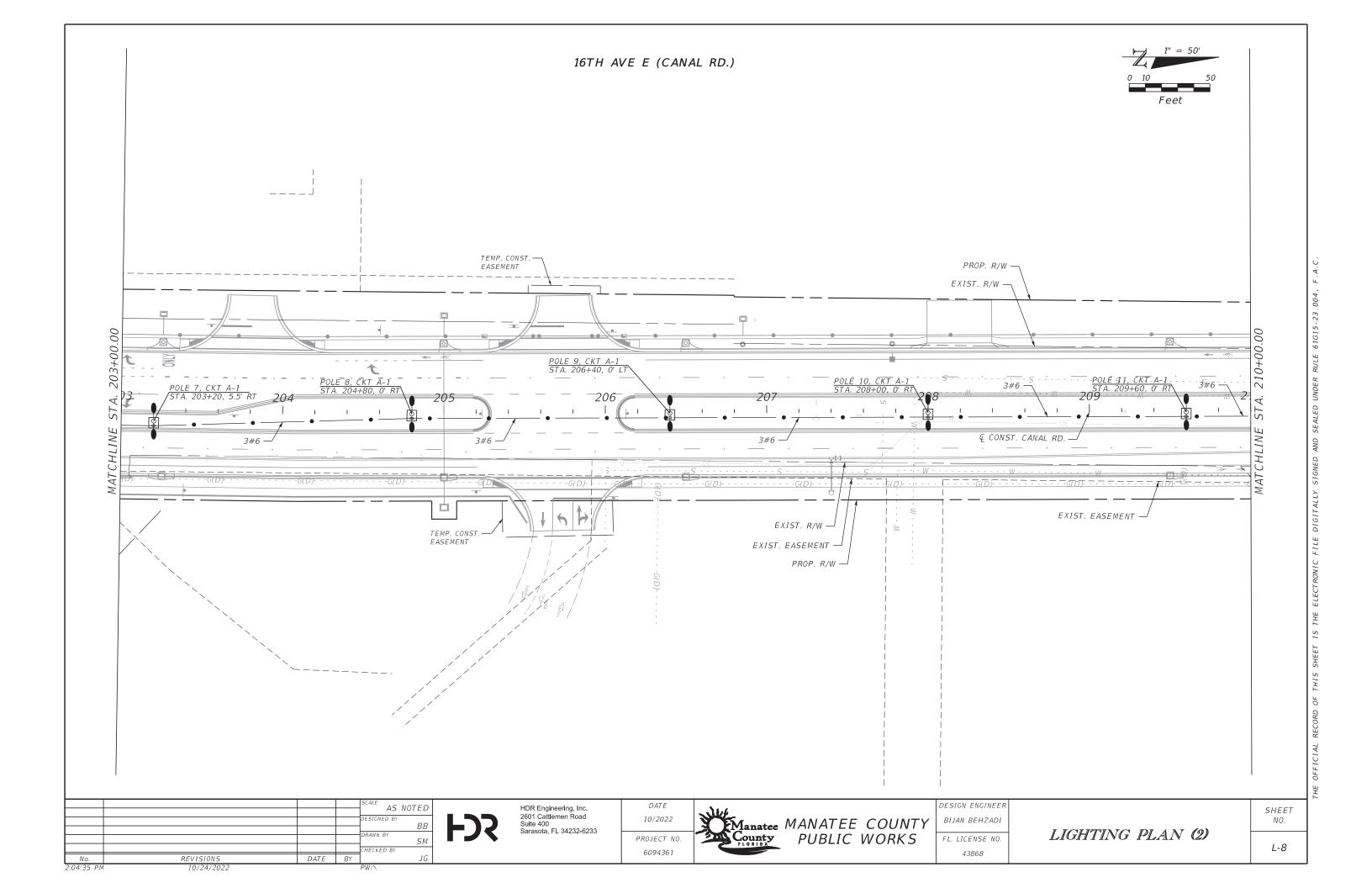
FL. LICENSE NO. 43868

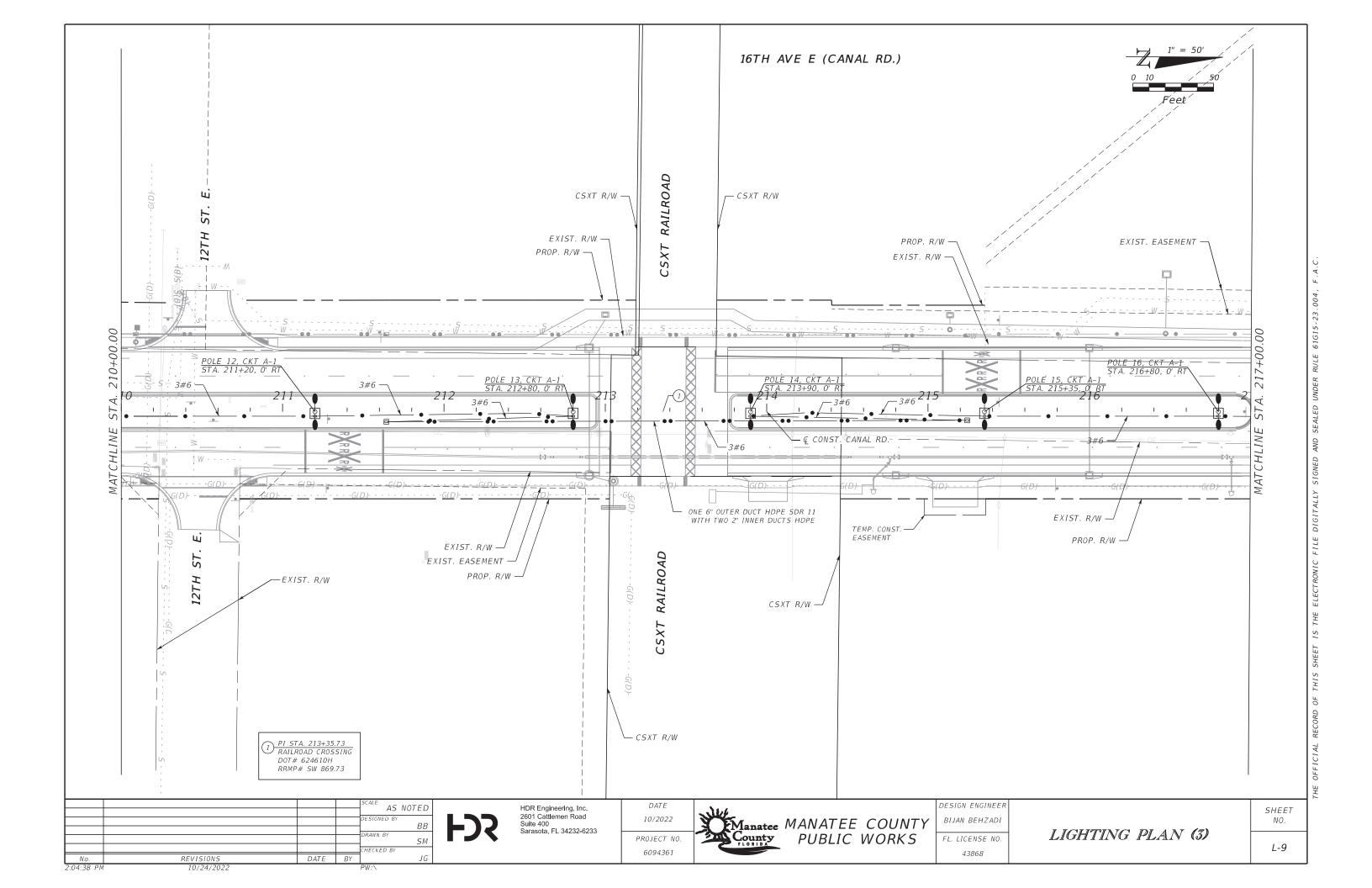
GENERAL NOTES

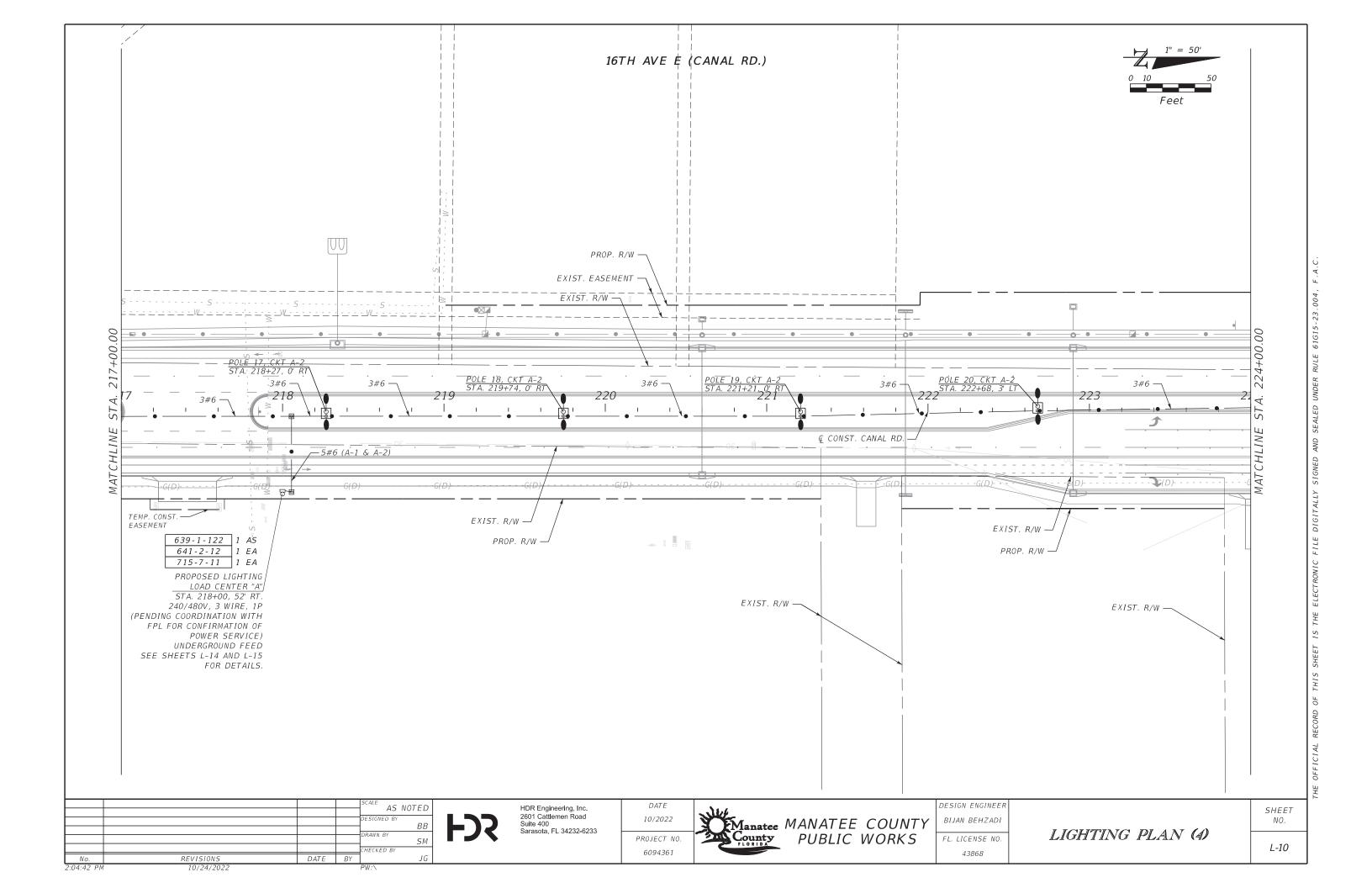
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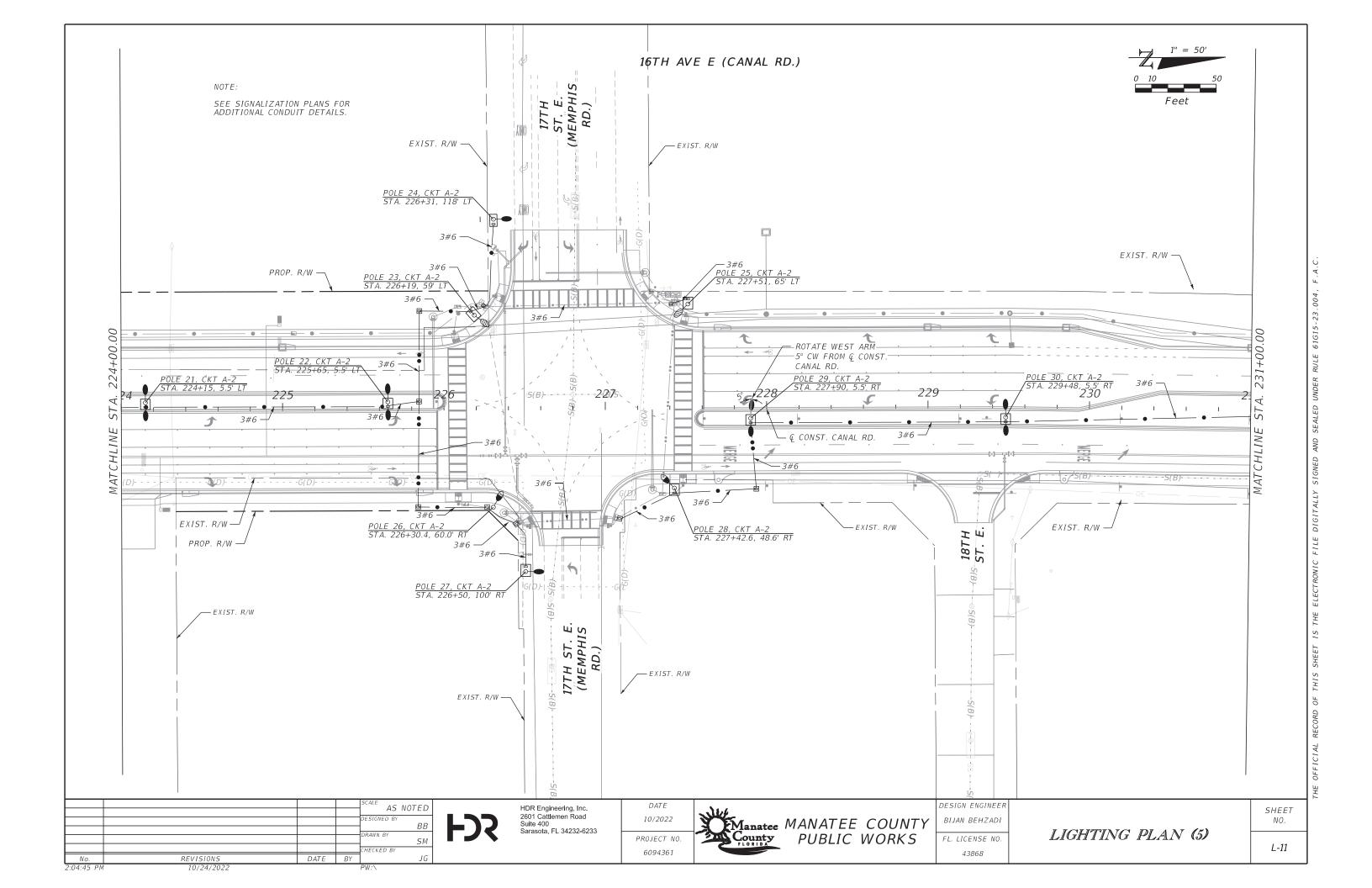
L-6

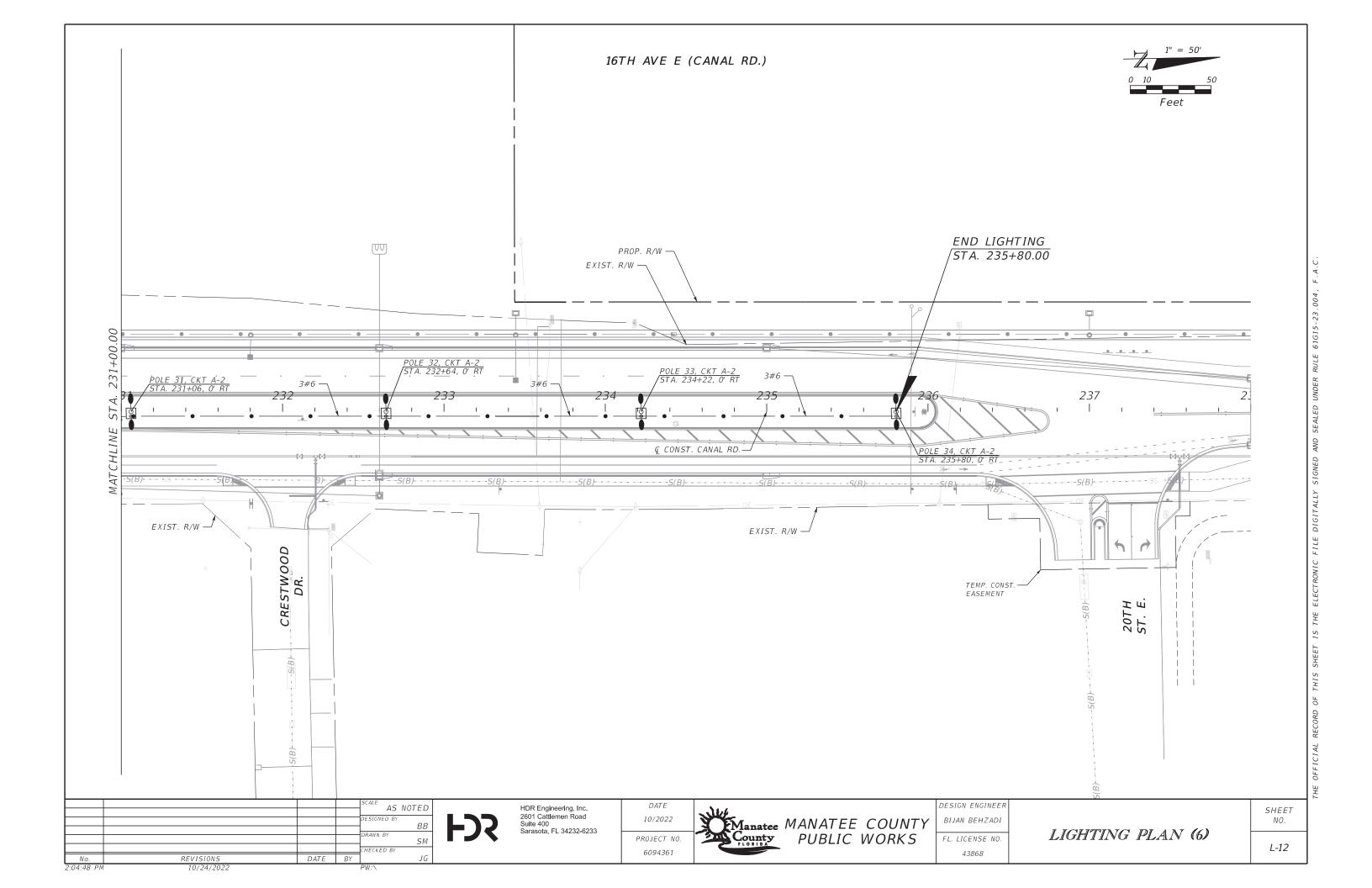


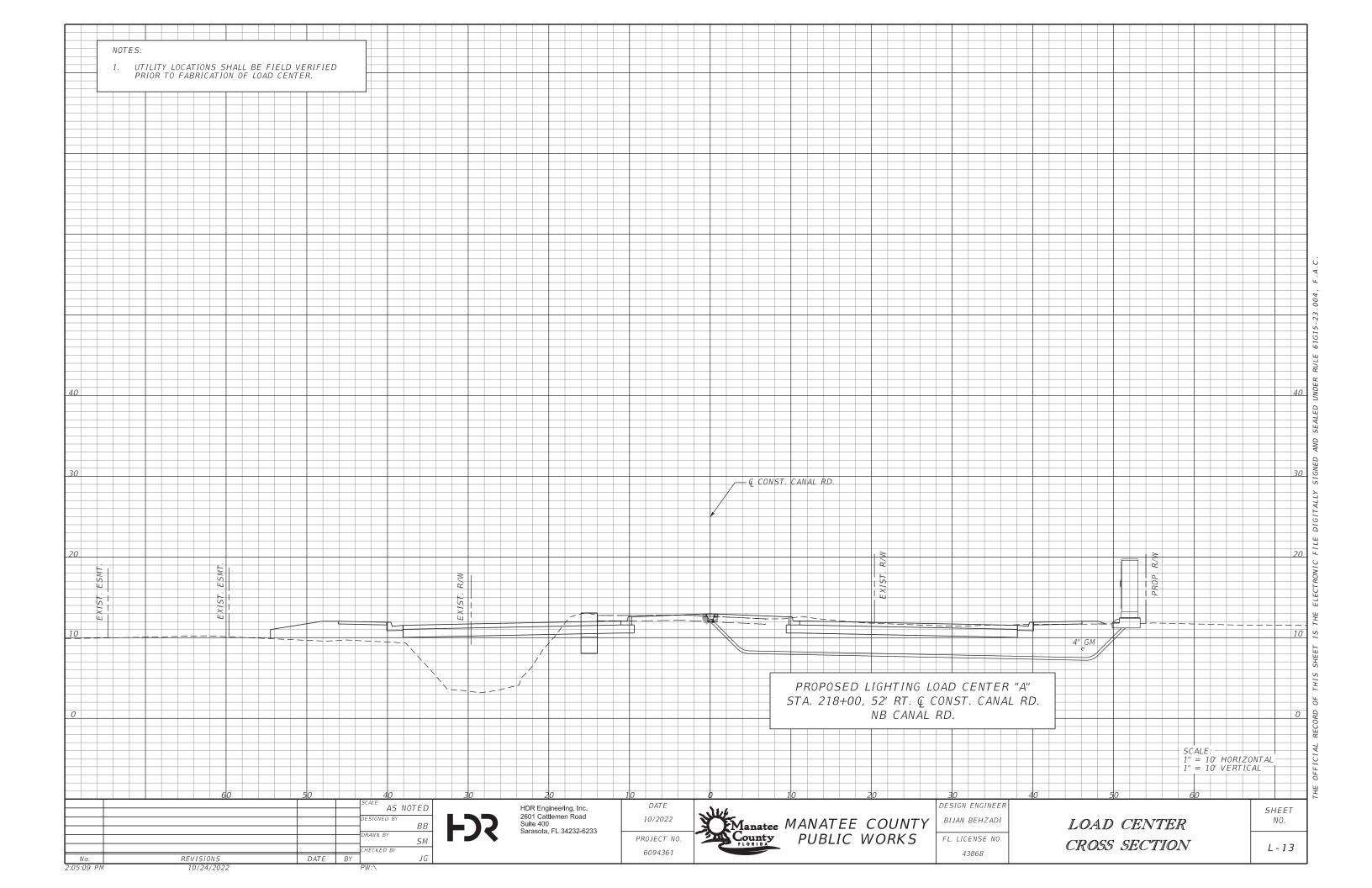












PANELBOARD NO: Α 480/240 BUS RATING (A): 100 **ENCLOSURE:** NEMA 1 *VOLTAGE:* MAIN OC DEVICE: INTERRUPTING RATING (KA): MLO 35 NO PHASE: MOUNTING: SURFACE 3+GND LIGHTING CONTROLLER WIRE: LOCATION: 200% NEUTRAL: NO SERVICE ENTRANCE LABEL: CONNECTED LOAD (VA)
LTS REC MECH MISC CONNECTED LOAD (VA)
LTS REC MECH MISC CKT NO. OCP AMPS P OCP AMPS P CKT NO. DESCRIPTION **DESCRIPTION** 2 2,483.3 2,483.3 CIRCUIT A-1 30 30 CIRCUIT A-2 A B 30 30 SPARE SPARE SPACE SPACE SPACE SPACE A B A B A B LOAD SUMMARY SPARE TOTAL | MECH | MISC | 0.0 | 0.0 PHASE BALANCE PHASE A (KVA) 5 PHASE B (KVA) 5 CONNECTED LOAD (KVA) DEMAND FACTOR 10.0 LINE-TO-LINE VOLTS CONNECTED AMPS DESIGN LOAD (KVA) 14.5 DESIGN AMPS

				AS NOTED
				DESIGNED BY
				BB
				DRAWN BY
				CHECKED BY
No.	REVISIONS	DATE	BY	JG
2:05:22 PM	10/24/2022			PW:\



HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233

DATE 10/2022 PROJECT NO.

6094361



Manatee MANATEE COUNTY
County PUBLIC WORKS

DESIGN ENGINEER BIJAN BEHZADI FL. LICENSE NO.

43868

ELECTRICAL DISTRIBUTION PANELBOARD SCHEDULE

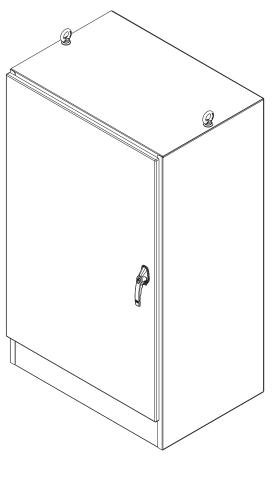
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L-14

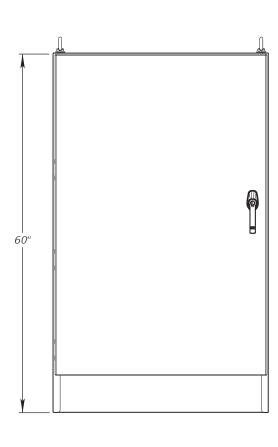
CONSTRUCTION NOTES:

- 12 GAUGE STAINLESS STEEL.
 LIGHTING CONTROL PANEL ENCLOSURE (NEMA 4X SST). DIMENSIONS AS NECESSARY FOR EQUIPMENT INSIDE.
 CONTINUOUS WELDED SEAMS GROUND SMOOTH.
 HEAVY GAUGE CONTINUOUS HINGES TO SECURE DOORS.

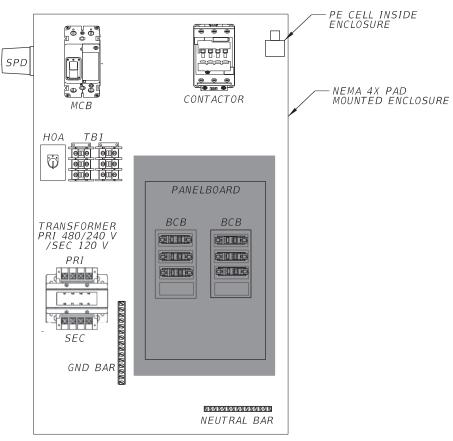
- HEAVY DUTY PADLOCKING HANDLES. PRINT POCKET AND PANEL SUPPORTS. DOORS WITH CLOSED CELL NEOPRENE GASKET.
- HEAVY DUTY LIFTING EYES.
- GROUNDING PROVISIONS.
- 10. KEY AND LOCKS. PROVIDE FOUR (4) KEYS TO THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION.
- ANSI 61 GRAY POLYESTER POWDÈR INSIDE AND OUT OVER PHOSPHATIZED SURFACES.



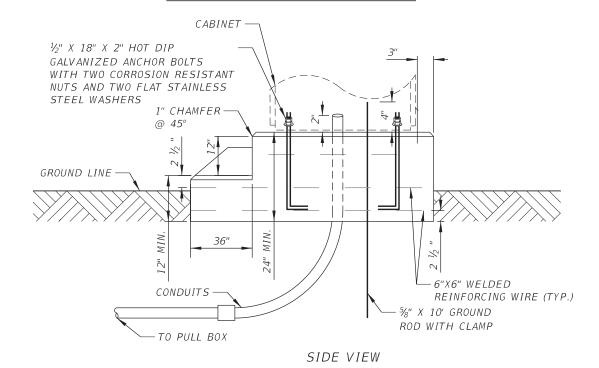




FRONT VIEW



NEMA 4X PAD MOUNTED ENCLOSURE (LIGHTING CONTROL EQUIPMENT)



CONCRETE PAD NTS

				SCALE AS NOTED	Г
					Ĺ
				DESIGNED BY BB	ı
				DRAWN BY	ı
				SM	ı
				CHECKED BY	ı
No.	REVISIONS	DATE	BY	JG I	ĺ

10/24/2022

HDR Engineering, Inc. 2601 Cattlemen Road Suite 400 Sarasota, FL 34232-6233

DATE 10/2022 PROJECT NO. 6094361



Manatee MANATEE COUNTY
County PUBLIC WORKS

DESIGN ENGINEER BIJAN BEHZADI FL. LICENSE NO. 43868

LIGHTING CONTROL PANEL ENCLOSURE SHEET NO.

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