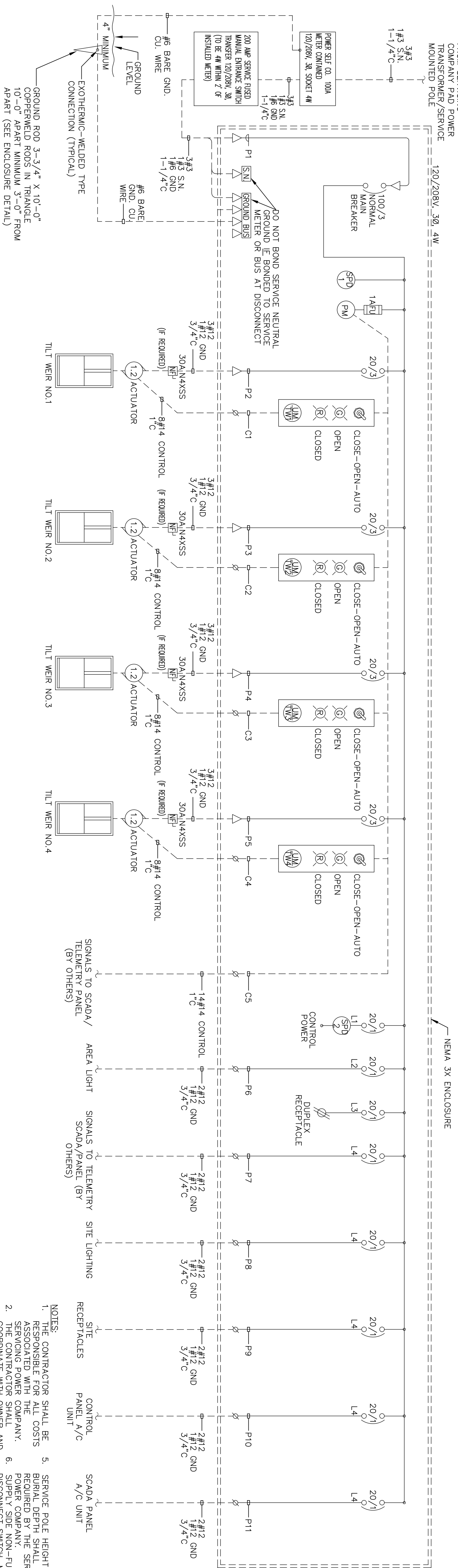


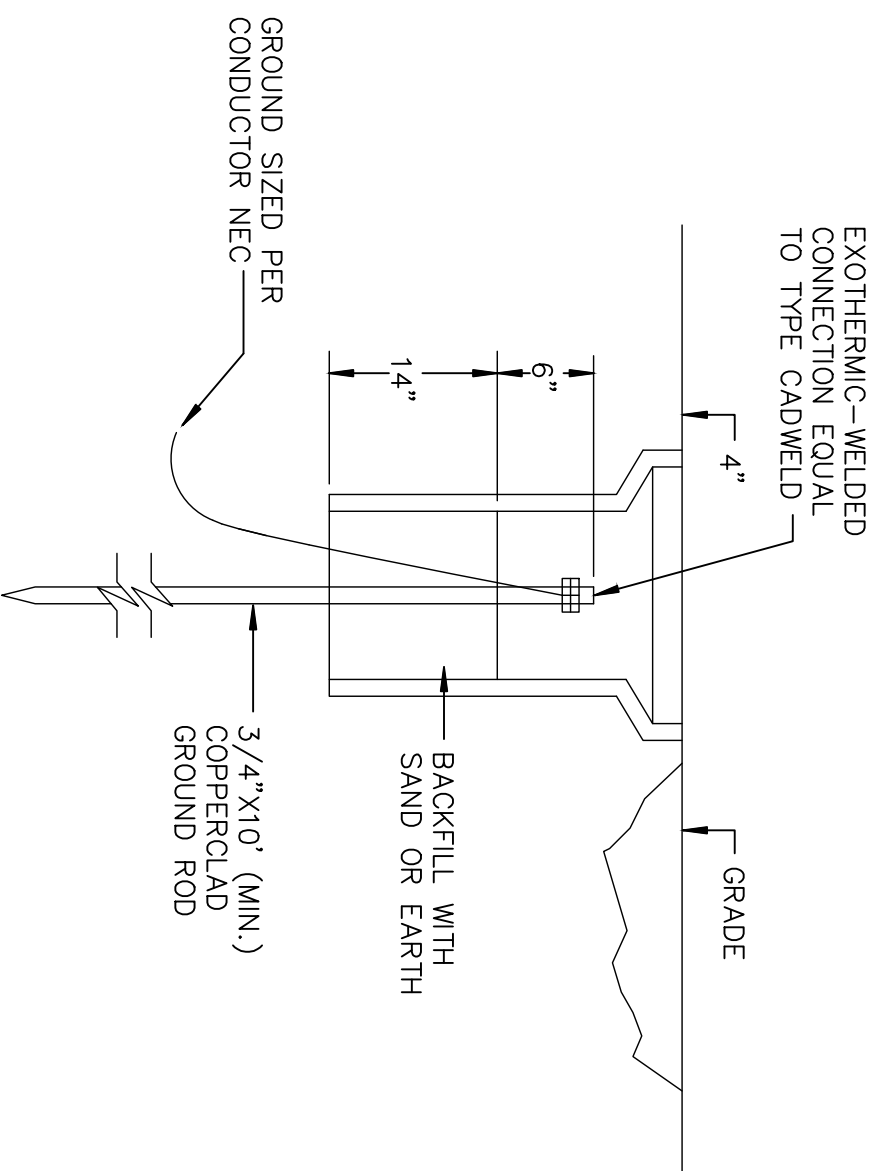
WEIR CONTROL PANEL ONE LINE POWER DIAGRAM AND PROCESS AND INSTRUMENT DIAGRAM (P&ID)

SCALE: NONE



SINGLE GROUND WELL DETAIL FOR GROUND GRID (TYPICAL OF THREE)

SCALE: NONE

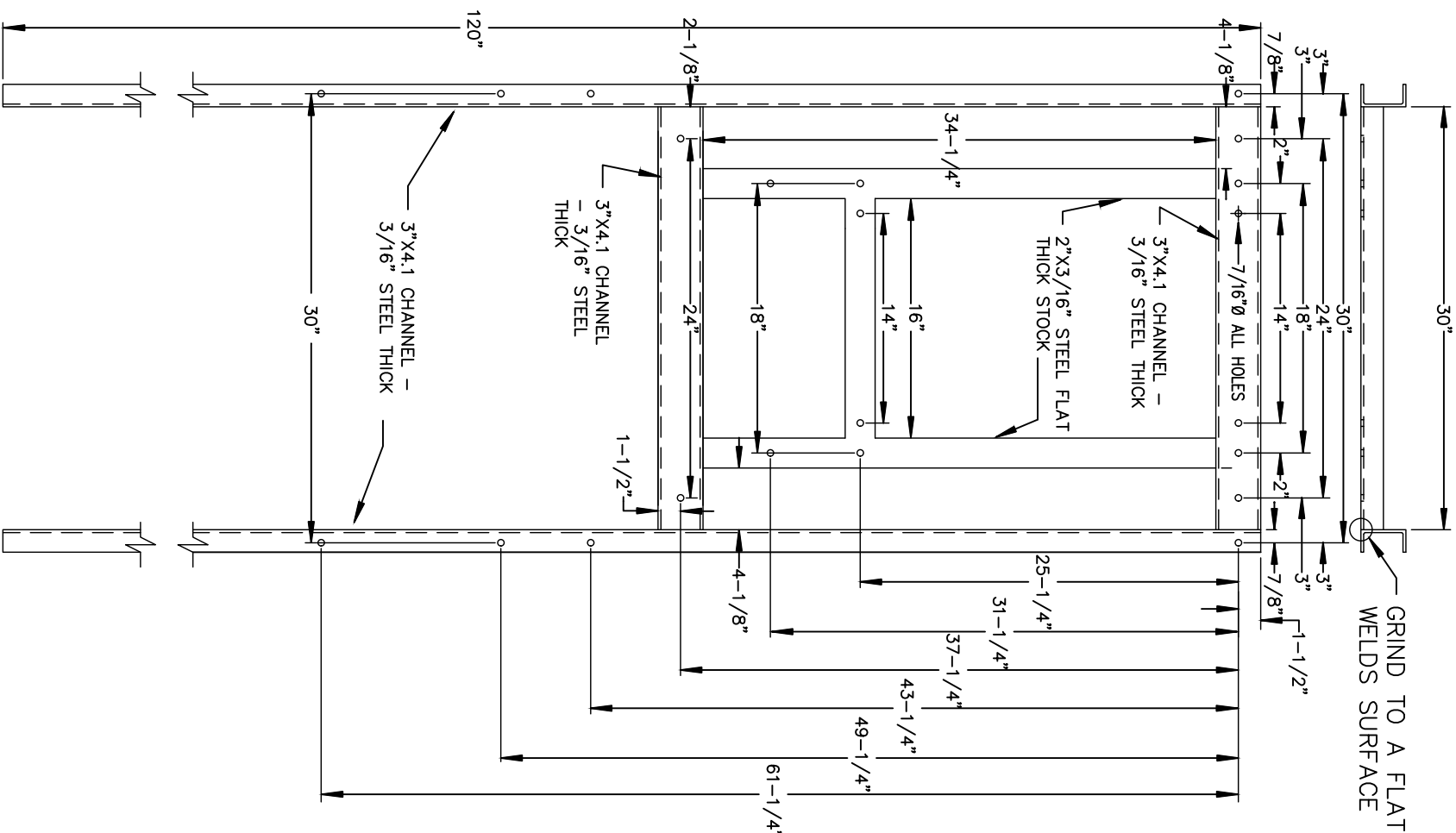


- GROUNDING NOTES:**
- GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 250 ALONG WITH ANY LOCAL AND STATE CODES. CONDUIT WORK, BUILINGS, FENCES, MOTORS, PANELBOARDS, AND ALL ELECTRICAL EQUIPMENT ARE TO BE EFFECTIVELY AND PERMANENTLY GROUND.
 - FEEDER CONDUITS SHALL PROVIDE A GOOD PATH TO SYSTEM GROUND.
 - GROUNDING SYSTEM RESISTANCE TO GROUND OF 25 OHMS OR LESS SHALL TO CONSIDERED AS THE MINIMUM AND BE RESISTANCE OBTAINED FROM TEST REPORTS OF 5 GROUND RESISTANCE.

- NOTES:**
- ALL HOLES SHALL BE 7/16\"/>
 - AFTER FABRICATION, RACK SHALL BE HOT DIPPED GALVANIZED.
 - LEGS WILL BE SET IN 8\"/>
 - WHEN RACK IS INSTALLED ON AN EXISTING CONCRETE PAD, MODIFY THE RACK TO HAVE: 8\"/>
 - 3/16\"/>
 - CONCRETE WITH (4) 3/8\"/>
 - MOUNT PANEL WITH 3/8\"/>
 - A 96\"/>
 - WASHERS, ENCLOSES UP TO 48\"/>
 - IN SANDY SOIL FOR ENCLOSES TALLER THAN 48\"/>
 - OR LOCATED IN SANDY SOIL, USE A 120\"/>
 - CUT-OFF LENGTH IS NOT REQUIRED.

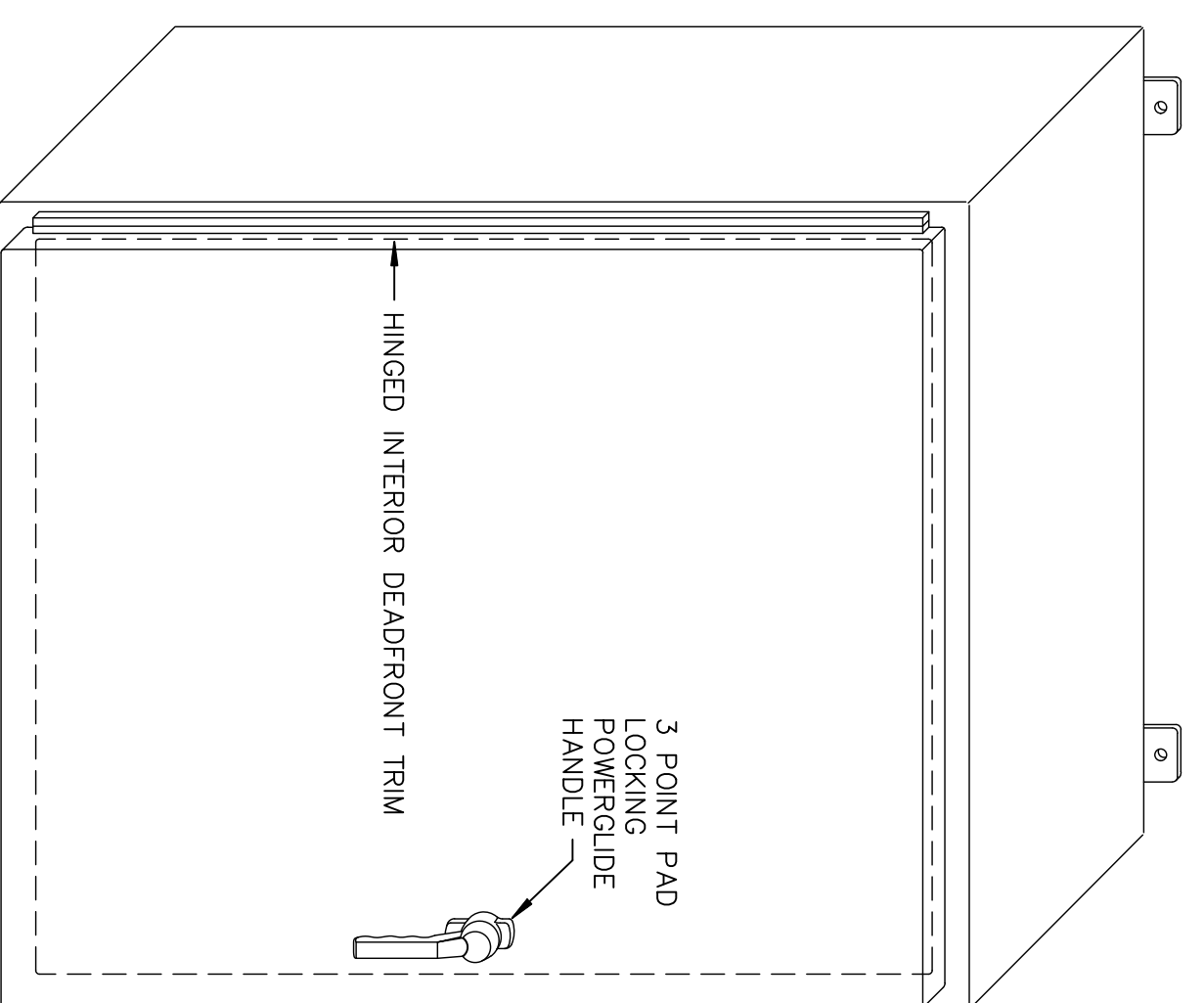
NEMA 3X ENCLOSURE GALVANIZED MOUNTING RACK DETAIL

SCALE: NONE



WEIR CONTROL PANEL ENCLOSURE DETAIL

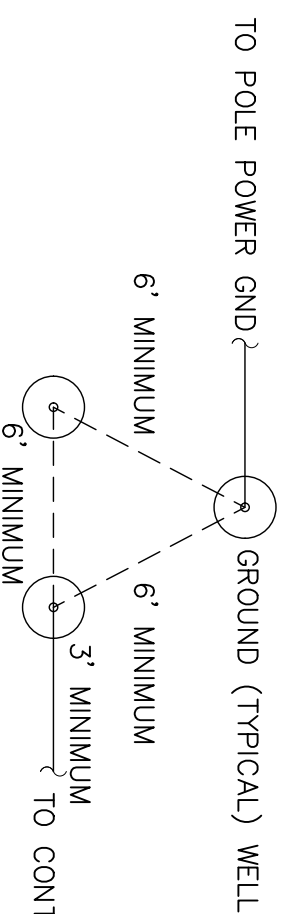
SCALE: NONE



- NOTES:**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE SERVICING POWER COMPANY.
 - THE CONTRACTOR SHALL COORDINATE WITH OWNER AND ENGINEER TO DETERMINE WHETHER THE ELECTRICAL SERVICE TO BE OVERHEAD OR UNDERGROUND.
 - SERVICE POLE/PADMOUNT TRANSFORMER SHALL BE INSTALLED PER INSURANCE COMPANY REQUIREMENTS.
 - RESPONSIBLE FOR GROUND GRID VERIFY PROPER GROUNDING OF ALL ELECTRICAL EQUIPMENT. ALL GROUNDING SHALL HAVE A MAXIMUM RESISTANCE OF 25 OHMS.
 - FENCE SURROUNDING PROJECT SITE SHALL BE GROUND WITH A GROUND ROD AT EACH FIXED GATE POST AND AT EACH CORNER POST.
 - SERVICE POLE HEIGHT AND BURIAL DEPTH SHALL BE AS REQUIRED BY THE SERVICING POWER COMPANY.
 - SUPPLY SIDE NON-FUSED DISCONNECT SWITCH, METER BASE, AND FUSED DISCONNECT SWITCH, SHALL BE INSTALLED PER SERVING OWNERS REQUIREMENTS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR GROUND GRID VERIFY PROPER GROUNDING OF ALL ELECTRICAL EQUIPMENT. ALL GROUNDING SHALL HAVE A MAXIMUM RESISTANCE OF 25 OHMS.
 - FENCE SURROUNDING PROJECT SITE SHALL BE GROUND WITH A GROUND ROD AT EACH FIXED GATE POST AND AT EACH CORNER POST.

GROUND DETAIL OVERVIEW

SCALE: NONE



- LEGEND**
- SPD SURGE PROTECTIVE DEVICE - (SEE COMPONENT SPECIFICATIONS)
 - PM PHASE MONITOR - (SEE COMPONENT SPECIFICATIONS)
 - UM TILT WEIR CONTROLLER - (SEE COMPONENT SPECIFICATIONS)

SYMBOL LEGEND

- AB5 DOOR/DEADFRONT MOUNTED DEVICE
- AB3 BACKPLATE MOUNTED DEVICE
- AB2 BACKPLATE MOUNTED DEVICE
- AB1 BACKPLATE MOUNTED DEVICE
- UB JUNCTION BOX
- PDB POWER DISTRIBUTION BLOCK
- ABC SCADA EQUIPMENT
- GRND GROUND
- DISCONNECT SWITCH



WARNING

IF THIS BAR DOES NOT MEASURE 1" (BASED ON 22"x34" SHEET) THEN DRAWING IS NOT TO SCALE.



MARK	DESCRIPTION	DATE	BY	CHKD

DESIGNED BY:	SPG
DRAWN BY:	SPG
CHECKED BY:	MLT

DATE:	08/24/22
DETAILED BY:	SPG
HDC PROJECT NO.	2021-14

NEW RIVER TILTING WEIR STRUCTURE	
ASCENSION PARISH	LOUISIANA
EAST ASCENSION CONSOLIDATION GRAVITY DRAINAGE DISTRICT 1	
ASCENSION PARISH	
ELECTRICAL CONTROLS DIAGRAM	

