NORTH

1 ELECTRICAL SITE PLAN
SCALE = 1" = 30'-0"

SYMBOL SCHEDULE

	FIELD SPORTS LIGHTING POLE & FIXTURES
	UNDERGROUND ELECTRICAL SERVICE
	PULLBOX
	EXIST. LIGHT POLE

ELECTRICAL SITE PLAN NOTES

1. FINAL POLE LOCATIONS SHALL BE SHIFTED AS APPROVED BY ENGINEER TO AVOID CONFLICTS WITH HIDDEN OBSTRUCTIONS TO ACHIEVE REQUIRED FOOT CANDLE LEVELS WITH APPROPRIATE MAXIMUM/MINIMUM REQUIREMENTS.
2. CONTRACTOR SHALL FURNISH PHOTOMETRIC PRINTOUT OF FIELD INDICATING POLE LOCATIONS, QUANTITY OF FIXTURES, FIXTURE AIMING POSITIONS, AND MAXIMUM/MINIMUM VALUES PRIOR TO BIDDING.
3. INSTALLATION OF POLES WILL NOT BE ALLOWED UNTIL CONTRACTOR RECEIVES APPROVAL OF PHOTOMETRIC PRINTOUT.
4. EXISTING ELECTRICAL DEVICES AND ASSOCIATED CIRCUITS TO REMAIN AND SHALL BE SUPPORTED DURING CONSTRUCTION, UNLESS NOTED OTHERWISE. PROVIDE TEMPORARY POWER CONNECTIONS TO EXISTING CIRCUITS.
5. INSTALLATION OF POLES WILL NOT BE ALLOWED UNTIL LOUISIANA CIVIL ENGINEER PREPARED FOUNDATION DRAWINGS HAVE BEEN APPROVED.
6. IF CONTRACTOR MUST BE REQUIRED TO REMOVE ANY EXISTING FENCING TO OBTAIN EQUIPMENT ACCESS TO WORK AREAS, THE FENCING SHALL BE REPLACED AT COMPLETION OF PROJECT. CONTRACTOR SHALL MAINTAIN SITE SECURITY WHILE FENCING IS REMOVED.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING GROUND AND CONCRETE WALK WAYS/DRIVES WHERE DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL NOT CROSS BASEBALL FIELD WITH CONSTRUCTION VEHICLES.
8. DEMOLITION EXISTING ELECTRICAL LIGHTING EQUIPMENT (VERIFY WITH ENGINEER PRIOR TO DEMOLITION)
9. CONTRACTOR SHALL TURN OVER ALL DEMOLISHED ITEMS TO OWNER FOR DISPOSAL.
10. REUSE EXISTING CONDUIT WHERE POSSIBLE. ANY BROKEN OR MISSING UNDERGROUND CONDUIT SHALL BE NOTED AND BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
11. COORDINATE THE REINSTALLATION LOCATION OF EXISTING SPEAKERS WITH OWNER. CONTRACTOR SHALL TEST AND VERIFY SOUND AFTER REINSTALLATION.

ELECTRICAL SITE PLAN KEYNOTES

(1) NEW GALVANIZED STEEL RACK. SEE RISER DIAGRAM FOR MORE DETAIL.

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SEAL

STATE OF LOUISIANA
MICHAEL CHARLES PERRY III
LICENSED PROFESSIONAL ENGINEER
09/08/2022

PROJECT INFORMATION

LA LA REGIRA FIELDS LIGHTING

896 Clay Street
Donaldsonville, LA 70346

REVISIONS

SHEET INFORMATION

DATE:	09/08/2022
DRAWN BY:	CC
CHECKED BY:	SC
PROJECT #:	22-092

SHEET NAME

ELECTRICAL SITE PLAN

SHEET NUMBER

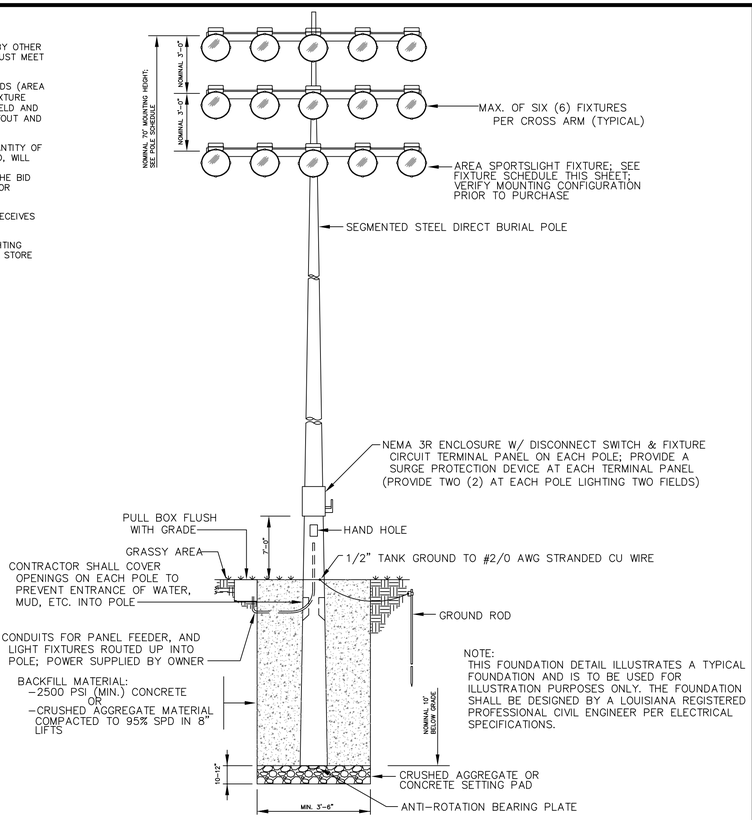
E2.0

NORTH

1 FIELD PHOTOMETRIC LAYOUT
SCALE = 1" = 30'-0"

LIGHTING CALCULATIONS GENERAL NOTES

1. FIXTURE QUANTITY BASED ON SPECIFIED FIXTURES. FIXTURES QUANTITY BY OTHER MANUFACTURERS MUST BE SENT FOR PRIOR APPROVAL. PHOTOMETRIC MUST MEET MINIMUM STANDARDS DISPLAYED ON E3.0.
2. CONTRACTOR SHALL FURNISH PHOTOMETRIC PRINTOUT OF BASEBALL FIELDS (AREA WITHIN FENCES) INDICATING POLE LOCATIONS, QUANTITY OF FIXTURES, FIXTURE AIMING POSITIONS, INFIELD AND OUTFIELD FOOTCANDLE LEVELS, AND INFIELD AND OUTFIELD MAX/MIN VALUES WITH THE BID PACKAGE. PHOTOMETRIC PRINTOUT AND FIXTURE CUTSHEETS SHALL BE SENT FOR PRIOR APPROVAL.
3. CONTRACTOR SHALL FURNISH DOCUMENTATION THAT THE PROPOSED QUANTITY OF FIXTURES, AS WELL AS ANY ADDITIONAL SUPPORTING MEMBERS REQUIRED, WILL NOT COMPROMISE THE STRUCTURAL INTEGRITY OF THE EXISTING POLES. CONTRACTOR SHALL SUBMIT CALCULATIONS AND DOCUMENTATION WITH THE BID PACKAGE. CALCULATIONS AND DOCUMENTATION SHALL BE SENT FOR PRIOR APPROVAL.
4. INSTALLATION OF FIXTURES WILL NOT BE ALLOWED UNTIL CONTRACTOR RECEIVES APPROVAL OF PHOTOMETRIC PRINTOUT.
5. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF EXISTING FIELD LIGHTING FIXTURES AND ASSOCIATED EQUIPMENT AND WIRING. CONTRACTOR SHALL STORE ALL REMOVED EQUIPMENT IN THE LOCATION DESIGNATED BY THE OWNER. EQUIPMENT DISPOSAL BY OWNER.



2 DETAIL - TYPICAL POLE DETAIL
SCALE = N.T.S

FIXTURE SCHEDULE

EGRESS GeoSport Elite Cllr 630W Light Loss Factor = 0.950 Watts per luminaire = 632
EW60 GeoSport Elite Cllr EV 630W Light Loss Factor = 0.950 Watts per luminaire = 612
W40 GeoSport Elite Cllr EV 630W Light Loss Factor = 0.950 Watts per luminaire = 631
M20 GeoSport Elite Cllr EV 630W Light Loss Factor = 0.950 Watts per luminaire = 620
N15 GeoSport Elite Cllr EV 630W Light Loss Factor = 0.950 Watts per luminaire = 610

NOTE: ALL FIXTURES SHALL BE SENT WITH PHOTOMETRIC REPORTS AND LAYOUTS FOR PRIOR APPROVAL.

LIGHTING REQUIREMENTS

INFIELD LIGHTING:
50fc
1.5:1 MAX/MIN

OUTFIELD LIGHTING:
30fc
2.0:1 MAX/MIN

POLE SCHEDULE

Pole	x	y	height	N15	M20	W40	EW60	EGRESS	M	Total	kW
A1	−40	30	60FT	1	2	3				6	3.7
A2	50	−45	60FT		6	1	3			5−5	6.2
A3	99	−83	60FT		4	3	3			5−5	6.2
B1	−10	205	60FT	3	6	1	1			11	6.8
B2	195	−24	60FT	3	8	4	1			11−5	9.9
B3	352	−38	60FT	3	6		1			10	6.2
B4	132	−258	60FT	3	6		2			10	6.2
B5	76	−259	60FT	2	5		2			9	5.5
B6	−129.8	−64.5	60FT	2	5		2			9	5.5
OTHER								8		8	5.0
Total				17	48	12	14	8		99	61.3

NOTES:
1. POLES A1 AND B3 HAVE ONE FIELD AIMED EGRESS FIXTURE EACH AT 40' ABG. POLES A2, A3, AND B2 HAVE TWO FIELD AIMED EGRESS FIXTURES EACH AT 40' ABG.
2. COORDINATE EGRESS LIGHTING PLACEMENT AND AIMING WITH THE ENGINEER PRIOR TO CONSTRUCTION.

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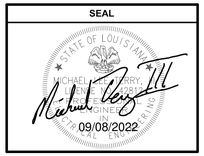


PROJECT INFORMATION

LA LA REGIRA FIELDS
LIGHTING

896 Clay Street
Donaldsonville, LA 70346

REVISIONS

SHEET INFORMATION

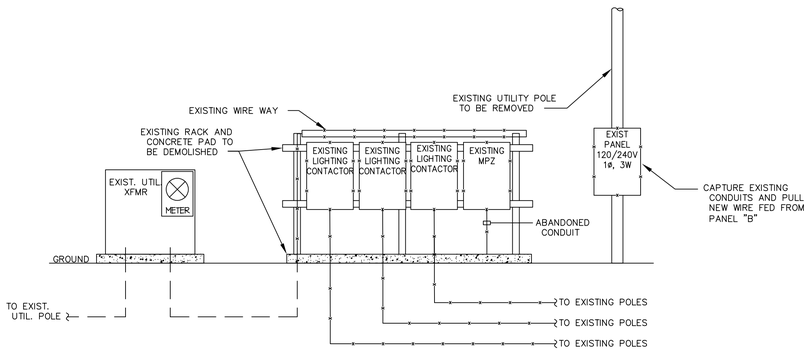
DATE:	09/08/2022
DRAWN BY:	CC
CHECKED BY:	SC
PROJECT #:	22-092

SHEET NAME

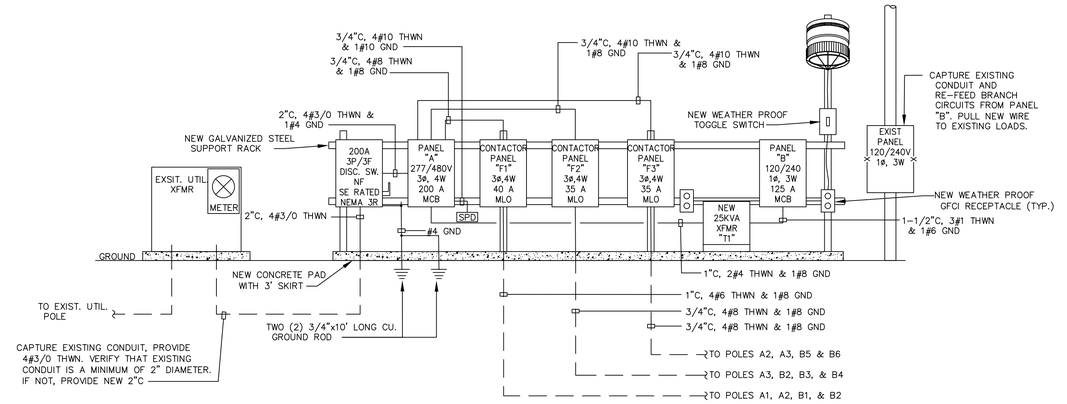
LIGHTING PLAN & DETAILS

SHEET NUMBER

E3.0



1 DEMOLITION RISER DIAGRAM
SCALE = N.T.S



2 RISER DIAGRAM
SCALE = N.T.S

*TYPE:*BOLT-ON BREAKER PANELBOARD
*SERVICE:*277/480 VOLT, 3ø, 4W
*MAIN:*200 AMP MCB

PANEL "A"

*MOUNTING:*SURFACE
*AIC:*22,000
*REMARKS:*GROUND BUS NEMA 3R

pos. no.	bkr. no.	trip amp	bkr. pole	wire size	cd	service	LOAD V.A. A ø	LOAD V.A. B ø	LOAD V.A. C ø	pos. no.	bkr. no.	trip amp	bkr. pole	wire size	cd	service
1	1	40	3	6	1"	CONTACTOR "F1"	6300	6300		2	2	35	3	8	3/4	CONTACTOR "F2"
3						"		6300	6300	4						"
5						"			6300	6						"
7	3	35	3	8	3/4	CONTACTOR "F3"	12500	12500		8	8	70	2	8	1"	25 KVA XFMR "T1"
9						"			12500	10						"
11						"				12						SPACE
13						SPACE				14	14	30	3	10	3/4	SPD
15						"				16						"
17						"				18						"
						connected V.A. per phase	31,610	31,610	19,110							
						total amps per phase	114.2	114.2	70.0							

*TYPE:*BOLT-ON BREAKER PANELBOARD
*SERVICE:*120/240 VOLT, 1ø, 3W
*MAIN:*125 AMP MCB

PANEL "B"

*MOUNTING:*SURFACE
*AIC:*10,000
*REMARKS:*GROUND BUS NEMA 3R

pos. no.	bkr. no.	trip amp	bkr. pole	wire size	cd	service	LOAD V.A. A ø	LOAD V.A. B ø	pos. no.	bkr. no.	trip amp	bkr. pole	wire size	cd	service
1	1	20	1	12	3/4	EXIST. BREAKER	1920		2	2	20	1	12	3/4	EXIST. BREAKER
3	3	20	1	12	3/4	EXIST. BREAKER		1920	4	4	20	1	12	3/4	EXIST. BREAKER
5	5	20	1	12	3/4	EXIST. BREAKER	1920		6	6	20	1	12	3/4	EXIST. BREAKER
7	7	20	1	12	3/4	EXIST. BREAKER		1920	8	8	20	1	12	3/4	EXIST. BREAKER
9	9	20	1	12	3/4	EXIST. BREAKER	1920		10	10					SPACE
11	11					SPACE		-	12	12					"
13	13					"	-		14	14					"
15	15					"		-	16	16					"
17	17					"	-		18	18					"
						connected V.A. per phase	9,600	7,680							
						total amps per phase	80	64							

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ELECTRICAL RISER DIAGRAM & PANEL SCHEDULES

SHEET NUMBER

E4.0

TYPICAL PANELBOARD PLAQUE

(INDICATE PANEL DESIGNATION)
__/__ VOLTS __ PHASE __ WIRE
__ AMPS MAIN __
FED FROM
(INDICATE FEEDER ORIGINATION I.D.)
(PANEL AND CIRCUIT NO.)

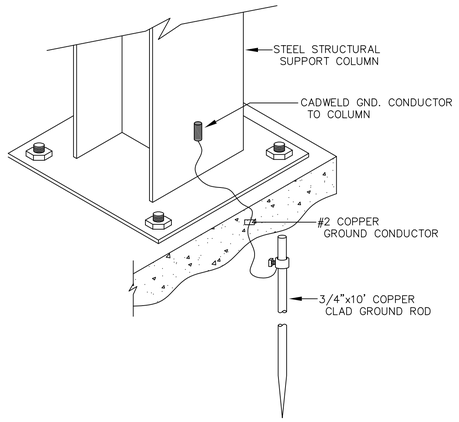
TYPICAL DISCONNECT PLAQUE

(INDICATE EQUIPMENT DESCRIPTION)
FUSED AT __ AMPERES
FED FROM
(INDICATE FEEDER ORIGINATION I.D.)
(PANEL AND CIRCUIT NO.)

SEE SPECIFICATIONS FOR MATERIALS, COLORS SIZE LETTERING, ETC.

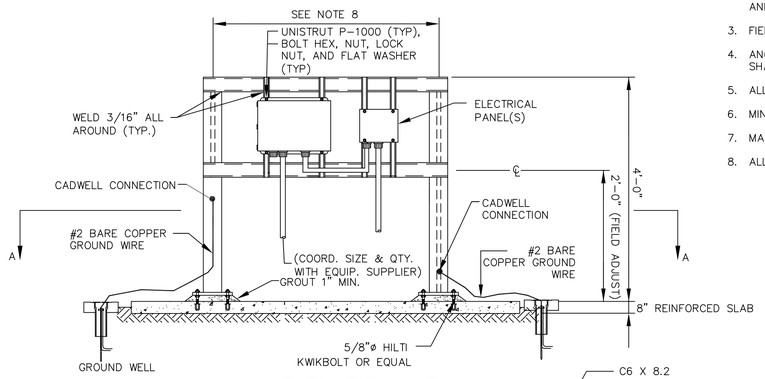
ATTACH PLAQUES USING INDUSTRIAL GRADE DOUBLE FACE ADHESIVE.

1 DETAIL - EQUIPMENT SIGNAGE
SCALE = N.T.S.



2 DETAIL - SUPPORT RACK STEEL GROUNDING
SCALE = N.T.S.

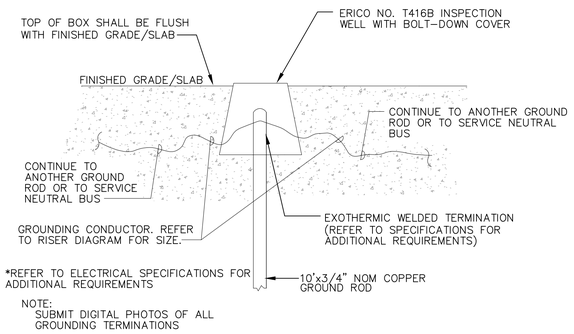
THIS DETAIL IS INTENDED TO SHOW TYPICAL EQUIPMENT MOUNTING TECHNIQUES. ALL EQUIPMENT IS NOT SHOWN FOR CLARITY.



ELEVATION VIEW
NOT TO SCALE

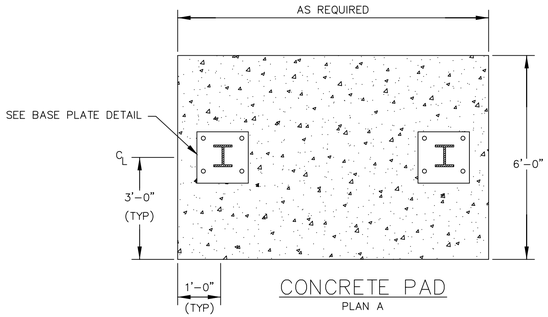
NOTES:

1. VERIFY ALL DIMENSIONS BEFORE FABRICATION.
2. REMOVE BURRS AND GRIND SHARP CORNERS AND EDGES. TOUCH UP AS REQUIRED AFTER WELDING AND DRILLING.
3. FIELD GROUT UNDER BASE PLATE.
4. ANCHOR BOLTS SHALL BE 4 INCH IN CONCRETE AND SHALL BE PROVIDED WITH HEX NUTS AND WASHERS.
5. ALL ALUMINUM SHALL BE 6061.
6. MINIMUM CONCRETE STRENGTH SHALL BE 3000 PSI.
7. MAXIMUM OF 6 FEET BETWEEN SUPPORT COLUMNS.
8. ALL UNISTRUT SHALL BE ALUMINUM TYPE.

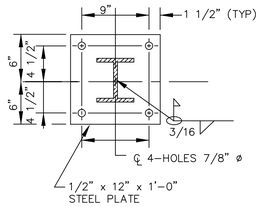


NOTE:
SUBMIT DIGITAL PHOTOS OF ALL GROUNDING TERMINATIONS

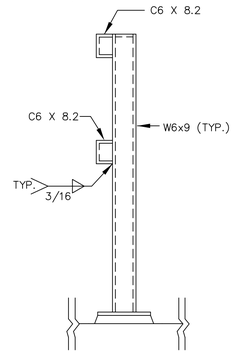
3 DETAIL - GROUNDING ROD
SCALE = N.T.S.



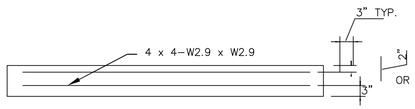
CONCRETE PAD
PLAN A



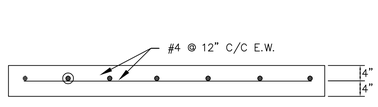
BASE PLATE DETAIL
NOT TO SCALE



SIDE VIEW
NOT TO SCALE

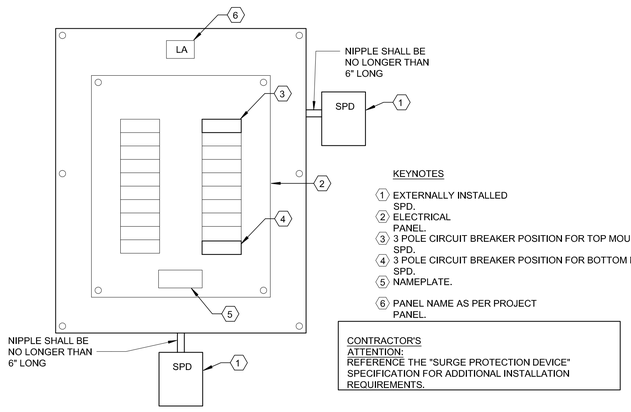


WEB REINFORCEMENT
NOT TO SCALE



REBAR
NOT TO SCALE

4 DETAIL - CONCRETE PAD
SCALE = N.T.S.



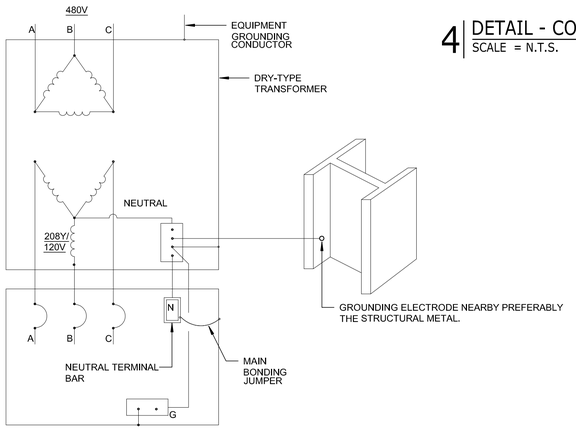
KEYNOTES

1. EXTERNALLY INSTALLED SPD.
2. ELECTRICAL PANEL.
3. 3 POLE CIRCUIT BREAKER POSITION FOR TOP MOUNTED SPD.
4. 3 POLE CIRCUIT BREAKER POSITION FOR BOTTOM MOUNTED SPD.
5. NAMEPLATE.
6. PANEL NAME AS PER PROJECT PANEL.

CONTRACTOR'S ATTENTION:
REFERENCE THE "SURGE PROTECTION DEVICE" SPECIFICATION FOR ADDITIONAL INSTALLATION REQUIREMENTS.

VERTICAL ORIENTATION

5 DETAIL - EXTERNAL SPD INSTALLATION
SCALE = N.T.S.

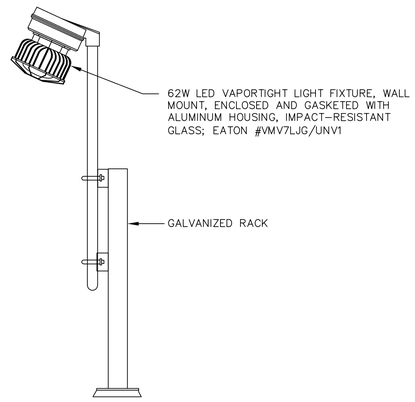


120/208V, 3Ø, 4W PANEL OR FIRST DISCONNECT

NOTE:
SUBMIT DIGITAL PHOTOS OF ALL GROUNDING TERMINATIONS

* REFER TO SPECIFICATION SECTION "GROUNDING" FOR ADDITIONAL REQUIREMENTS

6 DETAIL - TRANSFORMER GROUNDING
SCALE = N.T.S.



7 DETAIL - RACK-MOUNTED LIGHT FIXTURE
SCALE = N.T.S.

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E5.0