

GENERAL NOTES

- 1. SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE WATER MAIN AND THE SEWER. CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE AS FAR AS POSSIBLE FROM WATER MAIN JOINTS. MAINTAIN MINIMUM 18" VERTICAL SEPARATION BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER AT CROSSING. AT CROSSINGS ONE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHEN IT IS IMPOSSIBLE TO MAINTAIN THE MINIMUM SEPARATION DISTANCES, THE DHSS OFFICE OF DRINKING WATER MUST SPECIFICALLY APPROVE ANY VARIANCE.
- 2. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING PIPE INVERTS, MANHOLE INVERTS, AND LOCATIONS PRIOR TO CONNECTION WITH PROPOSED PIPING.
- 4. FINAL LOCATION OF ALL PIPING TO BE SUBJECT TO FIELD DETERMINATION BY THE ENGINEER.
 5. THE CONTRACTOR SHALL PROVIDE FITTINGS AS SHOWN ON THE PLAN OR AS REQUIRED TO CONFORM TO
- FINAL LOCATION AND GRADE.

 6. ALL PIPING FOR WHICH ELEVATIONS ARE NOT SHOWN SHALL HAVE 4' MINIMUM COVERAGE.

 7. PROVIDE BUTTRESSES AT ALL BENDS, TEES, CAPS, OR PLUGS FOR ALL PRESSURE LINES. EXCAVATION AGAINST WHICH BUTTRESSES WILL BEAR SHALL BE FIRM BEARING, FLAT, AND AT PROPER ANGLE TO THE
- 8. ALL EXPOSED STATION PIPES, VALVES, FITTINGS, AND ADAPTORS SHALL BE FURNISHED WITH FLANGED JOINT CONNECTIONS.
- 9. ALL NUTS, BOLTS, WASHERS, SCREWS, ANCHOR BOLTS, AND OTHER FASTENERS OUTSIDE AND INSIDE WET WELL SHALL BE TYPE 316 STAINLESS STEEL.
- 10. THE SUBDIVISION LIES ENTIRELY WITHIN FLOOD ZONE 'X', AREAS OF MINIMAL FLOODING PER FEMA MAP# 10005C0495K, DATED MARCH 16, 2015.
- 11. CONTRACTOR SHALL VERIFY VENTILATION PIPING SHALL NOT INTERFERE WITH REMOVAL OF PUMPS. CONTRACTOR SHALL ENSURE AND DEMONSTRATE CLEAR AND FREE MOVEMENT OF PUMPS.

CONSTRUCTION NOTES

- (1) FURNISH AND INSTALL PUMP STATION.
- FURNISH AND INSTALL ABOVE GROUND VALVE ENCLOSURE.
- FURNISH AND INSTALL STAND—BY DIESEL GENERATOR. SEE ELECTRICAL DRAWINGS FOR DETAILS.
- 4 FURNISH AND INSTALL ELECTRICAL CABINET. SEE ELECTRICAL DRAWINGS FOR DETAILS.
- 5 FURNISH AND INSTALL 8" GATE VALVE.
- FURNISH AND INSTALL 14-FEET ALUMINUM SQUARE LIGHT POLE WITH 6-INCH RIGID STRAIGHT ARM, BLACK FINISH (TYP.) CIMARRON SERIES BY SPAULDING. SEE ELECTRICAL DRAWINGS FOR DETAILS.
- 7 FURNISH AND INSTALL 3" C900 PVC DR18 FORCE MAIN.
- (8) 10" DIP CEMENT LINED INFLUENT GRAVITY SEWER LINE.
- (9) FURNISH AND INSTALL GENERATOR CONCRETE SLAB. SEE ELECTRICAL DRAWINGS FOR DETAILS.
- (10) FURNISH AND INSTALL ELECTRICAL CABINET CONCRETE SLAB. SEE ELECTRICAL DRAWINGS FOR DETAILS.
- 11) FURNISH AND INSTALL 3" GATE VALVE.
- (12) PUMP STATION DRIVEWAY PAVEMENT. SEE SHEET C6.3 FOR DETAIL.
- (13) UTILITY TRANSFORMER. SEE ELECTRICAL DRAWINGS.
- (14) PROPOSED ANTENNA. SEE ELECTRICAL DRAWINGS.
- (15) FURNISH AND INSTALL 11.25° BEND.
- 16 FURNISH AND INSTALL 22.50° BEND.
- FURNISH AND INSTALL 4—INCH DEEP 3" #57 STONE ON FILTER FABRIC FOR ALL UNPAVED AREAS WITHIN PUMP STATION FENCE LINE.
- 18 FURNISH AND INSTALL 8-INCH SCH 80. PVC VENT PIPE..
- (19) FURNISH AND INSTALL 8-FOOT HIGH CHAIN LINK FENCE WITH WHITE VINYL SLATS.
- FURNISH AND INSTALL 14-FOOT WIDE MINIMUM ROLLING GATE TO MATCH VINYL FENCE.
- FURNISH AND INSTALL $\frac{3}{4}$ " YARD HYDRANT WITH 2" WATER SERVICE LINE AND VALVE. SEE SHEET C6.4 FOR DETAIL.
- FURNISH AND INSTALL MOWER BOARD INSIDE PUMP STATION FENCE PERIMETER.
- FURNISH AND INSTALL 2" CURB STOP.
- FURNISH AND INSTALL 2" METER PIT.

L	EG	EN	1D

	LEGEND	
EXISTING	PROPOSED N/A	RIGHT OF WAY
	N/A	PROPERTY LINE
	N/A	PUMP STATION PROPERTY LINE
		PAVED ROAD
	29	ELEVATION CONTOUR
N/A	*	LIGHT POLE
N/A		CONCRETE SURFACE
N/A		FENCE
N/A	4FM	FORCE MAIN
N/A	8S	SANITARY SEWER
	8W	WATER
*	N/A	GRASS
N/A	S	MANHOLE
N/A	9.5 TOS	SPOT SHOTS, TOP OF SLAB



ARMADA SUSSEX COUNTY, DELAWA

PUMP STATION SITE PLAN

SCALE : 1" = 10'

DESIGN BY : JRS

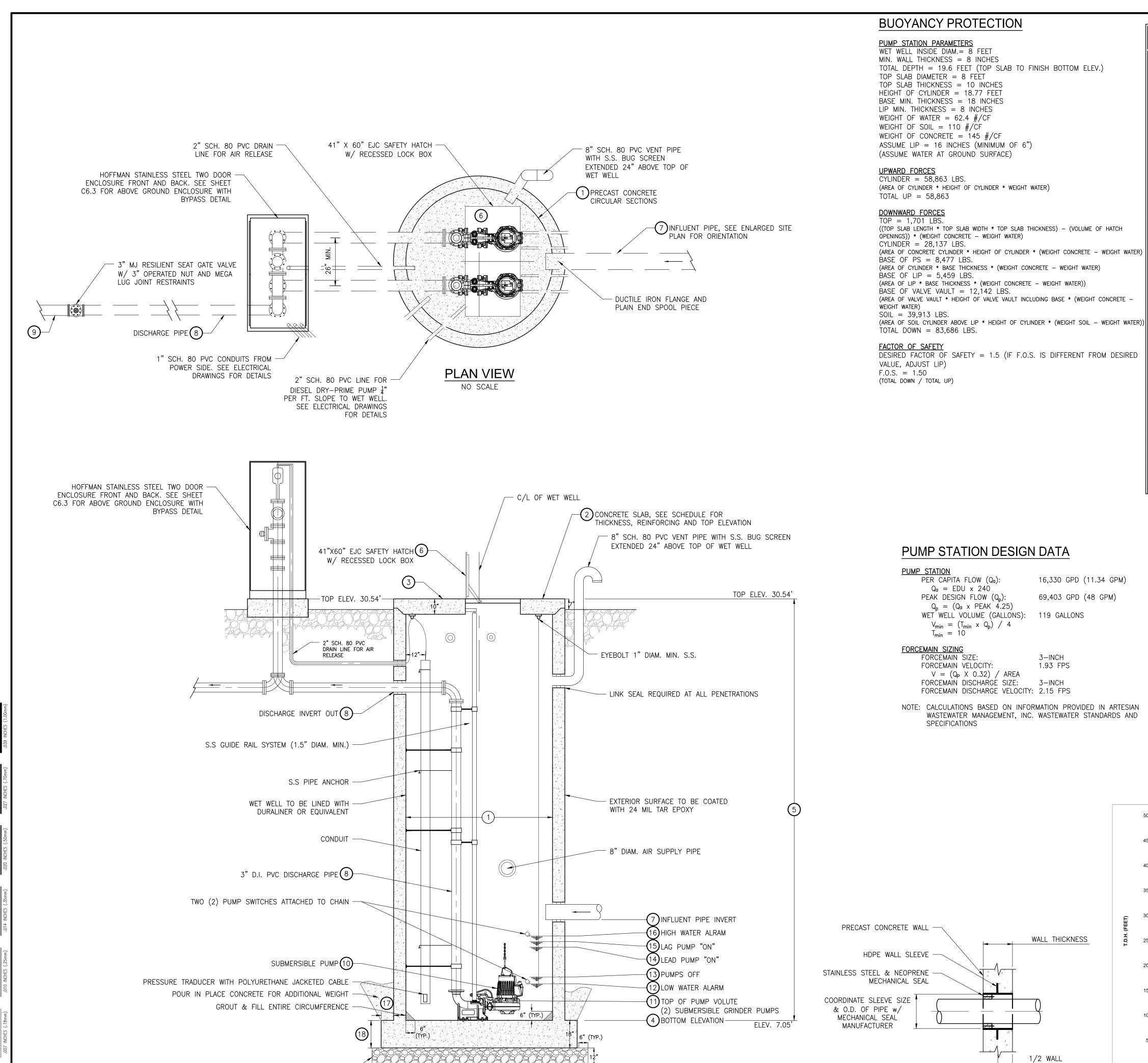
DRAWN BY : RFT

CHECKED BY : TMG

GMB FILE : 220024

DATE : APR 2024

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SECTIONAL ELEVATION

NO SCALE

12" MINIMUM GRAVEL BEDDING

(ASTM C33 #57)

PUMP STATION SCHEDULE						
1		INSIDE DIAMETER	8'-0"			
	PRECAST CONCRETE PUMP STATION	MINIMUM WALL THICKNESS	0'-8"			
		TOP OF SLAB ELEVATION	30.54'			
2	TOP SLAB, 4000 PSI CONCRETE	SLAB THICKNESS	10"			
		REINFORCEMENT	#5 @ 6" E.W. T&E			
3	TOP SLAB DIMENSIONS	DIAMETER	8'-8"			
		BOTTOM SLAB ELEVATION	7.05'			
4	BOTTOM SLAB, 3500 PSI CONCRETE	SLAB THICKNESS	12"			
		REINFORCEMENT	PER MANUFACTURE			
5	TOTAL DEPTH - TOP TO FINISHED BOT	23.49'				
6	PUMP HATCH WITH FALL PROTECTION G	41"x60"				
7	INFLUENT PIPE	PIPE INSIDE DIAMETER	10"			
	INFLOCINT PIPE	INVERT ELEVATION	13.44'			
8 1	PUMP DISCHARGE PIPE & FITTING DIA.	SIZE	3"			
	POMP DISCHARGE PIPE & FITTING DIA.	INVERT ELEVATION — OUT	26.29'			
9	FORCE MAIN PIPE DIAMETER (4' MINIMU DETECTION TAPE)	3"				
		CAPACITY OF EACH PUMP (GPM)	53.60			
10	GRINDER PUMPS: DESIGN: DUPLEX	T.D.H. (FT)	47.53			
		H.P.	8.5			
(11)	NP VOLUTE		9.87			
(12)	LOW WATER ALARM	9.90'				
13	PUMPS "OFF"	10.40'				
14 LEAD PUMP "ON"			11.40'			
(15)	LAG PUMP "ON"	11.90'				
16	HIGH WATER ALARM	12.40'				
17)	BASE FLANGE DIMENSION	8"				
18	BASE MINIMUM THICKNESS	12"				
(19)	100-YEAR FLOOD ELEVATION	ZONE X				

WET WELL VOLUME (GALLONS): 119 GALLONS

NOTE: CALCULATIONS BASED ON INFORMATION PROVIDED IN ARTESIAN WASTEWATER MANAGEMENT, INC. WASTEWATER STANDARDS AND

THICKNESS

PIPE THROUGH WALL

NO SCALE

PUMP STATION DESIGN CALCULATIONS

PROPOSED DEVELOPMENT EDUS

TOTAL ARMADA SUBDIVISION EDUs: 67

16,680 GPD (11.67 GPM) AVERAGE DAILY FLOW: PEAK FACTOR:

68,340 GPD (47 GPM)

DESIGN (WITH INFILTRATION)

PEAK DAILY FLOW:

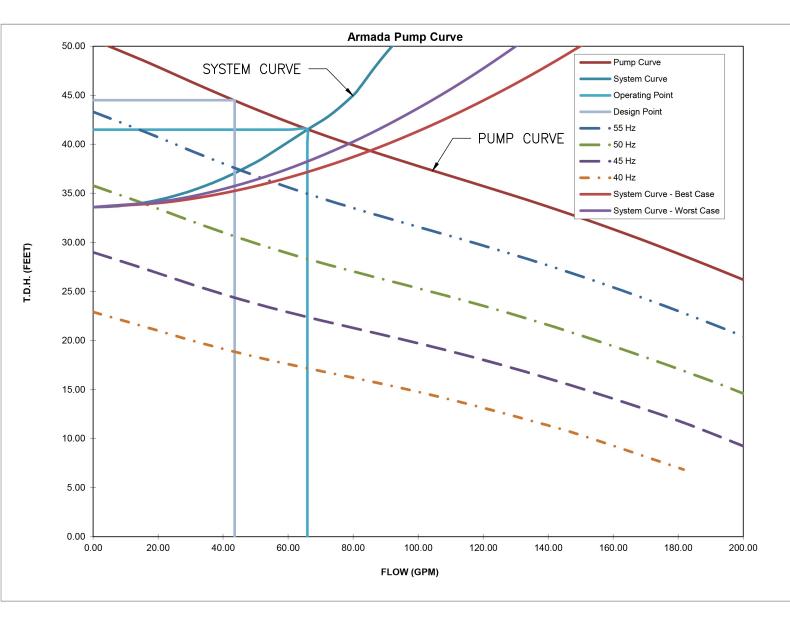
ARMADA SUBDIVISION EDUS INCREASED TO ACHIEVE MIN. FLOW IN FORCEMAIN PER

PUMP STATION CALCS IN SPECS. TOTAL EDUs:

AVERAGE DAILY FLOW: 16,320 GPD (11.34 GPM)

PEAK FACTOR:

69,403 GPD (48 GPM) PEAK DAILY FLOW:



PUMP STATION PLAN AND SECTION

: NO SCALE DESIGN BY : JRS DRAWN BY : RFT C6.1 CHECKED BY : TMG GMB FILE : 220024

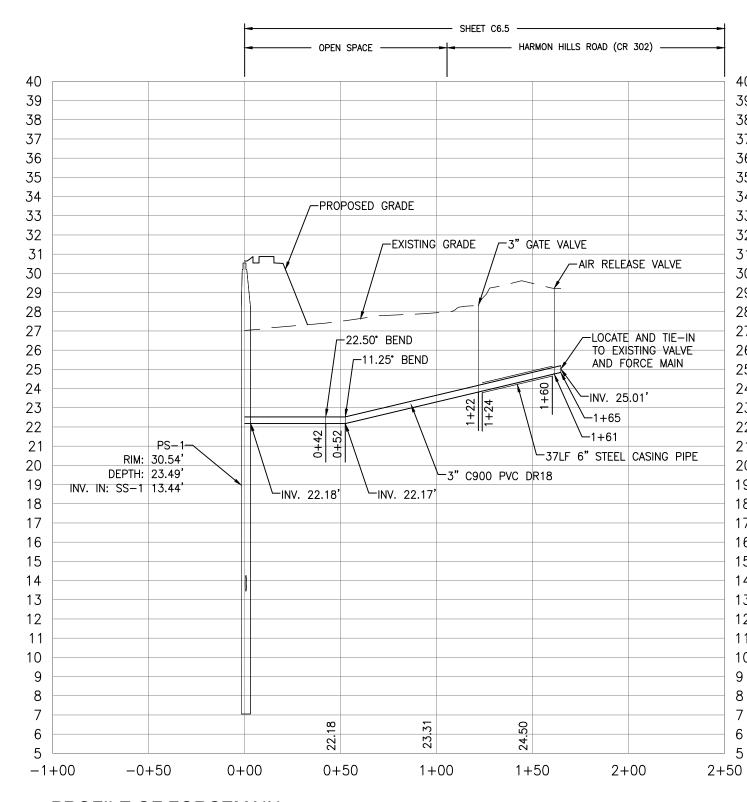
NP 3127 3H 3 PUMP CURVE

ARMADA COUNTY, DEL

PRINTS ISSUED FOR: REVIEW

GENERAL NOTES

- 1. ALL EXISTING UTILITY LOCATIONS SHOWN WERE TAKEN FROM THE BEST AVAILABLE RECORDS. THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELMARVA (1-800-282-8555) TO VERIFY THEIR EXACT LOCATION PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE INCURRED TO EXISTING UTILITIES SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE. IF THE CONTRACTOR RELIES ON THE UTILITY LOCATIONS SHOWN HEREIN, HE DOES SO AT HIS OWN RISK AND WILL NOT BE ENTITLED TO ADDITIONAL COMPENSATION DUE TO TIME DELAYS FROM SAID RELIANCE.
- 2. CONTRACTOR SHALL SEEK TO MAINTAIN AT LEAST 10-FEET OF HORIZONTAL SEPARATION BETWEEN WATER AND SEWER MAINS. ENCASEMENT IN CONCRETE OF WATER MAINS IS REQUIRED WITHIN 10-FEET OF CROSSING BETWEEN WATER AND SEWER MAINS WHERE VERTICAL SEPARATION IS LESS THAN 18-INCHES.
- 3. THE BOUNDARY INFORMATION SHOWN ON THESE DRAWINGS ARE BASED ON A SURVEY PERFORMED BY STEVE M. ADKINS LAND SURVEYING LLC, IN DECEMBER OF 2021.
- 4. CONTRACTOR SHALL INSTALL ALL FORCE MAIN IN ACCORDANCE WITH THE TOWN OF SELBYVILLE CONSTRUCTION STANDARDS AND SPECIFICATIONS. WHEN THE FORCE MAIN IS LOCATED WITHIN THE DELDOT RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL THE FORCE MAIN IN ACCORDANCE WITH DELDOT CONSTRUCTION STANDARDS AND SPECIFICATIONS.
- 5. ALL DISTURBED AREAS OUTSIDE OF THE PAVEMENT WITHIN THE DELDOT RIGHT-OF-WAY SHALL BE COVERED WITH 6" TOPSOIL, FERTILIZED, SEEDED AND MULCHED PER THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK OR IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.



PROFILE OF FORCEMAIN

VERTICAL SCALE: 1"=5" HORIZONTAL SCALE: 1"=50'

CONSTRUCTION NOTES

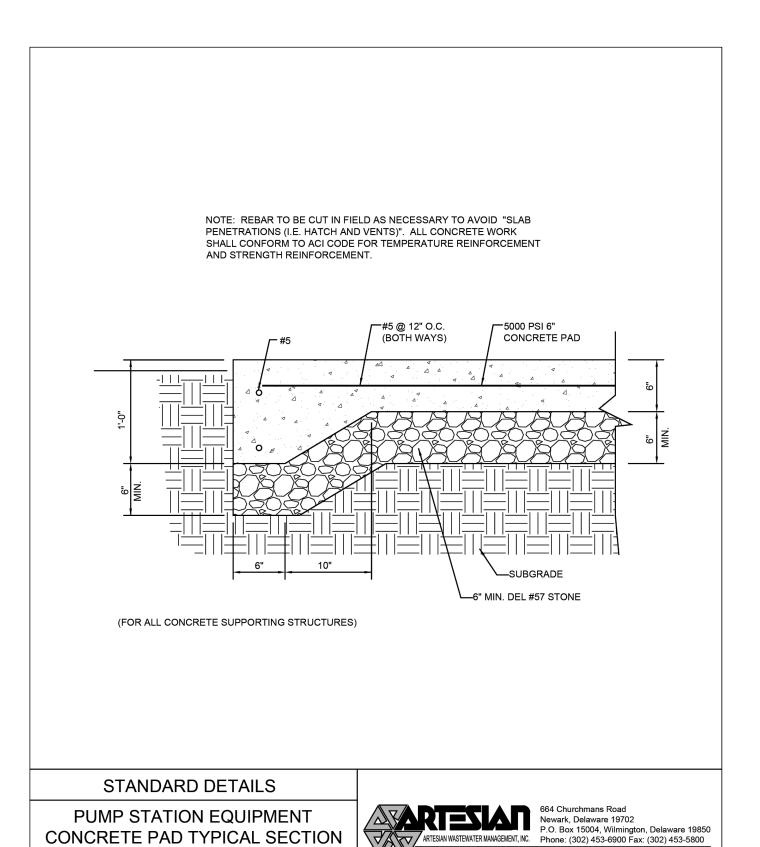
- 1 20'X50' JACK AND BORE ENTRANCE PIT. ALL EXCAVATIONS SHALL BE A MINIMUM OF 2-FEET FROM THE DELDOT EDGE OF PAVEMENT.
- 2 CONTRACTOR TO JACK AND BORE APPROXIMATELY 37LF OF 3" C900 PVC DR 18 PIPE WITH 6" STEEL CASING PIPE UNDER HARMON HILLS ROAD (CR302). SEE PROFILE FOR DETAILS. CASING PIPE SHALL EXTEND 5-FEET PAST THE EDGE OF PAVEMENT ON BOTH SIDES OF JACK AND BORE. SEE SHEET C6.4 FOR DETAILS.
- 3 20'X40' JACK AND BORE RECEIVING PIT. ALL EXCAVATIONS SHALL BE A MINIMUM OF 2-FEET FROM THE DELDOT EDGE OF PAVEMENT.
- $\left\langle 4 \right\rangle$ 50'X75' JACK AND BORE STAGING AREA FOR ENTRANCE PIT.
- $\langle 5 \rangle$ 25'X50' JACK AND BORE RECEIVING PIT STAGING AREA.
- 6 PROPOSED CONNECTION TO EXISTING ARTESIAN VALVE AND FORCE MAIN. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXISTING FORCE MAIN AND UTILITIES PRIOR TO CONSTRUCTION AND CONNECTION OF PROPOSED 3" FORCE MAIN TO EXISTING PRESSURE SYSTEM.

ARMAD/ COUNTY, E

PRINTS ISSUED FOR:

FORCEMAIN PLAN AND PROFILE

SCALE : 1" = 50'DESIGN BY : DLB DRAWN BY : RFT C6.2 CHECKED BY : TMG GMB FILE : 220024



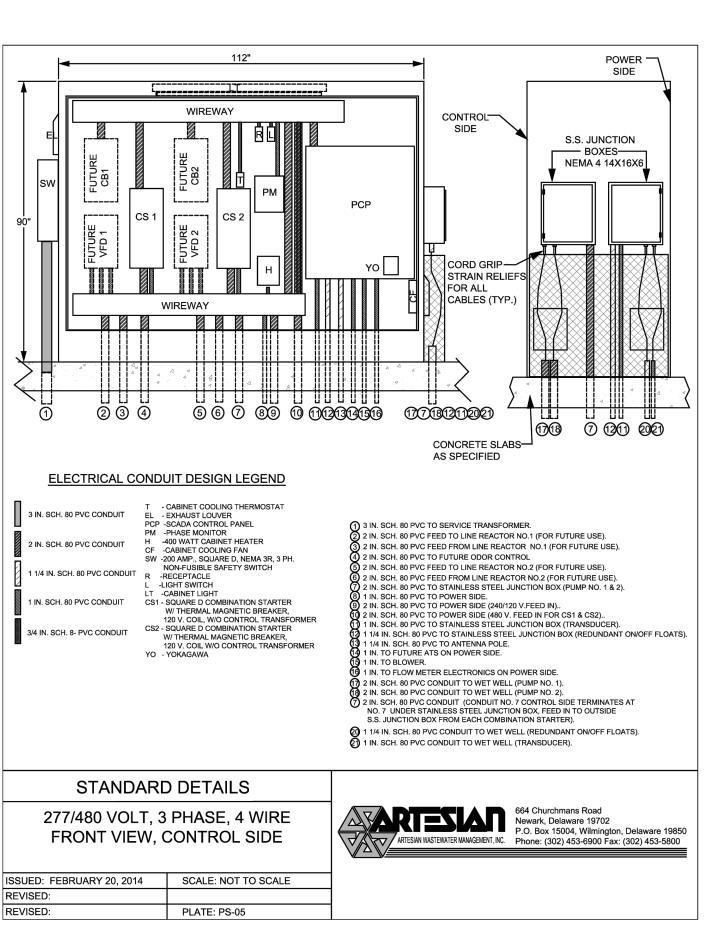
CONCRETE PAD TYPICAL SECTION

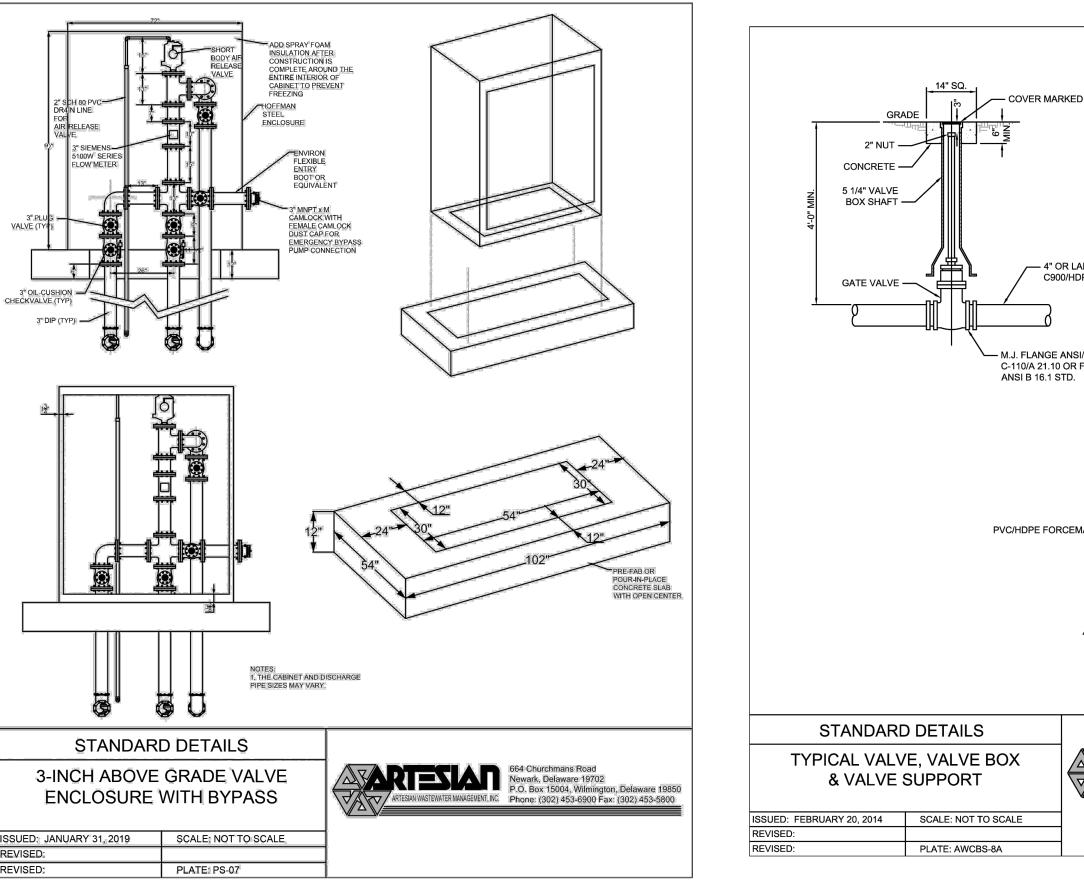
REVISED: SEPTEMBER 1, 2015 PLATE: PS-02

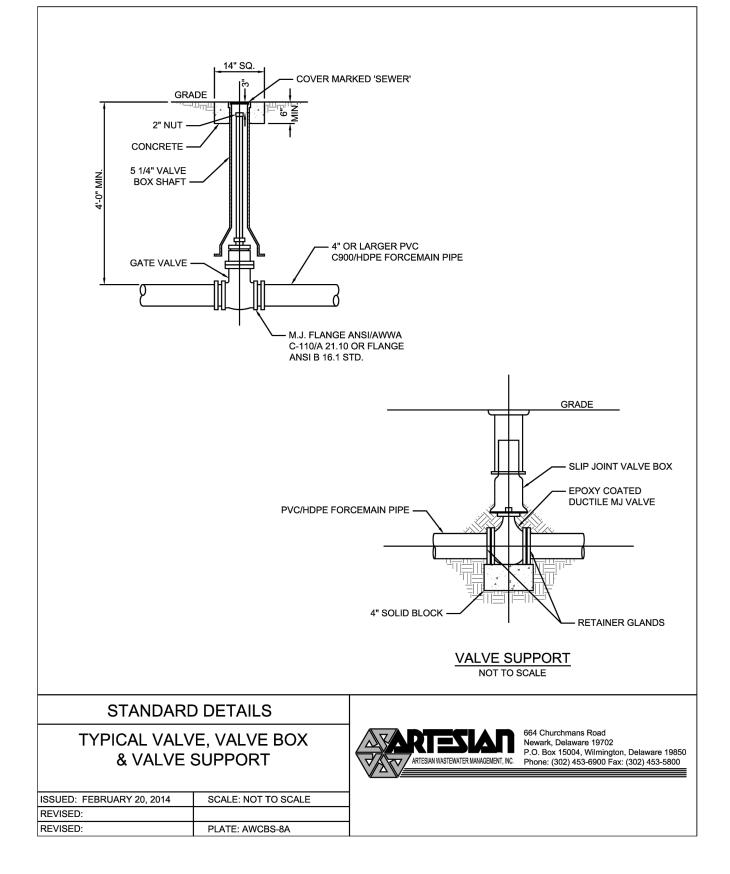
REVISED: SEPTEMBER 1, 2015 PLATE: PS-03

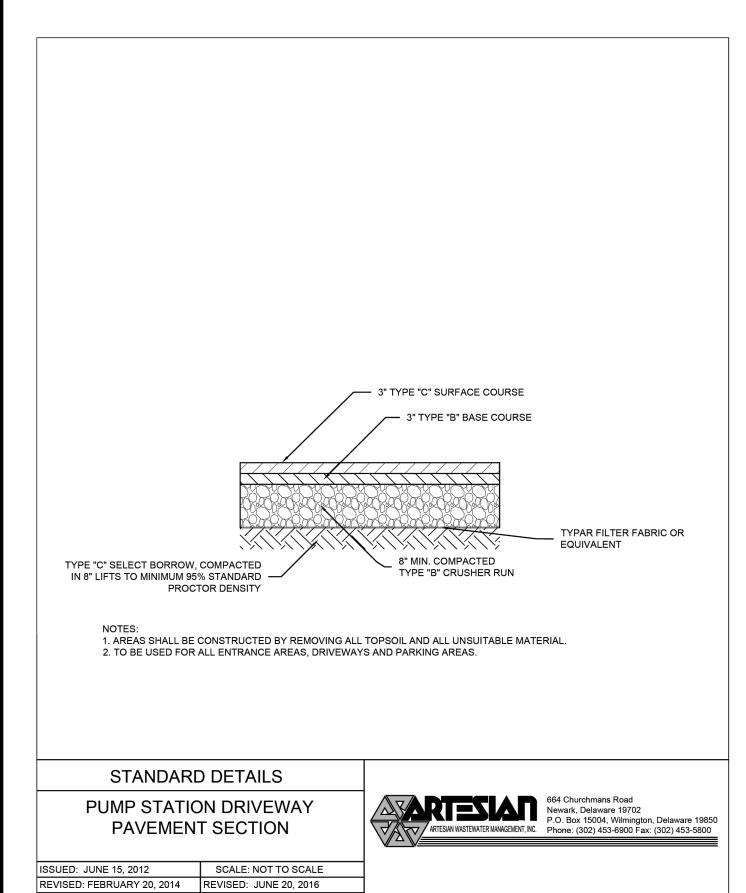
ISSUED: JUNE 15, 2012

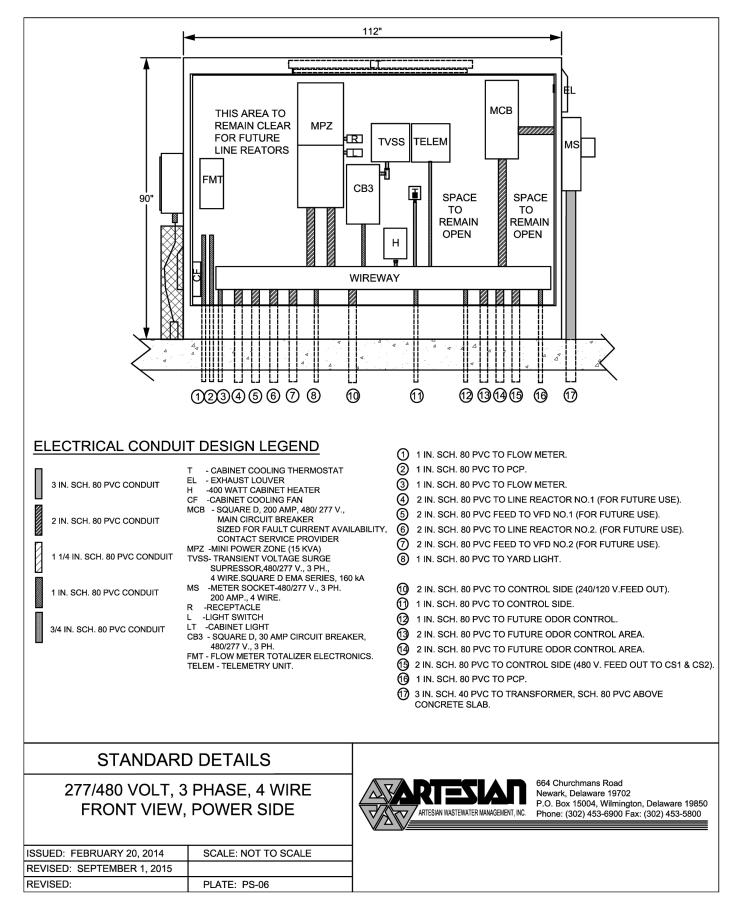
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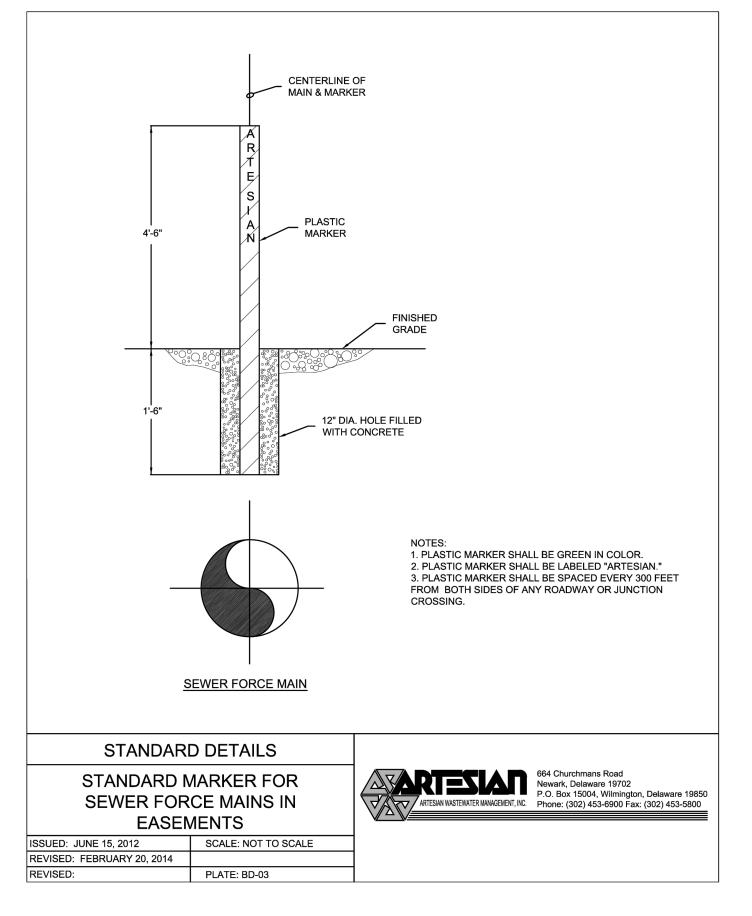


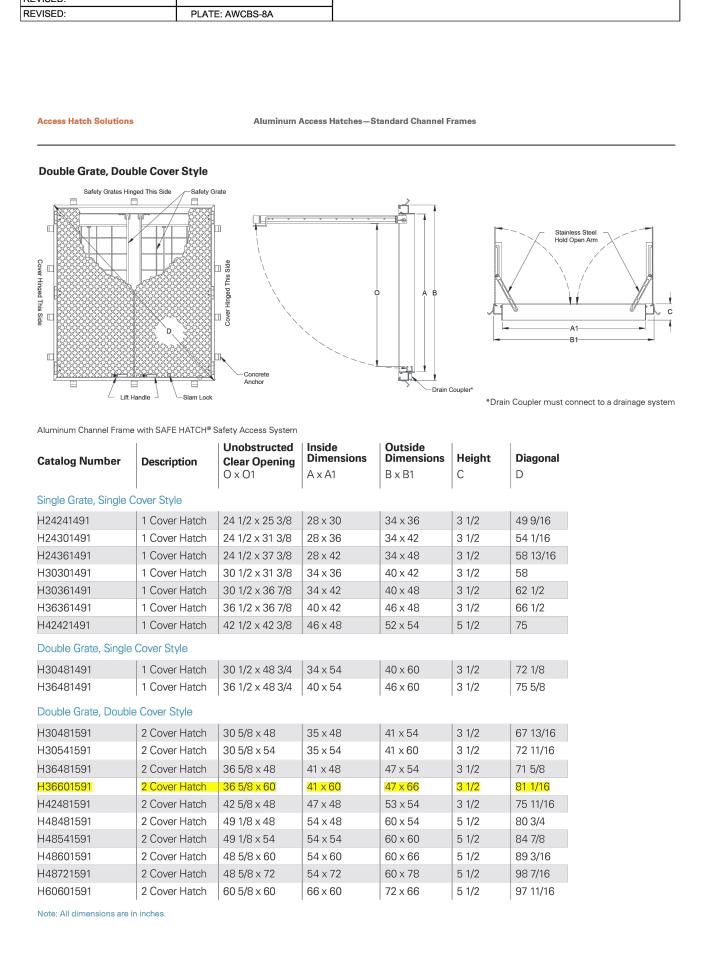




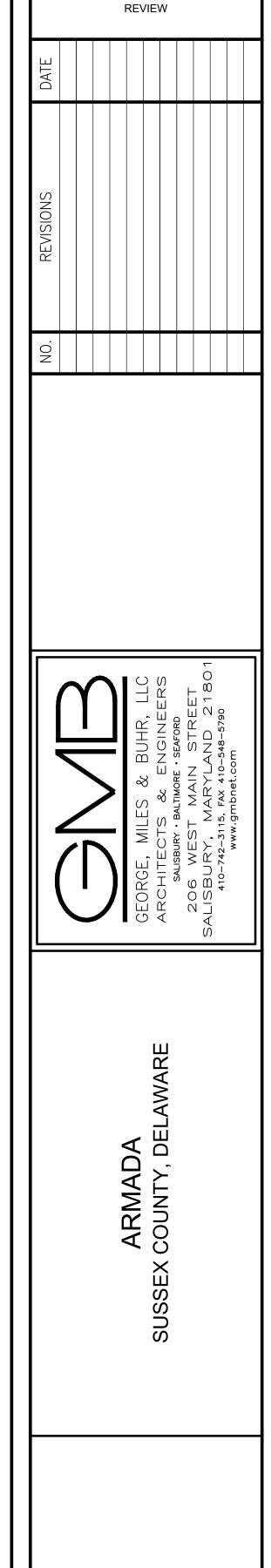








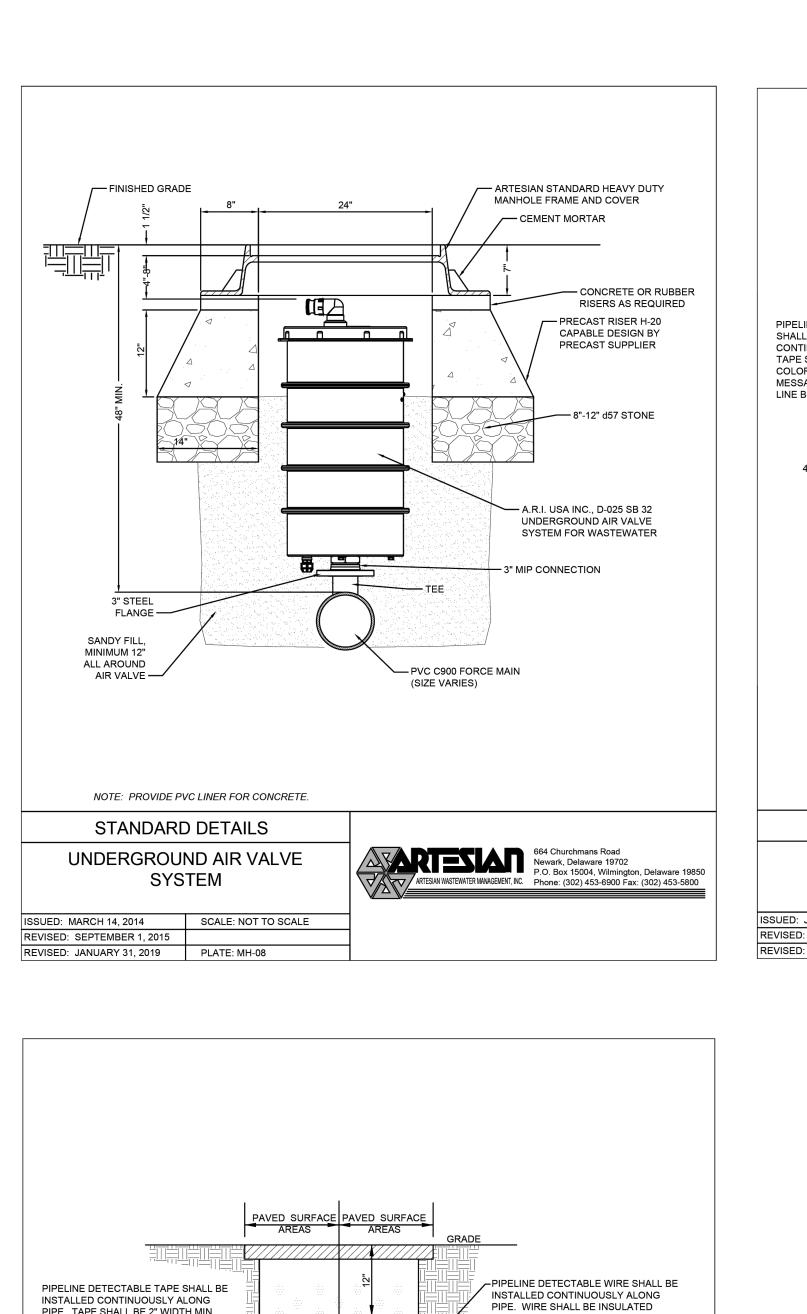
800 626 4653

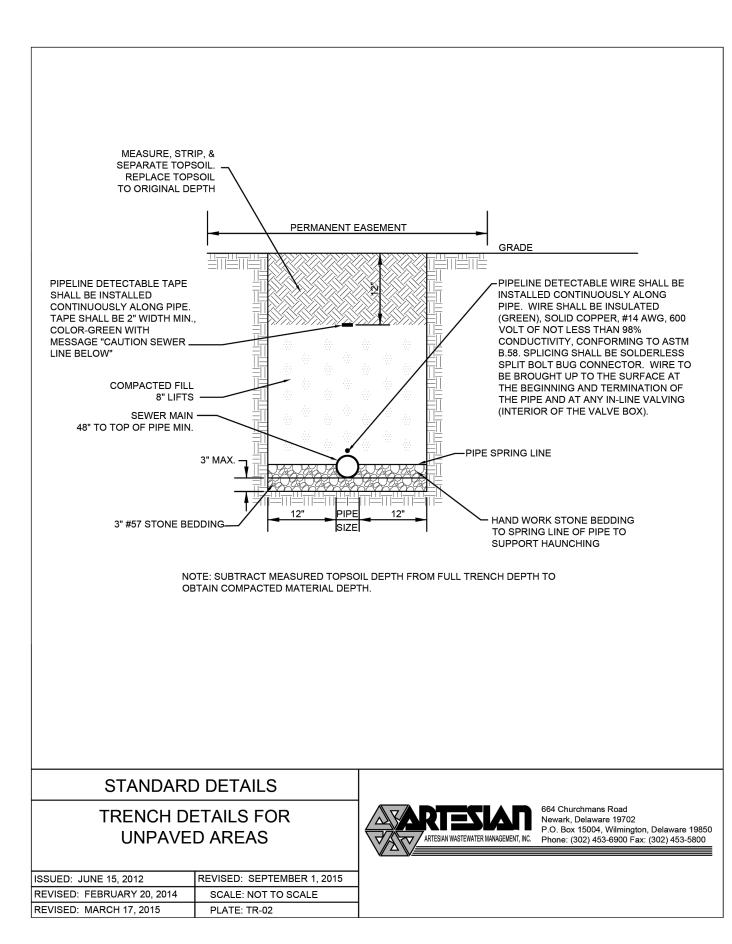


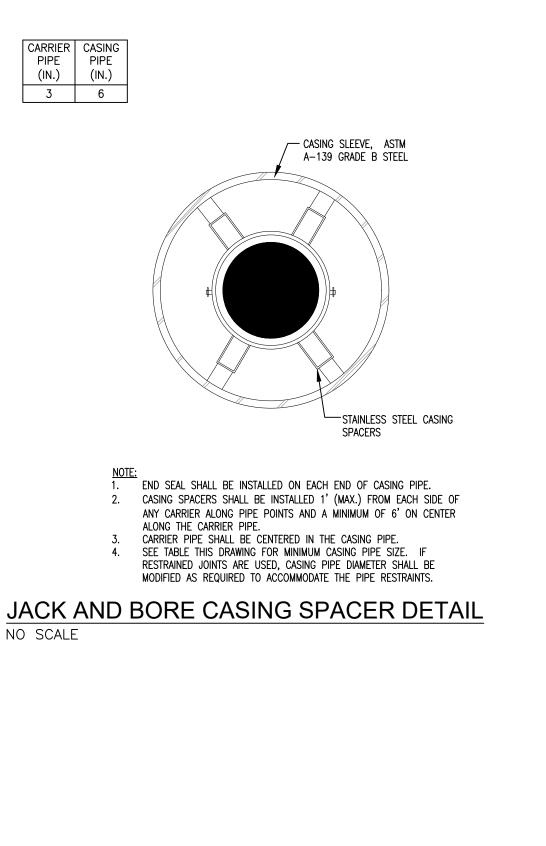
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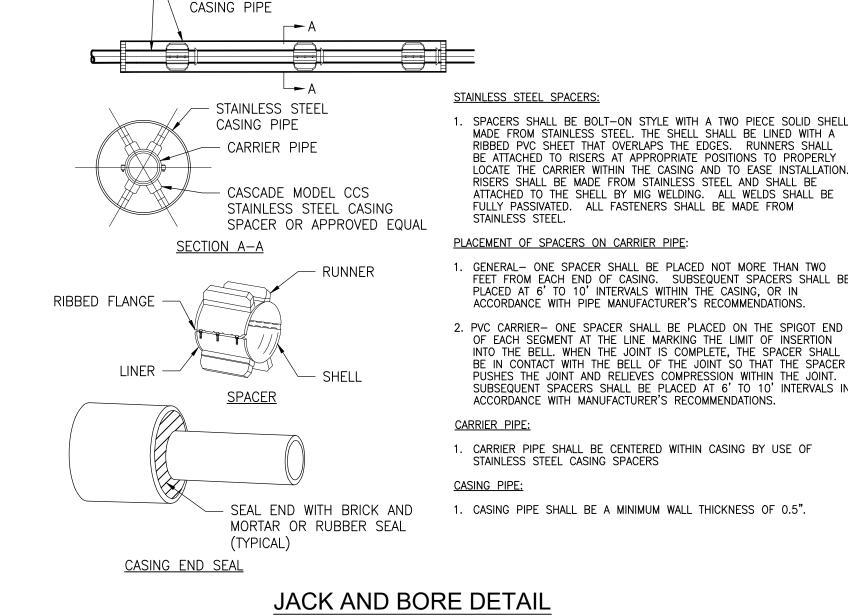
PUMP STATION DETAILS

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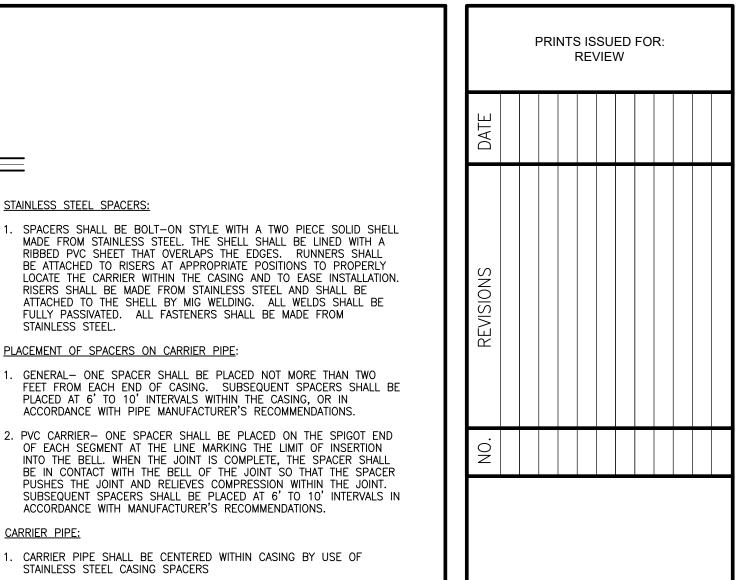




1-1/2" CLEAR #3 TIES O.C. — NO SCALE

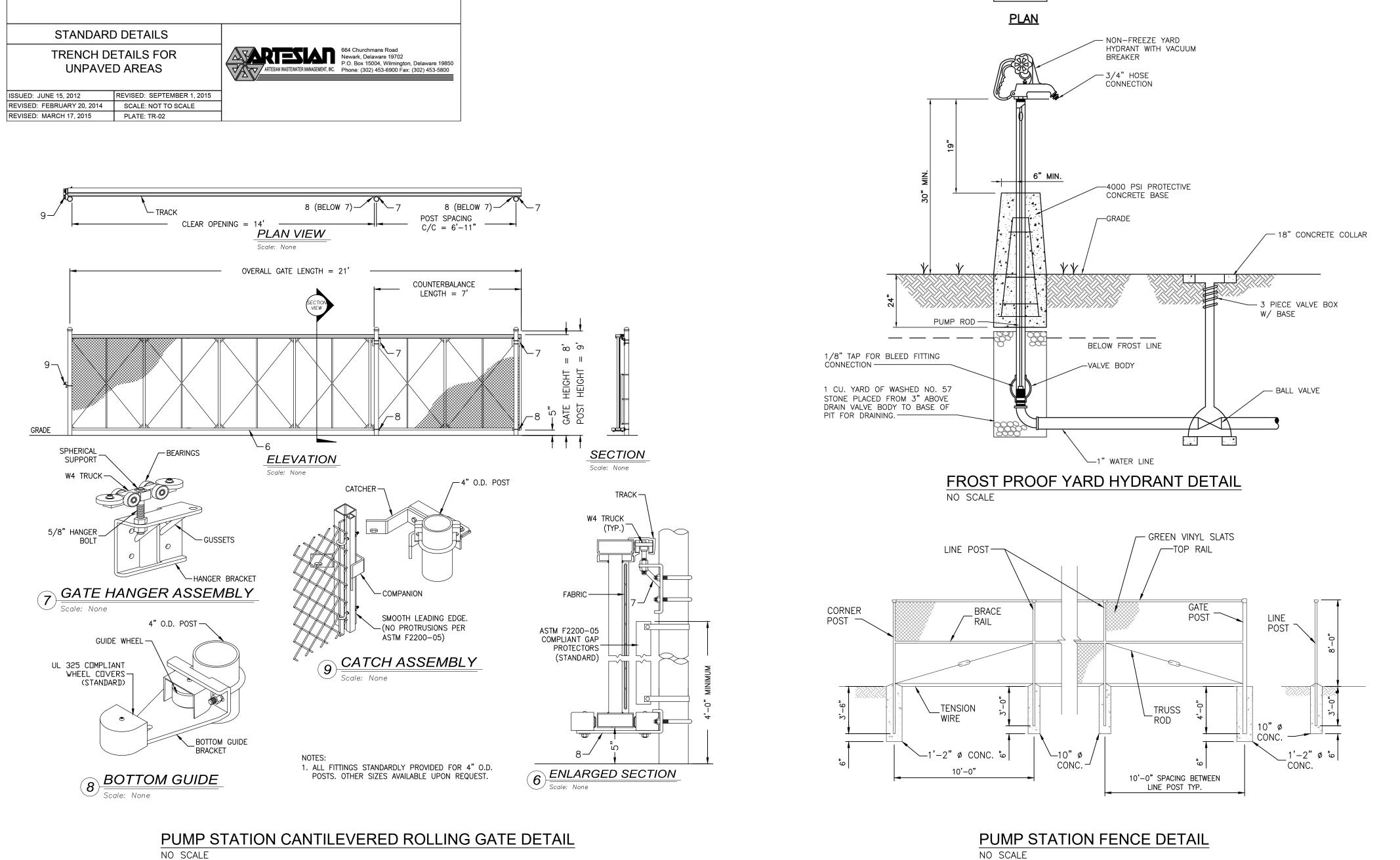
— CARRIER PIPE

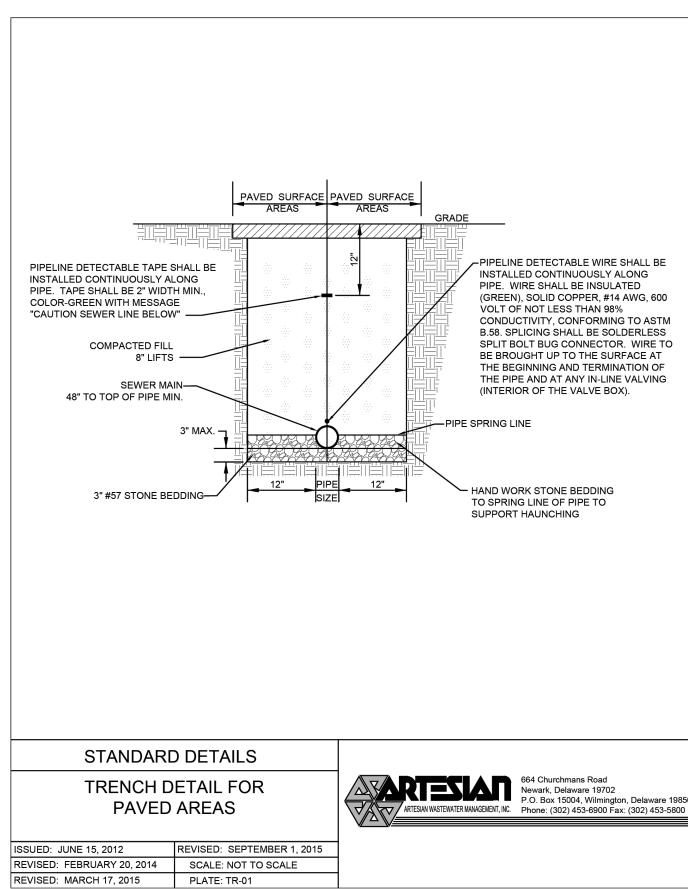
- STAINLESS STEEL



PUMP STATION DETAILS

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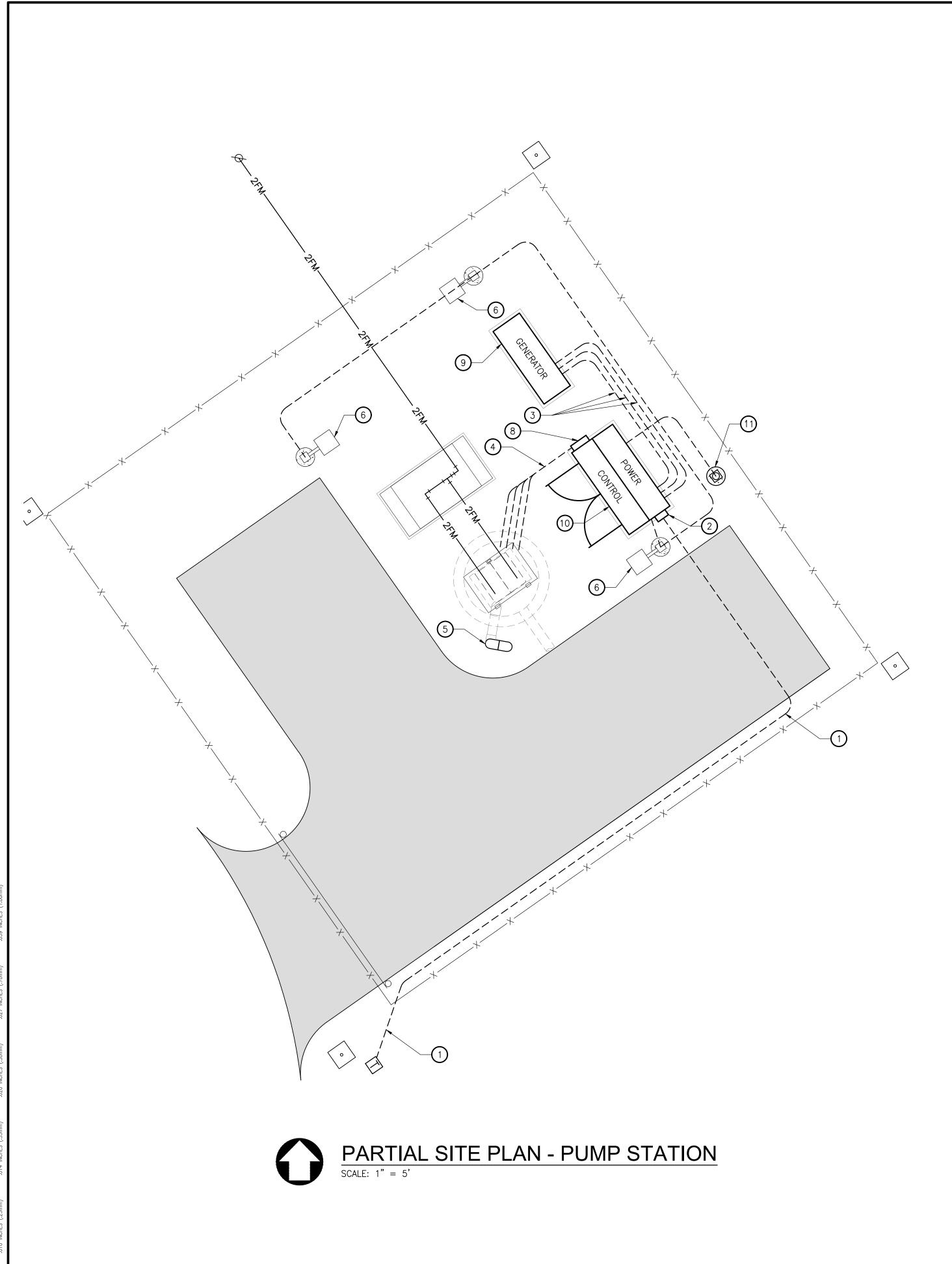


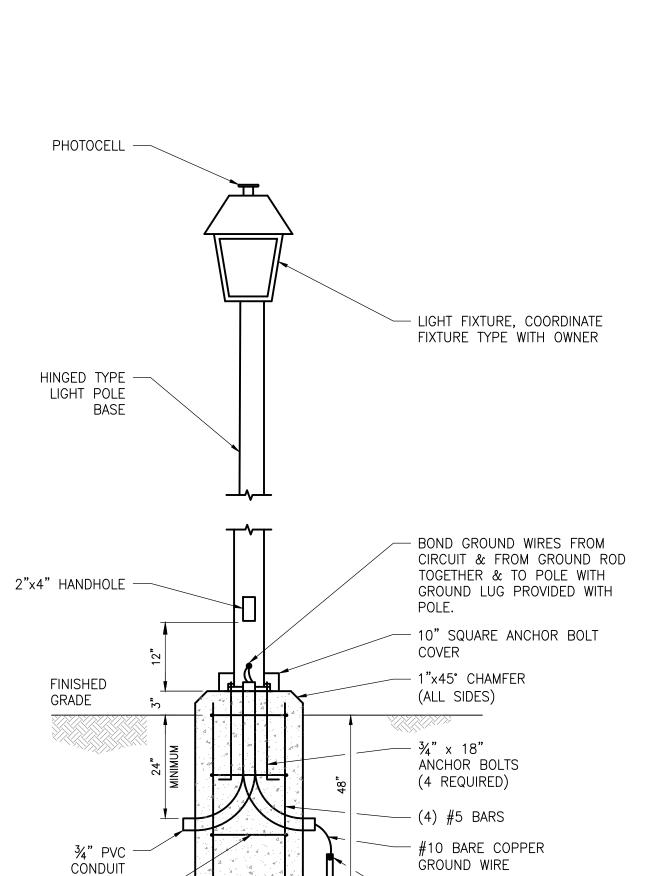


664 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19850

NO SCALE

GMB FILE : 220024 : APR 2024





- CADWELD

ROD

CONNECTION

 $-\frac{3}{4}$ "ø x 10'-0"

COPPER GROUND

DETAIL - LIGHT FIXTURE

18**"**ø

NO SCALE

#5 HOOP -

CONCRETE

(4 REQUIRED)

NOTE: FOUNDATION SHALL BE POURED ON UNDISTURBED SOIL. CONCRETE SHALL NOT BE POURED BELOW 40°F ON A FALLING TEMPERATURE.

DRAWING NOTES

- COORDINATE INSTALLATION OF CONDUIT WITH UTILITY.
- SERVICE METER SOCKET. MOUNT ON EXTERIOR OF SERVICE EQUIPMENT CABINET. PROVIDE VERTICAL ALUMINUM CHANNEL SUPPORTS (MINIMUM 1½" SQ. x 12GA) SECURED BY STAINLESS STEEL THRU-BOLTS.
- GENERATOR POWER AND CONTROL CONDUITS TO ELECTRICAL EQUIPMENT CABINET. SEE ONE LINE DIAGRAM SHEET E2.1.
- PUMP MOTOR AND LEVEL SENSING CONDUITS. 2 2" PVC COATED RGS CONDUITS WITH POWER CABLE PROVIDED WITH PUMPS AND 2 - 11/2" PVC COATED RGS CONDUITS WITH CONTROL CABLES PROVIDED WITH PUMP CONTROL DEVICES (SUBMERSIBLE PRESSURE TRANSDUCER AND FLOATS).
- 6"Ø SCH 80 PVC EXHAUST PIPE. SEE DETAIL SHEET E2.3.
- 6 SITE LIGHT. SEE DETAIL THIS SHEET.
- GROUND GRID CONSISTING OF 1/0 BARE COPPER CONDUCTOR NOT SHOWN FOR CLARITY. GROUND PER NEC TO ACHIEVE 25 OHMS OR LESS
- TERMINAL BOX SEE DETAIL SHEET E2.2.
- EMERGENCY STAND-BY GENERATOR SEE ONE-LINE DIAGRAM SHEET E2.1. SEE CIVIL FOR PAD DETIALS.
- EQUIPMENT CABINET SEE DETAIL SHEET E2.1. SEE CIVIL FOR PAD
- ANTENNA POLE LOCATION. EXTEND RG-6 CABLE IN 1"C. USE LONG RADIUS

ABBREVIATIONS

MOUNTING HEIGHT - TO CENTER OF DEVICE UNLESS OTHERWISE INDICATED. HAND OFF AUTOMATIC G.F.I. GROUND FAULT INTERRUPTER GND. GROUND WEATHERPROOF VOLT OR VOLTS POLE OR POLES

AMP OR AMPERES CONDUIT PHASE TYPICAL BREAKER

UG. UNDERGROUND K.V.A. KILOVOLT AMPERES H.P.S. HIGH PRESSURE SODIUM KILOWATTS

ABOVE FINISHED FLOOR PROGRAMMABLE LOGIC CONTROLLER SCADA SUPERVISORY CONTROL AND DATA ACQUISITION

HORSEPOWER POLYVINYL CHLORIDE ELEV. ELEVATION CFM CUBIC FEET/MINUTE

S.P. RPM STATIC PRESSURE REVOLUTIONS PER MINUTE HZ RGS ATS

RIGID GALVANIZED STEEL AUTOMATIC TRANSFER SWITCH SOLID NEUTRAL NON-FUSED SAFETY SWITCH S.N. NFSS

LEGEND

POLE TOP MOUNTED LED LUMINAIRE

RECEPTACLE - 20A., 125V. - SIMPLEX, DUPLEX

JUNCTION BOX, WALL MOUNTED

MOTOR - NUMBER DENOTES HORSEPOWER

2 #12 & 1 #12 GND.—¾" C.

· UNLESS OTHERWISE NOTED

CONDUIT-EXPOSED CONDUIT-IN OR

UNDER FLOOR SLAB OR UNDERGROUND

HOMERUN TO PANEL - NO. OF ARROWS INDICATES NO. OF CIRCUITS AND NO. OF CROSSLINES INDICATES NO. OF #12 CONDUCTORS.

THERMOSTAT

THERMAL MANUAL MOTOR STARTER

GROUND ROD

PRINTS ISSUED FOR: REVIEW

ARMADA COUNTY, DEL

PUMP STATION ELECTRICAL PLAN

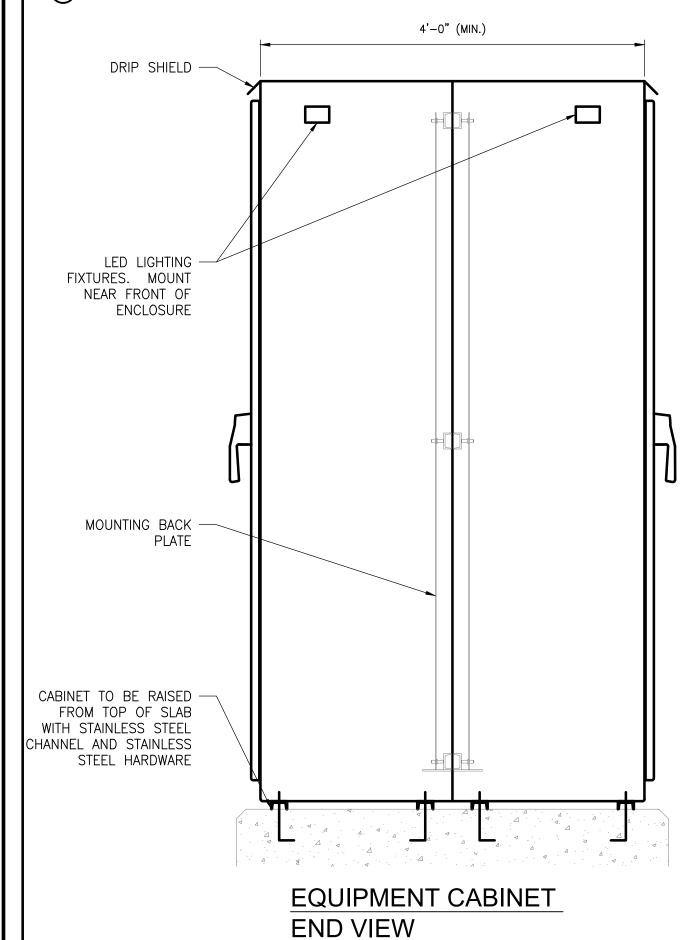
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LEGEND

- SERVICE MAIN CIRCUIT BREAKER 240V, 2P, 100A TRIP, NEMA 1. BOND NEUTRAL AND GROUND HERE.
- 2 ELECTRICAL SERVICE METER SOCKET 200A. PROVIDE PER POWER COMPANY SPECIFICATIONS.
- 3 AUTOMATIC TRANSFER SWITCH 2P, 125A. SOLID NEUTRAL.
- 4 DIESEL ENGINE GENERATOR SET. 25kW/31.25kVA, 120/240V, 10, 3W.
- **5** 3 #3 1¼°C
- 6 GENERATOR ENCLOSED CIRCUIT BREAKER 2P, 100A. REMOVE BOND BETWEEN NEUTRAL AND GROUND.
- EXTEND (3 SETS) 3 #12 1"C (GENERATOR BATTERY CHARGER, BLOCK HEATER AND CONTROL PANEL) TO PANEL L AND 4 #14 - 1"C (CONTROL) TO TRANSFER
- 8 VARIABLE FREQUENCY DRIVE, 240V-10 INPUT/240-30 OUTPUT.
- 9 SURGE PROTECTION DEVICE (SPD).
- 10 PANEL L 120/240V, 10, 3-WIRE (SEE SCHEDULE, THIS SHEET).
- (11) MOTOR-RATED RELAY.
- (12) ELECTRICAL SERVICE EQUIPMENT CABINET. SEE DETAILS, THIS SHEET.
- #6 GROUND PER NEC.

(14) 3 #3 AND 1 #8 GRD - 11/4"C

- (15) CONDUIT AIR GAP WITH EXPANDED METAL COVER SEE DETAIL ON SHEET E2.2.
- (16) MANUAL MOTOR STARTER NEMA 4 ENCLOSURE.
- (17) 2 #12 AND 1 #12 GRD -3/4"C
- (18) STAINLESS STEEL ANCHOR BOLTS PER CABINET MANUFACTURER'S RECOMMENDATION.
- (19) 3 #8 AND 1 #10 GRD 3/4"C
- NEMA 4X PULL BOX. SIZED FOR CABLES AND CONDUIT BEING USED. PROVIDE POWER DISTRIBUTION BLOCK FOR TERMINATION OF PUMP CABLES.
- 21) SPD ENCLOSED CIRCUIT BREAKER 2P, 60A.
- **22** 2 #8 AND 1 #10 GRD $-\frac{3}{4}$ "C.
- 23) 5% LINE REACTOR.
- (24) CONDUIT SEAL FITTING.
- **(25)** 3 #6 AND 1 #6 GRD -3/4"C.
- **26** ENCLOSED CIRCUIT BREAKER 2P, 40A.
- **27)** 4 #6 1"C
- MANUFACTURER'S TRANSDUCER CABLE AND FLOAT CABLE IN SEPARATE 1½"C
- **29** 3P, 30A DISCONNECT SWITCH, NEMA 4X.



SCALE: NO SCALE

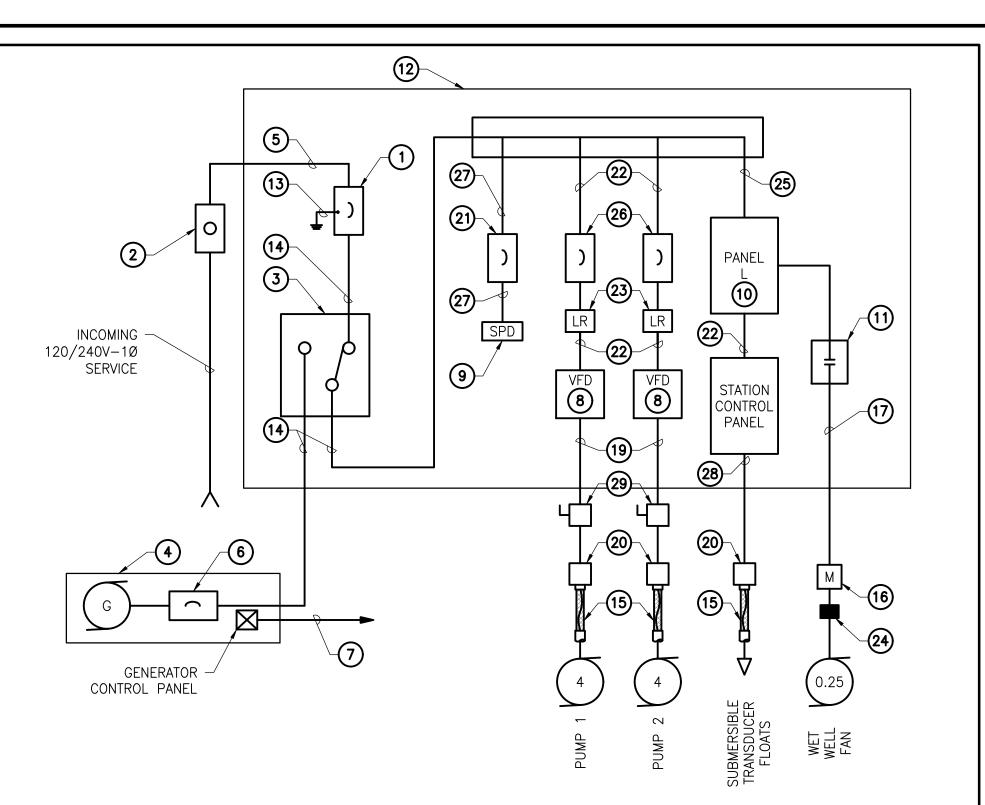
	PANEL SCHE)ULE: "l	_" 120/2	240v - 1	PHAS	E, 3 WIRE - SOLID NEUTRAL			
CIRC. CIRCUIT DESIGNATION	BREAKER			CIRC.		BREAKER			
	CIRCUIT DESIGNATION	POLE	CALIB		NO.	CIRCUIT DESIGNATION	POLE	CALIB	kVA
1	SUBMERSIBLE PRESSURE TRANSDUCER	1	20	0.1	2	PUMP STATION CONTROL PANEL	1	30	2.8
3	CABINET LIGHT	1	20	0.1	4	CABINET RECEPTACLE	1	20	0.4
5	WET WELL SUPPLY FAN	1	20	0.5	6	CABINET HEATER	1	20	0.5
7	GENERATOR – BLOCK HEATER	1	20	1.0	8	GENERATOR - CONTROL PANEL	1	20	1.0
9	GENERATOR — BATTERY CHARGER	1	20	1.0	10	SITE LIGHT	1	20	0.1
11	CABINET FAN	1	20	0.5	12	SPARE	1	20	1.0
13	SPARE	1	20	1.0	14	SPARE	1	20	_
15	SPARE AND BUS	1	20	1.0	16	SPARE AND BUS	1	20	_
17	SPACE AND BUS	1	20	_	18	SPACE AND BUS	1	20	_
LOAD CONN		CONN.	%	DEM'D	NOTES:				
LIGHTS	LIGHTS		100	0.2	A = (kVAx1000)/V		44.7	AMPS	DEM
RECEPTACLES		0.4	100	0.4	MAIN BREAKER: 60A, 2P				
MOTORS	6	1.0	80	0.8000	00 ENCLOSURE TYPE: NEMA 4X				
SPARES	3	3.0	50	1.5000	ENCLOSURE LOCATION: ELECTRICAL EQUIPMENT CABINET				
MISCELLANEOUS		6.4	100	6.4000	*-INDICATES GFI BREAKER				
	FED FROM ATS								

| FED FROM AIS 11.0 9.3 MINIMUM SHORT CIRCUIT INTERRUPTION RATING: 10,000 AIC

CONDUIT NOTES

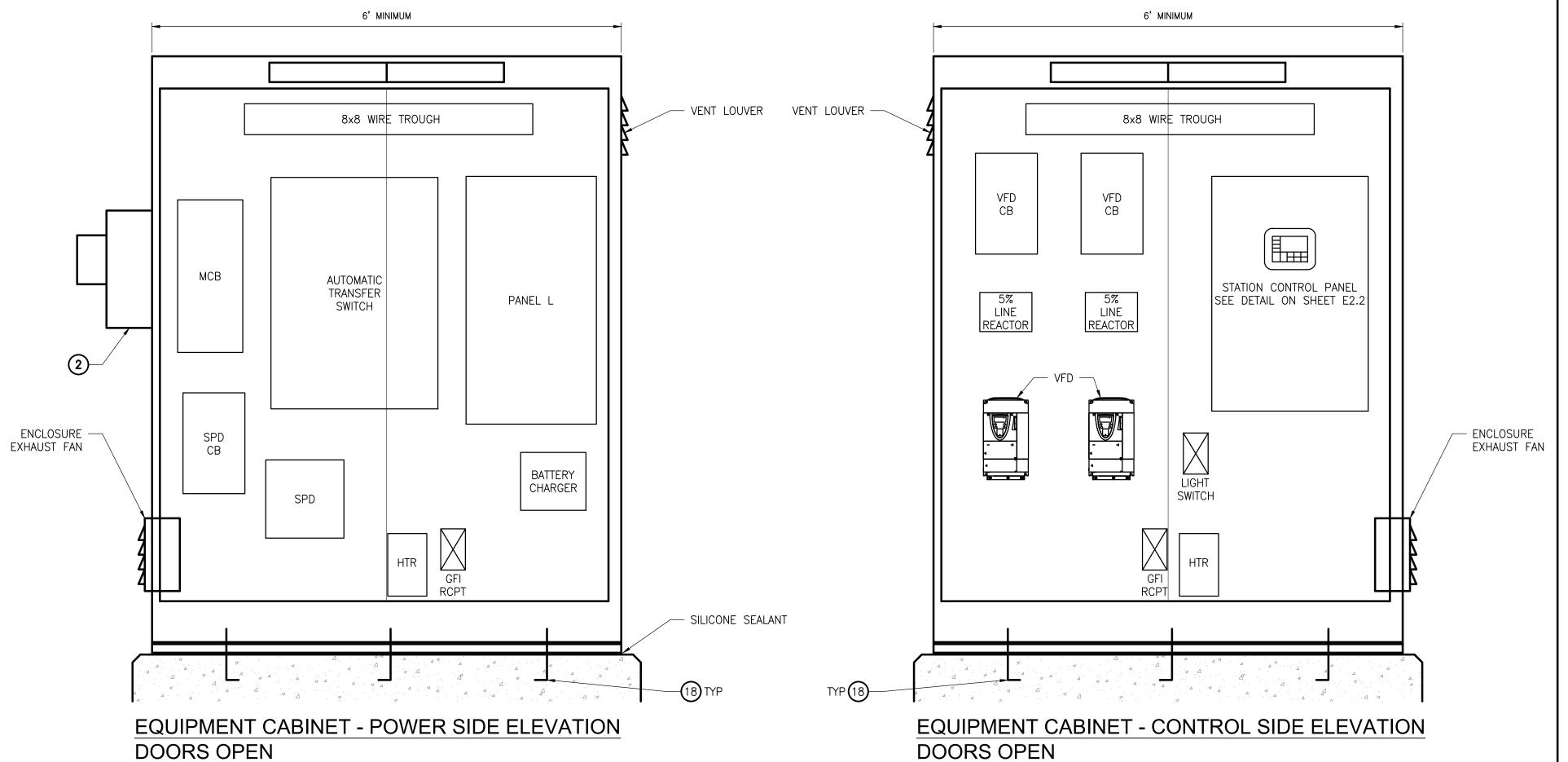
- 1. ALL CONDUIT INSIDE WET WELL TO ONE FOOT BEYOND WET WELL WALL EXTERIOR SHALL BE PVC-COATED RGS.
- 2. ALL BURIED CONDUIT TO BE PVC SCH. 40 CONDUIT.
- 3. ALL CONDUIT IN CONTACT WITH CONCRETE OR ON EXTERIOR OF STRUCTURE TO BE PVC-COATED RGS.
- 4. ALL CONDUIT RUN INSIDE EQUIPMENT CABINET TO BE RGS CONDUIT.

SCALE: NO SCALE



ELECTRICAL ONE-LINE DIAGRAM SCALE: NO SCALE

NOTE: CONTRACTOR SHALL PROVIDE POWER SYSTEM STUDY. IT SHALL BE PERFORMED BY A DELAWARE PROFESSIONAL ENGINEER AND INCLUDE SHORT-CIRCUIT STUDY, PROTECTIVE DEVICE COORDINATION STUDY, AND ARC FLASH RISK ASSESSMENT & LABELING FOR ALL EQUIPMENT BEING INSTALLED OR MODIFIED. LABELS SHALL INDICATE HAZARD LEVEL AND PPE REQUIREMENTS AS REQUIRED BY NFPA 70E AND IEEE 1584.



EQUIPMENT CABINET ELEVATIONS NOTE:
INTEGRATOR TO INSURE ALL EQUIPMENT DOORS CAN BE OPENED AROUND REMOVABLE DOOR CENTER SUPPORTS.

SCALE: NO SCALE

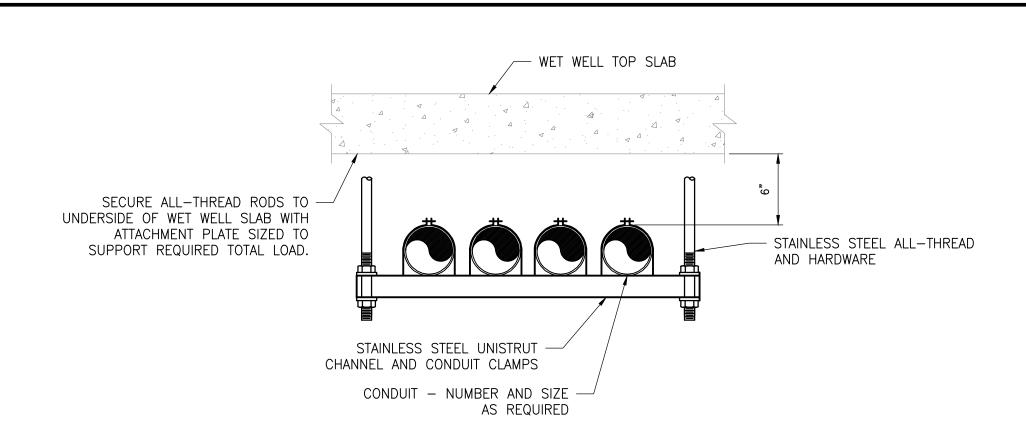
PUMP STATION ELECTRICAL DETAILS DESIGN BY : JRS DRAWN BY : RFT E1.2

CHECKED BY : TMG GMB FILE : 220024

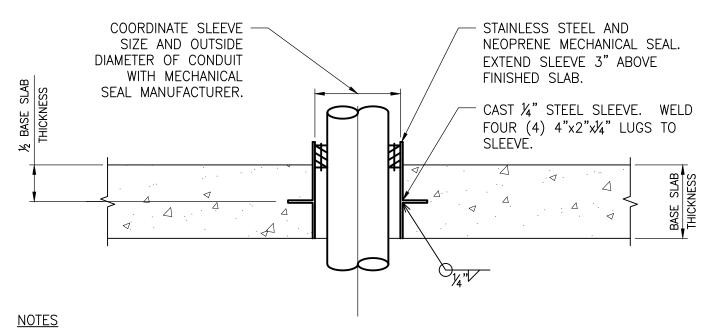
: APR 2024

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REVIEW

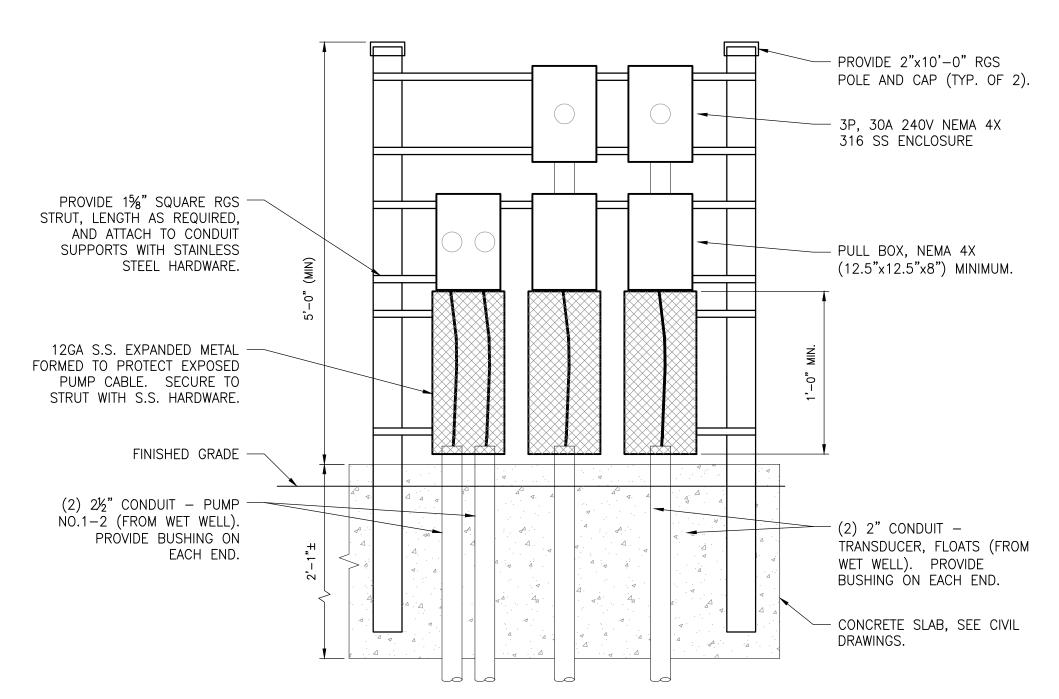


INTERIOR CONDUIT SUPPORT RACK DETAIL SCALE: NO SCALE

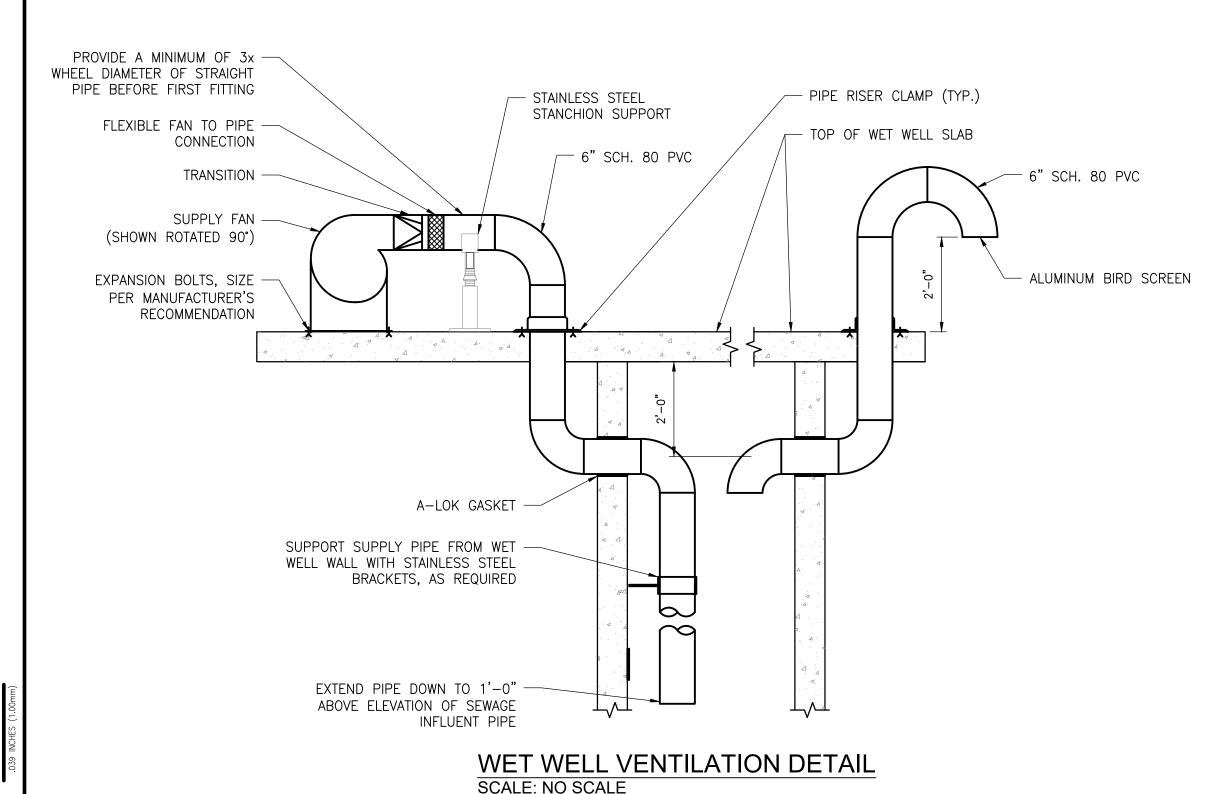


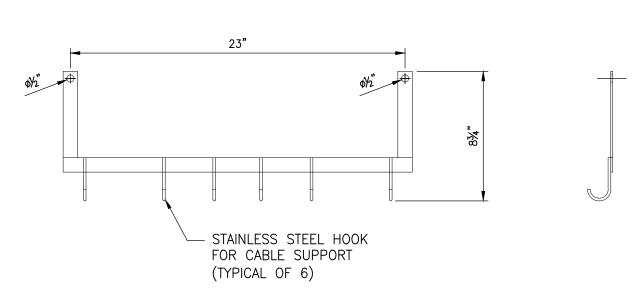
- 1. INSTALL SEALS ON BOTH SIDES OF SLAB WHEN THICKNESS EXCEEDS 15 INCHES.
- 2. GROUT/CAST STEEL FRAME WITH COMPRESSIBLE, ELASTOTHERMIC SECTIONS INTO FLOOR WHERE MORE THAN THREE (3) CONDUITS PENETRATE THE SLAB. CROUSE-HINDS "THRU-WALL-BARRIER OR EQUAL.

CONDUIT PENETRATION THRU CONCRETE SLAB SCALE: NO SCALE

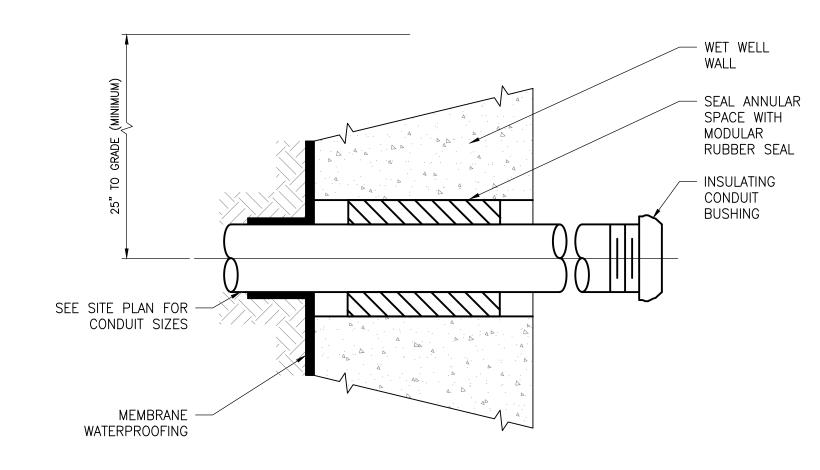


DETAIL - CONDUIT AIR GAP SCALE: NO SCALE

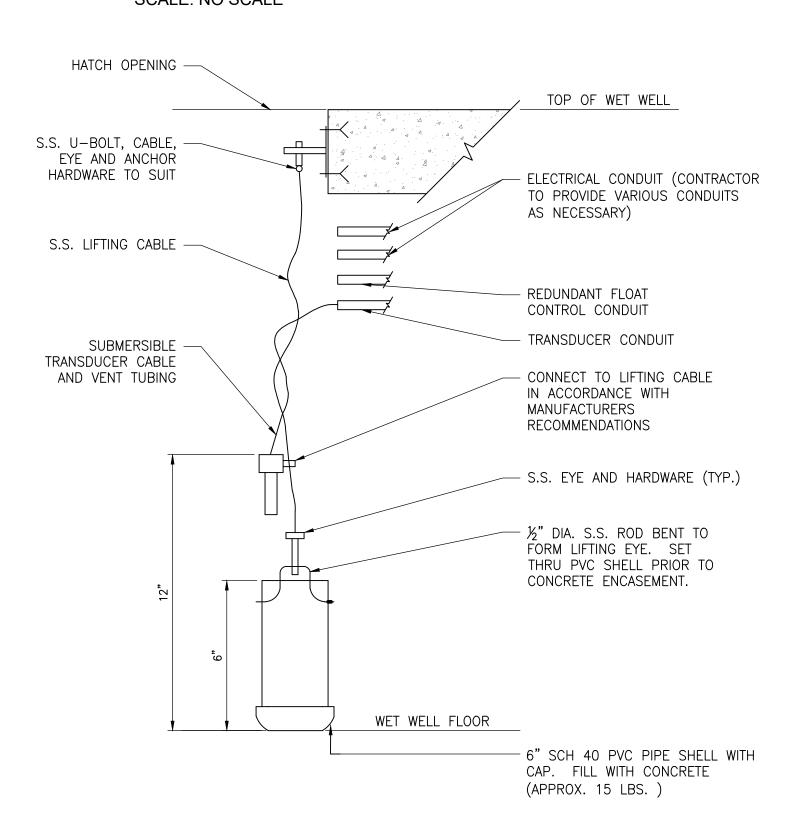




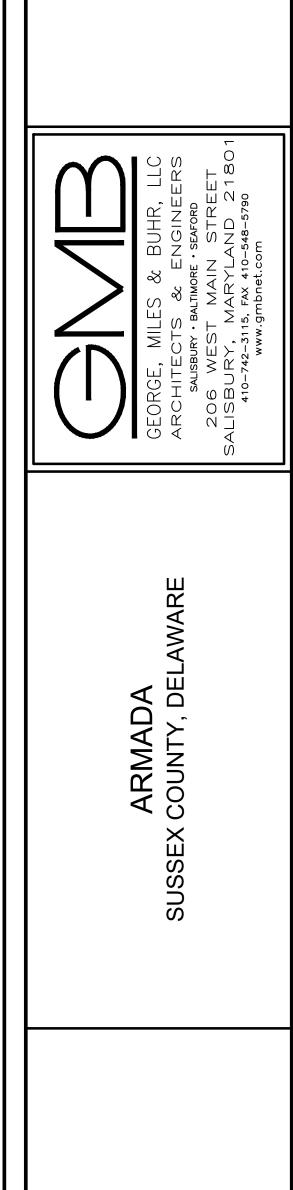
CABLE HOLDER DETAIL SCALE: NO SCALE



DETAIL - CONDUIT ENTRY THRU WALL SCALE: NO SCALE



SUBMERSIBLE PRESSURE TRANSDUCER DETAIL SCALE: NO SCALE



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E1.3 CHECKED BY : TMG GMB FILE : 220024 : APR 2024

PUMP STATION

ELECTRICAL

DETAILS

: NO SCALE

DESIGN BY : JRS

DRAWN BY : RFT