ADDENDUM NO. 1
September 25, 2023

PROJECT: **CITY OF ASPERMONT**
TDA LIFT STATION IMPROVEMENTS

BID DATE: **OCTOBER 6, 2023**

The following changes and/or additions shall be made to the Plans, Specifications, and Contract Documents for the above referenced project. Bidder shall acknowledge receipt of this Addendum by signing below and returning this Addendum with the Bid.

1) Plans

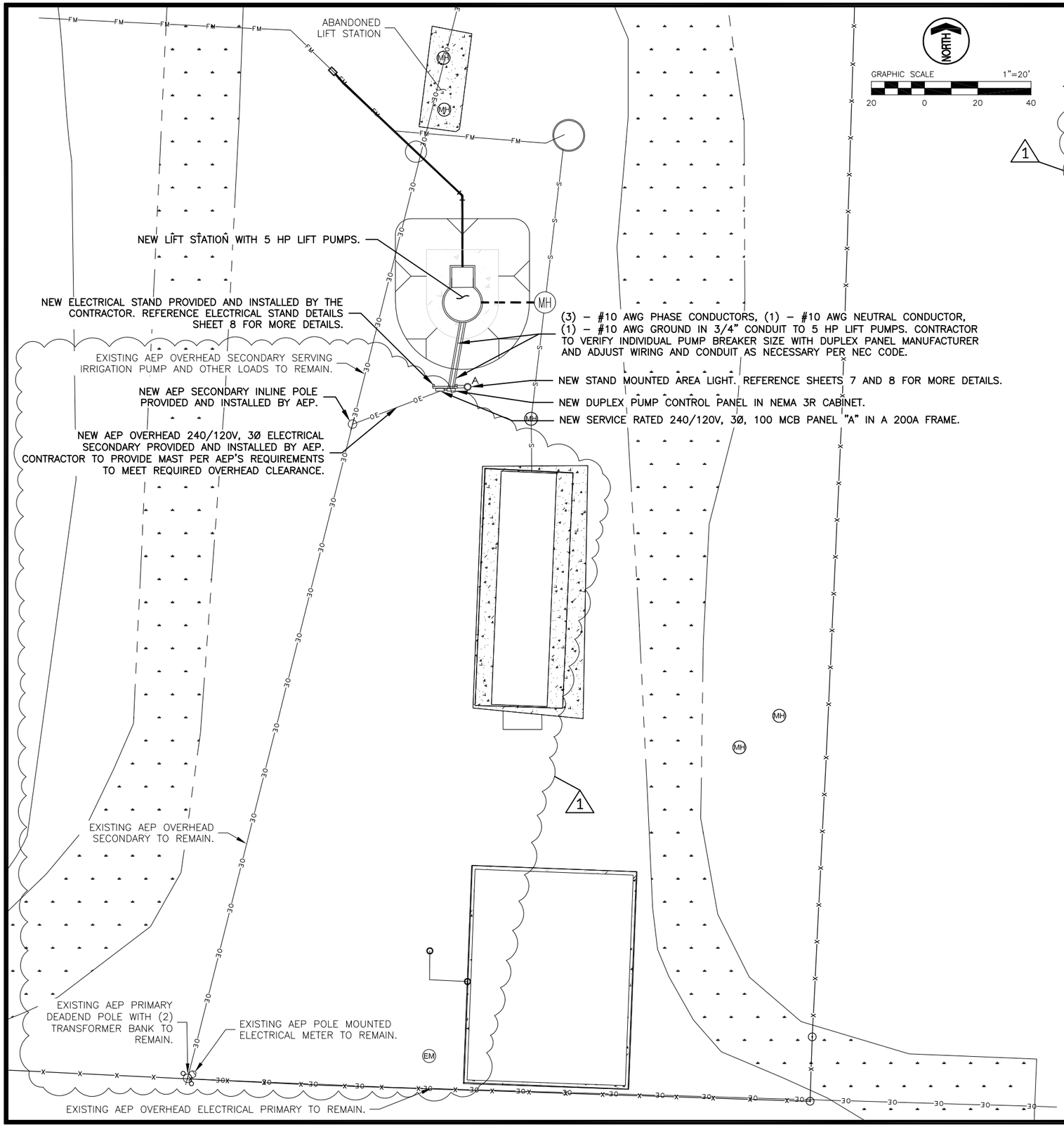
a) 6-8 – All electrical sheets have been modified and reissued. Please see all attached electrical sheets.

Prepared by:

JACOB | MARTIN
TBPE Firm No. 2448

_____
Bidder's Acknowledgment

_____
Date



ELECTRICAL SITE PLAN NOTES:

1. REFERENCE SHEET 07 FOR ELECTRICAL RISER DIAGRAM OF THE LS.
2. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH AEP FOR THE NEW ELECTRICAL SERVICE. CONTRACTOR IS TO VERIFY AEP'S COST FOR THE ELECTRICAL SERVICE AND NOTIFY THE ENGINEER (JACOB MARTIN). CONTACT PEOPLE FOR AEP ARE MICHAEL MORRIS (PRIMARY CONTACT) (EMAIL: MWMORRIS@AEP.COM, PHONE NUMBER: (940)–345–0164) AND ATHAN HIMMELSTEIN (SECONDARY CONTACT) (EMAIL: ADHIMMELSTEIN@AEP.COM, PHONE NUMBER: (325)–674–7290)
3. CONTRACTOR TO MAINTAIN 3' WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT PER NEC CODE.
4. ALL EXISTING UTILITIES TO BE LOCATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION START.
5. CONTRACTOR TO VERIFY DUPLEX CONTROL PANEL BREAKER SIZE AND ADJUST BREAKER, WIRING, AND CONDUIT AS NECESSARY PER NEC CODE.
6. CONTRACTOR TO VERIFY BREAKER SIZE OF INDIVIDUAL LIFT PUMPS WITH CONTROL PANEL MANUFACTURER AND ADJUST WIRING AND CONDUIT AS NECESSARY PER NEC CODE.

LEGEND

$	LIGHT SWITCH
⨀	DUPLEX OUTLET
PANEL C–5,7 BREAKER # HOMERUN	
UE UE	UNDERGROUND ELECTRICAL SERVICE
OE OE	OVERHEAD ELECTRICAL SERVICE

GENERAL ELECTRICAL NOTES:

1. NFPA 70 – NATIONAL ELECTRIC CODE: MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.
2. ALL WIRING USED FOR AC CIRCUITS SHALL BE A MINIMUM SIZE OF 12 GAUGE AND A MINIMUM OF 3/4" CONDUIT.
3. ALL CIRCUITS SHALL CONTAIN A GROUND WIRE.
4. EACH CIRCUIT SHALL CONTAIN ITS OWN NEUTRAL WIRE. NO NEUTRAL SHARING SHALL BE ALLOWED.
5. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE SHOWN ON PLAN. USE ONLY XHHW WIRE.
6. ALL UNDERGROUND CIRCUITS SHALL BE RAN IN SCH 40 PVC CONDUIT ABOVE GRADE EMT CONDUIT RATED FOR SUNLIGHT.
7. CLEAR, READABLE PANEL DIRECTORIES ARE REQUIRED FOR ALL NEW PANELS & EXISTING PANELS THAT ARE MODIFIED UNDER THIS PROJECT.
8. LABEL ALL NEW PANELS, TRANSFORMERS, & DISCONNECT SWITCHES WITH ENGRAVED PLASTIC SIGNS, RED BACKGROUND WITH WHITE LETTERS. USE MINIMUM SIZE OF 4"X2". SCREW OR RIVIT TO PANEL. SIGN NEEDS TO GIVE PANEL NAME, AMPERAGE, VOLTAGE, & PHASE.
9. DUPLEX ELECTRICAL RECEPTACLES TO BE RATED FOR 20 AMPS. PROVIDE GRAY OUTLETS WITH STAINLESS STEEL COVER
10. ALL OUTLETS TO BE TAMPER RESISTANT.
11. ALL EXTERIOR OUTLETS TO BE GFI PROTECTED WEATHERPROOF WHEN IN USE.
12. COORDINATE THE LOCATIONS OF ALL ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, LIGHTS, FIXED EQUIPMENT, ETC. WITH ARCHITECTURAL PLANS, AND ELEVATION PLANS PRIOR TO ROUGH–IN–WORK. DO NOT SCALE ELECTRICAL DRAWINGS.
13. ELECTRICAL DESIGN TO PROVIDE BRANCH CIRCUITS, PHASES, AMPACITY AND OVERCURRENT PROTECTION CONFORMING TO MANUFACTURE'S SPECIFICATIONS AVAILABLE AT TIME OF DESIGN. IF REQUIREMENTS OF EQUIPMENT ACTUALLY PROVIDED UNDER CONTRACT FOR CONSTRUCTION ARE DIFFERENT, CONTRACTOR SHALL MAKE ALL CHANGES REQUIRED WITHOUT INCREASE IN THE CONTRACT AMOUNT. SUCH CHANGES MAY INCLUDE, BUT ARE NOT LIMITED TO: SIZE OF WIRES, SIZE OF CONDUIT, NUMBER, TYPE AND SIZE OF CIRCUIT BREAKERS, FUSE PROTECTION AND ADDITIONAL DISCONNECT SWITCHES.
14. EXISTING UTILITIES AND OTHER UNDERGROUND OR CONCEALED ITEMS ARE SHOWN FOR REFERENCE ONLY. ADDITIONAL ITEMS NOT SHOWN MAY BE PRESENT AND LOCATIONS MAY DIFFER FROM THAT SHOWN. CONTRACTOR SHALL EXCAVATE SO AS TO AVOID DAMAGE TO EXISTING ITEMS, SHALL NOTIFY OWNER AND ENGINEER AT ONCE OF ALL DAMAGE AND SHALL REPAIR DAMAGE TO ORIGINAL CONDITION TO THE SATISFACTION OF OWNER AND ENGINEER AT NO CHANGE IN CONTRACT AMOUNT.
15. CONTRACTOR SHALL PROVIDE SUITABLE MATERIALS AND CONSTRUCTION METHODS TO PREVENT DAMAGE TO CONDUIT SWEEPS RESULTING FROM INSTALLATION OF LARGE CONDUCTORS.
16. ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT AND CONDUCTOR SIZE PRIOR TO ORDERING AND INSTALLATION OF ANY EQUIPMENT OR CONDUCTORS. REPORT ALL DISCREPANCIES TO THE ENGINEER.
17. THE CONTRACTOR WILL LABEL THE SERVICE DISCONNECT WITH FOLLOWING " THE MAXIMUM AVAILABLE FAULT CURRENT IS_____ AMPS. CALCULATED_____, 2023" NOTE: CALCULATED"#" AND DATE TO BE SUPPLIED BY JACOB MARTIN. THE LABEL MUST "BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED AS STATED IN THE NEC PARAGRAPH 110.24

STATE OF TEXAS
EDWARD R. WELLS
66579
LICENSED PROFESSIONAL ENGINEER
09/21/23

ISSUED FOR BID

JACOB MARTIN
TBPELS FIRM # 10194493
TBAE FIRM # BR 2261
TBPE FIRM # 2448

ASPERMONT, TEXAS
LIFT STATION IMPROVEMENTS

ELECTRICAL SITE PLAN

NO.	REVISION	DATE
1	Addendum #1	09/21/2023

PROJECT # 21115
SCALE 1" = 20'
BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.

SEQ. 6/8 SHEET 6

Plot Date: 9/21/2023 11:32 AM
Plotted by: cole carpenter
Save Time: 9/21/2023 11:32 AM
Saved By: ccarpenter
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City of Aspermont Lift Station
New Panel "A" Schedule

Main Breaker Rating:	100	AMPS	3 Phase 4 Wire	Conductor Color Code	Load
M.L.O. Bus Rating:	200	AMPS	240/120 VAC	Phase 1 ---------- BLACK	Phase 1 Load: 37
Sym. Inter. Cap.:	> 9k	AMPS		Phase 2 ---------- RED (High Leg)	Phase 2 Load: 35
				Phase 3 ---------- BLUE	Phase 3 Load: 36
				Neutral ---------- WHITE or GRAY	
				Ground ---------- GREEN	
Surface Mount.:	X		NEMA 1:	Note: High-Leg Identification: Orange & Label	
Flush Mount.:			NEMA 3R: X	"Caution _____ Phase Has ____ Volt to Ground"	
				Note: Contractor to provide and install SPD (Surge Protection Device)	

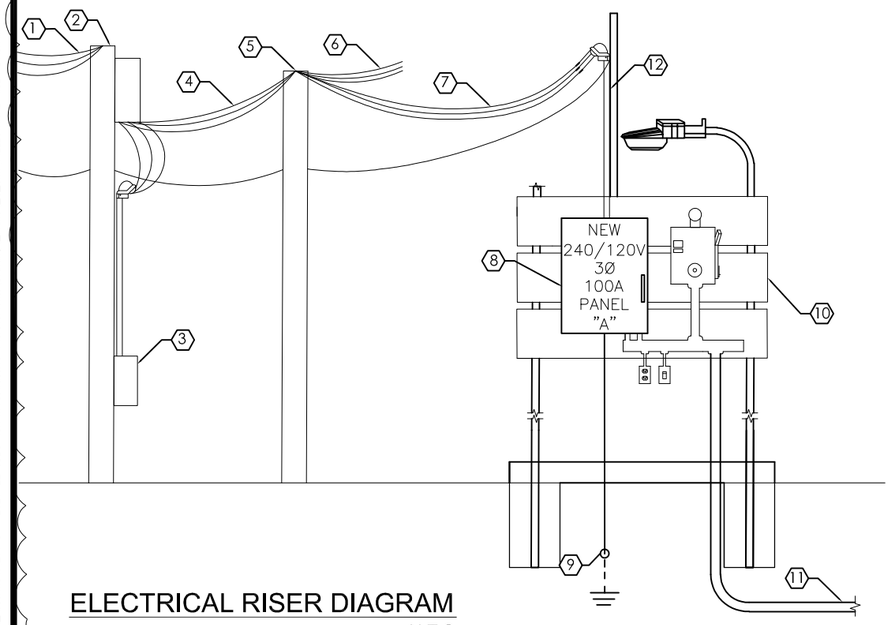
POLE	SERVICE	W	LOAD PHASE 1	LOAD PHASE 2	LOAD PHASE 3	BREAKER POLES	POLE	1	2	3	POLE	SERVICE	W	LOAD PHASE 1	LOAD PHASE 2	LOAD PHASE 3	BREAKER POLES	POLE
1	Stand Mounted Convenience Receptacle	180	2			20 / 1	1	X			2	Duplex Control panel for 5 HP	13868	33			50 / 3	2
3	Heat Tape (Note 1)	180		2		20 / 1	3		X		4	Lift Pumps (Note 2)			33			4
5	Stand LED Service Light	360			3	20 / 1	5			X	6	"				33		6
7	Heat Tape (Note 1)	180	2			20 / 1	7	X			8							8
9							9		X		10							10
11							11			X	12							12
13							13	X			14	SPD						14
15							15		X		16	SPD						16
17							17			X	18	SPD						18

Notes:

1. Contractor is to install the breaker only for this load. No wiring or conduit is to be installed for this load.
2. Contractor is to verify breaker size duplex panel manufacturer and adjust breaker size, wiring, and conduit as necessary per NEC code.

LIGHTING FIXTURE SCHEDULE

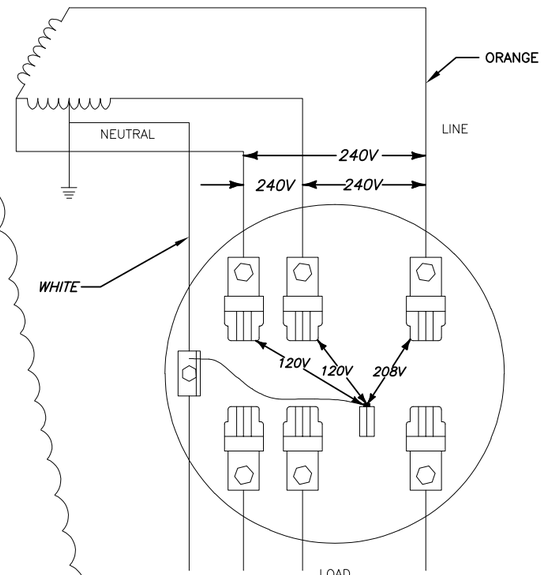
FIXTURE MARK	MANUFACTURER & CATALOG NUMBER	TYPE	LAMPS BULBS	VOLTAGE	SUPPORT	NOTES
A	COOPER MODEL #: ALP90LSFUNVDGY	AREA LIGHT	LED	UNV	POLE MOUNTED	CONTRACTOR TO PROVIDE COOPER CURVED MOUNT MODEL #: EA24 AS REQUIRED FOR MOUNTING. CONTRACTOR TO PROVIDE AND INSTALL SHORTING CAP FOR PHOTOCELL TO OPERATE VIA SINGLE POLE SWITCH.



ELECTRICAL RISER DIAGRAM
N.T.S.

ELECTRICAL NOTES BY REFERENCE (#)

1. EXISTING AEP OVERHEAD ELECTRICAL PRIMARY TO REMAIN.
2. EXISTING AEP PRIMARY DEADEND POLE WITH (2) TRANSFORMER BANK TO REMAIN.
3. EXISTING AEP POLE MOUNTED ELECTRICAL METER TO REMAIN.
4. EXISTING AEP OVERHEAD 240/120V, 3Ø ELECTRICAL SECONDARY TO REMAIN.
5. NEW AEP SECONDARY INLINE POLE PROVIDED AND INSTALLED BY AEP.
6. EXISTING AEP OVERHEAD 240/120V, 3Ø SECONDARY SERVING IRRIGATION PUMP AND OTHER LOADS TO REMAIN.
7. NEW AEP OVERHEAD 240/120V, 3Ø ELECTRICAL SECONDARY PROVIDED AND INSTALLED BY AEP.
8. BOND NEUTRAL TO GROUND IN THIS PANEL.
9. (1) – #8 AWG GROUND IN 1/2" PVC CONDUIT. CADWELD TO ⅝" x 10'–0" COPPER CLAD STEEL GROUND ROD.
10. NEW ELECTRICAL STAND PROVIDED AND INSTALLED BY THE CONTRACTOR. REFERENCE SHEET 8 FOR MORE DETAILS ON THE ELECTRICAL STAND.
11. 2 SETS OF (1 SET FOR EACH PUMP): (3) – #10 AWG PHASE CONDUCTORS, (1) – #10 AWG NEUTRAL CONDUCTOR, (1) – #10 AWG GROUND IN 3/4" CONDUIT FOR NEW 5 HP LIFT PUMPS. CONTRACTOR TO VERIFY INDIVIDUAL PUMP BREAKER SIZE WITH DUPLEX PANEL MANUFACTURER AND ADJUST WIRING AND CONDUIT AS NECESSARY PER NEC CODE.
12. CONTRACTOR TO PROVIDE AND INSTALL NEW MAST AND WEATHERHEAD FOR THE NEW ELECTRICAL SECONDARY. CONTRACTOR TO COORDINATE WITH AEP AND PROVIDE ATTACHMENT HEIGHT RECOMMENDED BY AEP FOR THE ELECTRICAL SECONDARY.



ON A 4 WIRE DELTA CONNECTION, THE PHASE HAVING THE HIGHEST VOLTAGE TO GROUND (HIGH LEG OR WILD LEG) MUST BE CONNECTED TO THE RIGHT HAND TERMINALS OF THE METER SOCKET. IN OTHER LOCATIONS, SUCH AS SERVICE ENCLOSURES, DISCONNECTS, ETC., THE "HIGH LEG" IS CONNECTED TO THE CENTER TERMINAL.

EXISTING AEP ELECTRICAL SERVICE
N.T.S.

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LIFT STATION IMPROVEMENTS

ELECTRICAL RISER DIAGRAM AND SCHEDULES

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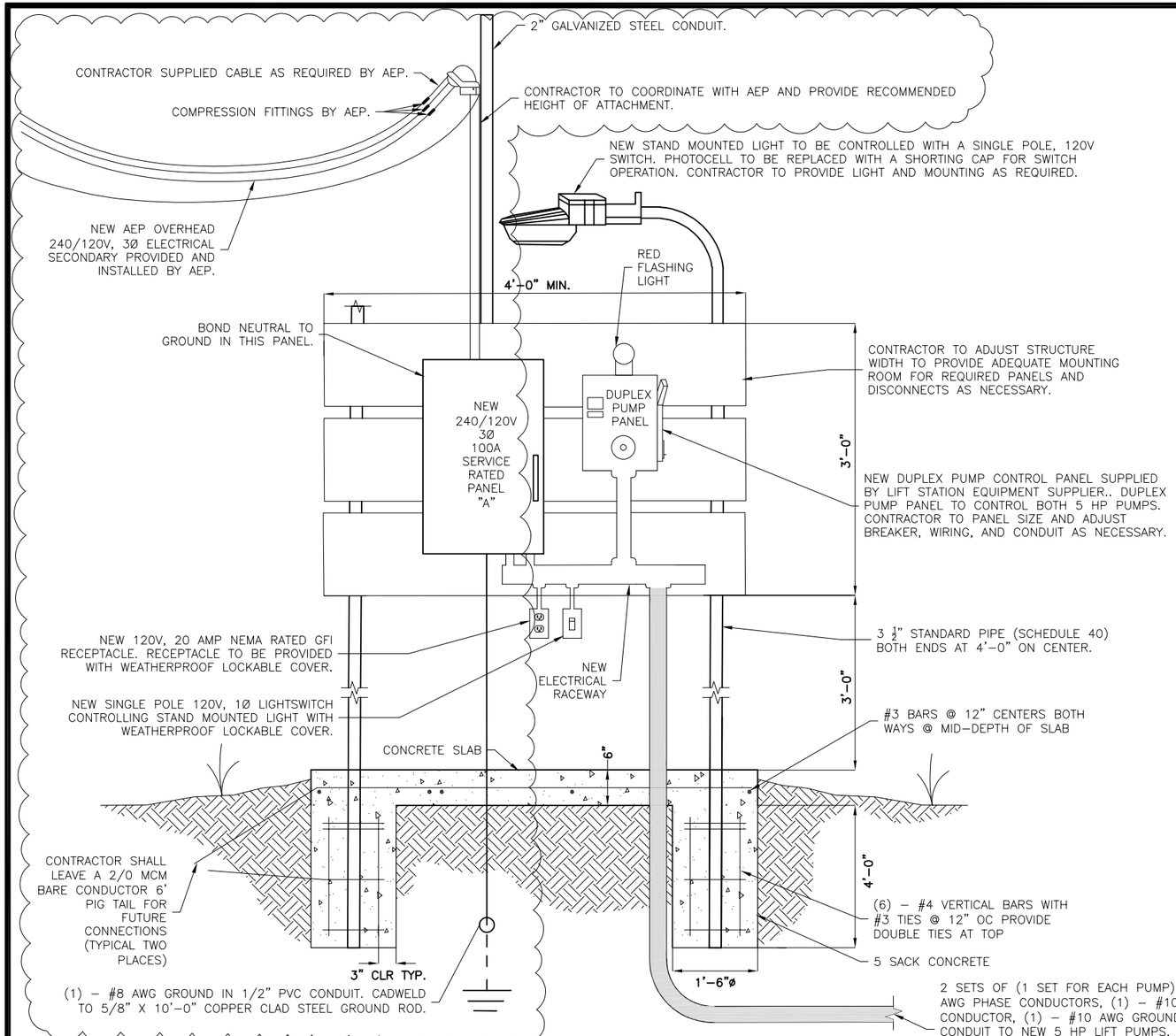
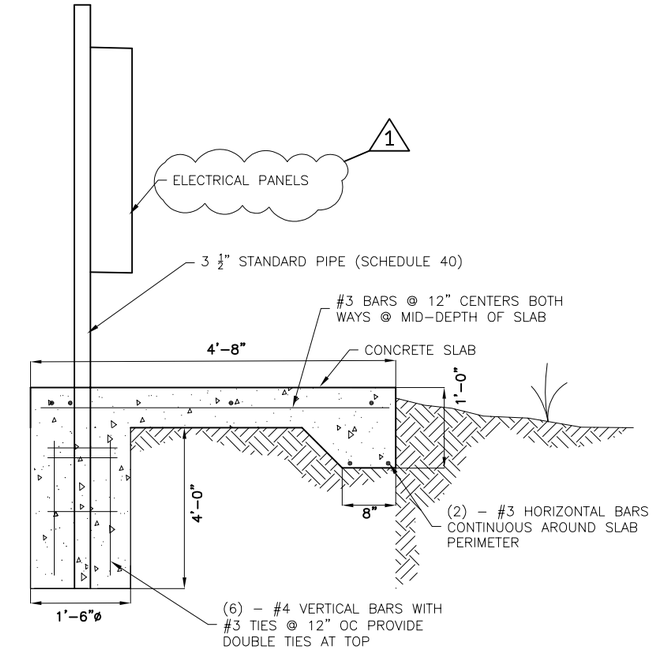
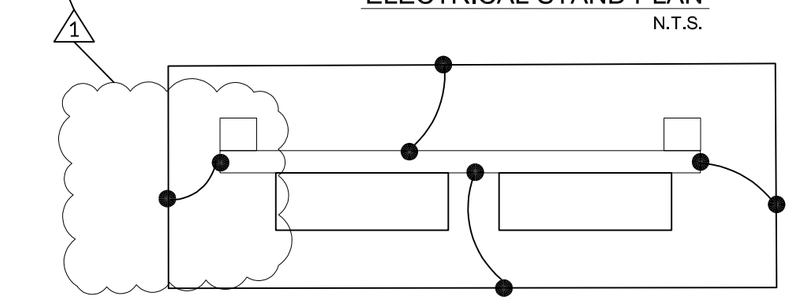
PROJECT # 21115 | SCALE NTS | SEQ. 7/8 | SHEET 7



ELECTRICAL STAND PLAN
N.T.S.



ELECTRICAL STAND PLAN (SIDE VIEW)
N.T.S.



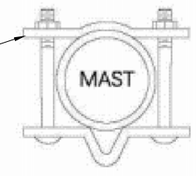
ELECTRICAL STAND GROUNDING PLAN
N.T.S.

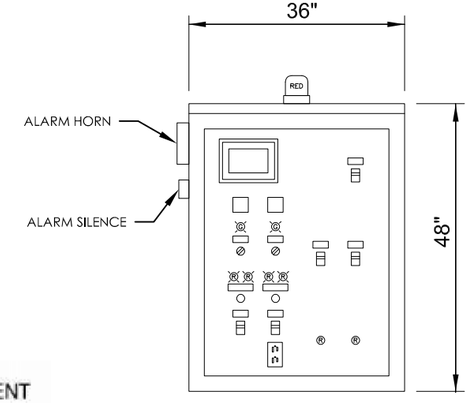
L E G E N D

- GROUND WELL
- GROUND CONNECTION
- 4/0 MCM BARE COPPER GROUNDING CONDUCTOR
- 2/0 MCM BARE COPPER GROUNDING CONDUCTOR

USE 316 SS BOLTS AND FITTINGS. CONTRACTOR TO ENSURE RISER POLE WILL STRUCTURALLY SUPPORT OVERHEAD CABLE.

MAST ATTACHMENT
NOTE 1





INNER DOOR VIEW (SHOWN WITH OUTER DOORS REMOVED)

PUMP CONTROL PANEL DETAIL
N.T.S.

NOTES:

1. PSI 1500CT PUMP CONTROLLER.
2. NEMA 3R STAINLESS STEEL 48"x36" ENCLOSURE.

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ELECTRICAL DETAILS

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PROJECT # 21115 | SCALE NTS

SEQ. 8 / 8 | SHEET 8

Plot Date: 9/21/2023 9:51 AM
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Saved By: ccarpenter
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