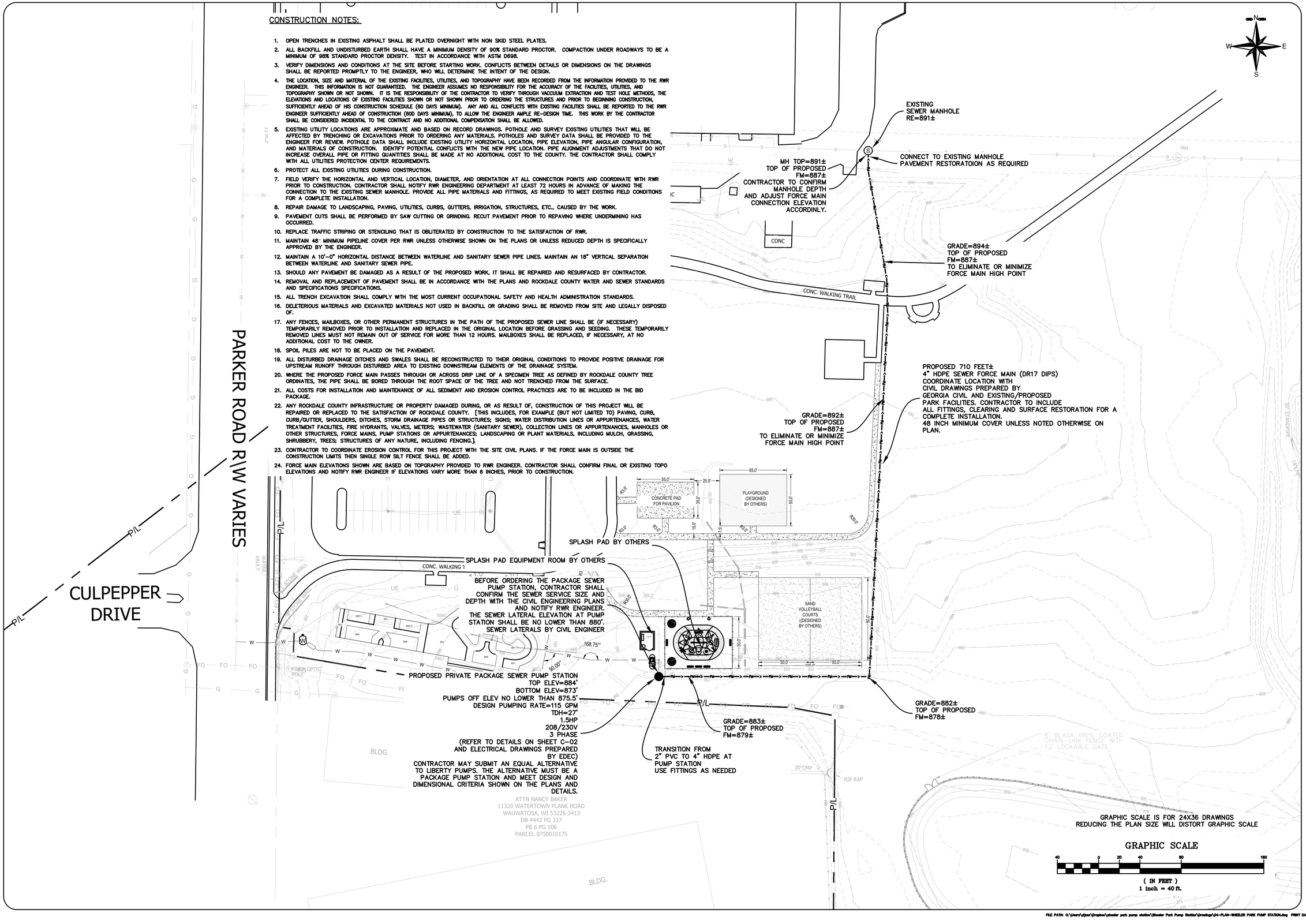
CONSTRUCTION NOTES:

1. OPEN TRENCHES IN EXISTING ASPHALT SHALL BE PLATED OVERNIGHT WITH NON SKID STEEL PLATES.
2. ALL BACKFILL AND UNDISTURBED EARTH SHALL HAVE A MINIMUM DENSITY OF 90% STANDARD PROCTOR. COMPACTION UNDER ROADWAYS TO BE A MINIMUM OF 98% STANDARD PROCTOR DENSITY. TEST IN ACCORDANCE WITH ASTM D698.
3. VERIFY DIMENSIONS AND CONDITIONS AT THE SITE BEFORE STARTING WORK. CONFLICTS BETWEEN DETAILS OR DIMENSIONS ON THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ENGINEER, WHO WILL DETERMINE THE INTENT OF THE DESIGN.
4. THE LOCATION, SIZE AND MATERIAL OF THE EXISTING FACILITIES, UTILITIES, AND TOPOGRAPHY HAVE BEEN RECORDED FROM THE INFORMATION PROVIDED TO THE RWR ENGINEER. THIS INFORMATION IS NOT GUARANTEED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FACILITIES, UTILITIES, AND TOPOGRAPHY SHOWN OR NOT SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THROUGH VACCUUM EXTRACTION AND TEST HOLE METHODS, THE ELEVATIONS AND LOCATIONS OF EXISTING FACILITIES SHOWN OR NOT SHOWN PRIOR TO ORDERING THE STRUCTURES AND PRIOR TO BEGINNING CONSTRUCTION, SUFFICIENTLY AHEAD OF HIS CONSTRUCTION SCHEDULE (60 DAYS MINIMUM). ANY AND ALL CONFLICTS WITH EXISTING FACILITIES SHALL BE REPORTED TO THE RWR ENGINEER SUFFICIENTLY AHEAD OF CONSTRUCTION (60D DAYS MINIMUM), TO ALLOW THE ENGINEER AMPLE RE-DESIGN TIME. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
5. EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND BASED ON RECORD DRAWINGS. POTHOLE AND SURVEY EXISTING UTILITIES THAT WILL BE AFFECTED BY TRENCHING OR EXCAVATIONS PRIOR TO ORDERING ANY MATERIALS. POTHOLES AND SURVEY DATA SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW. POTHOLE DATA SHALL INCLUDE EXISTING UTILITY HORIZONTAL LOCATION, PIPE ELEVATION, PIPE ANGULAR CONFIGURATION, AND MATERIALS OF CONSTRUCTION. IDENTIFY POTENTIAL CONFLICTS WITH THE NEW PIPE LOCATION. PIPE ALIGNMENT ADJUSTMENTS THAT DO NOT INCREASE OVERALL PIPE OR FITTING QUANTITIES SHALL BE MADE AT NO ADDITIONAL COST TO THE COUNTY. THE CONTRACTOR SHALL COMPLY WITH ALL UTILITIES PROTECTION CENTER REQUIREMENTS.
6. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
7. FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION, DIAMETER, AND ORIENTATION AT ALL CONNECTION POINTS AND COORDINATE WITH RWR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY RWR ENGINEERING DEPARTMENT AT LEAST 72 HOURS IN ADVANCE OF MAKING THE CONNECTION TO THE EXISTING SEWER MANHOLE. PROVIDE ALL PIPE MATERIALS AND FITTINGS, AS REQUIRED TO MEET EXISTING FIELD CONDITIONS FOR A COMPLETE INSTALLATION.
8. REPAIR DAMAGE TO LANDSCAPING, PAVING, UTILITIES, CURBS, GUTTERS, IRRIGATION, STRUCTURES, ETC., CAUSED BY THE WORK.
9. PAVEMENT CUTS SHALL BE PERFORMED BY SAW CUTTING OR GRINDING. RECUT PAVEMENT PRIOR TO REPAVING WHERE UNDERMINING HAS OCCURRED.
10. REPLACE TRAFFIC STRIPING OR STENCILING THAT IS OBLITERATED BY CONSTRUCTION TO THE SATISFACTION OF RWR.
11. MAINTAIN 48" MINIMUM PIPELINE COVER PER RWR UNLESS OTHERWISE SHOWN ON THE PLANS OR UNLESS REDUCED DEPTH IS SPECIFICALLY APPROVED BY THE ENGINEER.
12. MAINTAIN A 10'-0" HORIZONTAL DISTANCE BETWEEN WATERLINE AND SANITARY SEWER PIPE LINES. MAINTAIN AN 18" VERTICAL SEPARATION BETWEEN WATERLINE AND SANITARY SEWER PIPE.
13. SHOULD ANY PAVEMENT BE DAMAGED AS A RESULT OF THE PROPOSED WORK, IT SHALL BE REPAIRED AND RESURFACED BY CONTRACTOR.
14. REMOVAL AND REPLACEMENT OF PAVEMENT SHALL BE IN ACCORDANCE WITH THE PLANS AND ROCKDALE COUNTY WATER AND SEWER STANDARDS AND SPECIFICATIONS SPECIFICATIONS.
15. ALL TRENCH EXCAVATION SHALL COMPLY WITH THE MOST CURRENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS.
16. DELETERIOUS MATERIALS AND EXCAVATED MATERIALS NOT USED IN BACKFILL OR GRADING SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF.
17. ANY FENCES, MAILBOXES, OR OTHER PERMANENT STRUCTURES IN THE PATH OF THE PROPOSED SEWER LINE SHALL BE (IF NECESSARY) TEMPORARILY REMOVED PRIOR TO INSTALLATION AND REPLACED IN THE ORIGINAL LOCATION BEFORE GRASSING AND SEEDING. THESE TEMPORARILY REMOVED LINES MUST NOT REMAIN OUT OF SERVICE FOR MORE THAN 12 HOURS. MAILBOXES SHALL BE REPLACED, IF NECESSARY, AT NO ADDITIONAL COST TO THE OWNER.
18. SPOIL PILES ARE NOT TO BE PLACED ON THE PAVEMENT.
19. ALL DISTURBED DRAINAGE DITCHES AND SWALES SHALL BE RECONSTRUCTED TO THEIR ORIGINAL CONDITIONS TO PROVIDE POSITIVE DRAINAGE FOR UPSTREAM RUNOFF THROUGH DISTURBED AREA TO EXISTING DOWNSTREAM ELEMENTS OF THE DRAINAGE SYSTEM.
20. WHERE THE PROPOSED FORCE MAIN PASSES THROUGH OR ACROSS DRIP LINE OF A SPECIMEN TREE AS DEFINED BY ROCKDALE COUNTY TREE ORDINATES, THE PIPE SHALL BE BORED THROUGH THE ROOT SPACE OF THE TREE AND NOT TRENCHED FROM THE SURFACE.
21. ALL COSTS FOR INSTALLATION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INCLUDED IN THE BID PACKAGE.
22. ANY ROCKDALE COUNTY INFRASTRUCTURE OR PROPERTY DAMAGED DURING, OR AS RESULT OF, CONSTRUCTION OF THIS PROJECT WILL BE REPAIRED OR REPLACED TO THE SATISFACTION OF ROCKDALE COUNTY. [THIS INCLUDES, FOR EXAMPLE (BUT NOT LIMITED TO) PAVING, CURB, CURB/GUTTER, SHOULDERS, DITCHES, STORM DRAINAGE PIPES OR STRUCTURES; SIGNS; WATER DISTRIBUTION LINES OR APPURTENANCES, WATER TREATMENT FACILITIES, FIRE HYDRANTS, VALVES, METERS; WASTEWATER (SANITARY SEWER), COLLECTION LINES OR APPURTENANCES, MANHOLES OR OTHER STRUCTURES, FORCE MAINS, PUMP STATIONS OR APPURTENANCES; LANDSCAPING OR PLANT MATERIALS, INCLUDING MULCH, GRASSING, SHRUBBERY, TREES; STRUCTURES OF ANY NATURE, INCLUDING FENCING.].
23. CONTRACTOR TO COORDINATE EROSION CONTROL FOR THIS PROJECT WITH THE SITE CIVIL PLANS. IF THE FORCE MAIN IS OUTSIDE THE CONSTRUCTION LIMITS THEN SINGLE ROW SILT FENCE SHALL BE ADDED.
24. FORCE MAIN ELEVATIONS SHOWN ARE BASED ON TOPOGRAPHY PROVIDED TO RWR ENGINEER. CONTRACTOR SHALL CONFIRM FINAL OR EXISTING TOPO ELEVATIONS AND NOTIFY RWR ENGINEER IF ELEVATIONS VARY MORE THAN 6 INCHES, PRIOR TO CONSTRUCTION.



DAVID L. CERVONE
GEORGIA REGISTERED PROFESSIONAL ENGINEER

ROCKDALE WATER RESOURCES

GEORGIA811 Utilities Protection Center, Inc. Know what's below. Call before you dig.

REVISION

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-	-/-/-	-
-	-/-/-	-
-	-/-/-	-
-	-/-/-	-
-	-/-/-	-

PRIVATE PUMP STATION & FORCE MAIN PLAN

DESIGNED BY:	DAVID CERVONE
DRAWN BY:	WALT BOBO
CHECKED BY:	DAVID CERVONE
DATE:	03/13/2024
FILE NAME:	WHEELER PARK PUMP STA. & FRCE MAIN

SHEET
C-01

FILE PATH: C:\Users\cjon\Dropbox\wheeler park pump station\Wheeler Park Pump Station\Drawings\04-PLAN-WHEELER PARK PUMP STATION.dwg PRINT DATE/TIME: 4/4/2024 8:02 PM BY: cjon

Liberty Pumps
A Family and Employee Owned Company

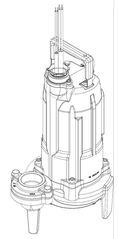
X-Series

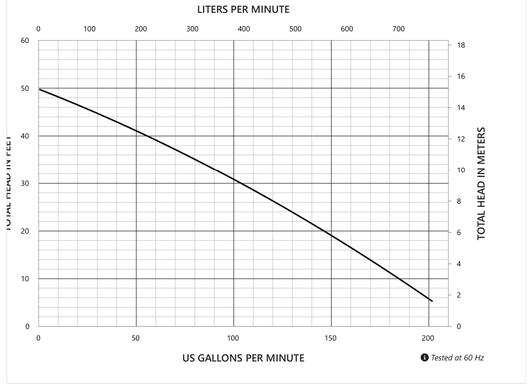
Pump **Specification**

XLE150-Series

1-1⁄2 hp Submersible Sewage Pumps for Hazardous Locations

Class 1, Division 1, Groups C and D
Class 1, Zone 1, Groups IIA and IIB





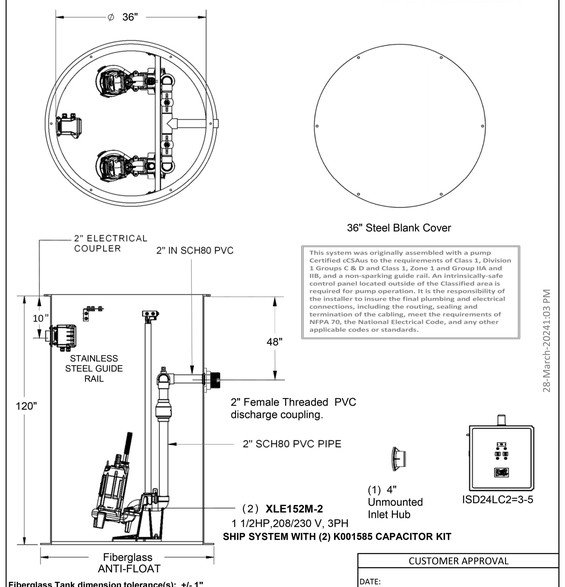
 XLE150_P1 R05/25/2023

*7000 Apple Tree Avenue Bergen NY 14416 ■ **Phone** 1-800-543-2550 ■ **Fax** 1-585-494-1839 ■ **Email** Liberty@LibertyPumps.com ■ **Web** www.LibertyPumps.com*

**NOTE: LIFTER CHAINS AND FLOATS
NOT SHOWN. PUMPS SHIPPED SEPARATELY
TO PREVENT SYSTEM DAMAGE

EPS109612

36X120 DUPLEX XLE152M-2



This system was originally assembled with a pump Certified cCSAus to the requirements of Class 1, Division 1 Groups C & D and Class 1, Zone 1 and Group IIA and IIB, and a non-sparking guide rail. An intrinsically-safe control panel located outside of the Classified area is required for pump operation. It is the responsibility of the installer to insure the final plumbing and electrical connections, including the routing, sealing and termination of the cabling, meet the requirements of NFPA 70, the National Electrical Code, and any other applicable codes or standards.

28-March-2024 1:03 PM

SHIP SYSTEM WITH (2) K001585 CAPACITOR KIT

Fiberglass Tank dimension tolerance(s): +/- 1"

Custom items are non-cancelable once order is placed. 100% restocking fee applies

CUSTOMER APPROVAL
DATE:
NAME(PRINT):
NAME(SIGN):
FINAL CONFIGURATIONS MAY VARY SLIGHLTY FROM THE ILLUSTRATIONS ON THIS PRINT

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LIBERTY PUMPS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF LIBERTY PUMPS IS PROHIBITED.

Liberty Pumps®
7000 APPLE TREE AVENUE
BERGEN, N.Y. 14416
(585) 494-1817

QUOTED PROVIDED BY: J. AUSTIN
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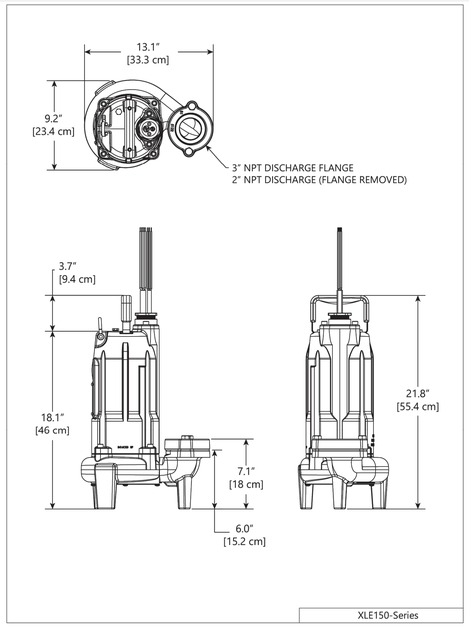
XLE150-Series Dimensional Data



 XLE150_P2 R05/25/2023

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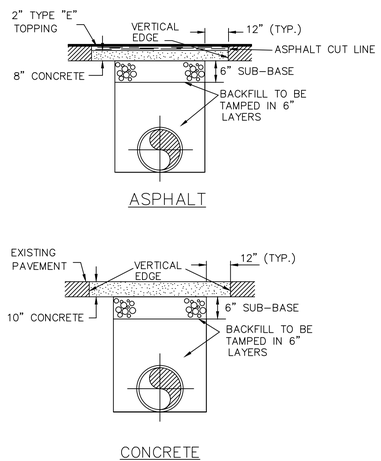
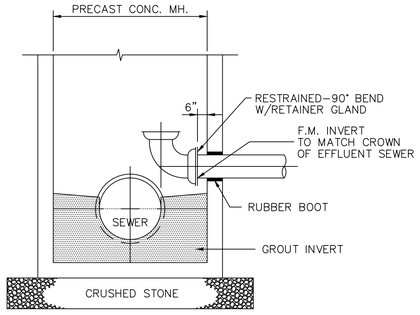


ROCKDALE WATER RESOURCES

PAVEMENT REPLACEMENT
NOT TO SCALE

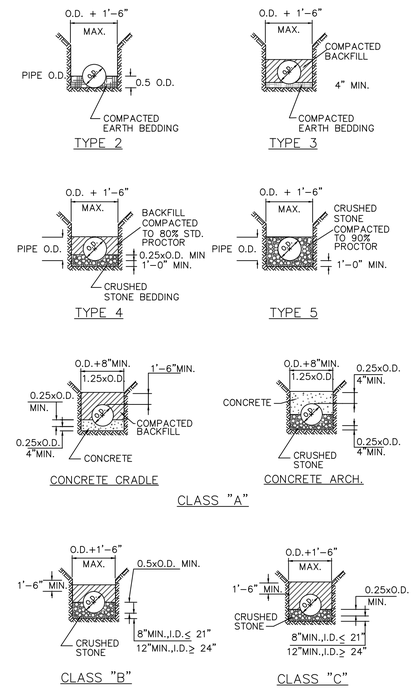
STANDARD DRAWING No. A-14



ROCKDALE WATER RESOURCES

FORCE MAIN CONNECTION DETAIL EXISTING MANHOLE
NOT TO SCALE

STANDARD DRAWING No. B-6



TYPICAL PIPE BEDDING DETAIL
NTS

Licensed Professional Engineer
David Cervone
GEORGIA

ROCKDALE WATER RESOURCES

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

REVISION

No.	DATE	DESCRIPTION
1	-/-/-	-
2	-/-/-	-
3	-/-/-	-
4	-/-/-	-
5	-/-/-	-
6	-/-/-	-

PUMP STATION DETAILS

DESIGNED BY:	DAVID CERVONE
DRAWN BY:	WALT BOBO
CHECKED BY:	DAVID CERVONE
DATE:	03.13.2024
FILE NAME:	WHEELER PARK PUMP STA. & FROCE MAIN

SHEET
C-02

FILE PATH: C:\Users\cjcen\Dropbox\wheeler park pump station\Wheeler Park Pump Station\Drawings\04-PLAN-WHEELER PARK PUMP STATION.dwg PRINT DATE/TIME: 4/4/2024 6:20 PM BY: cervod

SCHEMATIC DIAGRAM SYMBOLS:

CONDUCTORS CONNECTED

CONDUCTORS NOT CONNECTED

CONNECTION POINT

xx — TERMINAL POINT FOR OUTGOING CONDUCTORS, WITH IDENTIFICATION "xx" DENOTES CONTRACTOR ASSIGNED.

MCP–xxx / xxA — MAGNETIC–ONLY CIRCUIT BREAKER (MCP), WITH CURRENT RATING

CB–xxx / xxA — CIRCUIT BREAKER, THERMAL–MAGNETIC UNLESS OTHERWISE NOTED, WITH FRAME SIZE AND TRIP RATING

FU–xxx / xxA — FUSE WITH SIZE AND OPTIONAL IDENTIFICATION.

DS–xxx / xxA — DISCONNECT SWITCH. RATING OPTIONAL. 30 AMP, 600V RATED MINIMUM UNLESS OTHERWISE NOTED.

FD–xxx / xxA — FUSE DISCONNECT SWITCH. RATING OPTIONAL. 30 AMP, 600V MINIMUM UNLESS OTHERWISE NOTED.

M–xxx / xx HP — MOTOR (HP AS SHOWN, PHASES AS REQUIRED)

M — MOTOR STARTER COIL

OL — THERMAL MOTOR OVERLOAD

M — MOTOR CONTACT

LS–XXX / LS–XXX — LIMIT SWITCH NORMALLY CLOSED AND NORMALLY OPEN

PS–XXX / PS–XXX — PRESSURE SWITCH NORMALLY CLOSED AND NORMALLY OPEN

TS–XXX / TS–XXX — TEMPERATURE SWITCH NORMALLY CLOSED AND NORMALLY OPEN

FS–XXX / FS–XXX — FLOW SWITCH NORMALLY CLOSED AND NORMALLY OPEN

FLT–XXX / FLT–XXX — LEVEL SWITCH NORMALLY CLOSED AND NORMALLY OPEN

PRS–XXX / PRS–XXX — PROXIMITY SWITCH NORMALLY CLOSED AND NORMALLY OPEN

PCS–XXX / PCS–XXX — PULLCORD SWITCH NORMALLY CLOSED AND NORMALLY OPEN

PB–XXX / PB–XXX — MOMENTARY PUSHBUTTON NORMALLY CLOSED AND NORMALLY OPEN

SS–XXX / SS–XXX — SELECTOR SWITCH NORMALLY CLOSED AND NORMALLY OPEN

TDS–XXX 0–30 SEC / TRXXX–XX 0–30 SEC — TIME DELAY SWITCH NORMALLY CLOSED AND NORMALLY OPEN

CR–XXX / CR–XXX — CONTROL RELAY CONTACT NORMALLY CLOSED AND NORMALLY OPEN

SV–XXX — SOLENOID VALVE

CR–XXX — CONTROL RELAY

LT–XXX — PILOT LIGHT X = LENS COLOR

A = AMBER
B = BLUE
G = GREEN
R = RED
W = WHITE

AL–XXX — ALARM LIGHT

AH–XXX — ALARM HORN

CPT (H1, H2, xxV–PRI, xxV–SEC, xxKVA; X1, X2) — CONTROL POWER TRANSFORMER, PRIMARY AND SECONDARY VOLTAGE SHOWN. SIZE AS SHOWN OR SPECIFIED.

CT–xxx / xS — CURRENT TRANSFORMER. PRIMARY/SECONDARY. TURNS RATIO AS SHOWN.

XZ–XXX — MOTOR SPACE HEATER

ONE LINE DIAGRAM SYMBOLS:

CB–xxx / xxA–T / xxA–F — LOW VOLTAGE POWER CIRCUIT BREAKER, DRAW–OUT TYPE, FRAME AND TRIP ID SHOWN

CB–xxx / xxA–T / xxA–F — MOLDED CASE CIRCUIT BREAKER, FRAME AND TRIP ID SHOWN

LIGHTNING ARRESTER AND GROUND

DS–xxx — DISCONNECT OR ISOLATING SWITCH: CONTINUOUS RATING SHOWN

MCP–xxx / xxA–T / xxA–F — MAGNETIC–ONLY CIRCUIT BREAKER (MCP), DRAW–OUT TYPE, FRAME AND TRIP ID SHOWN

FD–xxx / xxA–T / xxA–F — FUSED DISCONNECT SWITCH, FUSE AND SWITCH CONTINUOUS RATINGS SHOWN

TFR–xxx / xxV–PRI / xxV–SEC / x%Z / xxKVA — POWER TRANSFORMER: PRIMARY & SECONDARY VOLTAGES, %Z, SIZE SHOWN

CT–xxx / xS — CURRENT TRANSFORMER: RATIO SHOWN (3 INDICATES NO. OF CT'S)
METER SWITCH, xS:
AS – AMMETER SWITCH
VS – VOLTMETER SWITCH
FS – FREQUENCY SWITCH

PT–xxx — POTENTIAL TRANSFORMER, PRIMARY & SECONDARY VOLTAGES & WINDINGS SHOWN. (x) UNITS

METER

METER:
A – AMMETER
W – WATTMETER
KWH – WATT–HOUR METER
F – FREQUENCY METER
VAR – VAR METER
V – VOLTMETER

FVNR / SIZE x / OL — FULL VOLTAGE, NON–REVERSING MAGNETIC MOTOR STARTER. NEMA SIZE INDICATED

FVR / SIZE x / OL — FULL VOLTAGE, REVERSING MAGNETIC MOTOR STARTER. NEMA SIZE INDICATED

xxHP VFD–xxx — VARIABLE FREQUENCY DRIVE, NEMA SIZE INDICATED

xxHP RVSS–xxx — REDUCED VOLTAGE SOLID STATE DRIVE (SOFT START), NEMA SIZE INDICATED

xx HP / M–xxx — MOTOR (HP AS SHOWN, PHASES AS REQUIRED)

GENERATOR RECEPTACLE

N E L MTS–xxx — MANUAL TRANSFER SWITCH

xx / P–xxx / x/c #xx / 1/c #xx GND IN x" C. — CABLE TAG:
P – POWER CABLE
C – CONTROL CABLE
S – SHIELDED SIGNAL CABLE

CIRCUIT AND RACEWAY SYMBOLS:

RACEWAY OR WIRING SYSTEM ABOVE FLOOR LEVEL BELOW CEILING, EXPOSED. (UNLESS OTHERWISE NOTED)

RACEWAY OR WIRING SYSTEM BELOW FLOOR LEVEL, ABOVE CEILING, HIDDEN, OR EXISTING CABLE/CONDUIT. (UNLESS OTHERWISE NOTED)

SCHEMATIC DIAGRAM FIELD WIRING. (UNLESS OTHERWISE NOTED)

ONE LINE DIAGRAM EQUIPMENT ENCLOSURE. (UNLESS OTHERWISE NOTED)

G — GROUNDING CONDUCTOR (CONCEALED), #4/0 AWG BARE COPPER (UNLESS OTHERWISE NOTED)

GG GG — GROUNDING CONDUCTOR (EXPOSED), #4/0 AWG INSULATED COPPER (UNLESS OTHERWISE NOTED)

PBD A–1,3,5 — HOME RUN – SEE PANELBOARD SCHEDULE FOR CIRCUIT INFORMATION

EXAMPLE: HOME TO PANELBOARD PBD A, CIRCUITS 1, 3, AND 5

GENERAL ABBREVIATIONS:

AR	ALARM RELAY	MCC	MOTOR CONTROL CENTER
AS	AMMETER SELECTOR SWITCH	MCP	MOTOR CONTROL PANEL/MOTOR CIRCUIT PROTECTOR
A, AMP	AMP(S), AMPERE(S)		
AC	ALTERNATING CURRENT	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURE(R)
AHAP	AS HIGH AS POSSIBLE	MH	MANHOLE
AIC	AMPS INTERRUPTING CAPACITY, SYMM.	MIC	MICROPHONE
AL	ALUMINUM	MIN	MINIMUM
AT	AMPERE TRIP	MISC	MISCELLANEOUS
AF	AMPERE FRAME	mM	MILLIMETER
AUTO	AUTOMATIC	mV	MILLIVOLT
AUX	AUXILIARY	MCM	MILLI CIRCULAR MILLS
AWG	AMERICAN WIRE GAUGE	MOP	MOTOR OPERATOR PANEL
		MPR	MOTOR PROTECTION RELAY
BC	BARE COPPER CONDUCTOR	MS	MOTOR STARTER
BKR	BREAKER	MTR	MOTOR
		MVS	MEDIUM VOLTAGE STARTER
C	CONDUCTOR/CONTACTOR		
CB	CIRCUIT BREAKER	N/A	NOT APPLICABLE
CJB	CIRCUIT JUNCTION BOX	NC	NORMALLY CLOSED
CKT	CIRCUIT	NEUT,N	NEUTRAL
CLG	CEILING	NIC	NOT IN CONTRACT
CR	CONTROL RELAY	NO	NORMALLY OPEN
CND	CONDUIT	NOM	NOMINAL
CONC	CONCRETE	NP	NAMEPLATE
CS	CONTROL SWITCH	NTS	NOT TO SCALE
CONT	CONTROL		
CPT	CONTROL POWER TRANSFORMER	OC	ON CENTER
CT	CURRENT TRANSFORMER	OD	OUTSIDE DIAMETER
CU	COPPER	OH	OVERHEAD
		OL's	OVERLOADS
D	DIAMETER	OT	OIL TIGHT
DB	DUCT BANK		
DC	DIRECT CURRENT	P	POLE
DET	DETAIL	PA	PUBLIC ADDRESS
DIAG	DIAGRAM	PB	PUSHBUTTON, PULLBOX
DPSH	DIFFERENTIAL PRESSURE SWITCH	PE	PHOTO ELECTRIC CELL
DS	DISCONNECT SWITCH	PF	POWER FACTOR
DWG	DRAWING	PH	PHASE
		PJB	POWER JUNCTION BOX
EA	EACH	PLC	PROGRAMMABLE LOGIC CONTROLLER
EC	ELECTRICAL CONTRACTOR	PNL	PANEL
EF	EXHAUST FAN	PP	POWER PANEL
EL	ELEVATION	PR	PAIR
ELEC	ELECTRIC(AL)	PRI	PRIMARY
EMER	EMERGENCY	PS	PRESSURE SWITCH
ENCL	ENCLOSURE/ENCLOSED	PT	POTENTIAL TRANSFORMER
EP	EXPLOSION PROOF EQUIP.	PVC	POLYVINYL CHLORIDE
EX, E	EXISTING	PWR	POWER
FCP	FURNISHED WITH EQUIPMENT PANEL	QSH	SHEAR PIN LIMIT SWITCH
FDR	FEEDER		
FLA	FULL LOAD AMPS	RCPT	RECEPTACLE
FPP	FIBER OPTIC DISTRIBUTION PANEL	RCT	REACTOR
FS	FLOW SWITCH	REF	REFERENCE REQ'D REQUIRED
FU	FUSE	RMS	ROOT MEAN SQUARE
FUT	FUTURE	RTD	RESISTANCE TEMPERATURE DETECTOR
FVNR	FULL VOLTAGE NON–REVERSING		
FVR	FULL VOLTAGE REVERSING	SCH	SCHEDULE
		SE	SPEED SENSOR
GALV	GALVANIZED	SEC	SECONDARY
GEN	GENERATOR	SEL	SELECTOR
GFR	GROUND FAULT RELAY	SER	SERVICE ENTRANCE RATED
GND	GROUND	SPDT	SINGLE POLE DOUBLE THROW
GRS	GALVANIZED RIGID STEEL	SPEC	SPECIFICATION
		SPHTR	MOTOR SPACE HEATER
H	HIGH	SPKR	SPEAKER
HGT	HEIGHT	SS	STAINLESS STEEL
HH	HANDHOLE	SSL	SPEED SWITCH
HID	HIGH INTENSITY DISCHARGE	STP	SHIELDED TWISTED PAIR
HP	HORSEPOWER	SUB	SUBSTATION
HS	HAND STATION (SWITCH)	SW	SWITCH
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	SYMM	SYMMETRICAL
		SYS	SYSTEM
HZ	HERTZ (CYCLES PER SECOND)	SV	SOLENOID OPERATED VALVE
HOA	HAND/OFF/AUTO	SPB	SIGNAL PULL BOX
HOR	HAND/OFF/REVERSE		
HMH	HIGH VOLTAGE MANHOLE	TB	TERMINAL BOX
		TEL	TELEPHONE
ID	INSIDE DIAMETER	TEMP	TEMPERATURE
IMC	INDIVIDUAL MOTOR CONTROLLER	TFR	TRANSFORMER
INTLK	INTERLOCK	TH	THERMOSTAT
INST	INSTANTANEOUS	TJB	TERMINAL JUNCTION BOX
INSTR	INSTRUMENT	TSH	TEMPERATURE SWITCH HIGH
I/O	INPUT–OUTPUT	TV	TELEVISION
		TYP	TYPICAL
JB	JUNCTION BOX	TR	TIMING RELAY
		TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
KV	KILOVOLT		
KVA	KILOVOLT–AMPERE	UG	UNDERGROUND
KVAR	KILOVOLT–AMPERE REACTIVE	UH	UNIT HEATER
KW	KILOWATT	UON	UNLESS OTHERWISE NOTED
KWH	KILOWATT–HOUR		
KAIC	KILO AMPERE INTERRUPTING CURRENT	V	VOLT
		VA	VOLT AMPERE
L–O–R	LOCAL–OFF–REMOTE	VAR	VOLT AMPERE REACTIVE
L	LONG	VFD	VARIABLE FREQUENCY DRIVE
LC	LIGHTING CONTACTOR	VSH	VIBRATION SWITCH
LCP	LOCAL CONTROL PANEL		
LP	LIGHTING PANEL	W	WATT, WIRE, WIDE
LOS	LOCK–OUT STOP	W/	WITH
LSIG	LONG, SHORT, INSTANTANEOUS TRIP SETTING AND GROUND FAULT PROTECTION	W/O	WITHOUT
		WE	WEIGHT LOAD CELL
LSL	LEVEL SWITCH LOW	WIT	WEIGHT INDICATING TRANSMITTER
LSO	LIMIT SWITCH OPEN	WP	WEATHERPROOF
LSC	LIMIT SWITCH CLOSED		
LTG	LIGHTING	XL	WARNING HORN/LIGHT
LV	LOW VOLTAGE	XT	ANEMOMETER
LSH	LEVEL SWITCH HIGH		
		ZS	POSITION (LIMIT) SWITCH
M	MOTOR CONTACTOR	ZSO	POSITION (LIMIT) SWITCH OPEN
mA	MILLIAMPERE	ZSC	POSITION (LIMIT) SWITCH CLOSED
MAX	MAXIMUM	ZT	POSITION TRANSMITTER
MCB	MAIN CIRCUIT BREAKER		

GROUNDING SYMBOLS:

GROUND ROD, 3/4" x 10'–0", COPPERCLAD (UNLESS OTHERWISE NOTED)

GROUND ROD AND WELL

COMPRESSION TYPE GROUNDING BOND TO MOTOR CASING OR EQUIPMENT

EXOTHERMIC TYPE GROUNDING BOND TO MOTOR CASING OR EQUIPMENT

GENERAL NOTES:

1. SCOPE:
   A. FURNISH ALL LABOR, MATERIAL, EQUIPMENT AND TOOLS REQUIRED TO COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEM INCLUDING BUT NOT LIMITED TO WIRING, BOXES, LIGHT FIXTURES, PANELS, SWITCHES, RECEPTACLES, DISCONNECTS, STARTERS, AND ALL OTHER WORK INDICATED ON THE DRAWINGS OR AS SPECIFIED HEREIN.
   B. OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY THE LOCAL AUTHORITIES HAVING JURISDICTION AND DELIVER CERTIFICATE OF APPROVAL TO THE GENERAL CONTRACTOR. ALL ASSOCIATED FEES SHALL BE PAID BY THE CONTRACTOR.
   C. ALL MATERIALS AND EQUIPMENT OF THE ELECTRICAL SYSTEM NECESSARY FOR ITS PROPER AND SAFE OPERATION OR OTHERWISE REQUIRED BY CODE, BUT NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL CHARGE.
   D. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE, THE LATEST STANDARD BUILDING CODE, NFPA 820, ANY OTHER LOCALLY ADOPTED CODES AND LOCAL AUTHORITIES HAVING JURISDICTION.
2. ALL SUBSTITUTIONS FOR EQUIPMENT AND MATERIAL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO PURCHASING.
3. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES. IT IS THE RESPONSIBILITY OF CONTRACTOR TO VERIFY THE ACTUAL LOCATION OF EQUIPMENT, DUCTWORK, PIPING, ETC. AND COORDINATED THE INSTALLATION ACCORDINGLY. THE EQUIPMENT WIRING SHALL INCLUDE ALL NECESSARY CABLES AND CONDUIT REQUIRED FOR THE PROPER AND SAFE EQUIPMENT OPERATION.
4. THE POWER, LIGHTING AND CONTROL CABLES SHALL BE COPPER CONDUCTORS WITH 600V TYPE "XHHW" INSULATION, #12 AWG MINIMUM SIZE. THE SIGNAL CABLES SHALL BE COPPER CONDUCTORS, 600V RATED, TWISTED AND SHIELDED TYPE, #16 AWG MINIMUM SIZE. CABLES BETWEEN THE VFD AND ASSOCIATED MOTOR SHALL BE SHIELDED POWER VFD RATED CABLES. ALL CABLES INSTALLED IN CABLE TRAYS SHALL BE TC RATED.
5. POWER WIRES SIZES #12 AWG AND #10 AWG SHALL BE SOLID TYPE. ALL OTHER SIZES SHALL BE STRANDED.
6. THE CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND DISTANCES IN THE FIELD. IN CASE OF DISCREPANCY, CONTRACTOR SHALL INCLUDE A MORE EXPENSIVE OPTION.
7. ALL EXPOSED CONDUITS SHALL BE GALVANIZED RIGID STEEL, UNLESS NOTED OTHERWISE ON THE DRAWINGS, MINIMUM OF 3/4". ALL BURIED CONDUIT SHALL BE PVC–40, MINIMUM OF 1". ALL UNDERGROUND CONDUITS SHALL HAVE RIGID STEEL ELBOWS. ALL METAL CONDUITS SHALL BE PROTECTED WITH A BITUMINOUS COATING WHEN INSTALLED UNDERGROUND OR WHEN IN CONTACT WITH CONCRETE.
8. ALL FITTINGS SHALL BE CAST WITH THREADED HUBS. ALL CONNECTIONS SHALL BE COMPRESSION TYPE.
9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CABLES AND EQUIPMENT LUG SIZES. IN CASE THE CABLE IS OF A LARGER SIZE THAN THE EQUIPMENT LUG, CONTRACTOR SHALL PROVIDE THE REQUIRED CONNECTOR AT NO ADDITIONAL CHARGE TO OWNER.
10. THE CONTRACTOR SHALL PROVIDE PULL STRING AND PERMANENTLY ATTACHED IDENTIFICATION LABELS AT EACH CONDUIT END FOR ALL SPARE CONDUITS. EACH TAG SHALL INCLUDE CONDUIT NUMBER, SIZE AND DESTINATION POINT.
11. ALL EQUIPMENT LOCATED IN THE PRIMARY SEWAGE WETWELL SHALL BE CLASS 1, DIVISION 1, GROUP D RATED.
12. INSTALLATION AND MATERIALS SHALL FOLLOW ROCKDALE COUNTY WATER & SEWER SPECIFICATIONS.

PLAN DRAWING SYMBOLS:

(M) — MOTOR CONNECTION

MOTOR STARTER, INDIVIDUAL –– NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY IN NEMA 4X ENCLOSURE UNLESS OTHERWISE NOTED. MOUNT AT 4'–8" TO CENTER OF STARTER.

COMBINATION MOTOR STARTER/DISCONNECT, INDIVIDUAL –– NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY IN NEMA 4X ENCLOSURE UNLESS OTHERWISE NOTED. MOUNT AT 4'–8" TO CENTER OF STARTER/DISCONNECT.

DISCONNECT SWITCH. DISCONNECT SWITCHES ARE HEAVY DUTY, SINGLE THROW, WITH NEMA 4X ENCLOSURE UNLESS OTHERWISE NOTED. MOUNT AT 4'–8" TO CENTER OF DISCONNECT.

FUSED DISCONNECT, NON–FUSED.
PROVISION FOR CLASS R FUSES.

FIELD INSTRUMENT CONNECTION

START/STOP HAND STATION MOUNTED TO HANDRAIL (NEMA 4X UNLESS OTHERWISE NOTED)

$X — 120V, 20A, 1P TOGGLE SWITCH

[BLANK] = 1P TOGGLE SWITCH
2 = 2P TOGGLE SWITCH
3 = 3P TOGGLE SWITCH
D = SLIDE DIMMER
M = MOTOR RATED
S = TOGGLE WITH OCCUPANCY SENSOR

DUPLEX 120V RECEPTACLE, 120V, 20A, 1P.
MOUNT 18" ABOVE FINISHED FLOOR (A.F.F) OR 6" ABOVE COUNTER, DESK, OR CABINET.

GFCI DUPLEX 120V RECEPTACLE, 120V, 20A, 1P.
MOUNT 18" ABOVE FINISHED FLOOR (A.F.F.) OR 6" ABOVE COUNTER, DESK, OR CABINET.

QUADRAPLEX 120V RECEPTACLE, 120V, 20A, 1P.
MOUNT 18" ABOVE FINISHED FLOOR (A.F.F.) OR 6" ABOVE COUNTER, DESK, OR CABINET.

TELEPHONE/DATA BOX. MOUNT 18" A.F.F., INSTALL A 1/2" CONDUIT FROM BOX TO 6" ABOVE CEILING. PROVIDE PULL CORD FOR FUTURE CONNECTIONS AS REQUIRED.

JB — JUNCTION BOX

60A, 480V, 3PH WELDING RECEPTACLE

WELDING RECEPTACLE, 240V, 30A, 2P.
MOUNT 18" ABOVE FINISHED FLOOR (A.F.F.)

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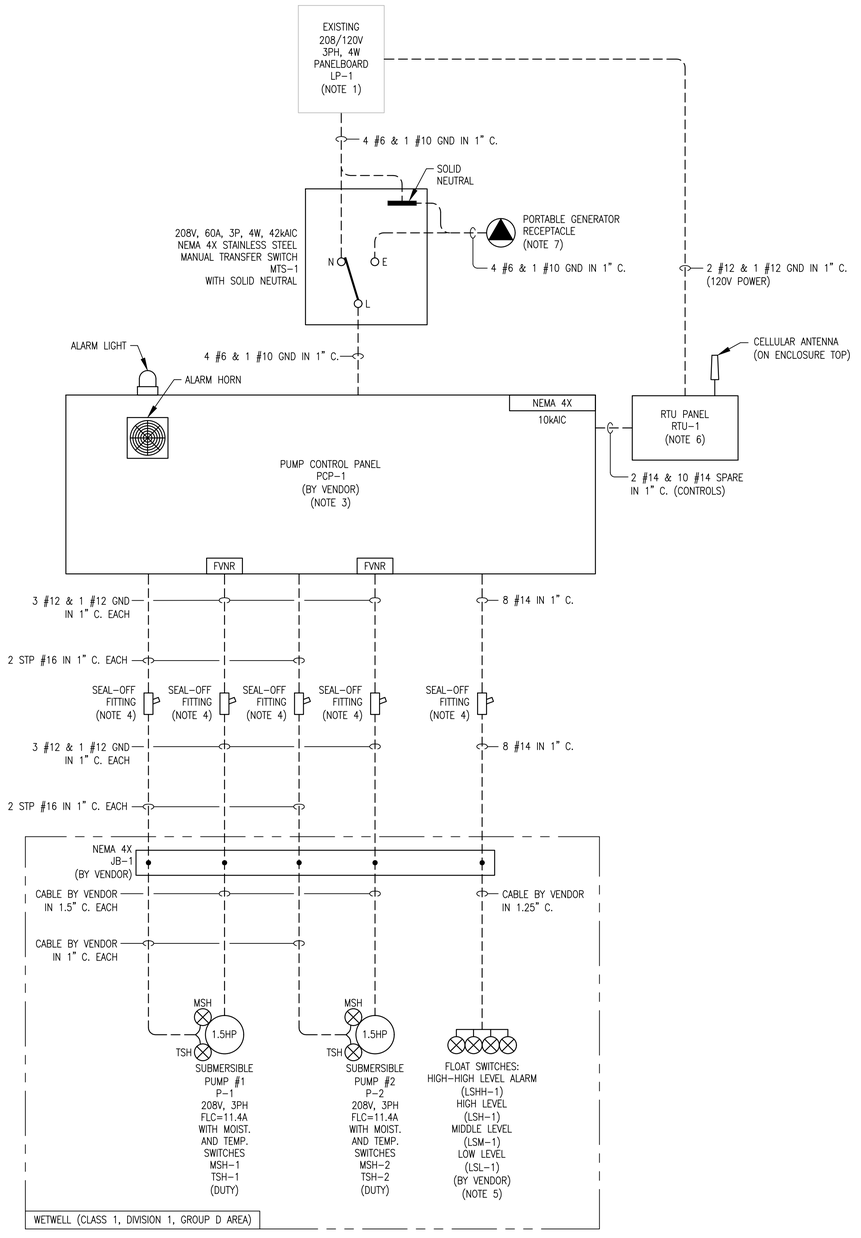
No.	DATE	DESCRIPTION
A	04/03/24	ISSUED FOR BID

ELECTRICAL LEGEND & NOTES

DESIGNED BY: MM
DRAWN BY: MM
CHECKED BY: DV
DATE: 04/03/2024
FILE NAME:

SHEET
E-1



NOTES:

1. THE CONTRACTOR SHALL USE EXISTING 208/120V, 3PH PANELBOARD LOCATED IN THE RAIN DROP PUMPS BUILDING TO FEED THE PUMP STATION CONTROL PANEL AND THE RTU. THE CONTRACTOR SHALL USE EXISTING CIRCUIT BREAKERS IN THE EXISTING PANELBOARD (INSTALLED BY OTHERS) – 50A, 3P BREAKER FOR PUMPS CONTROL PANEL AND 20A, 1P BREAKER FOR RTU.

2. ALL ELECTRICAL EQUIPMENT ENCLOSURES SHALL BE PADLOCKABLE.

3. THE PUMP VENDOR SHALL FURNISH AND CONTRACTOR SHALL INSTALL THE PUMP STATION CONTROL PANEL WHICH INCLUDES ALL NECESSARY POWER AND CONTROLS COMPONENTS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
   A. CONTROL PANEL SCCR SHALL BE 10kAIC MINIMUM.
   B. ENCLOSURE: WALL MOUNTED NEMA 4X FIBERGLASS.
   C. MAIN DEVICE – THERMAL MAGNETIC CIRCUIT BREAKER 50A, 208V, 3P.
   D. TWO (2) FULL VOLTAGE NON–REVERSIBLE (FVNR), 208V, 3PH STARTERS RATED FOR 1.5HP MOTORS WITH MOTOR CIRCUIT PROTECTORS.
   E. CONTROLLER – NONE (RELAY LOGIC).
   F. CONTROLLER OIT – NONE.
   G. PRIMARY LEVEL DEVICE – FOUR (4) FLOAT SWITCHES.
   H. SELECTOR SWITCHES:
      H.1. H–O–A SWITCHES (FOR EACH PUMP).
   I. PUSH BUTTONS:
      I.1. ALARM SILENCE;
      I.2. ALARM RESET.
   J. INDICATING LIGHTS FOR:
      J.1. PUMP RUNNING (RED) (FOR EACH PUMP);
      J.2. PUMP TEMPERATURE ALARM (AMBER) (FOR EACH PUMP);
      J.3. PUMP MOISTURE ALARM (AMBER) (FOR EACH PUMP);
      J.4. PUMP OVERLOAD ALARM (AMBER) (FOR EACH PUMP);
      J.5. WETWELL HIGH–HIGH LEVEL ALARM (AMBER);
      J.6. WETWELL LOW–LOW LEVEL ALARM (AMBER).
   K. MOISTURE/TEMPERATURE PROTECTION RELAY FOR EACH PUMP.
   L. 120V, 5A RATED DRY CONTACTS, AND SIGNAL WIRING PREWIRED TO FIELD TERMINALS:
      L.1. WETWELL HIGH–HIGH LEVEL ALARM;
   M. PUMP ALTERNATOR.
   N. ALARM LIGHT AND HORN.
   O. INTRINSICALLY SAFE RELAYS FOR ALL DEVICES LOCATED IN THE WETWELL.
   P. PUMPS HARDWIRED SAFETY INTERLOCKS SHALL INCLUDE AT LEAST:
      P.1. LOW–LOW LEVEL CUTOFF;
      P.2. COMMON FAULT (MOISTURE/TEMPERATURE/OVERLOAD ALARM).
   Q. PANEL SHALL INCLUDE ALL NECESSARY COMPONENTS FOR PUMPS SAFE AND RELIABLE OPERATION.

   CONTROL PANEL SHALL BE UL508A LISTED AND LABELED. CONTRACTOR SHALL SUBMIT DETAILED WIRING DIAGRAM AND BOM FOR THE CONTROL PANEL TO ENGINEER FOR APPROVAL, PRIOR TO FABRICATION.

4. THE CONTRACTOR SHALL PROVIDE AND INSTALL SEAL–OFF FITTINGS LEAVING HAZARDOUS AREA TO PREVENT METHANE GAS AND MOISTURE ENTERING INTO ELECTRICAL EQUIPMENT. USE NON–HARDENING SEAL COMPOUND (IDEAL CAT. NO 31–601 OR APPROVED EQUAL).

5. FOUR (4) LEVEL FLOAT SWITCHES (LSHH–1, LSH–1, LSM–1 AND LSL–1) SHALL BE PROVIDED BY PUMP VENDOR AND WIRED TO THE PUMP CONTROL PANEL. THE CONTRACTOR SHALL WIRE HIGH–HIGH LEVEL FLOAT SWITCH (LSHH–1) TO ACTIVATE ALARM HORN AND STROBE. CABLES PROVIDED WITH THE FLOATS SHALL BE LONG ENOUGH TO REACH PUMP CONTROL PANEL WITHOUT SPLICING. FLOAT SWITCHES SHALL BE CLASS 1, DIVISION 1, GROUP D AREA RATED AND SHALL BE MERCURY FREE.

6. CONTRACTOR SHALL PROVIDE AND INSTALL PACKAGED REMOTE TELEMETRY UNIT AS SHOWN ON THE DESIGN DRAWINGS FOR I/O's MONITORING AND CONTROLS AS DESCRIBED BELOW:
   A. BRAND: MISSION COMMUNICATIONS.
   B. MODEL: MYDRO 850.
   C. MEANS OF COMMUNICATION: WIRELESS, CELLULAR (IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE TYPES OF CELLULAR TRANSCEIVER WHICH WILL PROVIDE THE MOST RELIABLE CONNECTION).
   D. ENCLOSURE: NEMA 4X STAINLESS STEEL.
   E. INCLUDE ALL THE REQUIRED ACCESSORIES, SUCH AS GSM ENTENNA, ANTENNA CABLES, TERMINALS, ETC. AS NEEDED FOR COMPLETE AND OPERATIONAL SYSTEM.

   INCLUDE I/O's EXPANSION MODULES AS NEEDED TO ACCOMMODATE I/O's AS LISTED BELOW.
   A. DIGITAL INPUTS:
      A.1. WETWELL HIGH–HIGH LEVEL ALARM – FROM PCP–1.

   THE CONTRACTOR SHALL CONTACT JASON BOTT WITH KAZMIER & ASSOCIATES (EMAIL: JASON@KAZMIERINC.COM; TEL.: 770–475–2242 EXT. 112) TO DETERMINE THE SPECIFIC REQUIREMENTS TO BE USED FOR THIS PROJECT.

7. THE CONTRACTOR SHALL PROVIDE AND INSTALL 208V, 60A, 3PH, 5W, NEMA 4 PIN AND SLEEVE GENERATOR RECEPTACLE ASSEMBLY WITH BACK BOX. THE RECEPTACLE SHALL BE BY CROUSE–HINDS "ARKTITE" SERIES OR APPROVED EQUAL. COORDINATE THE EXACT RECEPTACLE MODEL NUMBER WITH THE COUNTY TO MATCH EXISTING PORTABLE GENERATOR PLUG TYPE.

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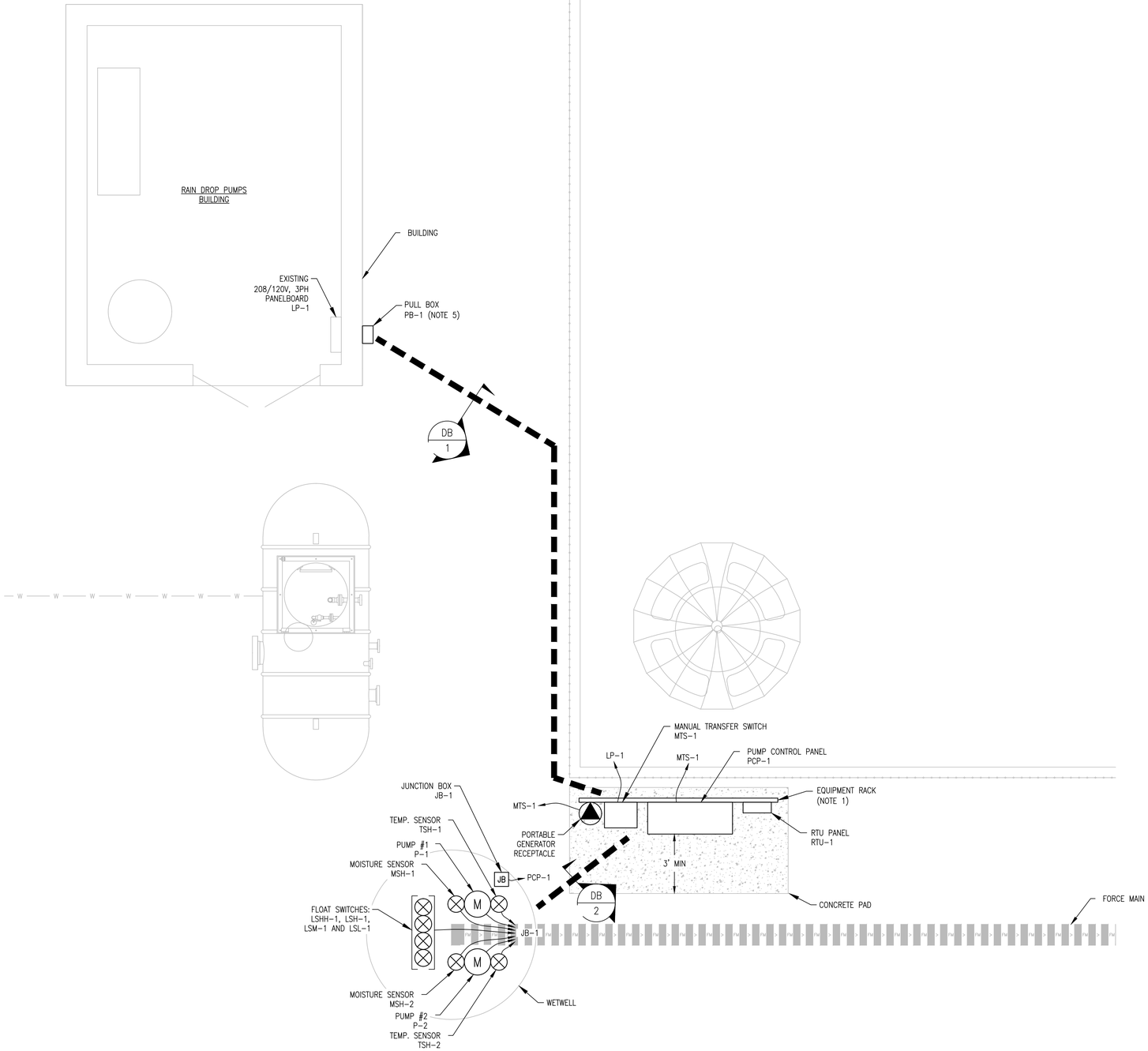
No.	DATE	DESCRIPTION
A	04/03/24	ISSUED FOR BID

ONE LINE DIAGRAM

DESIGNED BY: MM
DRAWN BY: MM
CHECKED BY: DV
DATE: 04/03/2024
FILE NAME:

SHEET
E-2



1 ELECTRICAL SITE PLAN

SCALE: 3/8" = 1'-0"

GRAPHIC SCALE

2.67 0 1.33 2.67 5.33 10.67

(IN FEET)

3/8 inch = 1 ft.

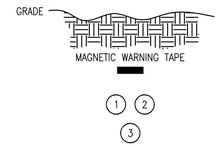
LEGEND:

– DIRECT BURIED UNDERGROUND DUCTBANK

NOTES:

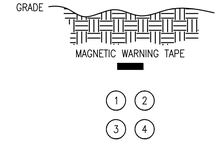
1. CONTRACTOR SHALL PROVIDE AND INSTALL UNISTRUT SUPPORT AS SHOWN. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXACT LOCATION OF UNISTRUT TO PROVIDE ADEQUATE CLEARANCES FOR ALL EQUIPMENT. SEE DETAIL "A" AND "B" ON DWG. E-4 FOR INSTALLATION DETAILS. 6" CONCRETE PAD SHALL BE UNDER ELECTRICAL EQUIPMENT AND SHALL EXTEND 3 FEET IN FRONT OF THE EQUIPMENT.
2. ONLY MAJOR UNDERGROUND CONDUITS ARE SHOWN FOR CLARITY. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND CONDUIT RUNS WITH OTHER UNDERGROUND UTILITIES.
3. THE CONTRACTOR SHALL CONFIRM ELECTRICAL EQUIPMENT WORKING CLEARANCES PRIOR TO INSTALLATION AND ADJUST EQUIPMENT LOCATION AS NEEDED TO MEET NEC REQUIREMENTS.
4. THE CONTRACTOR SHALL COORDINATE THE EXACT EQUIPMENT LOCATION WITH THE COUNTY DURING INSTALLATION TO AVOID INTERFERENCE WITH OTHER STRUCTURES AND UTILITIES.
5. THE CONTRACTOR SHALL PROVIDE AND INSTALL A NEMA 4X SS PULL BOX ADEQUATELY SIZED FOR ASSOCIATED CABLES AND CONDUITS.

UNDERGROUND DUCTBANKS:



DB-1

1 – 1" C. (208V POWER TO PUMP STATION)
2 – 1" C. (120V POWER TO RTU-1)
3 – 1" C. (SPARE)



DB-2

1 – 1.5" C. (208V POWER TO PUMP #1)
2 – 1.5" C. (208V POWER TO PUMP #2)
3 – 1" C. (CONTROLS)
4 – 1" C. (CONTROLS)

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ELECTRICAL SITE PLAN

DESIGNED BY: MM
DRAWN BY: MM
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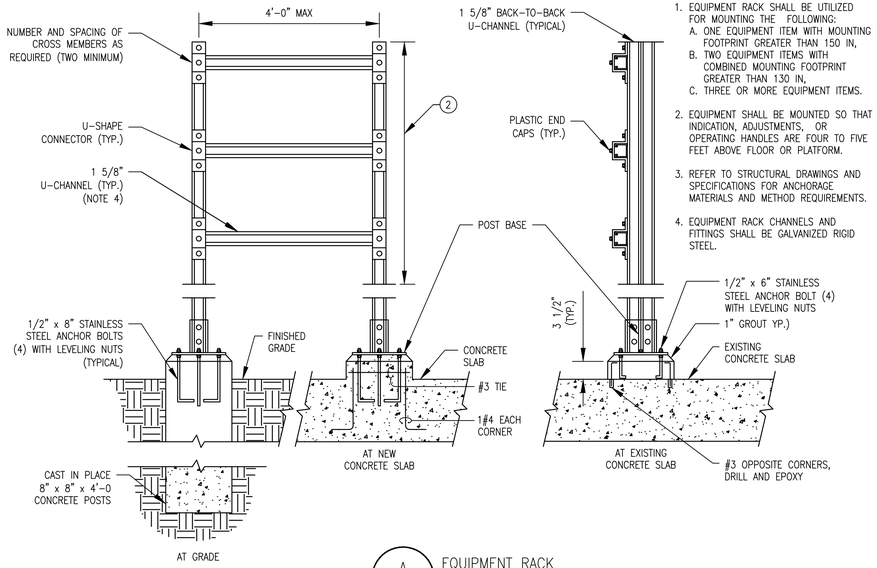
DATE: 04/03/2024
FILE NAME:

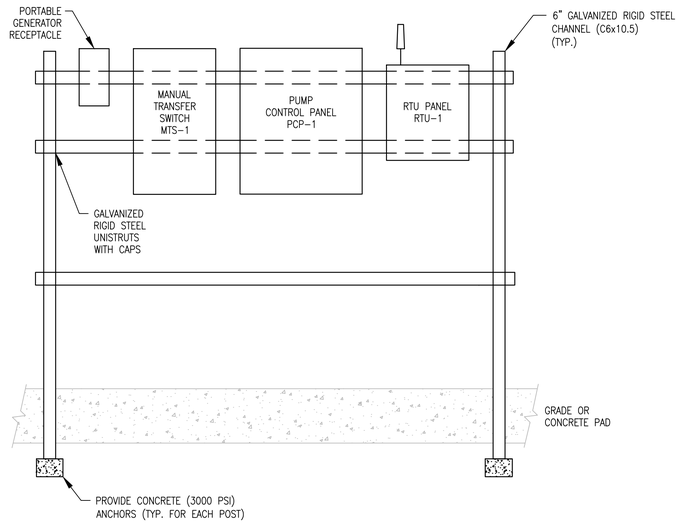
SHEET
E-3



EQUIPMENT RACK NOTES:

1. EQUIPMENT RACK SHALL BE UTILIZED FOR MOUNTING THE FOLLOWING:
   A. ONE EQUIPMENT ITEM WITH MOUNTING FOOTPRINT GREATER THAN 150 IN,
   B. TWO EQUIPMENT ITEMS WITH COMBINED MOUNTING FOOTPRINT GREATER THAN 130 IN,
   C. THREE OR MORE EQUIPMENT ITEMS.
2. EQUIPMENT SHALL BE MOUNTED SO THAT INDICATION, ADJUSTMENTS, OR OPERATING HANDLES ARE FOUR TO FIVE FEET ABOVE FLOOR OR PLATFORM.
3. REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANCHORAGE MATERIALS AND METHOD REQUIREMENTS.
4. EQUIPMENT RACK CHANNELS AND FITTINGS SHALL BE GALVANIZED RIGID STEEL.

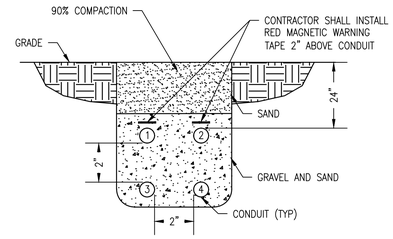
A EQUIPMENT RACK



UNI-STRUT NOTES:

1. CONTRACTOR SHALL PROVIDE ANCHORS, CHANNELS AND UNI-STRUTS AS REQUIRED TO SUPPORT EQUIPMENT.
2. SEE ELECTRICAL PLAN DRAWING FOR ACTUAL EQUIPMENT LAYOUT.
3. CONTRACTOR SHALL COAT ALL ALUMINUM EMBEDDED IN CONCRETE WITH TWO COATS OF BLACK ASPHALTIC TYPE PAINT.

B UNI-STRUT INSTALLATION DETAIL
TYPICAL



C CONDUIT SECTION IN TRENCH

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ELECTRICAL INSTALLATION DETAILS

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DATE: 04/03/2024
FILE NAME:

SHEET
E-4