

CITY OF TAUNTON, MASSACHUSETTS

BRISTOL COUNTY, MA

2023 PUMP STATION IMPROVEMENTS

CONTRACT NO. S-2023-2

CWSRF-7210

APRIL 2023

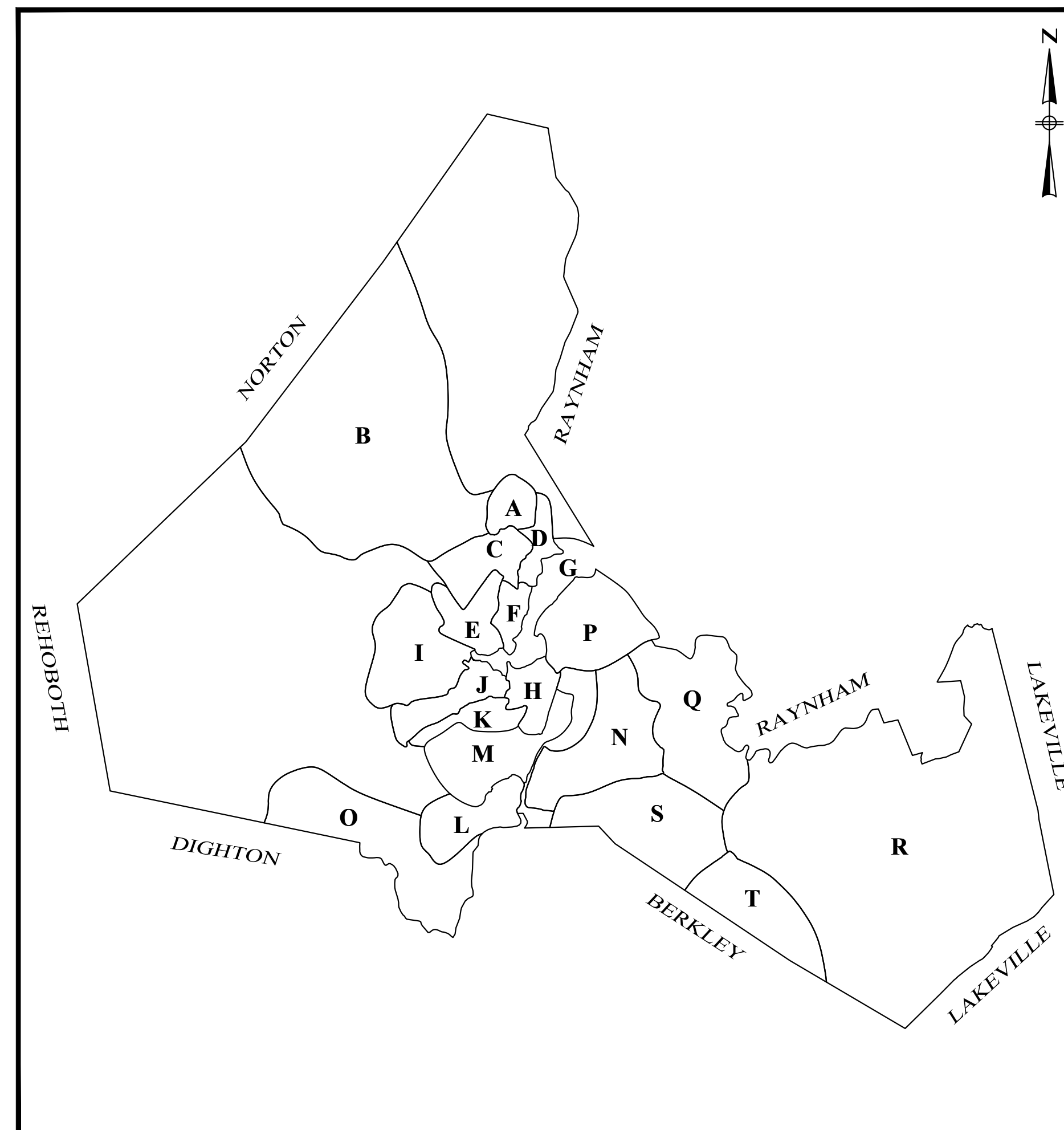
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PROJECT LOCATION MAP
NOT TO SCALE

**ISSUED FOR SRF REVIEW
NOT FOR CONSTRUCTION**

PREPARED BY:



ISSUE DATE: APRIL 2023



REGISTERED PROFESSIONAL

4/7/2023

DATE

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LEGEND

GENERAL SYMBOLS

	CC	CURB OR BERM (TYPE AS NOTED)
	EOP	EDGE OF PAVEMENT
	⊕	CATCH BASIN (OR GUTTER INLET)
	⊙	DRAIN MANHOLE
	⊙	BRADLEY HEAD CATCH BASIN
	⊙	SEWER MANHOLE
	⊙	WATER VALVE
	⊙	CURB STOP
	⊙	GAS VALVE
	⊙	HYDRANT
	⊙	UTILITY POLE
	⊙	ELECTRIC MANHOLE
	⊙	SIGN
	⊙	BOLLARD
	⊙	TREE
	D	DRAIN PIPE (SIZE AS NOTED)
	S	SEWER MAIN (SIZE AS NOTED)
	SS	SEWER SERVICE
	FM	SEWER FORCE MAIN (SIZE AS NOTED)
	E	ELECTRIC DUCT
	G	GAS MAIN (SIZE AS NOTED)
	W	WATER MAIN
	T	TELEPHONE DUCT
	EOH	OVERHEAD WIRES
	x	CHAIN LINKED FENCE
	—	GUARDRAIL
	—	PROPERTY LINE
	—	SHRUB
	—	CONSTRUCTION BASELINE
	15	CONTOUR MAJOR
	14	CONTOUR MINOR
	⊙	SEWER MANHOLE
	S	SEWER MAIN (SIZE AS NOTED)
	ECB	EROSION CONTROL BARRIER/ STRAW WATTLE
	x	CHAIN LINK FENCE

PROPOSED

ABBREVIATIONS

GENERAL

ABAN.	ABANDON
ADJ.	ADJUST
APPROX.	APPROXIMATE
BL.	BASELINE
BM	BENCH MARK
BIT.	BITUMINOUS
B.B.	BITUMINOUS BERM
B.C.	BITUMINOUS CURB
B.O.B.	BOTTOM OF BORING
BOS	BOTTOM OF SLOPE
BOW	BOTTOM OF WALL
BD OR BND	BOUND
BLDG.	BUILDING
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CONC.	CONCRETE
C.C.	CONCRETE CURB
DWY.	DRIVEWAY
E.P., E.O.P.	EDGE OF PAVEMENT
EL.	ELEVATION
EXIST. OR EX.	EXISTING
GAR.	GARAGE
GRAN.	GRANITE
G.C.	GRANITE CURB
G.E.	GRANITE EDGING
GRAV.	GRAVEL
GD	GROUND
HOR.	HORIZONTAL
HMA	HOT MIX ASPHALT
IP	IRON PIPE
LP	LOW POINT
MB	MAIL BOX
MHB	MASSACHUSETTS HIGHWAY BOUND
MAX.	MAXIMUM
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
PVMT.	PAVEMENT
PEB	PERMANENT EASEMENT BOUNDARY
P OR PROP. LINE	PROPERTY LINE
PROP.	PROPOSED
R&D	REMOVE & DISPOSE
REM.	REMOVE
REMOD.	REMODEL
RET.	RETAINING
ROW	RIGHT-OF-WAY
S.H.L.	STATE HIGHWAY LAYOUT LINE
TBD	TO BE DETERMINED
TOS	TOP OF SLOPE
TOW	TOP OF WALL
TYP.	TYPICAL

UTILITIES

ACCMP	ASPHALT COATED CORRUGATED METAL PIPE
BH-#	BRADLEY HEAD STYLE DRAIN STRUCTURE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CIP	CAST IRON PIPE
CIT	CHANGE IN TYPE
CL	CLASS (PIPE, CONCRETE, EXCAVATION, ETC.)
COND.	CONDUIT
CAP	CORRUGATED ALUMINUM PIPE
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
CSP	CORRUGATED STEEL PIPE
CULV.	CULVERT
CI	CURB INLET OR CAST IRON
DI	DUCTILE IRON
DMH	DRAIN MANHOLE
EL. (OR ELEV.)	ELEVATION
FM	FORCE MAIN
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
F&I	FURNISH AND INSTALL
GIP	GALVANIZED IRON PIPE
GG	GAS GATE
GI	GUTTER INLET
HDW	HEADWALL
HYD.	HYDRANT
INV.	INVERT ELEVATION
LP	LIGHT POLE
MH	MANHOLE
PVC	POLY-VINYL-CHLORIDE PIPE
PWW	PAVED WATER WAY
R&D	REMOVE & DISPOSE
RCP	REINFORCED CONCRETE PIPE
SMH	SEWER MANHOLE
SD	SUBDRAIN
TSV&B	TAPPING SLEEVE, VALVE AND BOX
TS	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
UP	UTILITY POLE
VCP, VC	VITRIFIED CLAY PIPE
WG	WATER GATE
WM	WATER METER/WATER MAIN
WIP	WROUGHT IRON PIPE

PREPARED BY



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REGISTERED PROFESSIONAL



SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

LEGNED & INDEX

NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: 10685

SCALE

NONE

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Not for Construction

SHEET NO.

G-1

GENERAL CIVIL NOTES

GENERAL

- 1) THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE THE SPECIFICATIONS FOR THIS CONTRACT. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS IN ADDITION TO THE GENERAL NOTES.
- 2) THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE INDICATED LIMITS OF WORK AS SHOWN IN THE CONTRACT DRAWINGS. ALL SURFACES DAMAGED OUTSIDE THESE LIMITS BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
- 3) ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF SUCH CONTROLS DURING CONSTRUCTION. UPON STABILIZATION, ALL EROSION CONTROL DEVICES AND ACCUMULATED ERODED MATERIAL SHALL BE REMOVED. SEE SOIL EROSION AND SEDIMENTATION CONTROL NOTES.
- 4) DUST CONTROL, USING CALCIUM CHLORIDE, SHALL BE PROVIDED FOR ALL SURFACES OF BACK FILLED AREAS, ALL EQUIPMENT ACCESS ROADWAYS AND/OR AS OTHERWISE DIRECTED BY THE OWNER/ENGINEER.

MAPPING

- 5) THE BASE PLANS PROVIDED ARE BASED ON AVAILABLE RECORD INFORMATION AND FIELD INSPECTIONS COMPLETED BY BETA.
- 6) HORIZONTAL DATUM - COORDINATE VALUES REFER TO NORTH AMERICAN DATUM OF 1983 (NAD 83), MASSACHUSETTS STATE PLAN, MAINLAND ZONE.
- 7) VERTICAL DATUM - NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- 8) THE LOCATION, SIZE, AND MATERIAL OF EXISTING PIPES, DUCTS, CONDUITS AND OTHER UNDERGROUND STRUCTURES AND/OR UTILITIES SHOWN ON THESE PLANS ARE FROM THE BEST AVAILABLE SOURCES AND ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES, UTILITIES OR STRUCTURES ARE SHOWN. EXACT LOCATION TO BE DETERMINED BY CONTRACTOR IN FIELD.
- 9) EXISTING UTILITIES HAVE BEEN PLOTTED FROM THE BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND NOTIFY ALL UTILITY COMPANIES (PUBLIC AND PRIVATE). IN ADDITION, "DIG SAFE" MUST BE CONTACTED AT 1(888)-DIG-SAFE 48 HOURS IN ADVANCE OF CONSTRUCTION.
- 10) THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN THE DESIGN PLANS PRIOR TO THE START OF CONSTRUCTION.
- 11) "AS-BUILT" DRAWINGS MAY BE EXAMINED AT THE **CITY OF TAUNTON** ENGINEERING OFFICE. THE OWNER DOES NOT GUARANTEE THE CORRECTNESS OF THE CONTENTS OF THESE PLANS. THE CONTRACTOR IS CAUTIONED AGAINST RELYING SOLELY ON THE "AS-BUILTS" WITHOUT VERIFYING THE SAME BY FIELD INVESTIGATIONS.
- 12) PROPERTY LINES AND CITY/TOWN LINES ARE SHOWN FOR INFORMATION ONLY.

TEST PITS

- 13) THE CONTRACTOR MUST NOTIFY DIG-SAFE 48 HOURS PRIOR TO ANY EXCAVATION OR DEMOLITION WORK IN PUBLIC OR PRIVATE WAYS OR UTILITY COMPANY RIGHT-OF-WAY OR EASEMENT.
- 14) PRIOR TO THE START OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT TEST PITS AS SHOWN, AND AT ALL LOCATIONS WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING OR STRUCTURES, AT LOCATIONS WHERE CONFLICTS BETWEEN EXISTING PIPING OR STRUCTURES AND PROPOSED PIPING MAY OCCUR, AND WHERE DIRECTED BY THE ENGINEER. CONDUCT TEST PITS TO FIELD VERIFY THE EXACT SIZE, MATERIAL, LOCATION, INVERT ELEVATION AND ALIGNMENT (VERTICAL AND HORIZONTAL) OF EXISTING UNDERGROUND PIPES AND STRUCTURES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN PROPOSED PIPING AND EXISTING PIPING PRIOR TO STARTING INSTALLATION OF THE PROPOSED PIPING.
- 15) TEST PITS SHOWN OR INDICATED ON DRAWINGS ARE TO BE CONDUCTED AT THE BEGINNING OF THE PROJECT. PROVIDE RECORD OF UTILITY ELEVATION TO ENGINEER UPON COMPLETION OF TEST PIT. OTHER TEST PITS MAY BE REQUIRED DURING THE COURSE OF WORK. CONTRACTOR SHALL CONDUCT TEST PITS WHERE CONFLICTS BETWEEN EXISTING PIPING AND PROPOSED PIPING MAY OCCUR OR WHERE DIRECTED BY ENGINEER.
- 16) ALL DIMENSIONS AND JOB RELATED CONDITIONS ARE TO BE VERIFIED BY THE CONTRACTOR. ANY DISCREPANCIES FOUND ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER AND PROPERLY RESOLVED BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. CONTINUATION WITH OTHER ASPECTS OF THE WORK SHALL PROCEED WITHOUT DELAY OR CAUSE FOR CLAIM.

EXISTING UTILITIES

- 17) EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED AND SUPPORTED AT ALL TIMES BY THE CONTRACTOR. ALL EXISTING SERVICES TO BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO INTERFERE AS LITTLE AS POSSIBLE WITH EXISTING UTILITIES. PAYMENT FOR PROVIDING SAID PROTECTION AND SUPPORTS SHALL BE CONSIDERED A PART OF AND PAID FOR UNDER THE APPROPRIATE PIPE OR STRUCTURE ITEMS UNLESS OTHERWISE INDICATED AND/OR DIRECTED BY THE OWNER. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION BY REASON OF DELAY AND/OR INCONVENIENCE IN ADAPTING HIS OPERATIONS ACCORDINGLY.
- 18) WHERE AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
- 19) THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION, RELOCATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, CABLE TV, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES WITH THE UTILITY COMPANIES AS REQUIRED. CONTRACTOR TO COORDINATE AND SCHEDULE ANY AND ALL UTILITY RELOCATIONS WITH AFFECTED UTILITY COMPANY PRIOR TO CONSTRUCTION.
- 20) CONTRACTOR IS RESPONSIBLE FOR REPAIR OF DAMAGED UTILITIES CAUSED BY THE CONTRACTOR'S OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.

REMOVAL AND DISPOSAL

- 21) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS INCLUDING BUT NOT LIMITED TO, MANHOLES, CATCH BASINS, PIPING, CONCRETE AND BITUMINOUS PAVEMENT, COBBLES, ROCK, TREES AND STUMPS ETC. ALL GRIT AND DEBRIS FROM THE EXISTING STRUCTURES TO BE DEMOLISHED SHALL BE CONSIDERED "SPECIAL WASTE" AND SHALL BE REMOVED AND DISPOSED OF AS INDICATED IN THE SPECIFICATIONS (SPEC. 02769). ALL DEMOLITION MATERIAL INCLUDING CONCRETE, PIPE, AND BRICK THAT WAS IN CONTACT WITH SEWAGE SHALL BE CLEANED IN ACCORDANCE WITH MADEP REQUIREMENTS AND DISPOSED OF ACCORDINGLY. ONCE CLEANED, DEMOLITION MATERIALS SHALL NOT BE CONSIDERED SPECIAL WASTE.
- 22) NOTIFY APPROPRIATE UTILITY COMPANY TO TURN OFF AFFECTED SERVICES PRIOR TO REMOVAL AND DISPOSAL. SEAL WATER, SEWER, DRAINAGE AND GAS UTILITIES AND SERVICES AT EXCAVATION LIMITS OR AS REQUIRED, USING PLUGS, CAPS OR SEALS AS NEEDED.
- 23) UNDERGROUND PIPING TO BE ABANDONED AND REMAIN SHALL BE PROPERLY CAPPED UNLESS IT INTERFERES WITH NEW STRUCTURES OR AS INDICATED, SPECIFIED AND DIRECTED BY ENGINEER.
- 24) REMOVE AND DISPOSE OF ALL EXISTING BITUMINOUS CONCRETE, AS REQUIRED.

SEWER AND DRAIN

- 25) WHERE EXISTING MATERIALS ARE ENCOUNTERED WHICH, IN THE OPINION OF THE OWNER/ENGINEER ARE UNSUITABLE FOR BEDDING, BACKFILLING, OR OTHER INTENDED USE, SUCH MATERIALS SHALL BE REMOVED AS DIRECTED AND REPLACED WITH SUITABLE GRAVEL

BORROW, CRUSHED STONE AND/OR SELECTED BORROW, AS DIRECTED BY THE OWNER/ENGINEER AND PAID FOR UNDER THE APPROPRIATE BID ITEMS.

- 26) INVERTS AND DIRECTIONS OF PIPES AND CONDUITS ARE SHOWN FOR THE PURPOSE OF INDICATING THE BASIC PARAMETERS USED DURING THE DESIGN. HOWEVER, MINOR CHANGES IN HORIZONTAL AND VERTICAL LOCATIONS MAY BE REQUIRED DURING CONSTRUCTION AS FIELD CONDITIONS WARRANT. FINAL LOCATIONS OF OTHER PIPES AND/OR CONDUITS SHALL BE DETERMINED IN THE FIELD. ANY CHANGES SHALL BE APPROVED BY THE ENGINEER.
- 27) WHERE PIPING IS TO BE CONNECTED TO EXISTING PIPING OR STRUCTURES, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS AND ADDITIONAL PIPE (REQUIRED AS A RESULT OF CUTTING THE EXISTING PIPE BACK) TO COMPLETE THE CONNECTION AS REQUIRED.
- 28) EXISTING PIPES RETAINED, BUT WHICH MUST BE REMOVED IN ORDER TO INSTALL NEW PIPES, SHALL BE REINSTALLED OR REPLACED IN KIND.
- 29) SHOULD ANY SEWER OR SEWER SERVICE CONNECTION NEED TO BE RELAYED, THE SEWER SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN, SERVICES OR OTHER WATER FACILITIES. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT POSSIBLE TO ACHIEVE AND MAINTAIN A 10-FOOT MINIMUM HORIZONTAL SEPARATION AS DETERMINED BY THE OWNER/ENGINEER, THE SEWER SHALL BE LAID SUCH THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER LINE. WHEN THE HORIZONTAL ALIGNMENT OR VERTICAL ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THE ABOVE REQUIREMENT AS DETERMINED BY THE OWNER/ENGINEER, THE SEWER SHALL BE ENCASED IN CONCRETE (MIN. 6-INCH THICKNESS) FOR AT LEAST 10-FEET EITHER SIDE OF THE AREA NOT COMPLYING WITH THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION AS DIRECTED BY THE OWNER/ENGINEER.
- 30) WHERE SEWERS CROSS ANY EXISTING OR PROPOSED WATER MAINS OR SERVICES, THE SEWER SHALL CROSS BENEATH THE WATER LINES AND LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18-INCHES BETWEEN THE INVERT OF THE WATER LINE AND THE CROWN OF THE SEWER. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THE ABOVE REQUIREMENT, THE SEWER AND/OR WATER LINE SHALL BE ENCASED IN CONCRETE (MIN. 6-INCH THICKNESS) FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER LINE, OR AS DETERMINED AND DIRECTED BY THE OWNER/ENGINEER, OR THE WATER LINE SHALL BE RELOCATED TO COMPLY WITH THE REQUIRED MINIMUM DIMENSIONS FOR AN ACCEPTABLE SEPARATION AS STIPULATED ABOVE. RELOCATED WATER LINES SHALL BE APPROVED BY OWNER/ENGINEER AND CONSTRUCTED OF AWWA APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE AND DESIGNED FOR THE REQUIRED WATER SERVICE PRESSURE FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER LINE JOINTS.
- 31) WATER SERVICE CONNECTIONS SHALL BE PROTECTED THROUGHOUT THE WORK. REPLACEMENT OF ANY PORTION OF A WATER SERVICE, INCLUDING CORPORATION AND CURB STOP, SHALL BE CONSIDERED PART OF THE WORK AND SHALL NOT BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER.

SITE RESTORATION

- 32) EXCEPT WHERE NOTED BY PROPOSED CONTOUR LINES, ALL FINAL CONTOUR LINE ELEVATIONS SHALL BE THE SAME AS EXISTING CONTOUR LINE ELEVATIONS.
- 33) JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN TACK COAT AND BACKSANDS.
- 34) ALL CURBING DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE RESET, RESTORED OR REPLACED IN KIND, IF DAMAGED, INCLUDING CEMENT CONCRETE, REGARDLESS OF ITS PROXIMITY TO THE DRAIN OR SEWER, AS DIRECTED BY THE OWNER/ENGINEER. PAYMENT SHALL BE CONSIDERED PART OF AND PAID FOR UNDER THE APPROPRIATE PIPE ITEMS AS APPLICABLE UNLESS OTHERWISE INDICATED ON PLANS.
- 35) ALL SIDEWALK AND WHEELCHAIR RAMP AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IN CONFORMANCE TO THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AND THE ARCHITECTURAL ACCESS BOARD (AAB) REQUIREMENTS AT THE CONTRACTOR'S EXPENSE.
- 36) THE CONTRACTOR SHALL REMOVE AND RESET ALL SIGNS DISTURBED DURING CONSTRUCTION, IN CONFORMANCE WITH THE MASSACHUSETTS STANDARD SPECIFICATIONS AND CONSTRUCTION STANDARDS.
- 37) ALL GRASSED OR WOODED AREAS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE LOAMED AND SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS. FINAL RESTORATION SHALL BE EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION AS DETERMINED SOLELY BY THE OWNER/ENGINEER. PAYMENT SHALL BE CONSIDERED PART OF AND PAID FOR UNDER THE APPROPRIATE BID ITEMS AS APPLICABLE UNLESS OTHERWISE INDICATED.

MAINTENANCE OF EXISTING FLOWS

- 38) FLOW IN ALL SANITARY SEWERS TO BE MAINTAINED BY THE CONTRACTOR UNTIL THE MODIFICATIONS AND CONSTRUCTION ARE COMPLETE.
- 39) CONTRACTOR SHALL PROVIDE ACCESS TO THE CITY AS NECESSARY TO MAINTAIN THE EXISTING PUMP STATIONS.

EXCAVATION SUPPORT & DEWATERING

- 40) ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WELL POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
- 41) DISCHARGE FROM DEWATERING OPERATIONS SHALL NOT BE DIRECTLY DISCHARGED INTO THE SEWER OR DRAIN. ALL CONSTRUCTION DEWATERING SHALL HAVE SILT AND SEDIMENT REMOVED PRIOR TO DISCHARGE (SEE SPECIFICATIONS).

SOIL EROSION AND SEDIMENTATION CONTROL

- 42) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (STAW WATTLES, HAY BALES, SILT FENCE, CATCH BASIN SILT SACKS, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED.
- 43) ALL EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE E&S CONTROLS SHALL BE CLEANED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION OPERATIONS AND UNTIL ALL DISTURBED AREAS ARE STABILIZED AFTER CONSTRUCTION IS COMPLETE. E&S CONTROLS SHALL BE INSPECTED AND CLEANED AFTER ALL STORM EVENTS AND UPON THE REQUEST OF THE OWNER OR ENGINEER. CONTRACTOR SHALL MAINTAIN AN ADEQUATE SUPPLY OF HAY BALES ON SITE TO BE INSTALLED IN AREAS WHERE EXISTING E&S CONTROLS HAVE FAILED OR AS DETERMINED NECESSARY BY THE ENGINEER. NO WORK OR STORAGE OF CONSTRUCTION EQUIPMENT WILL BE PERMITTED OUTSIDE THE LIMIT OF DISTURBANCE.
- 44) PROVIDE SOIL EROSION AND SEDIMENT CONTROL MEASURES AT PERIMETERS OF ALL EXCAVATION AREAS, DISTURBED SURFACES AND AT ALL CATCH BASINS ADJACENT TO DISTURBED AREAS. PROVIDE SILT FENCING AND HAY BALES IN ACCORDANCE WITH DIVISION 2 SPECIFICATION REQUIREMENTS AND AS SHOWN ON THE CIVIL DETAIL DRAWINGS.

PREPARED BY



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REGISTERED PROFESSIONAL



SUBCONSULTANT

PROJECT

**2023 Pump Station
Improvements**

Taunton, MA

TITLE

NOTES

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SHEET NO.

G-2



INDUSTRIAL PARK PUMP STATION
SHEET C-7.1 & C-7.2


PARTRIDGE CIR. PUMP STATION
SHEETS C-2.1 & C-2.2



STEVENS RD. PUMP STATION
SHEETS C-5.1 & C-5.2

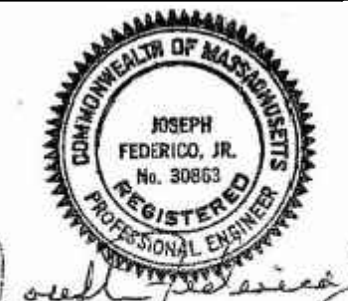
WELLESLEY CIR. PUMP STATION
SHEETS C-3.1 & C-3.2

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REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

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Taunton, MA

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PROJECT LOCATION MAP I

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SHEET NO.

G-3



SCHOOL ST. PUMP STATION
SHEETS C-4.1 & C-4.2

DAVIS ST. PUMP STATION
SHEETS C-6.1 & C-6.2

PREPARED BY



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REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

**2023 Pump Station
Improvements**

Taunton, MA

TITLE

**PROJECT LOCATION
MAP II**

NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: #####

SCALE

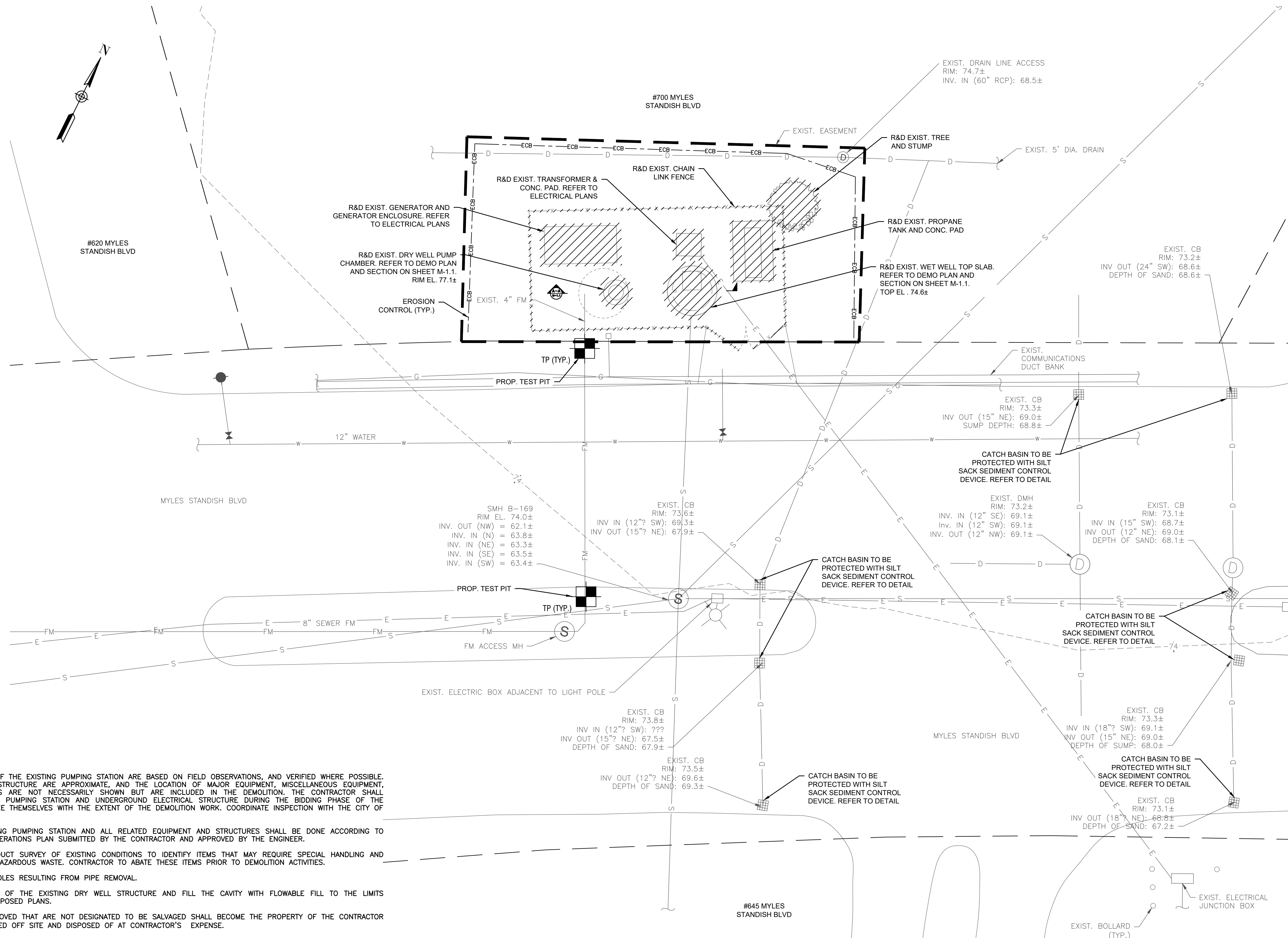
NONE

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Not for Construction

SHEET NO.

G-4



DEMOLITION NOTES:

- PLANS AND SECTION OF THE EXISTING PUMPING STATION ARE BASED ON FIELD OBSERVATIONS, AND VERIFIED WHERE POSSIBLE. DIMENSIONS OF THE STRUCTURE ARE APPROXIMATE, AND THE LOCATION OF MAJOR EQUIPMENT, MISCELLANEOUS EQUIPMENT, PIPING AND MATERIALS ARE NOT NECESSARILY SHOWN BUT ARE INCLUDED IN THE DEMOLITION. THE CONTRACTOR SHALL INSPECT THE EXISTING PUMPING STATION AND UNDERGROUND ELECTRICAL STRUCTURE DURING THE BIDDING PHASE OF THE PROJECT TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE DEMOLITION WORK. COORDINATE INSPECTION WITH THE CITY OF TAUNTON.
- DEMOLITION OF EXISTING PUMPING STATION AND ALL RELATED EQUIPMENT AND STRUCTURES SHALL BE DONE ACCORDING TO THE SEQUENCE OF OPERATIONS PLAN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- CONTRACTOR TO CONDUCT SURVEY OF EXISTING CONDITIONS TO IDENTIFY ITEMS THAT MAY REQUIRE SPECIAL HANDLING AND DISPOSAL INCLUDING HAZARDOUS WASTE. CONTRACTOR TO ABATE THESE ITEMS PRIOR TO DEMOLITION ACTIVITIES.
- PLUG AND CAP ALL HOLES RESULTING FROM PIPE REMOVAL.
- REMOVE AND DISPOSE OF THE EXISTING DRY WELL STRUCTURE AND FILL THE CAVITY WITH FLOWABLE FILL TO THE LIMITS DEPICTED ON THE PROPOSED PLANS.
- MATERIALS TO BE REMOVED THAT ARE NOT DESIGNATED TO BE SALVAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED OFF SITE AND DISPOSED OF AT CONTRACTOR'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR THE LEGAL AND PROPER DISPOSAL OF ALL DEMOLITION MATERIAL ACCORDING TO ANY RELEVANT LAWS OF THE STATE OF MASSACHUSETTS.
- ALL SEWAGE AND SLUDGE THAT MIGHT BE PRESENT IN THE EXISTING PIPING AND PUMPING EQUIPMENT TO BE DEMOLISHED, SHALL BE CONSIDERED "SPECIAL WASTE" AND SHALL BE REMOVED AND DISPOSED OF ACCORDING TO ANY RELEVANT LAWS OF THE STATE OF MASSACHUSETTS. ALL DEMOLITION MATERIAL INCLUDING CONCRETE, PIPE, AND BRICK THAT WAS IN CONTACT WITH SEWAGE SHALL BE CLEANED IN ACCORDANCE WITH MASSDEP REQUIREMENTS AND DISPOSED OF ACCORDINGLY. ONCE CLEANED, DEMOLITION MATERIALS SHALL NOT BE CONSIDERED SPECIAL WASTE.
- SITE SHALL BE GRADED TO MATCH EXISTING ELEVATIONS UNLESS SPECIFIED OTHERWISE.

GENERAL NOTES:

- CONTRACTOR SHALL CONDUCT TEST PITS AS SHOWN WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, TO FIELD VERIFY THE EXACT SIZE, MATERIAL, LOCATION, INVERT ELEVATION AND ALIGNMENT (VERTICAL AND HORIZONTAL) OF EXISTING UNDERGROUND PIPING.
- THE CONTRACTOR SHALL MAKE TEST PITS AS REQUIRED IN ORDER TO ASCERTAIN THE EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES.
- FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0134F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.

PREPARED BY



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REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: ----

SCALE



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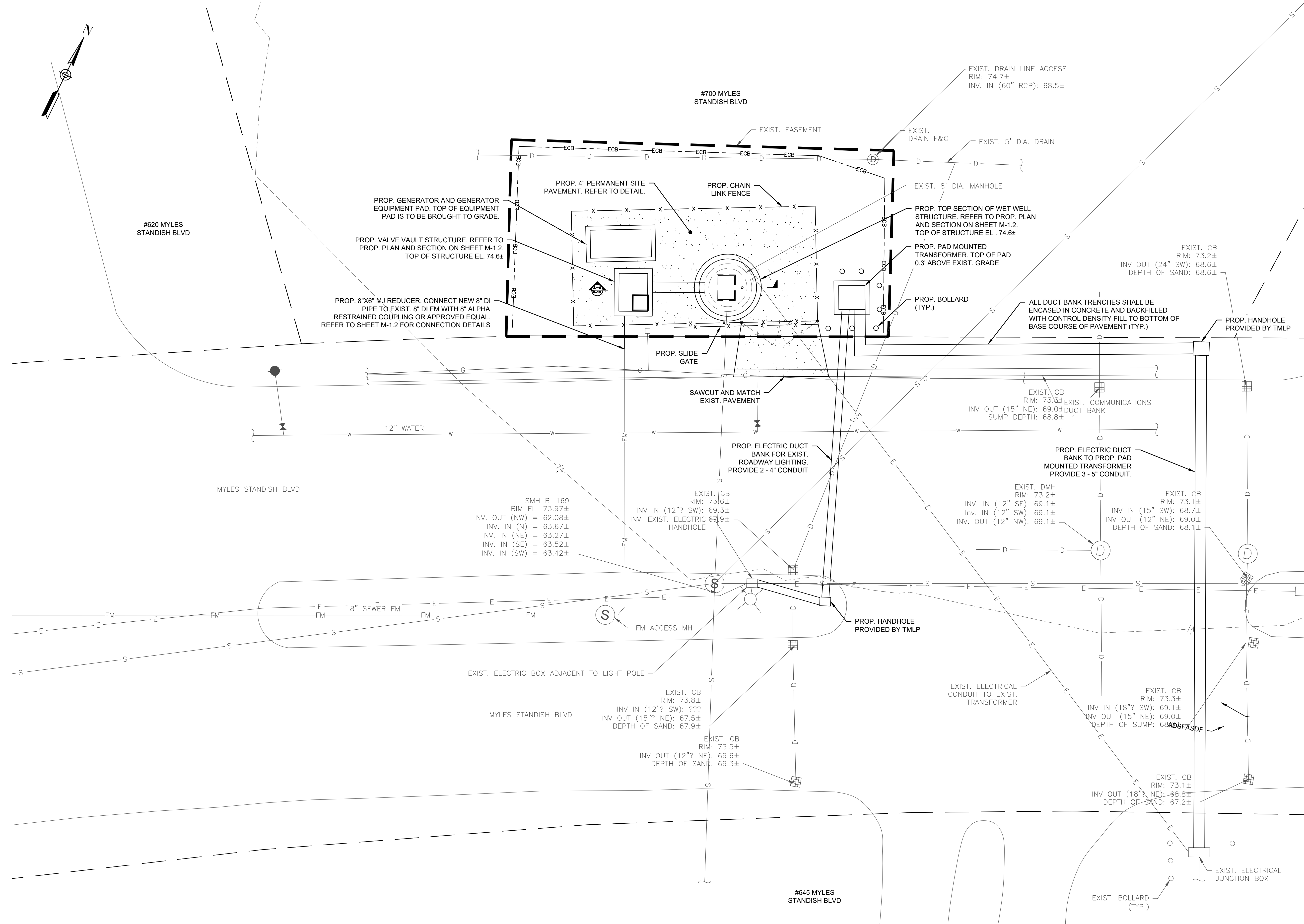
Not for Construction

SHEET NO.

C-1.1

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0134F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE

DRAWN BY:

DESIGNED BY: PN

CHECKED BY: AG

ISSUE DATE: CC

BETA JOB NO.: 10685

SCALE



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Not for Construction

SHEET NO.

C-1.2

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SUBCONSULTANT

PROJECT

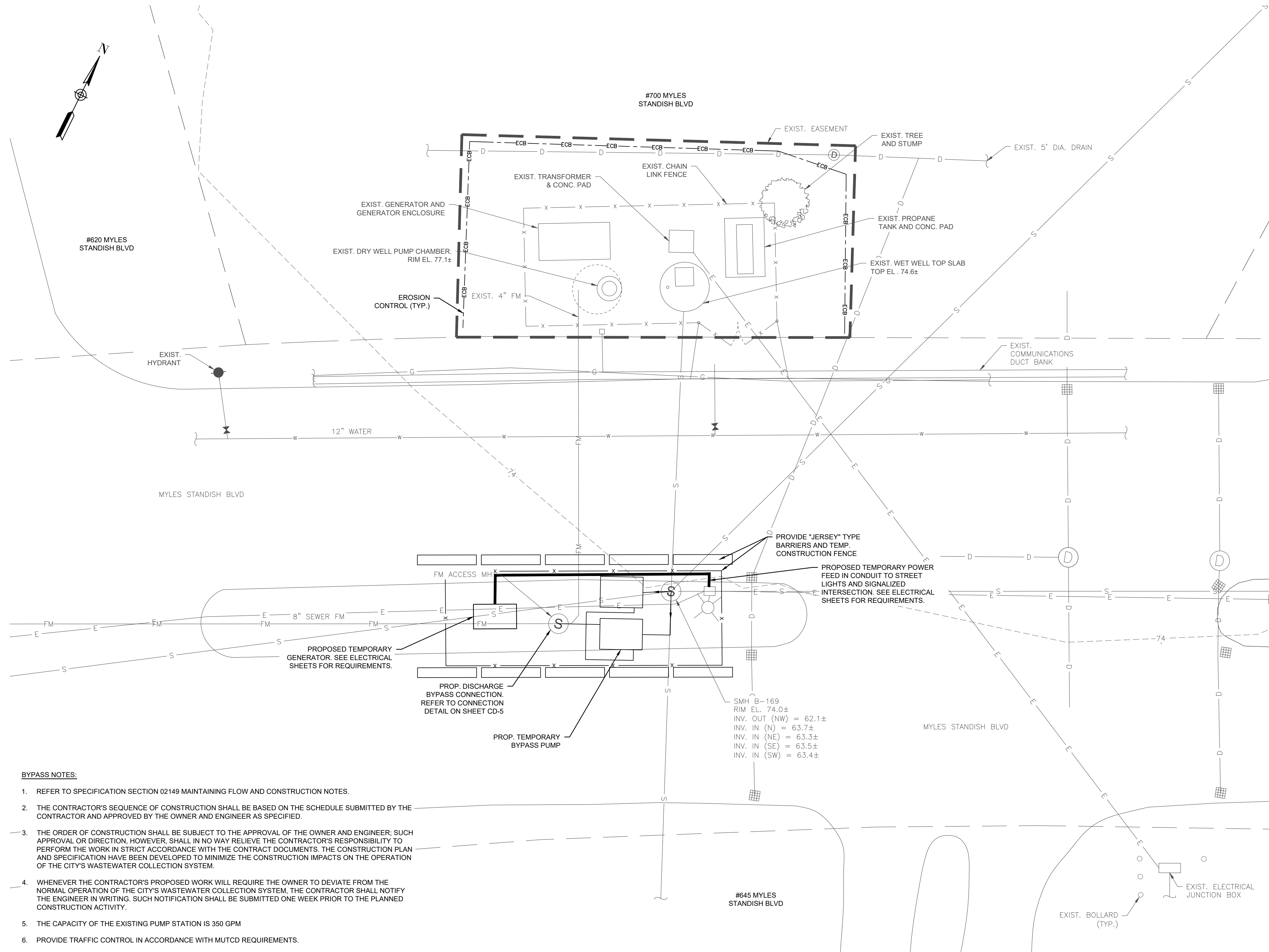
2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Bypass Plan



BYPASS NOTES:

1. REFER TO SPECIFICATION SECTION 02149 MAINTAINING FLOW AND CONSTRUCTION NOTES.
2. THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION SHALL BE BASED ON THE SCHEDULE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE OWNER AND ENGINEER AS SPECIFIED.
3. THE ORDER OF CONSTRUCTION SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER AND ENGINEER; SUCH APPROVAL OR DIRECTION, HOWEVER, SHALL IN NO WAY RELIEVE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE WORK IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONSTRUCTION PLAN AND SPECIFICATION HAVE BEEN DEVELOPED TO MINIMIZE THE CONSTRUCTION IMPACTS ON THE OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM.
4. WHENEVER THE CONTRACTOR'S PROPOSED WORK WILL REQUIRE THE OWNER TO DEVIATE FROM THE NORMAL OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING. SUCH NOTIFICATION SHALL BE SUBMITTED ONE WEEK PRIOR TO THE PLANNED CONSTRUCTION ACTIVITY.
5. THE CAPACITY OF THE EXISTING PUMP STATION IS 350 GPM
6. PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH MUTCD REQUIREMENTS.

NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: 10685

SCALE



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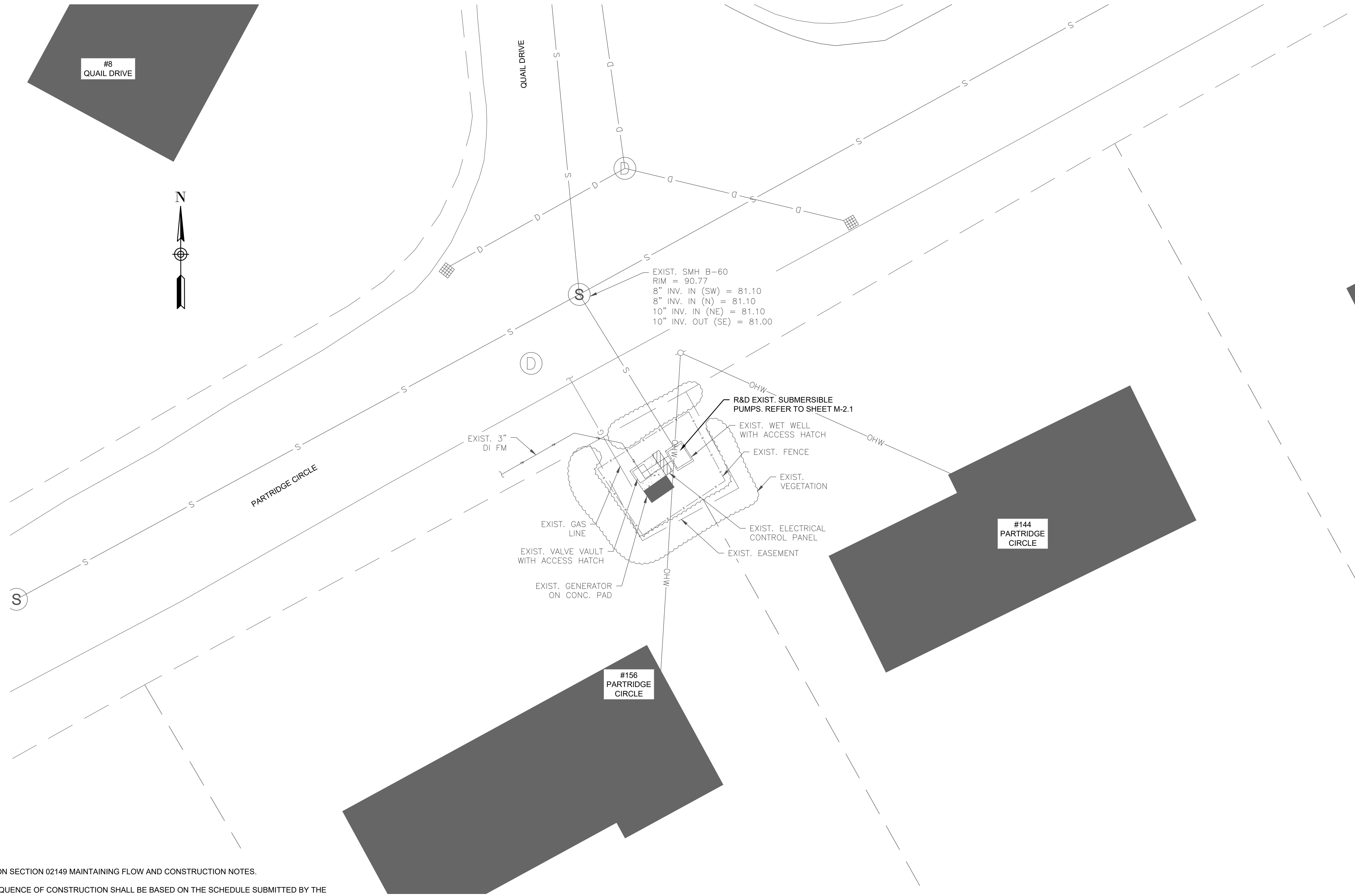
Not for Construction

SHEET NO.

C-1.3

GENERAL NOTES:

- FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0161F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR PLAIN.



BYPASS NOTES:

- REFER TO SPECIFICATION SECTION 02149 MAINTAINING FLOW AND CONSTRUCTION NOTES.
- THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION SHALL BE BASED ON THE SCHEDULE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE OWNER AND ENGINEER AS SPECIFIED.
- THE ORDER OF CONSTRUCTION SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER AND ENGINEER; SUCH APPROVAL OR DIRECTION, HOWEVER, SHALL IN NO WAY RELIEVE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE WORK IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONSTRUCTION PLAN AND SPECIFICATION HAVE BEEN DEVELOPED TO MINIMIZE THE CONSTRUCTION IMPACTS ON THE OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM.
- WHENEVER THE CONTRACTOR'S PROPOSED WORK WILL REQUIRE THE OWNER TO DEVIATE FROM THE NORMAL OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING. SUCH NOTIFICATION SHALL BE SUBMITTED ONE WEEK PRIOR TO THE PLANNED CONSTRUCTION ACTIVITY.
- THE CAPACITY OF THE EXISTING PUMP STATION IS 50 GPM

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT

PROJECT

**2023 Pump Station
Improvements**

Taunton, MA

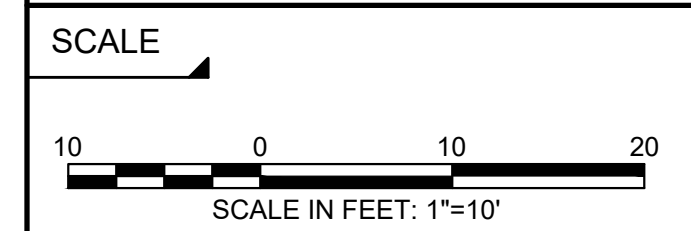
TITLE

**PARTRIDGE CIRCLE
PUMP STATION**

Existing Conditions

NO.	REVISIONS	DATE
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DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	4/7/2023
BETA JOB NO.:	10685



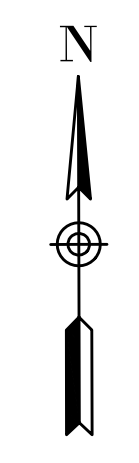
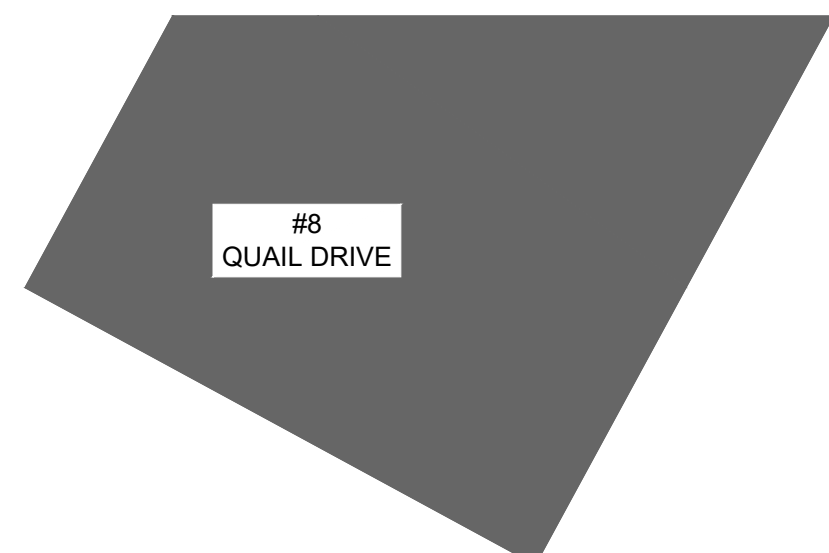
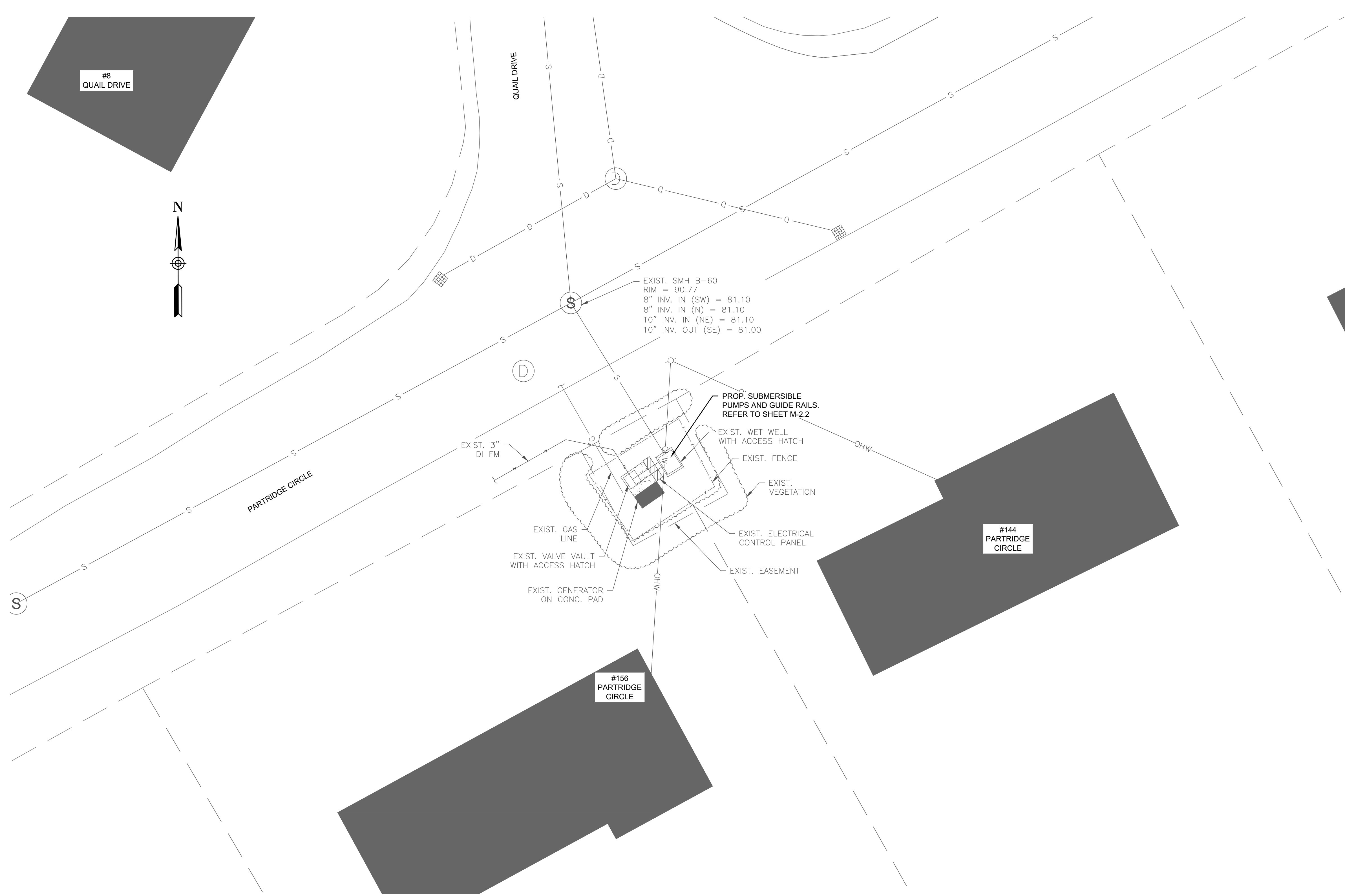
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Not for Construction


SHEET NO.
C-2.1

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 2500SC0161F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.

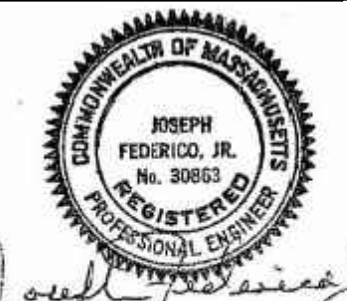


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Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

PARTRIDGE CIRCLE PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: 10685

SCALE

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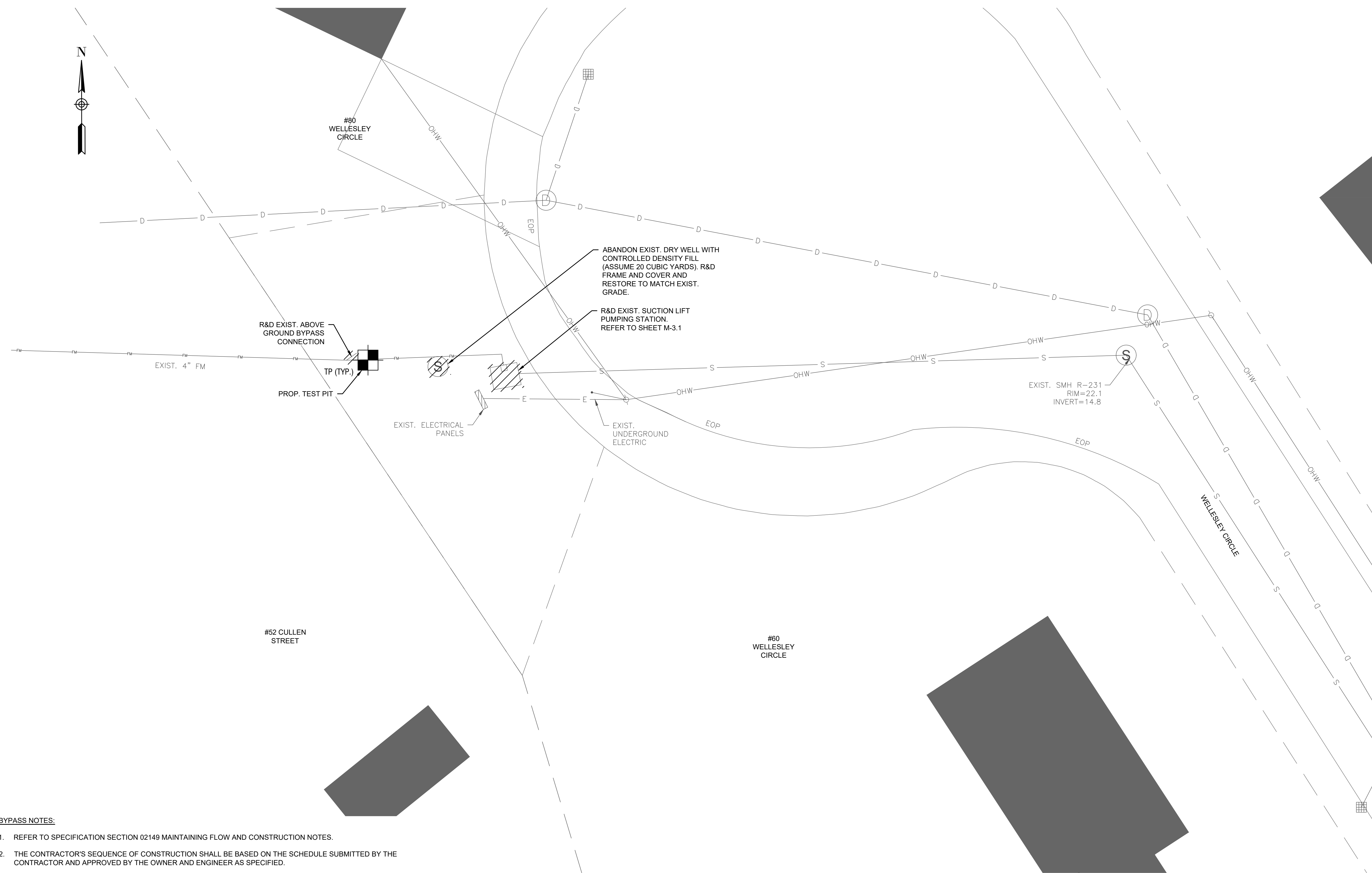
Not for Construction

SHEET NO.

C-2.2

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0164G PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



BYPASS NOTES:

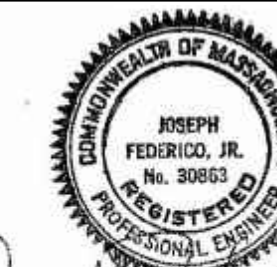
1. REFER TO SPECIFICATION SECTION 02149 MAINTAINING FLOW AND CONSTRUCTION NOTES.
2. THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION SHALL BE BASED ON THE SCHEDULE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE OWNER AND ENGINEER AS SPECIFIED.
3. THE ORDER OF CONSTRUCTION SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER AND ENGINEER; SUCH APPROVAL OR DIRECTION, HOWEVER, SHALL IN NO WAY RELIEVE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE WORK IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONSTRUCTION PLAN AND SPECIFICATION HAVE BEEN DEVELOPED TO MINIMIZE THE CONSTRUCTION IMPACTS ON THE OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM.
4. WHENEVER THE CONTRACTOR'S PROPOSED WORK WILL REQUIRE THE OWNER TO DEVIATE FROM THE NORMAL OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING. SUCH NOTIFICATION SHALL BE SUBMITTED ONE WEEK PRIOR TO THE PLANNED CONSTRUCTION ACTIVITY.
5. THE CAPACITY OF THE EXISTING PUMP STATION IS 125 GPM

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SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

WELLESLEY CIRCLE PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY: PN

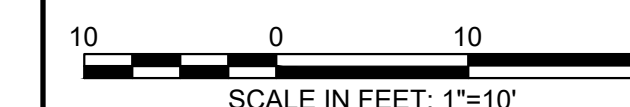
DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: 10685

SCALE



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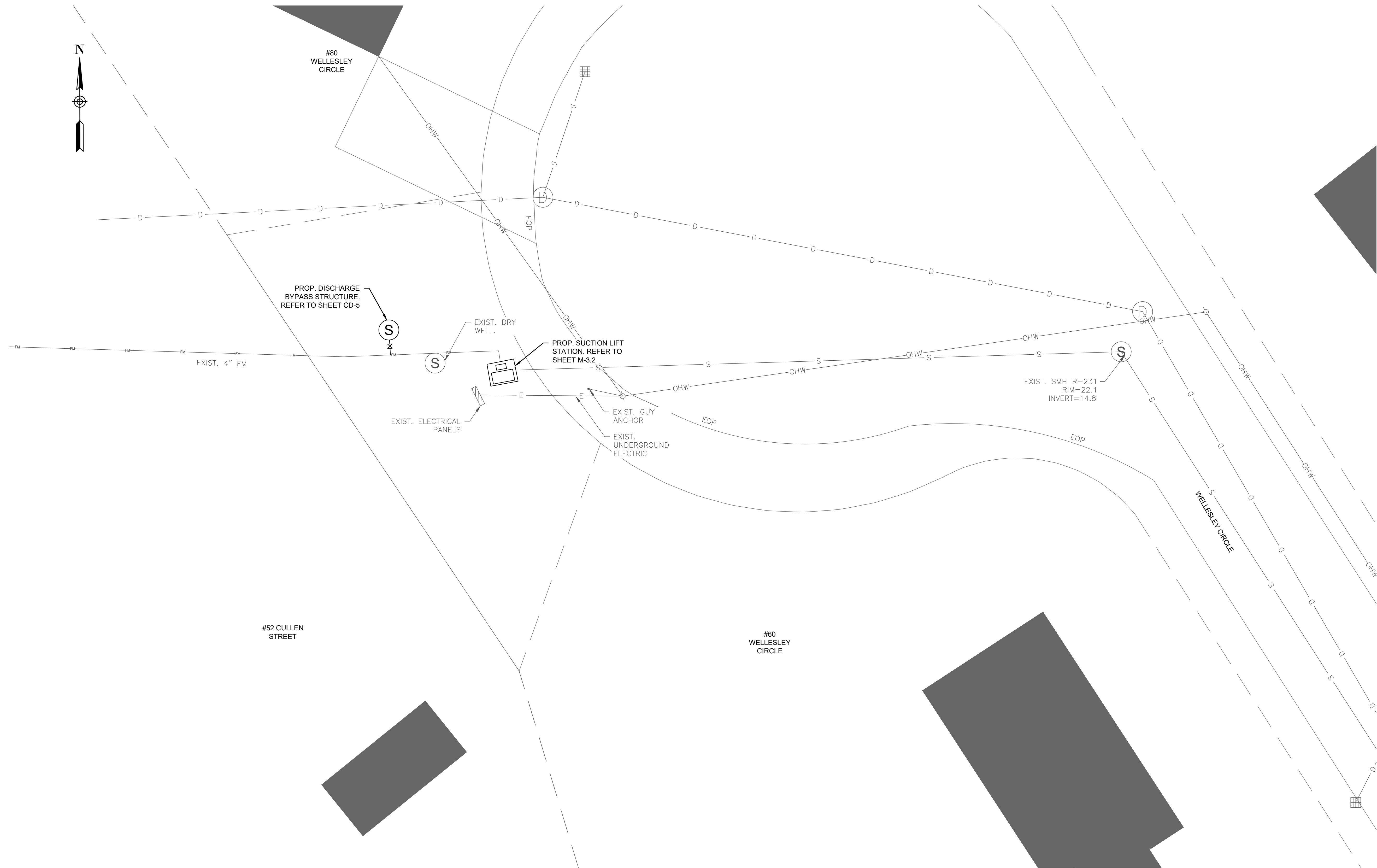
Not for Construction

SHEET NO.

C-3.1

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0164G PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



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SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

WELLESLEY CIRCLE PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: 10685

SCALE



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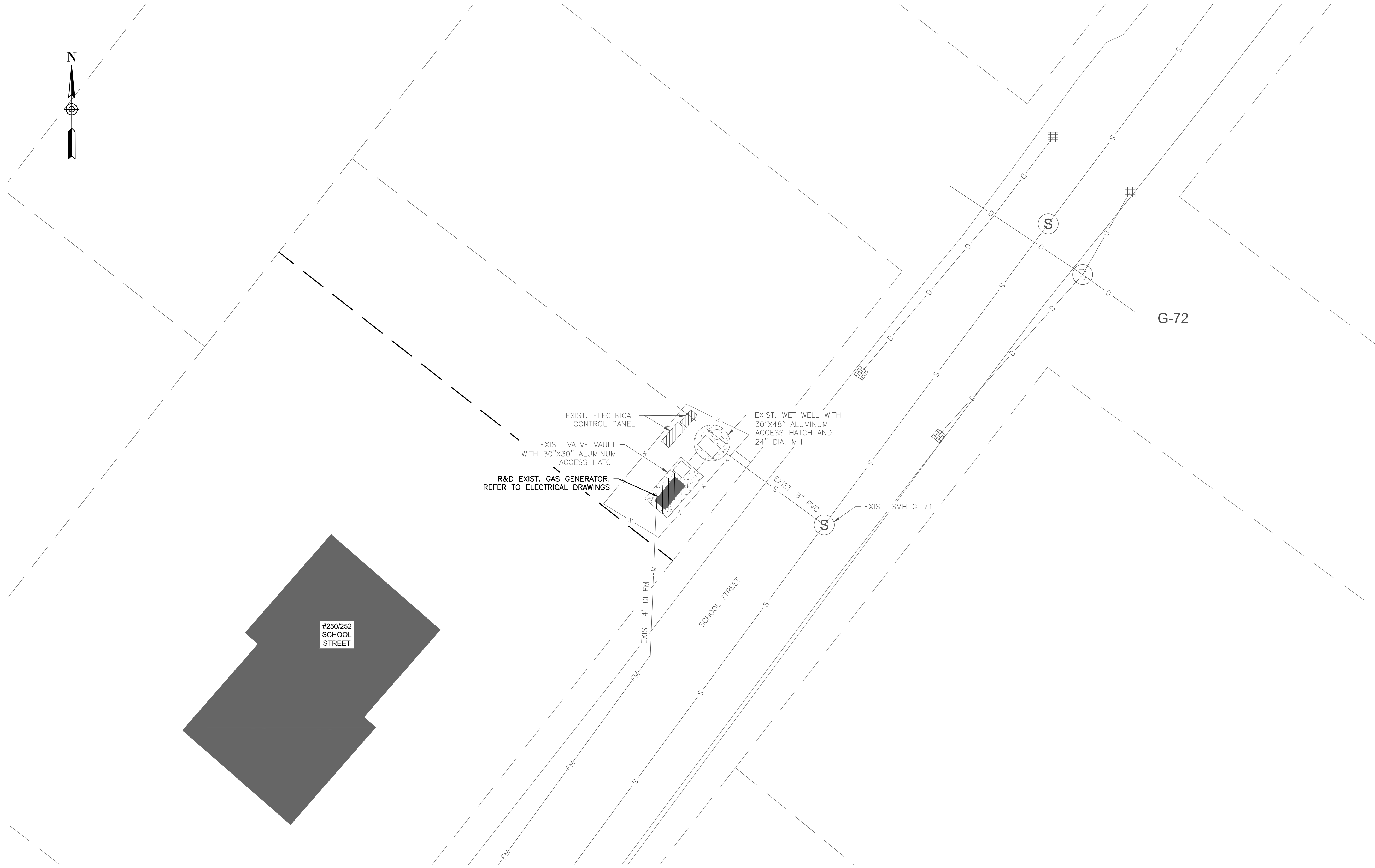
Not for Construction

SHEET NO.

C-3.2

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBERS 25005C0162G (SCHOOL ST) AND 25005C0256F (STEVENS ST) PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



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SUBCONSULTANT

PROJECT

**2023 Pump Station
Improvements**

Taunton, MA

TITLE

**SCHOOL STREET
PUMP STATION**

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: 10685

SCALE



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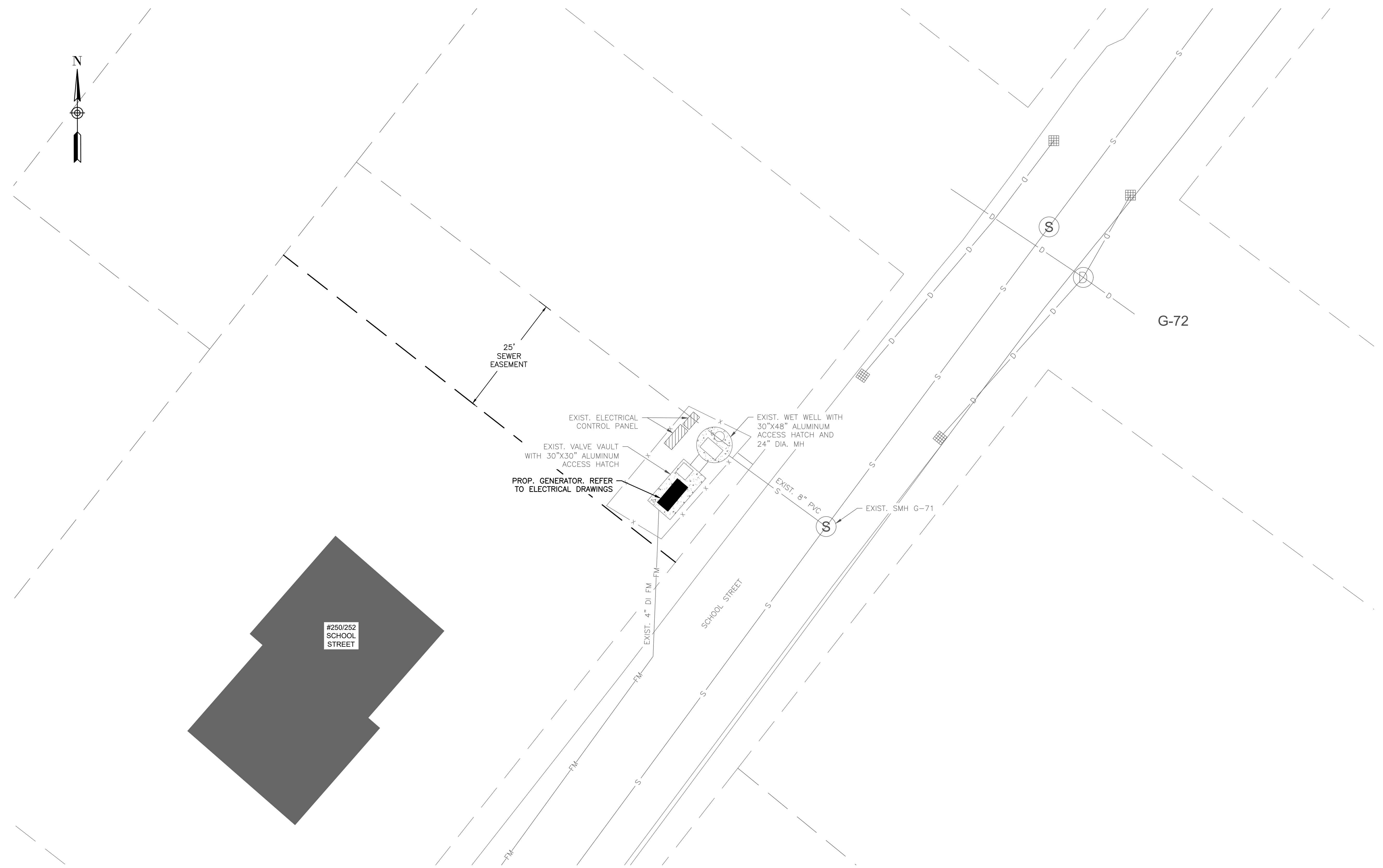
Not for Construction

SHEET NO.

C-4.1

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBERS 2500SC0162G (SCHOOL ST) AND 2500SC0256F (STEVENS ST) PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



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PROJECT

2023 Pump Station Improvements

Taunton, MA

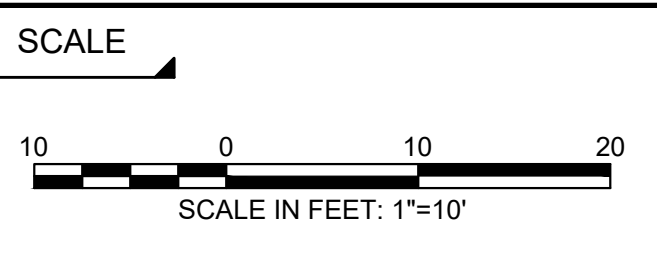
TITLE

SCHOOL STREET PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE
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DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	4/7/2023
BETA JOB NO.:	10685



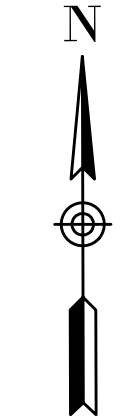
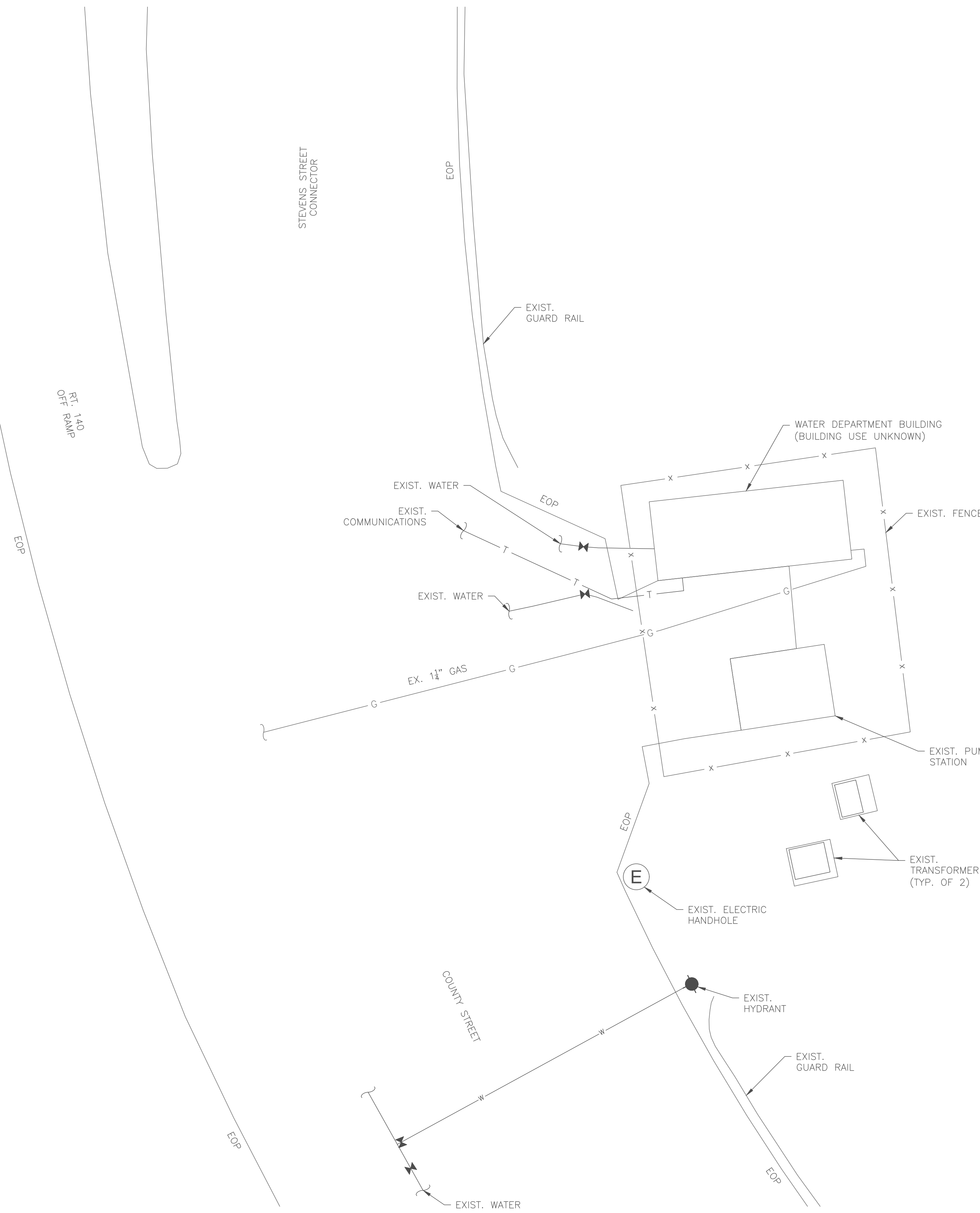
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SHEET NO. C-4.2

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBERS 25005C0162G (SCHOOL ST) AND 25005C0256F (STEVENS ST) PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



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Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

STEVENS STREET PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: 10685

SCALE



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SHEET NO.

C-5.1

GENERAL NOTES:

- FIRM FLOOD INSURANCE RATE MAP NUMBERS 25005C0162G (SCHOOL ST) AND 25005C0256F (STEVENS ST) PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.

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Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

STEVENS STREET PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: 10685

SCALE

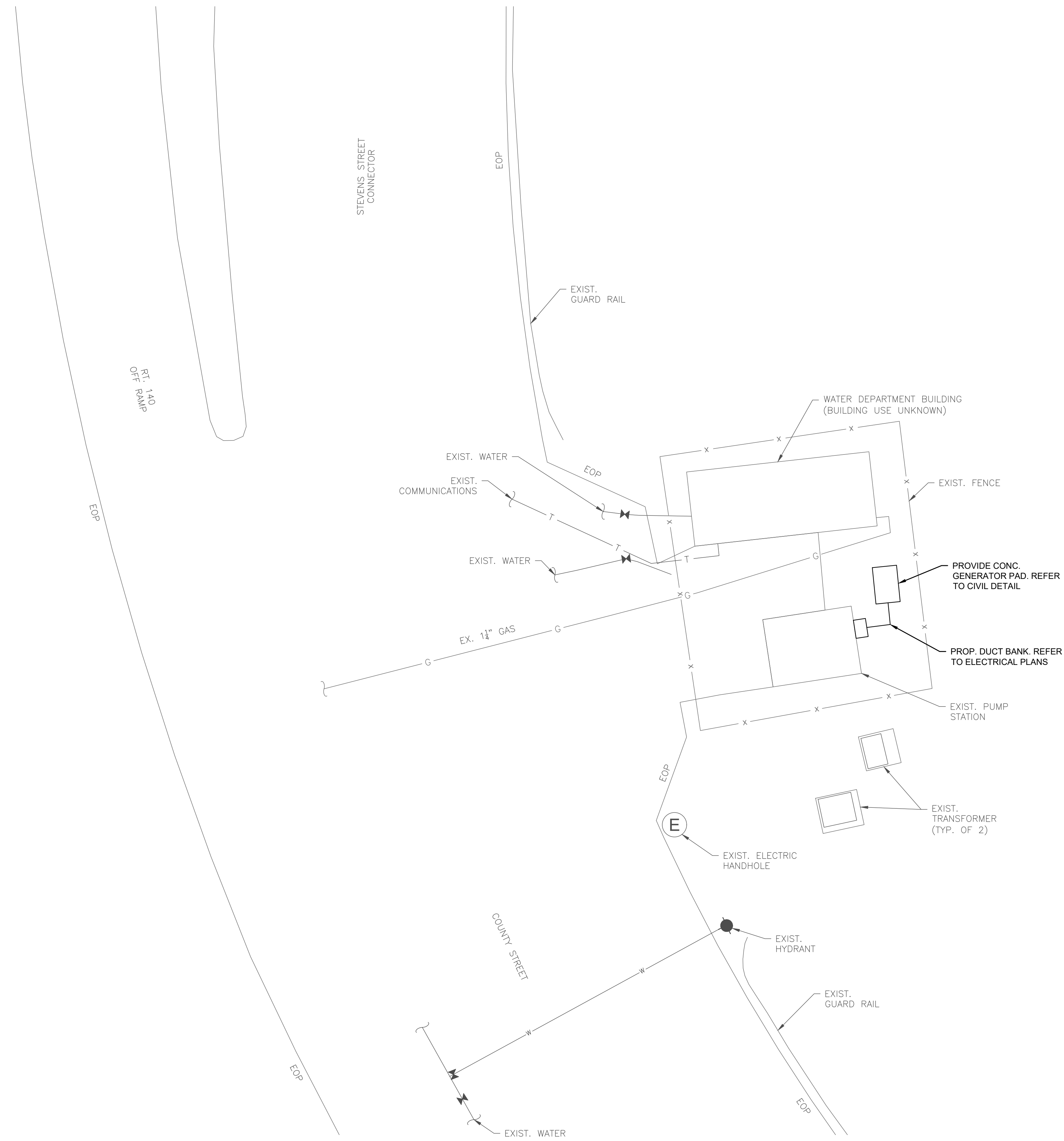


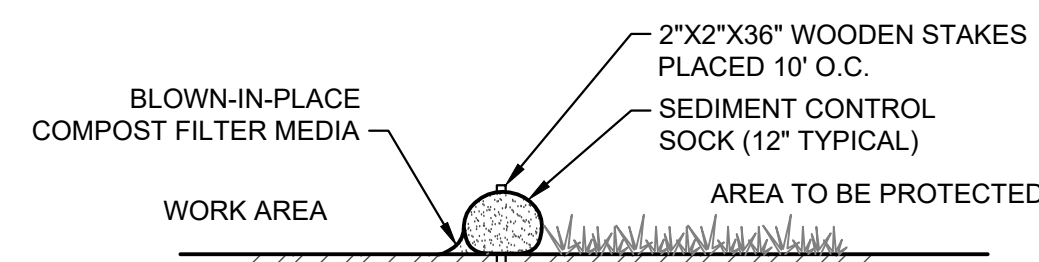
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Not for Construction

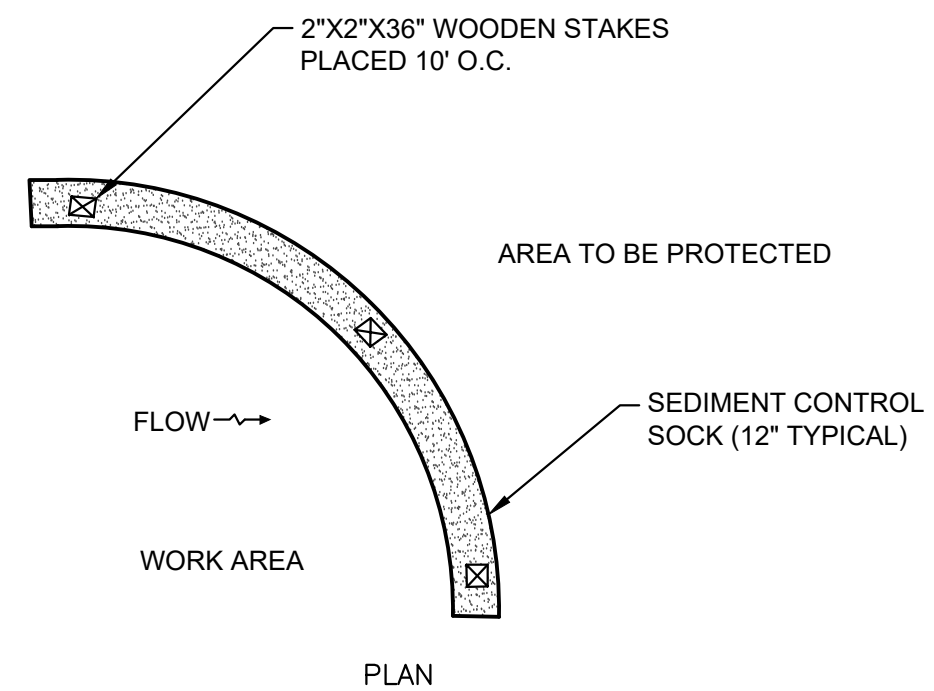
SHEET NO.

C-5.2





SECTION

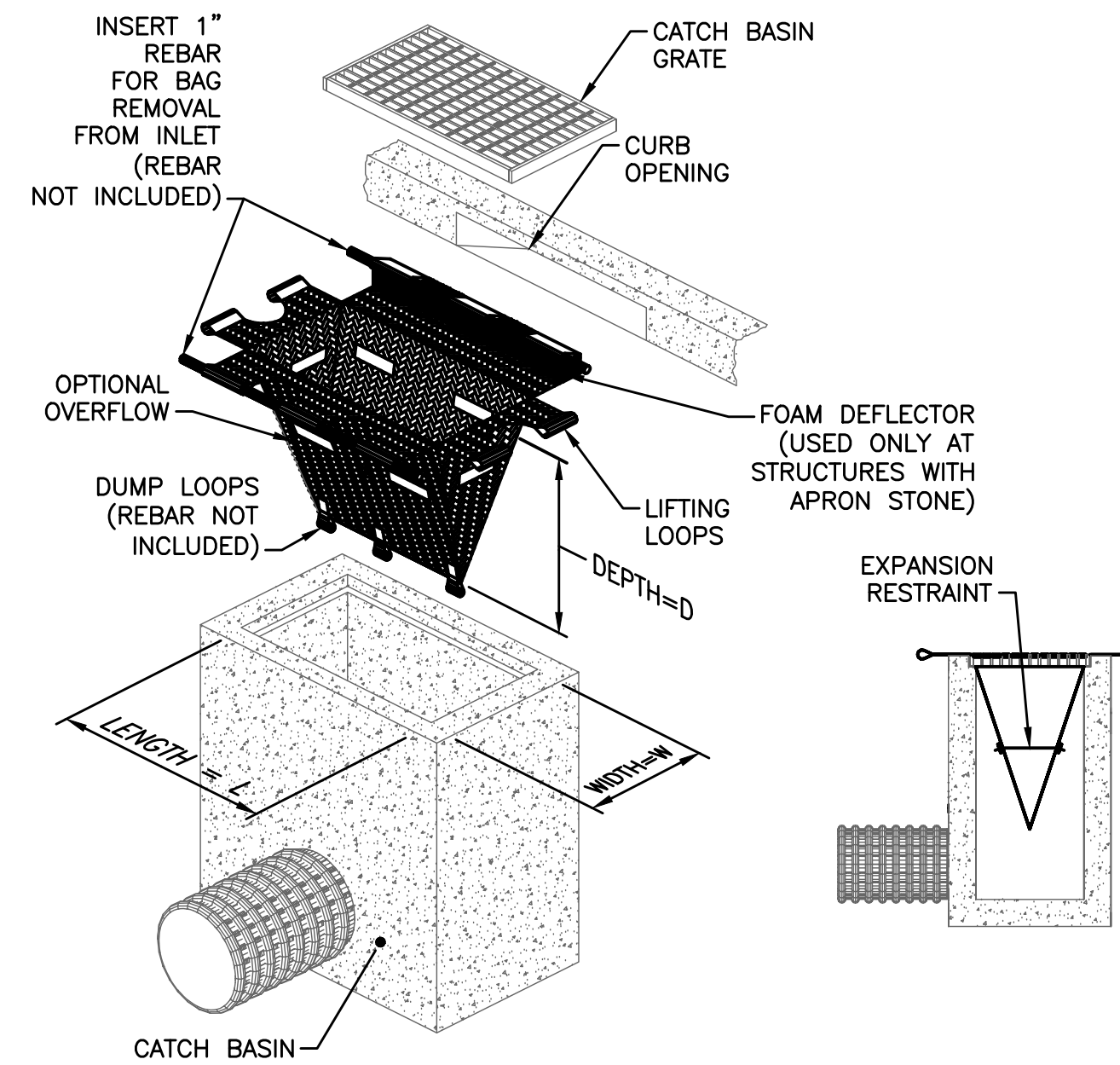


PLAN

CONSTRUCTION SPECIFICATIONS

1. SOCKS SHALL BE PLACED IN A ROW WITH ENDS OVERLAPPING THE ADJACENT SOCK.
2. SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY STAKES DRIVEN THROUGH THE SOCKS.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. SOCKS SHALL BE REMOVED WHEN WORK IS COMPLETE AND THE AREA HAS STABILIZED.

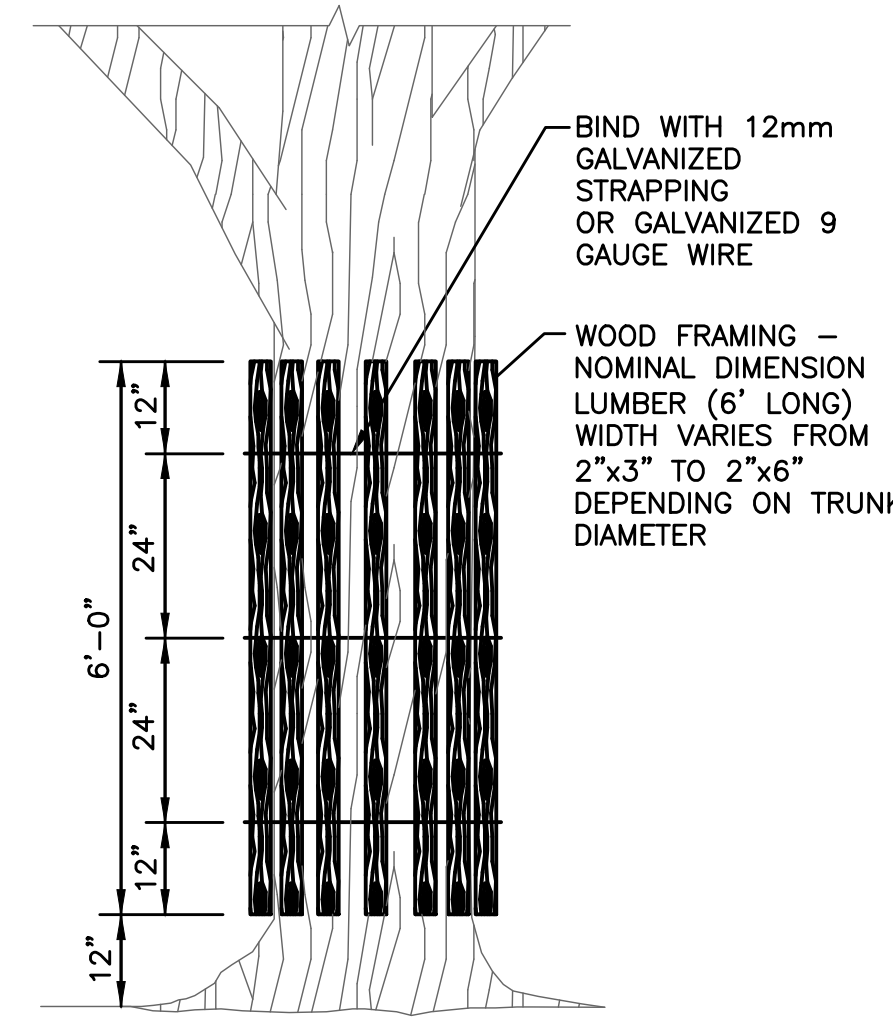
**SEDIMENT CONTROL
"COMPOST SOCK"**
NOT TO SCALE



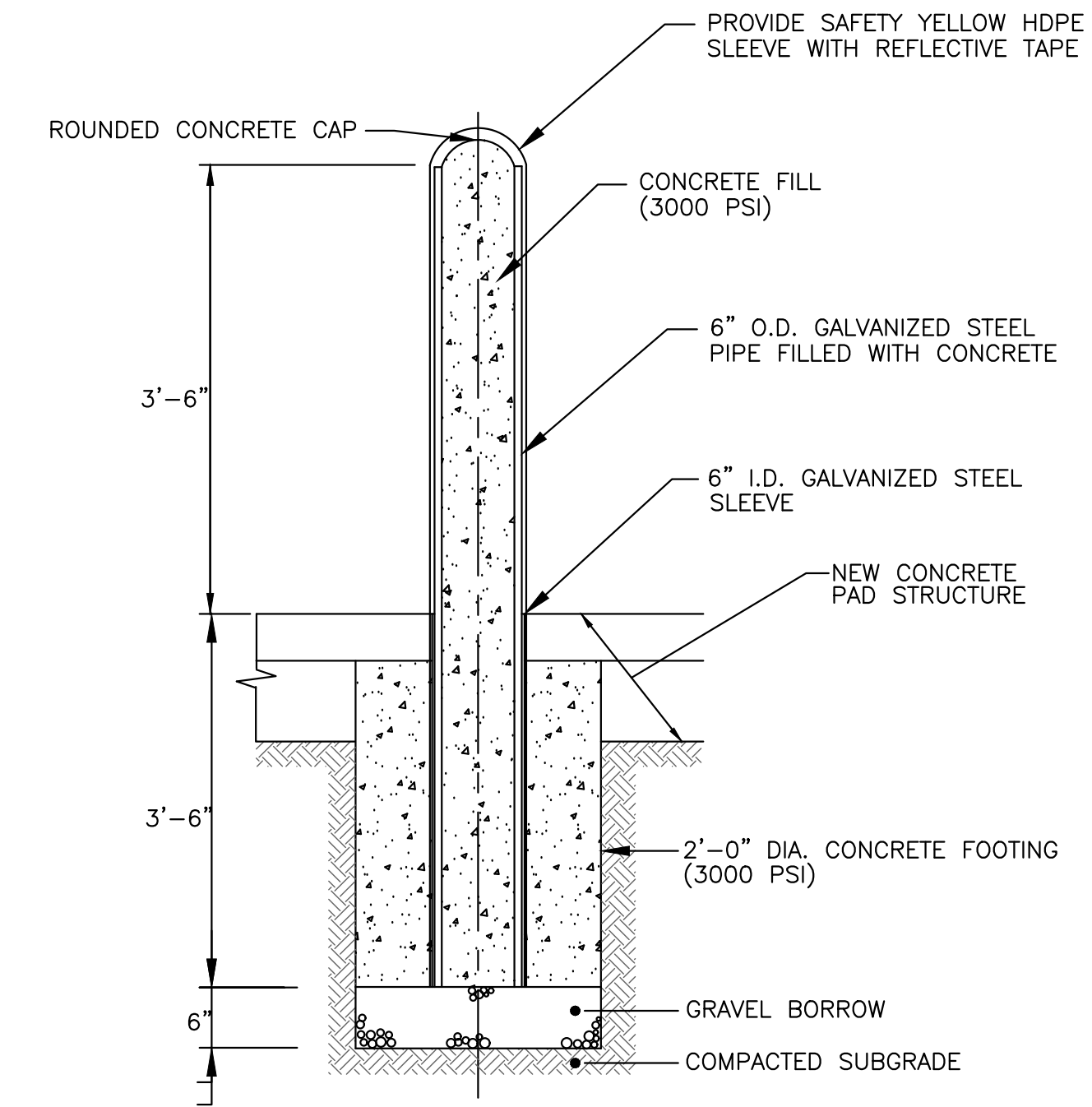
NOTES:

1. CONTRACTOR SHALL MAINTAIN ALL SILT SACK SEDIMENT CONTROL DEVICE INSTALLATIONS AND REPLACE WHEN SATURATED WITH SEDIMENT BASED ON MANUFACTURER RECOMMENDATIONS. SILT SACK SHALL BE INSPECTED AFTER EVERY RAIN EVENT BUT NO LONGER THAN EVERY TWO WEEKS.
2. SILT SACK SHALL BE DOUBLE NEEDLE SEWN POLYPROPYLENE GEOTEXTILE FABRIC AND RATED FOR HIGH FLOW UNLESS OTHERWISE DIRECTED.
3. CONTRACTOR SHALL PROVIDE CURB OPENING DEFLECTOR AT ALL CATCH BASINS AS NECESSARY.

**TYPICAL CATCH BASIN
EROSION CONTROL PROTECTION**
SCALE: NONE



TREE PROTECTION
SCALE: NONE

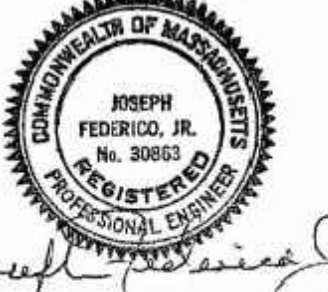


CONCRETE-FILLED STEEL BOLLARD
SCALE: NONE

PREPARED BY



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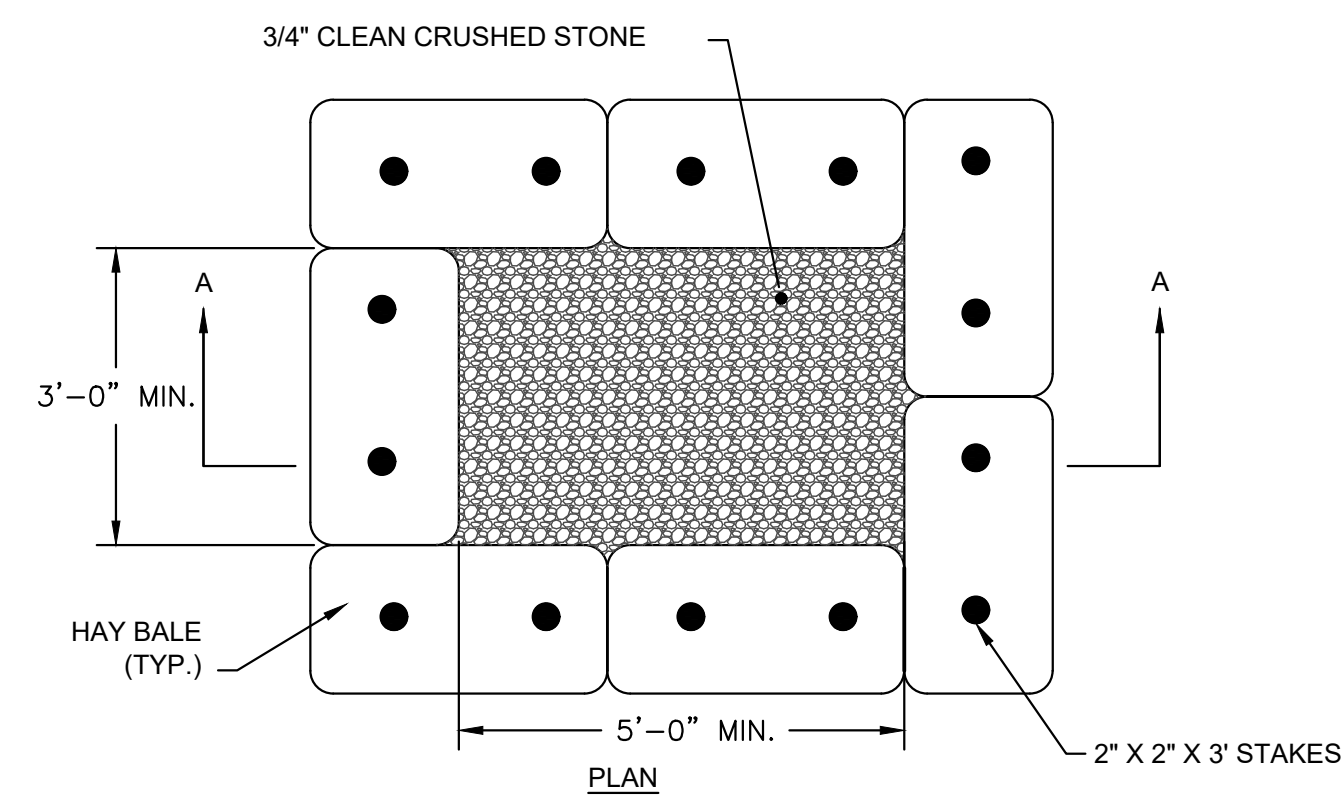
PROJECT

**2023 Pump Station
Improvements**

Taunton, MA

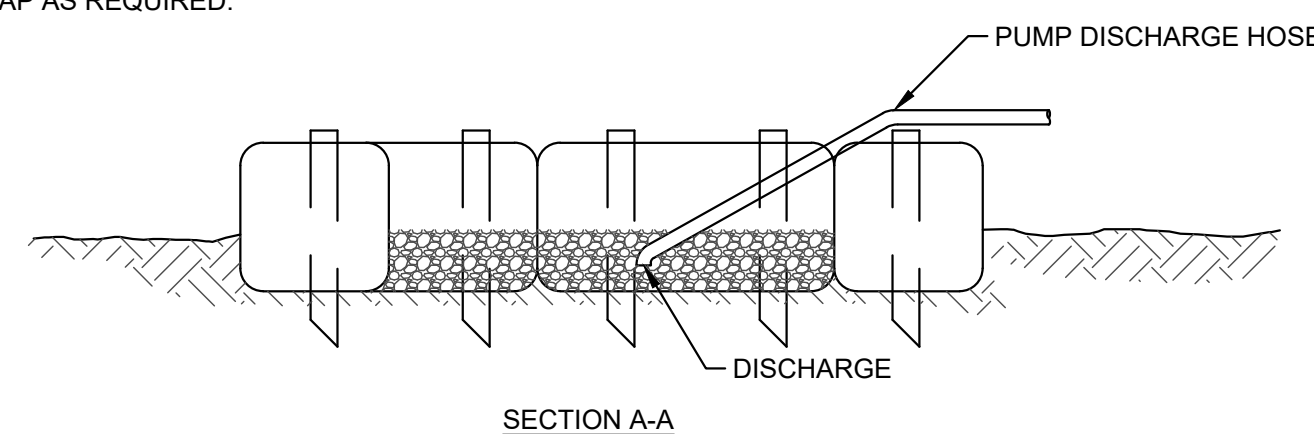
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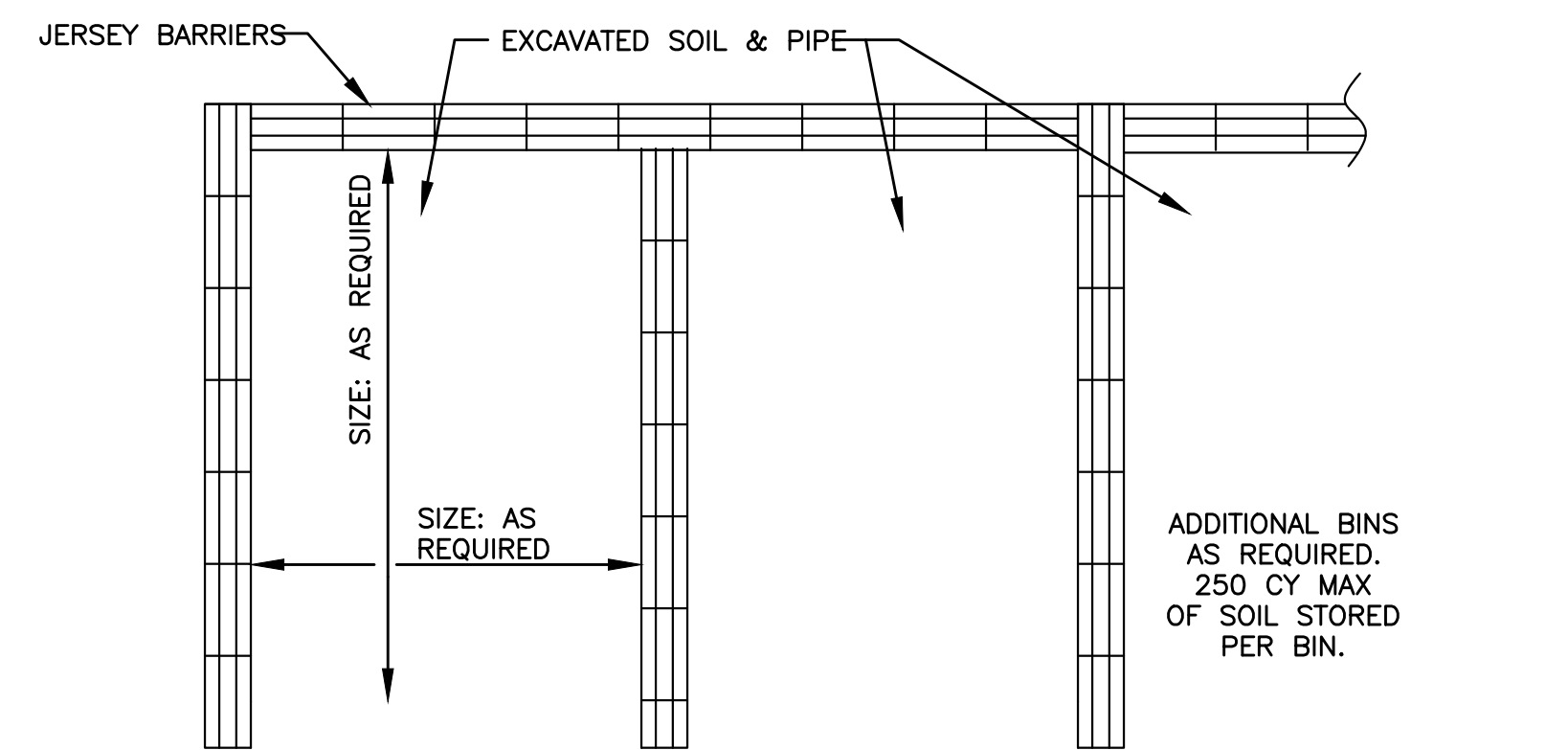
PLAN

NOTES:
ALL DEWATERING DISCHARGES SHALL BE THROUGH SEDIMENT CONTROL TRAPS, CONTRACTOR SHALL MAINTAIN AND CLEAN TRAP AS REQUIRED.

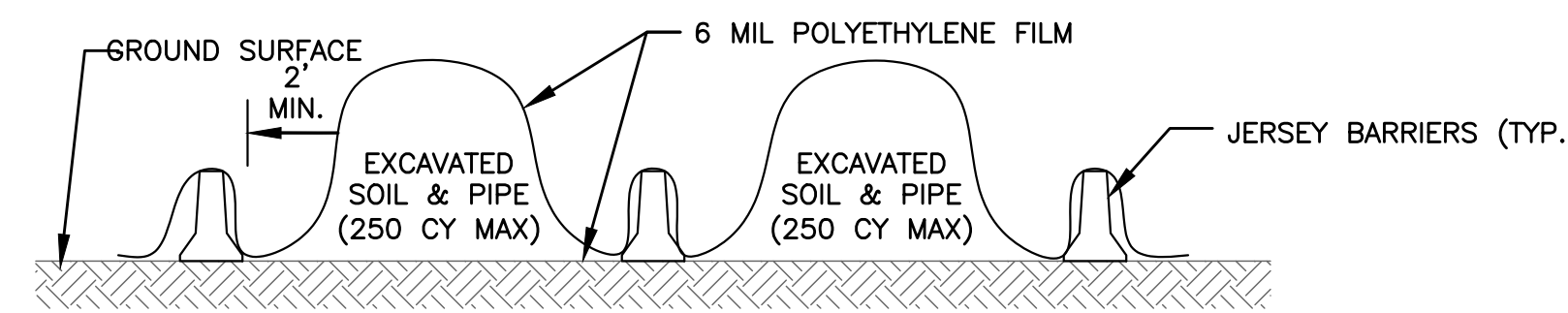


SECTION A-A

SEDIMENT CONTROL TRAP
NOT TO SCALE



PLAN

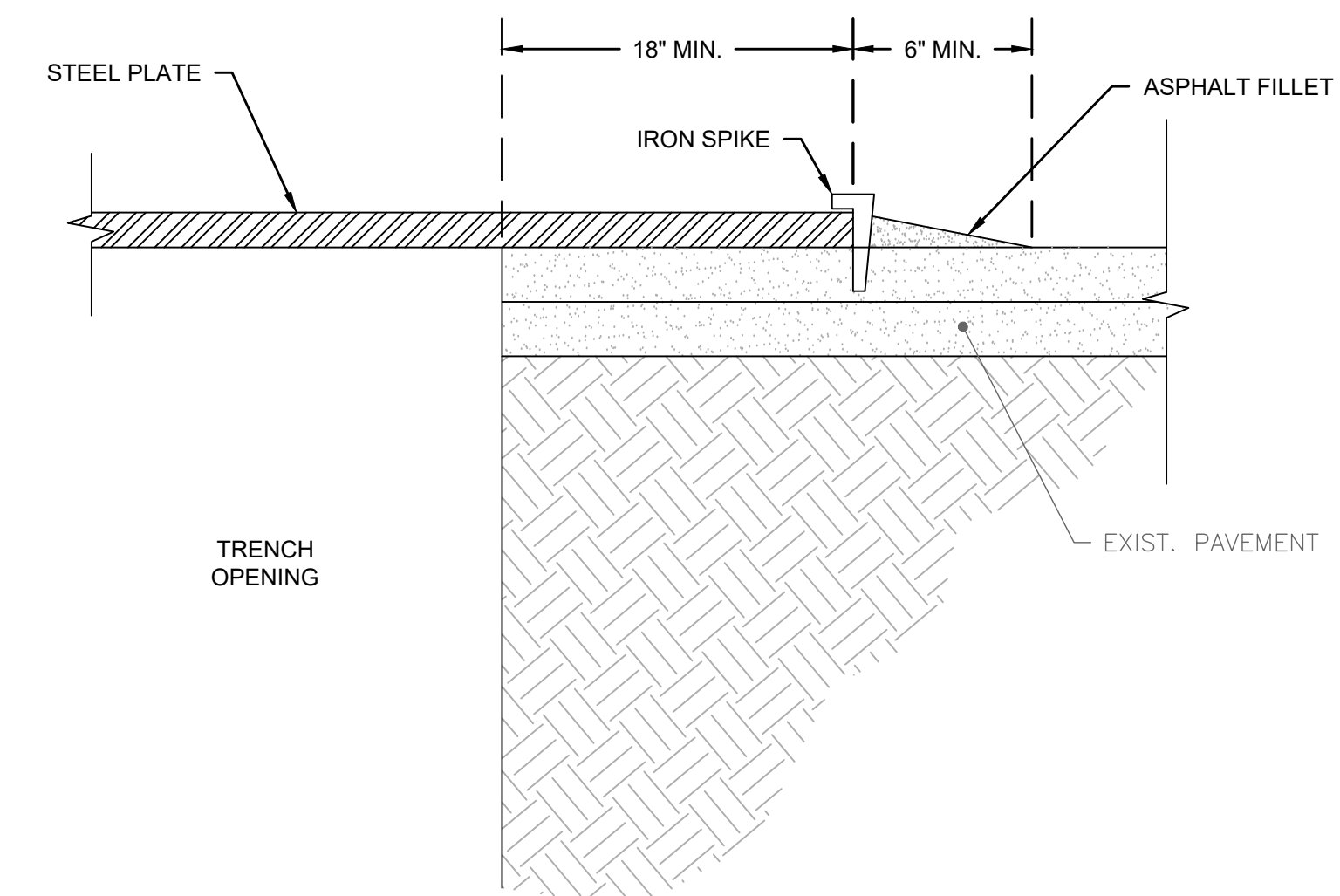


ELEVATION

NOTES:

1. PERIODICALLY (AT LEAST WEEKLY) INSPECT THE STOCKPILES TO INSURE THAT THE LINER AND COVER ARE INTACT AND SECURELY ANCHORED.
2. CONTROL FUGITIVE DUST AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
3. SWEEP AND DISPOSE OF ALL RESIDUAL DIRT, DUST AND DEBRIS FROM THE STAGING AREA AFTER COMPLETION OF THE WORK.
4. JERSEY BARRIERS SHALL BE PLACED AS SHOWN ON PLANS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE UNTIL IT IS NO LONGER NEEDED FOR THE PURPOSE INTENDED.
5. JERSEY BARRIERS SHALL BE MAINTAINED OR REPLACED UNTIL THEY ARE NO LONGER NECESSARY FOR THE PURPOSE INTENDED. AT THE COMPLETION OF WORK, ALL POLYETHYLENE AND JERSEY BARRIERS SHALL BE REMOVED AND PROPERLY DISPOSED OF.
6. PRIOR TO CONSTRUCTION, COORDINATE WITH OWNER/ENGINEER IN REGARDS TO SIZE AND LOCATION.

SURPLUS SOIL STOCKPILE AREA
SCALE: NONE



NOTES:

1. MUTCD COMPLIANT RETROREFLECTIVE ORANGE CONSTRUCTION WARNING SIGNS (48"x48") WITH WORDING "STEEL PLATE AHEAD" SHALL BE INSTALLED IN ADVANCE OF STEEL PLATE INSTALLATION.
2. THE CONTRACTOR SHALL DESIGN AND UTILIZE STEEL PLATES OF ADEQUATE DIMENSIONS AND THICKNESS FOR INTENDED USE AND VEHICLE LOADING. MAXIMUM ALLOWABLE DEFLECTION SHALL BE 0.025". IRON SPIKE FASTENERS SHALL BE INSTALLED AROUND THE PERIMETER OF THE STEEL PLATE.

STEEL PLATES SHALL NOT BE USED BETWEEN NOVEMBER 15 AND APRIL 1 WITHOUT DPW APPROVAL, OR AT ANY TIME WHEN SNOW OR FREEZING IS FORECASTED.

STEEL PLATE INSTALLATION
SCALE: NONE

1	ADDENDUM #1	6/17/22
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NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.:

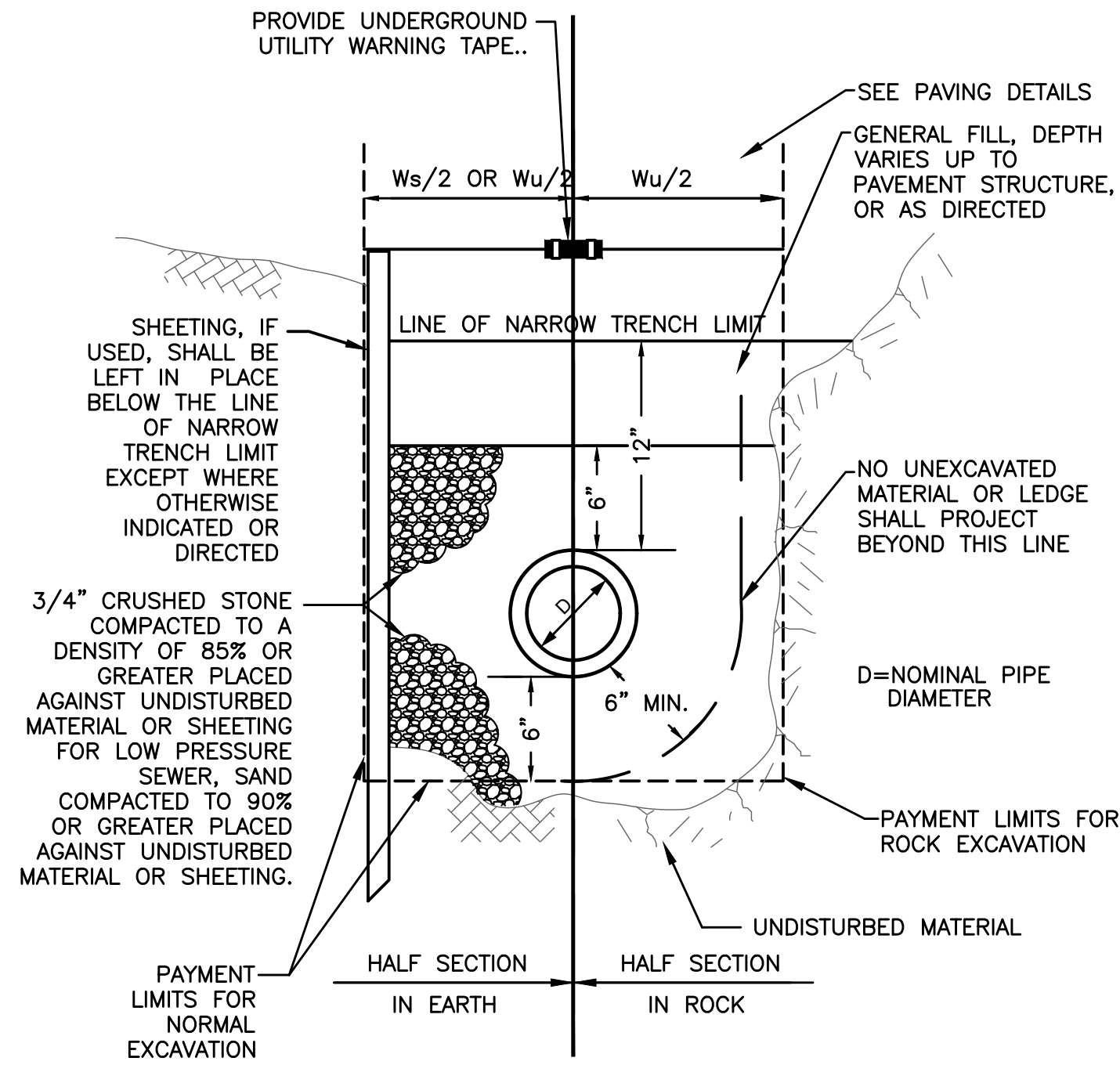
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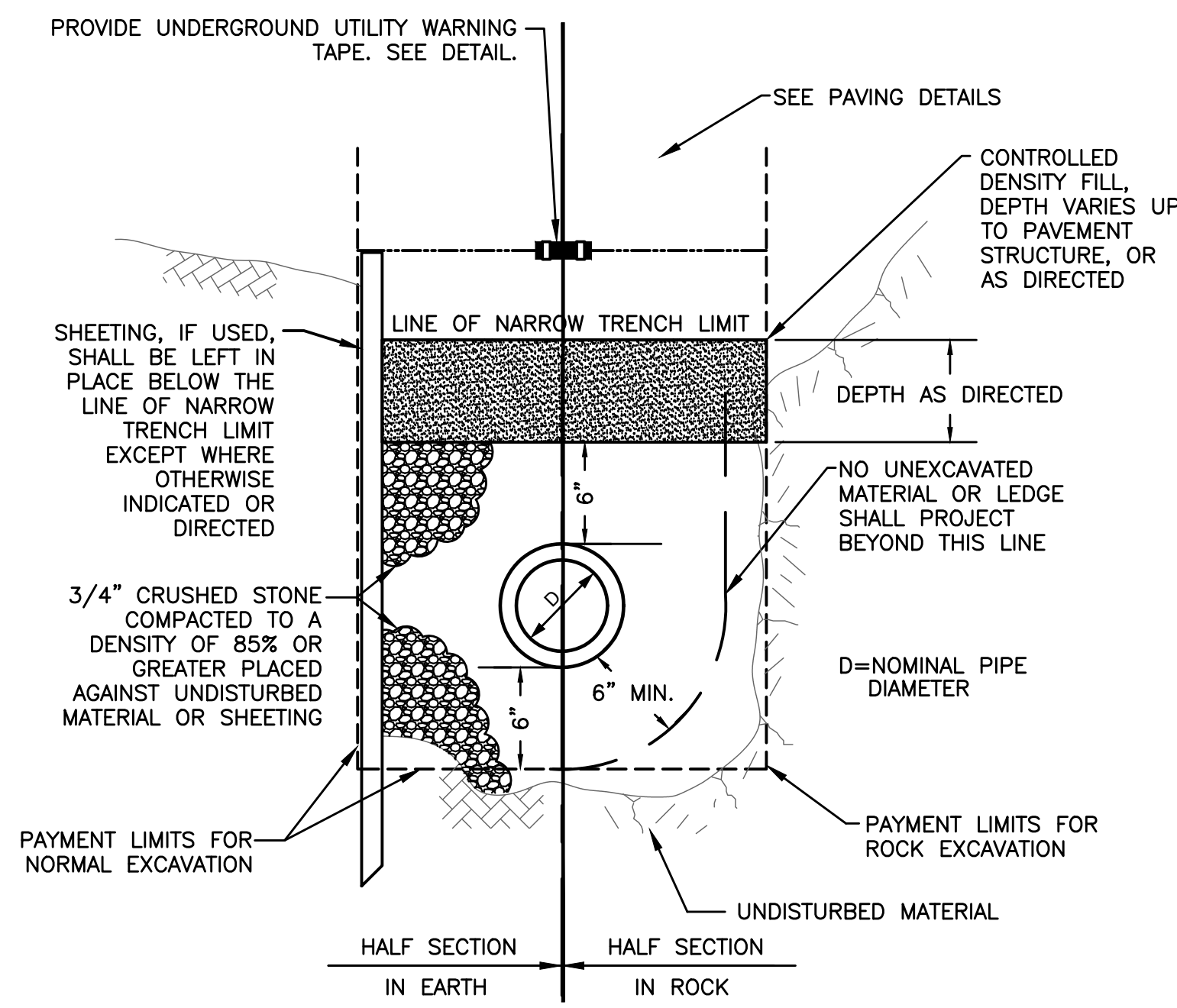
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SHEET NO.

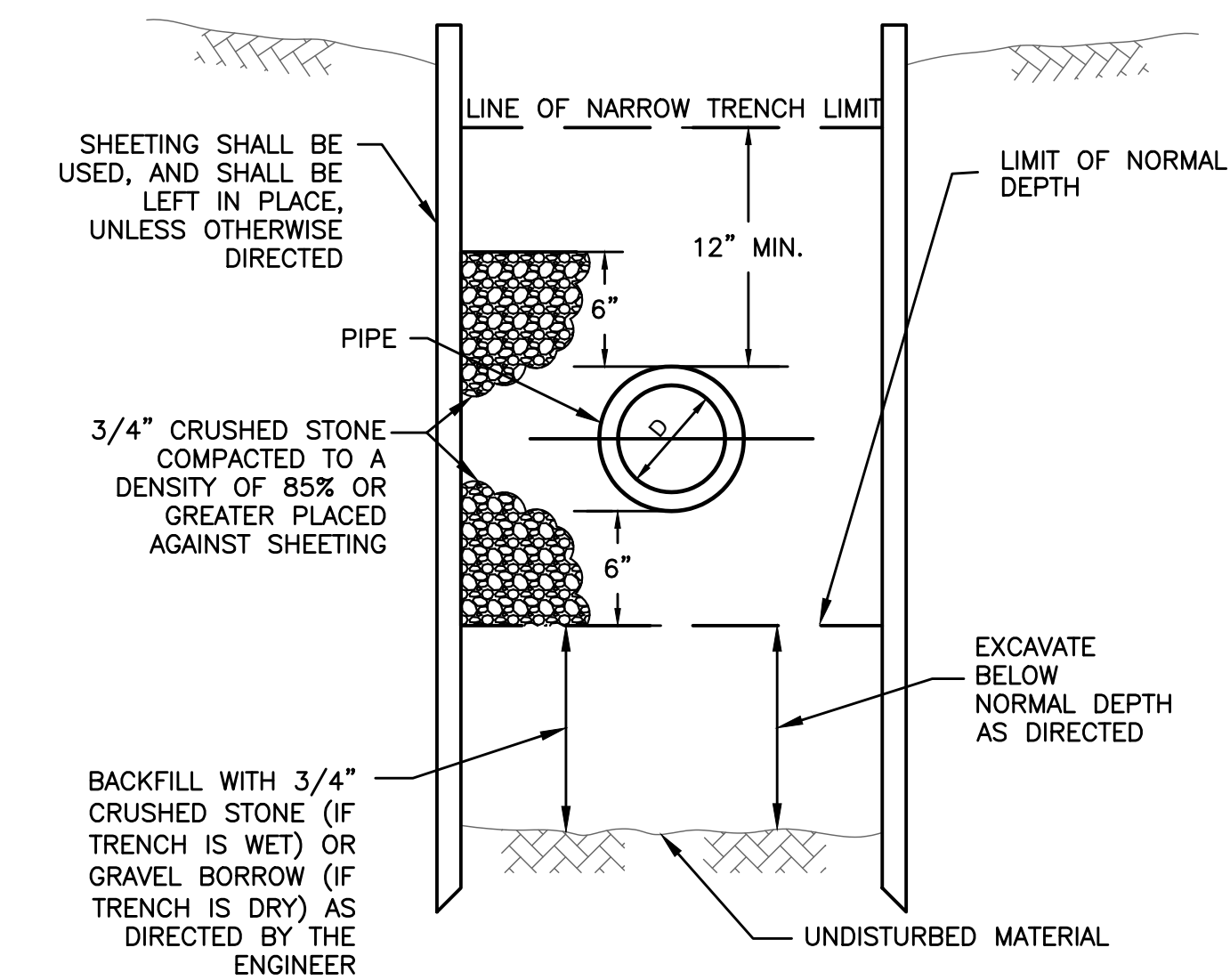
CD-1



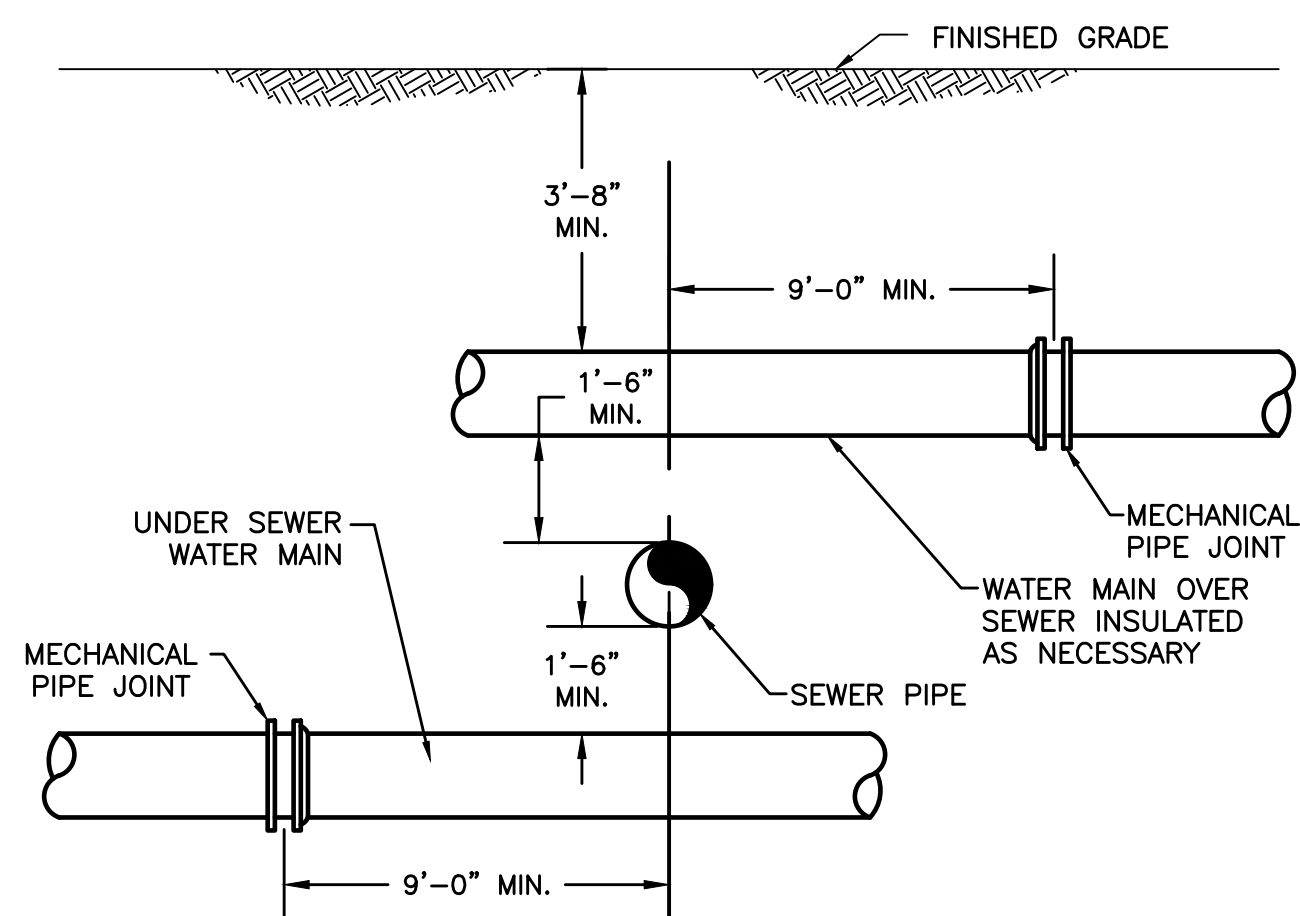
STANDARD TRENCH SECTION
SCALE: NONE



STANDARD TRENCH SECTION FOR CROSS TRENCHES AND WHERE CDF IS REQUIRED
SCALE: NONE

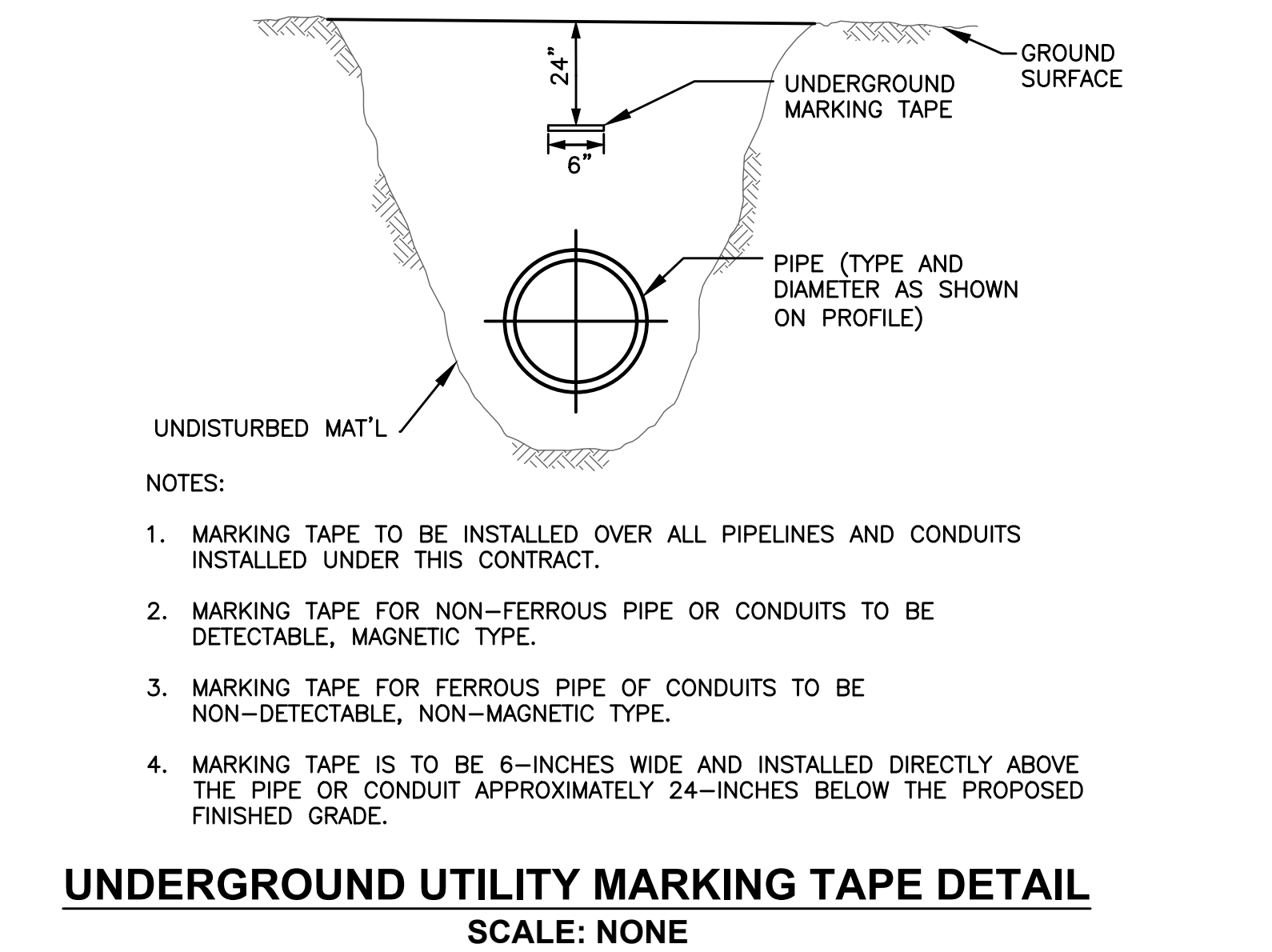


STANDARD TRENCH SECTION (WHERE UNSUITABLE MATERIAL EXISTS BELOW NORMAL DEPTH)
SCALE: NONE

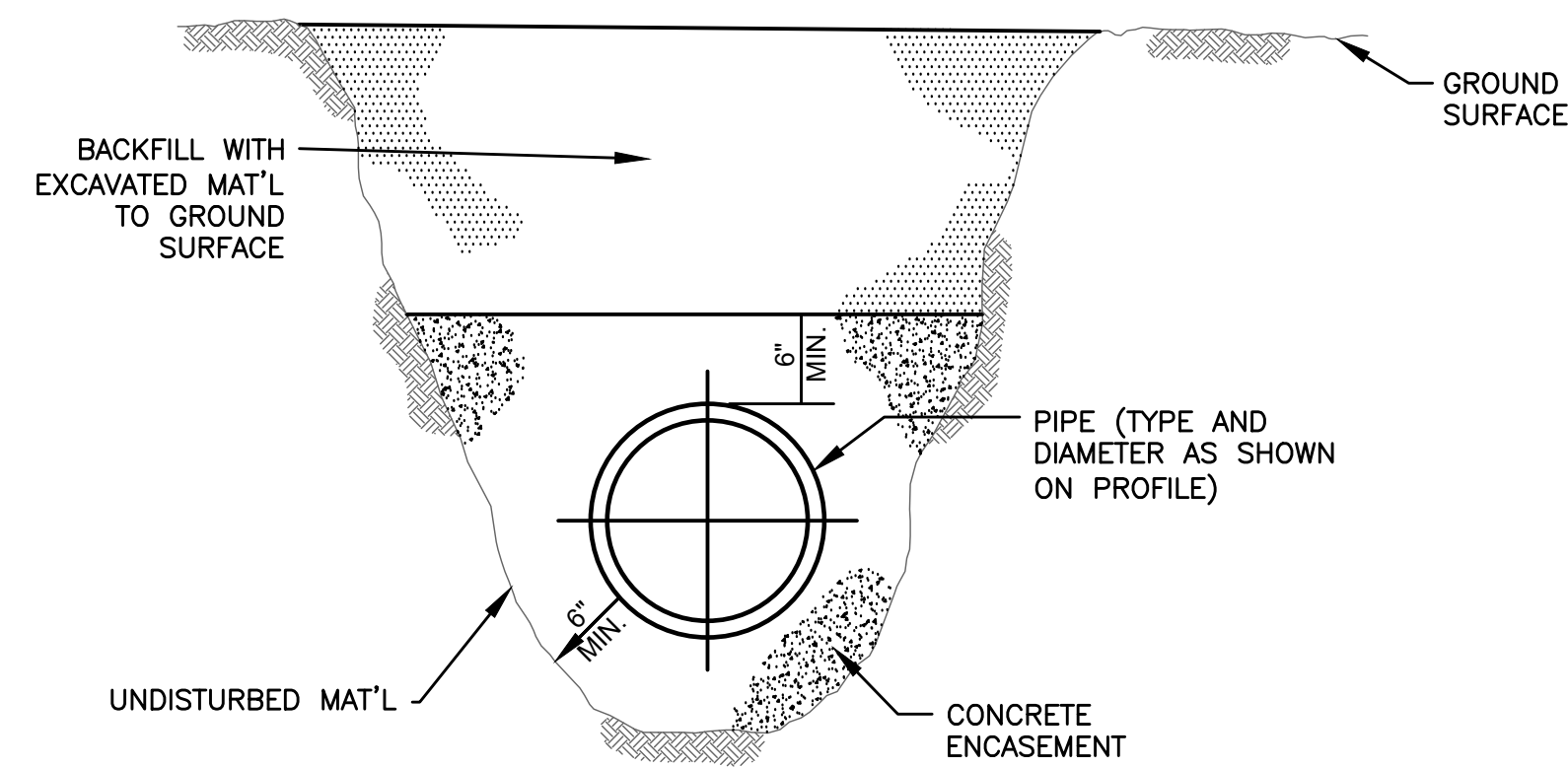


- NOTES:
- SEWERS SHALL BE KEPT REMOTE FROM WATER SUPPLY PIPING AND STRUCTURES. WHEREVER FEASIBLE, SEWERS SHOULD BE LAID AT A MINIMUM HORIZONTAL DISTANCE OF 10 FEET FROM WATER MAINS. IF LOCAL CONDITIONS PREVENT THIS, THE WATER MAIN SHOULD BE LAID IN A SEPARATE TRENCH, AND THE ELEVATIONS OF THE CROWN OF THE SEWER PLACED AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN.
 - WHENEVER SEWERS MUST CROSS WATER MAINS, THE CROWN OF THE SEWER SHOULD BE PLACED A MINIMUM OF 18 INCHES BELOW THE INVERT OF THE WATER MAIN. IN ADDITION, THE WATER MAIN MUST BE CONSTRUCTED WITH ONE FULL LENGTH OF PIPE CENTERED ABOUT THE SEWER CROSSING. THE WATER PIPE SHALL HAVE MECHANICAL JOINTS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE SEWER CROSSING.
 - WHEN IT IS IMPOSSIBLE TO OBTAIN HORIZONTAL OR VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER AND THE SEWER SHOULD BE ENCASED IN CONTROL DENSITY FILL FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CROSSING.

SEWER LINE / WATER LINE CROSSING
SCALE: NONE

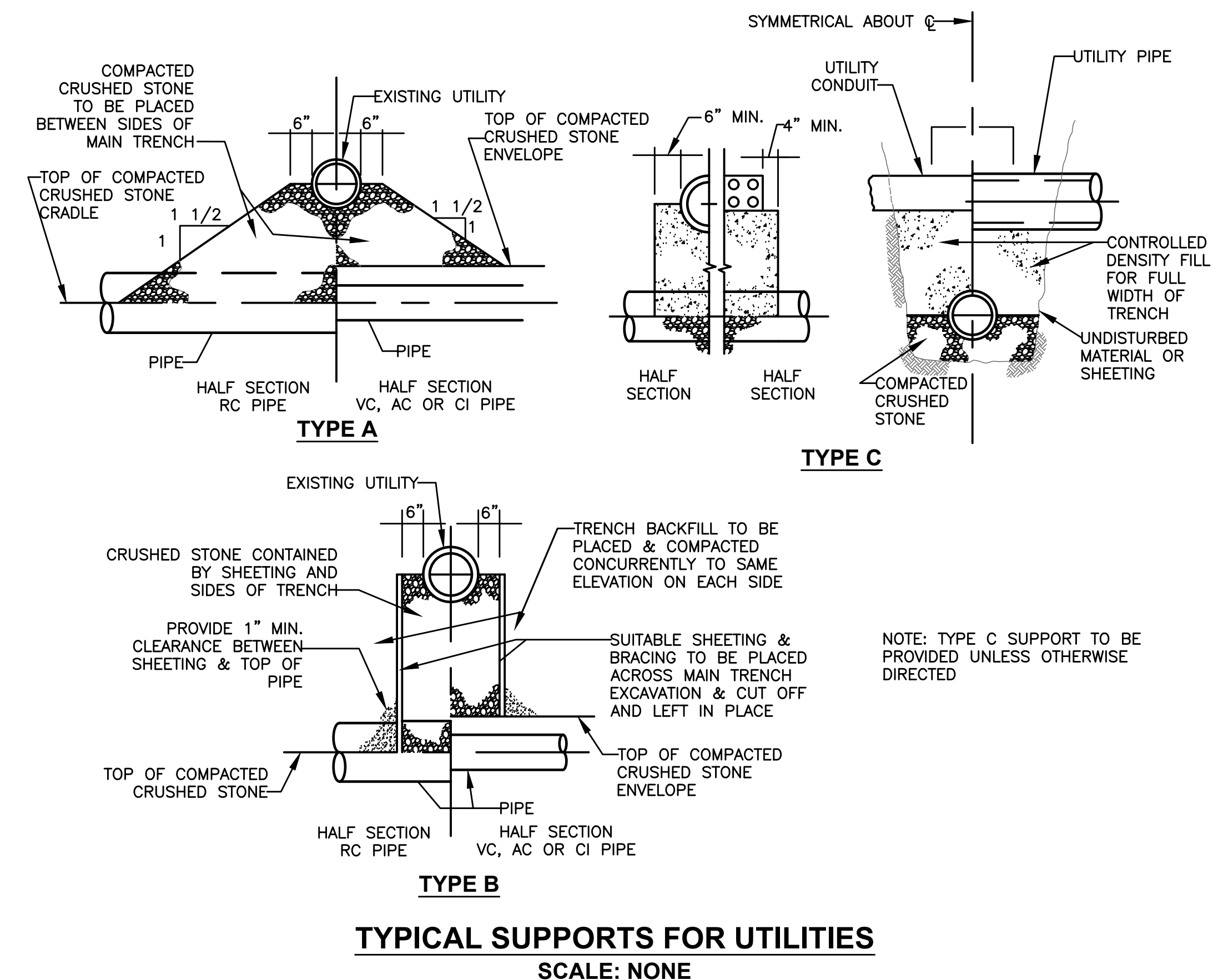


UNDERGROUND UTILITY MARKING TAPE DETAIL
SCALE: NONE



- NOTES:
- DETAIL FOR LOCATIONS WHERE INSUFFICIENT SEPARATION BETWEEN SEWER AND WATER EXISTS (<10' HORIZONTAL OR <18" VERTICAL).
 - THE PIPE SHALL BE PROPERLY SECURED TO PREVENT DISPLACEMENT DURING THE POURING OF CONCRETE ENCASEMENT.
 - LIMIT OF CONCRETE ENCASEMENT SHALL BE SHOWN ON THE PROFILE OR AS DIRECTED.

CONCRETE ENCASEMENT DETAIL
SCALE: NONE



TYPICAL SUPPORTS FOR UTILITIES
SCALE: NONE

PREPARED BY



REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

CIVIL DETAILS II

1	ADDENDUM #1	6/17/22
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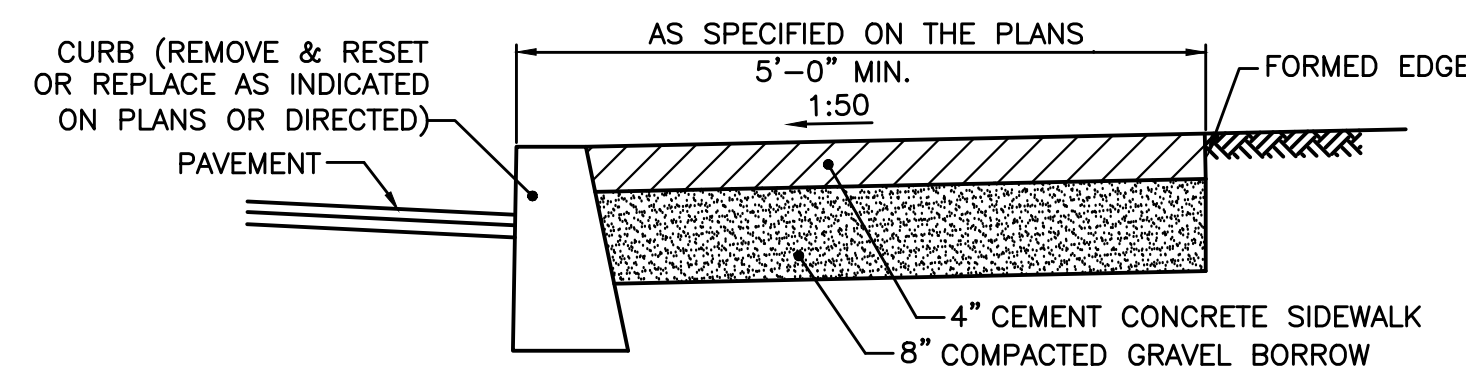
NO.	REVISIONS	DATE
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DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	4/7/2023
BETA JOB NO.:	10685

SCALE: NONE

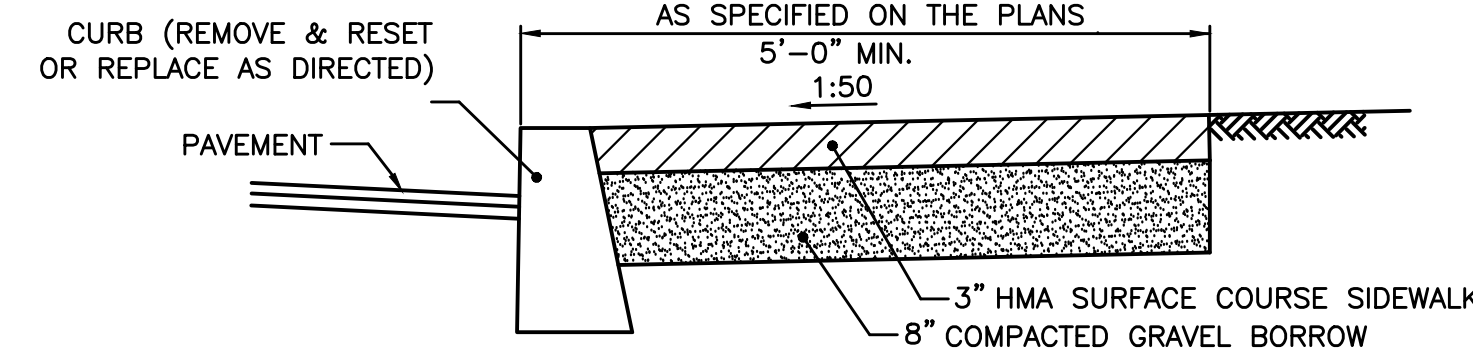
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SHEET NO. CD-2



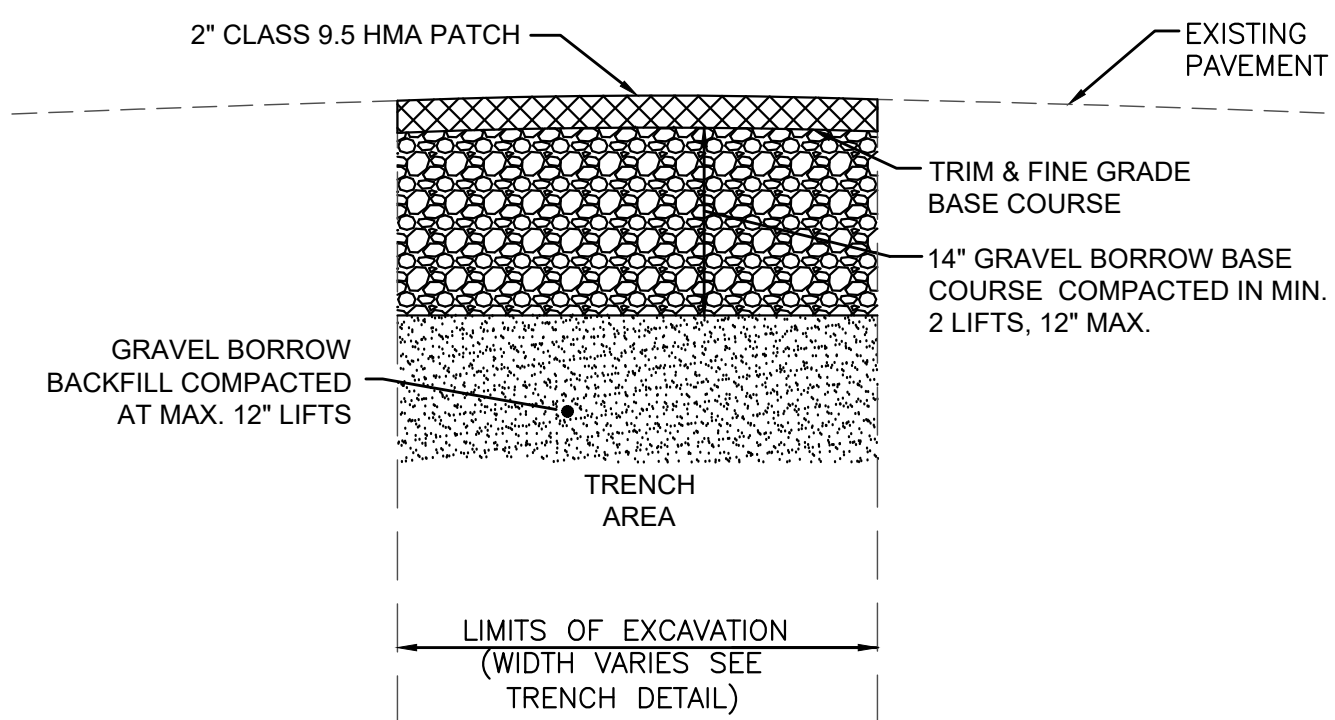
- NOTES:
1. SHALL BE IN ACCORDANCE WITH CITY OF TAUNTON REQUIREMENTS. NEW SIDEWALKS TO MATCH EXISTING SIDEWALK GRADE, GRID, AND FINISH.
 2. ELIMINATE CURBING FOR SIDEWALKS IN GRASSED/NON-ROADWAY AREAS.
 3. EXISTING SIDEWALK TO BE SAW CUT AS DIRECTED BASE ON THE PLACEMENT OF NEW SIDEWALKS.

CEMENT CONCRETE SIDEWALK
SCALE: NONE



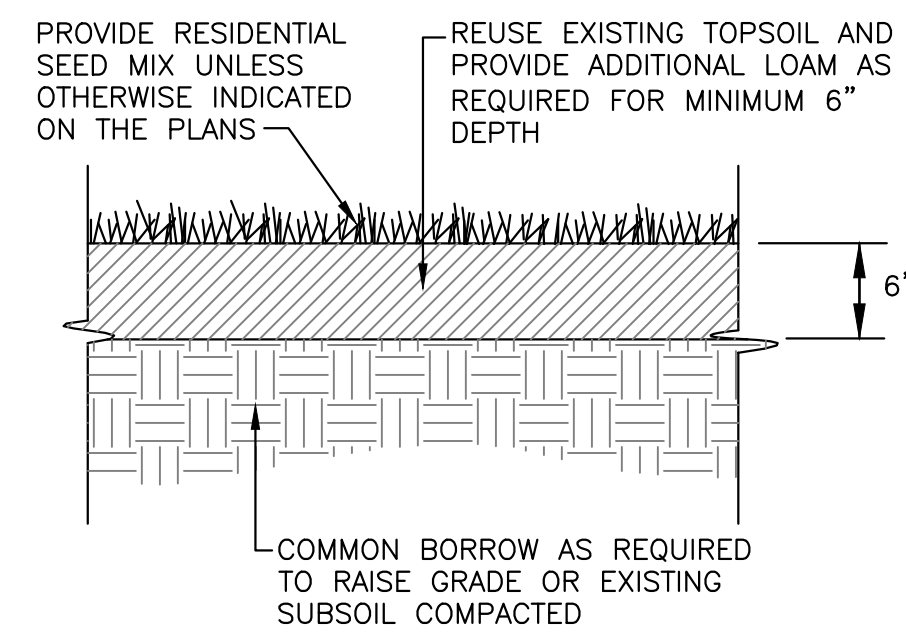
- NOTES:
1. SHALL BE IN ACCORDANCE WITH CITY OF TAUNTON REQUIREMENTS. NEW SIDEWALKS TO MATCH EXISTING SIDEWALK GRADE, GRID, AND FINISH.
 2. ELIMINATE CURBING FOR SIDEWALKS IN GRASSED/NON-ROADWAY AREAS.
 3. EXISTING SIDEWALK TO BE SAW CUT AS DIRECTED BASE ON THE PLACEMENT OF NEW SIDEWALKS.

HMA SIDEWALK
SCALE: NONE

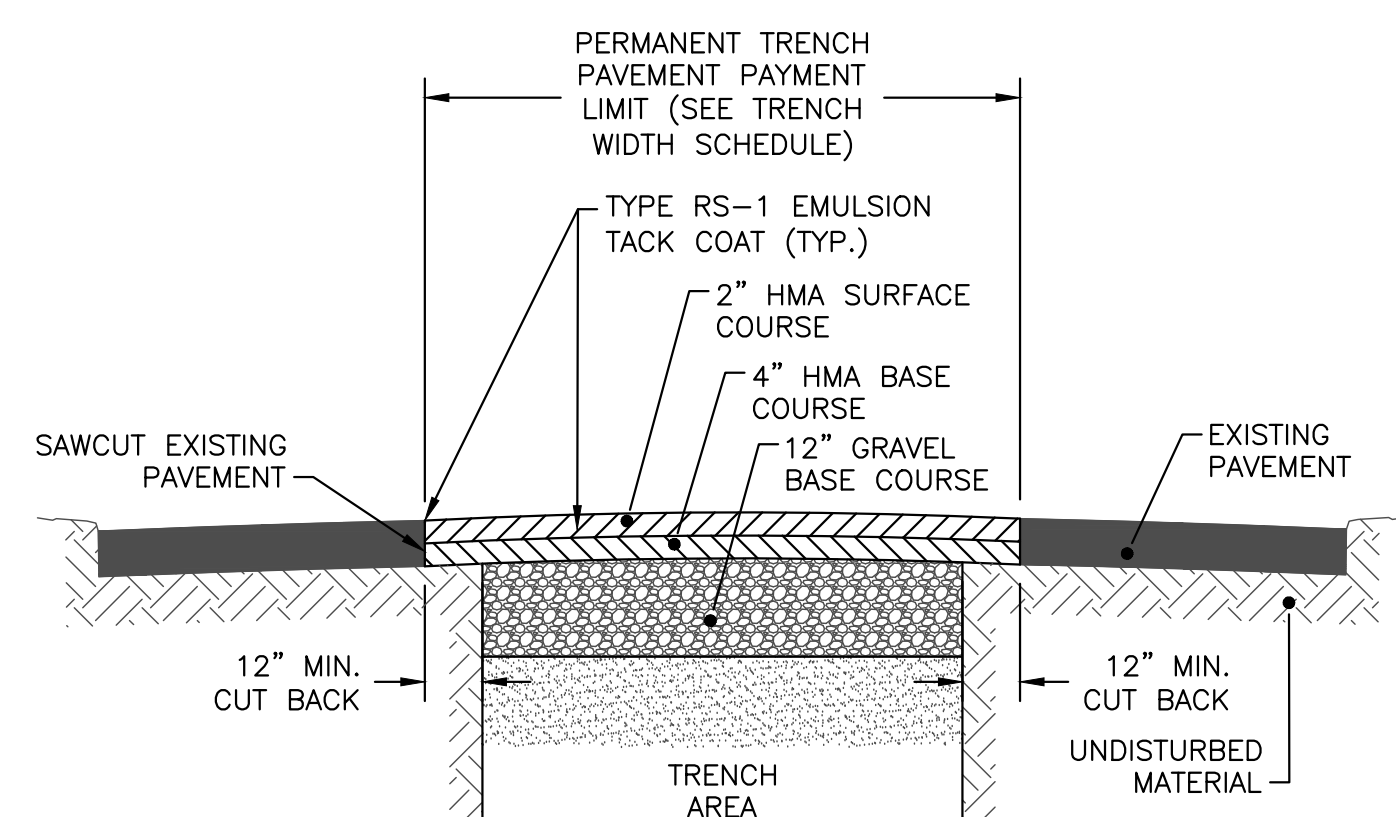


NOTE:
TEMPORARY PATCH SHALL REMAIN IN PLACE THROUGH A WINTER SEASON SETTLEMENT PERIOD BEFORE PERMANENT PATCH AND/OR OVERLAY IS INSTALLED.

BITUMINOUS CONCRETE TEMPORARY TRENCH WIDTH PAVEMENT PATCH
SCALE: NONE

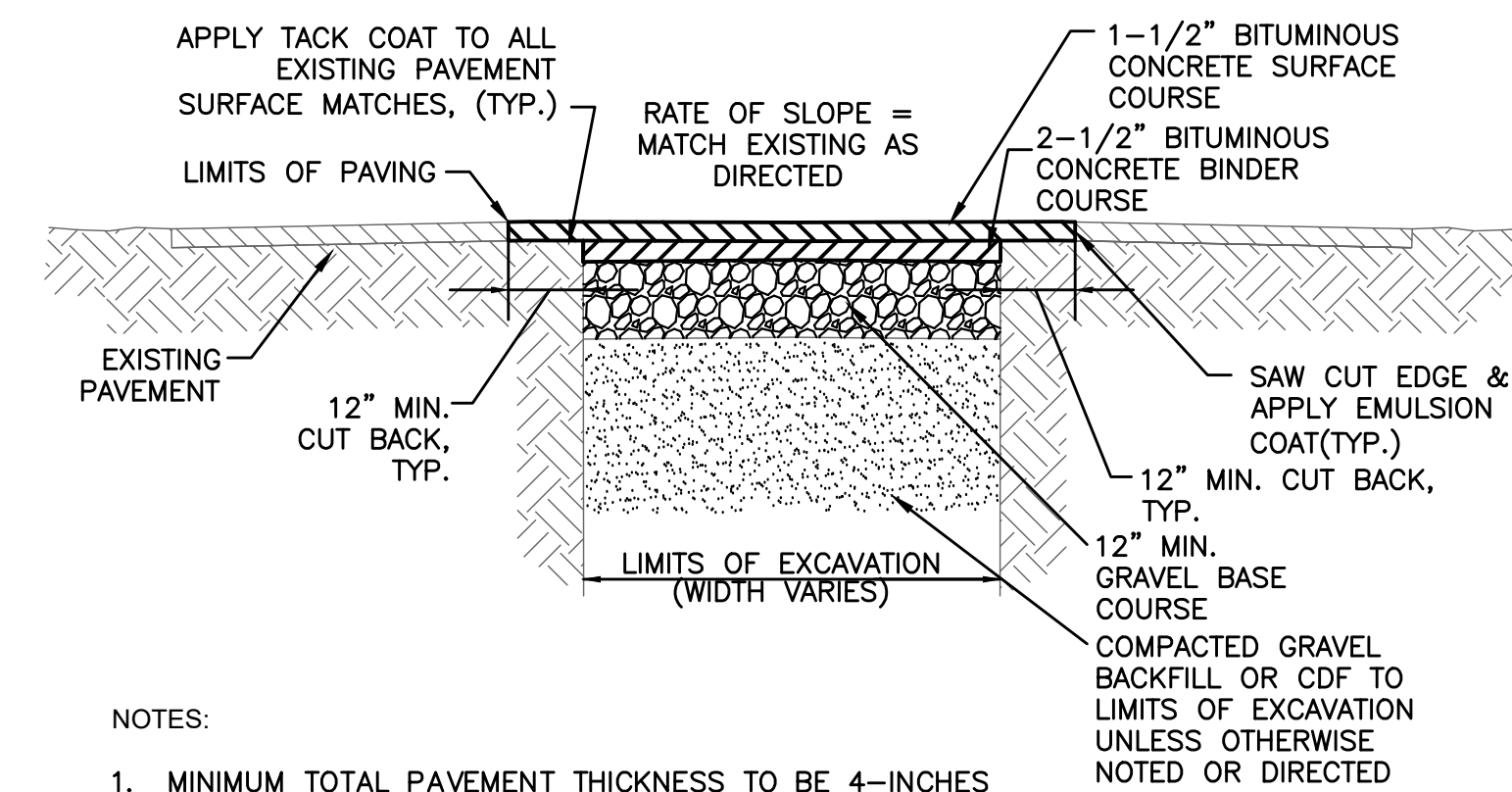


LOAM AND SEED DETAIL
SCALE: NONE



- NOTES:
1. MINIMUM TOTAL PAVEMENT THICKNESS TO BE 6-INCHES AND SHALL BE APPLIED TO PAVEMENT RESTORATION LOCATED WITHIN THE ROADWAY LIMITS. CONTRACTOR TO VARY PAVEMENT THICKNESS TO MAINTAIN A MINIMUM CROSS SECTIONAL SLOPE EQUALING 0.02 FT/FT.
 2. CUT BACK DISTANCES SHALL BE AS DIRECTED BY THE ENGINEER, HOWEVER UNDER NO CIRCUMSTANCES LESS THAN THE MINIMUM INDICATED.

TYPICAL PERMANENT TRENCH-WIDTH ROADWAY PAVEMENT RESTORATION
SCALE: NONE



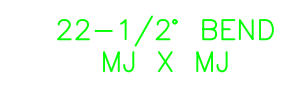
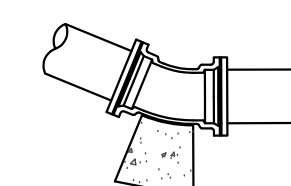
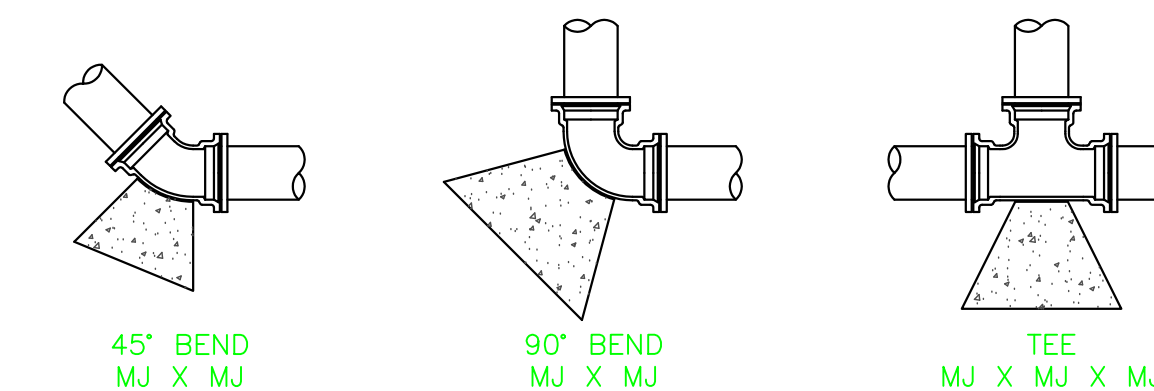
- NOTES:
1. MINIMUM TOTAL PAVEMENT THICKNESS TO BE 4-INCHES AND SHALL BE APPLIED TO PAVEMENT RESTORATION LOCATED WITHIN SITE LIMITS AS INDICATED ON THE CONTRACT DRAWINGS.
 2. CUT BACK DISTANCES SHALL BE AS DIRECTED BY THE ENGINEER, HOWEVER UNDER NO CIRCUMSTANCES LESS THAN THE MINIMUM INDICATED.

TYPICAL PERMANENT TRENCH-WIDTH SITE PAVEMENT RESTORATION
SCALE: NONE

DIAMETER OF PIPE D IN INCHES	MAXIMUM PAYMENT LIMITS					
	TRENCH WIDTH IN FEET		TEMPORARY TRENCH PAVEMENT WIDTH IN FEET		PERMANENT TRENCH PAVEMENT WIDTH IN FEET*	
	TRENCH DEPTH	TRENCH DEPTH	TRENCH DEPTH	TRENCH DEPTH	TRENCH DEPTH	TRENCH DEPTH
12 AND SMALLER	< OR = 10'	> 10' TO 20'	< OR = 10'	> 10' TO 20'	< OR = 10'	> 10' TO 20'
15	5.00	6.00	6.00	7.00	8.00	9.00
18	5.25	6.25	6.25	7.25	8.25	9.25
21	5.50	6.50	6.50	7.50	8.50	9.50
24	5.75	6.75	6.75	7.75	8.75	9.75
27	6.00	7.00	7.00	8.00	9.00	10.00
30	6.25	7.25	7.25	8.25	9.25	10.25
36	6.50	7.50	7.50	8.50	9.50	10.50
42	7.00	8.00	8.00	9.00	10.00	11.00
48	7.50	8.50	8.50	9.50	10.50	11.50
54	8.00	9.00	9.00	10.00	11.00	12.00
60	8.50	9.50	9.50	10.50	11.50	12.50
66	9.00	10.00	10.00	11.00	12.00	13.00
72	9.50	10.50	10.50	11.50	12.50	13.50
72	10.00	11.00	11.00	12.00	13.00	14.00

- NOTES:
1. PERMANENT TRENCH PAVEMENT INCLUDES 1' CUT BACK OF TEMPORARY PAVEMENT ALONG EACH SIDE OF THE TRENCH.
 2. TRENCH DEPTH MEASURED FROM THE EXISTING GROUND SURFACE TO 6" BELOW THE BOTTOM OF THE CONSTRUCTED PIPE.
 3. QUANTITIES FOR PAYMENT SHALL BE IN ACCORDANCE WITH THE ABOVE LIMITS OR THE ACTUAL WIDTHS, WHICHEVER IS LESS.

TRENCH WIDTH TABLE



PIPE SIZE	MINIMUM SURFACE AREA (S.F.) OF CONCRETE AGAINST UNDISTURBED EARTH				
	1 1/2"	2 1/2"	4"	6"	TEE
4"	0.5	1.1	2.1	3.9	2.8
6"	0.5	1.1	2.1	3.9	2.8
8"	0.9	1.8	3.6	6.6	4.7
12"	1.8	3.7	7.2	13.2	9.3

NOTE:
1. PORTLAND TYPE II CEMENT CONCRETE MEETING SPECIFICATION SECTION 03300 AND SHALL BE PLACED SO AS TO NOT INTERFERE WITH THE JOINTS OF THE FITTING. CONCRETE SHALL BE 4000 PSI.

8-INCH					
END	45° BEND	22.5° BEND	11.25° BEND	8X6 RED.	
49 FT	13 FT	7 FT	3 FT	34 FT	

4-INCH					
90° BEND	22.5° BEND	22.5° BEND	11.25° BEND		
18 FT	8 FT	4 FT	2 FT		

THRUST BLOCK BEARING AREA TABLE FOR WATER AND SEWER MAIN
SCALE: NONE

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

CIVIL DETAILS III

NO.	REVISIONS	DATE
	ADDENDUM #1	6/17/22

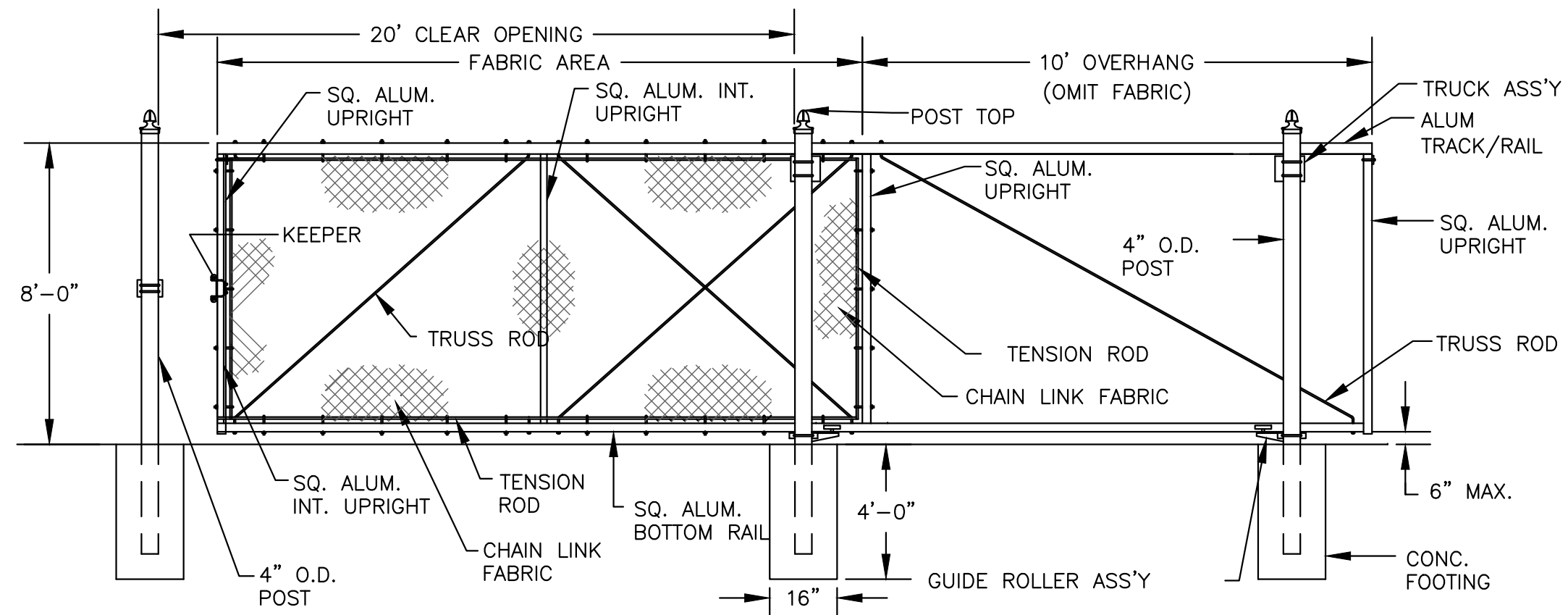
DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	4/7/2023
BETA JOB NO.:	10685

SCALE

NONE

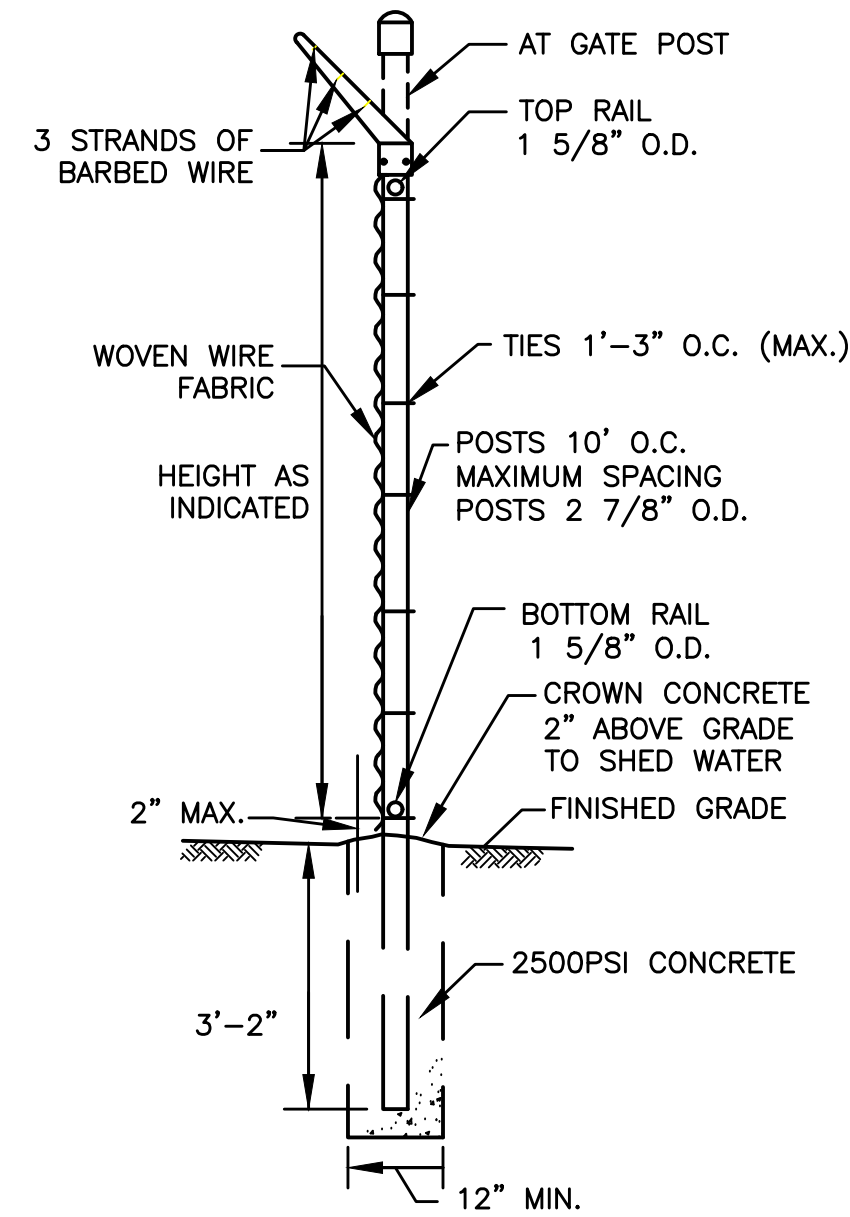
SHEET NO.

CD-3

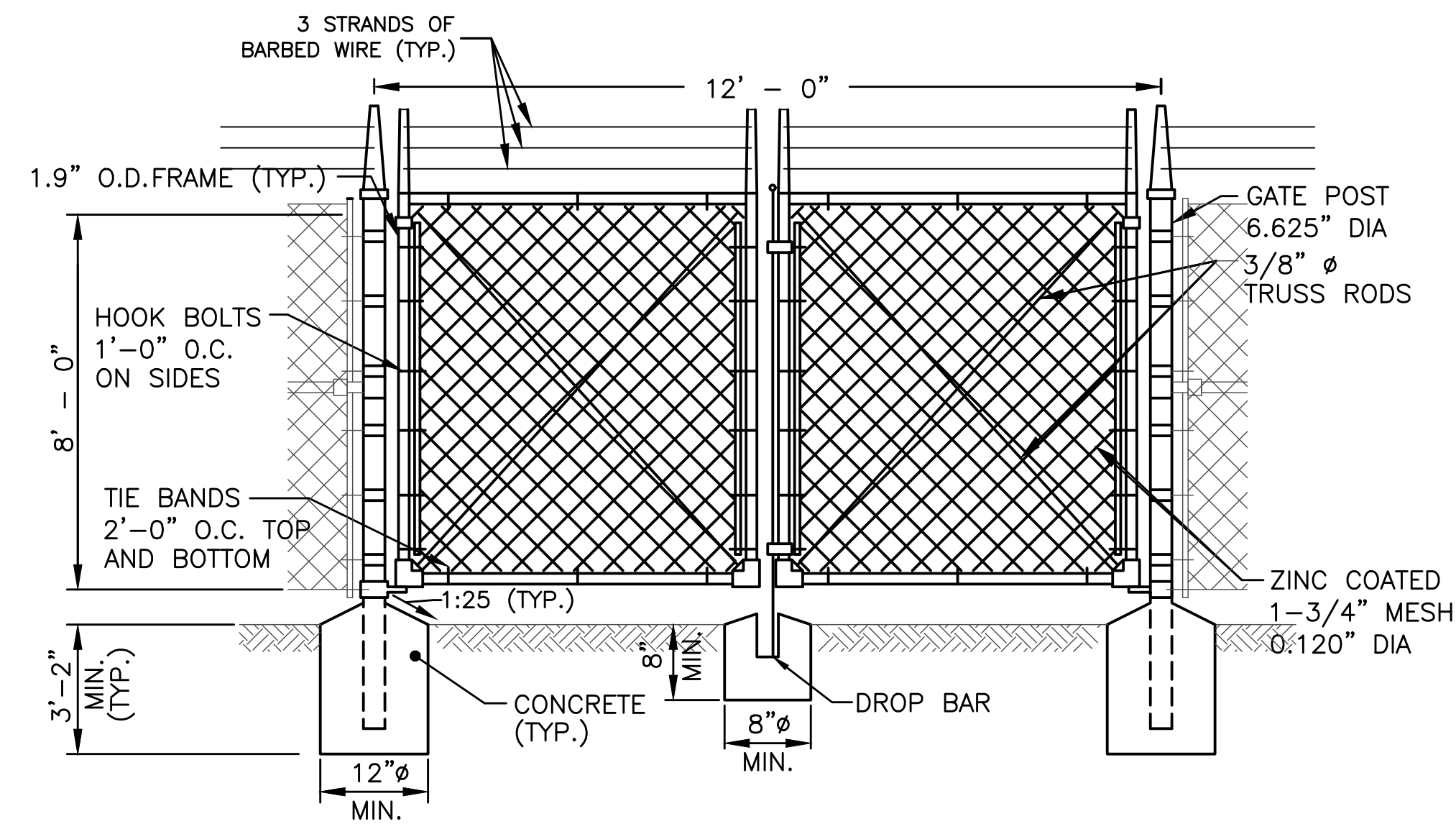


SINGLE CANTILEVERED SLIDE GATE DETAIL
SCALE: NONE

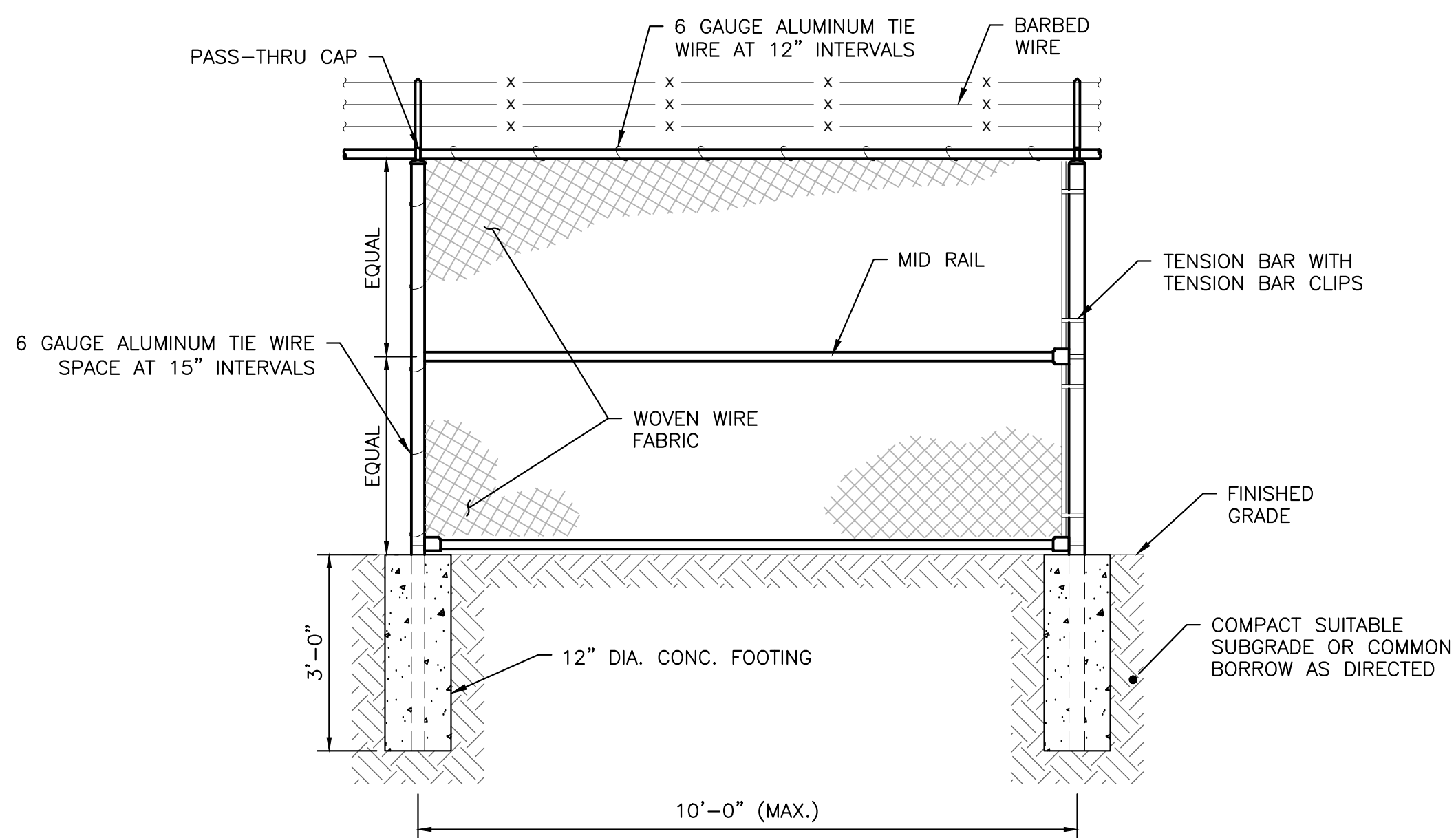
* GATE COMPONENTS ARE TO MEET OR EXCEED SPECIFIED FENCE REQUIREMENTS.



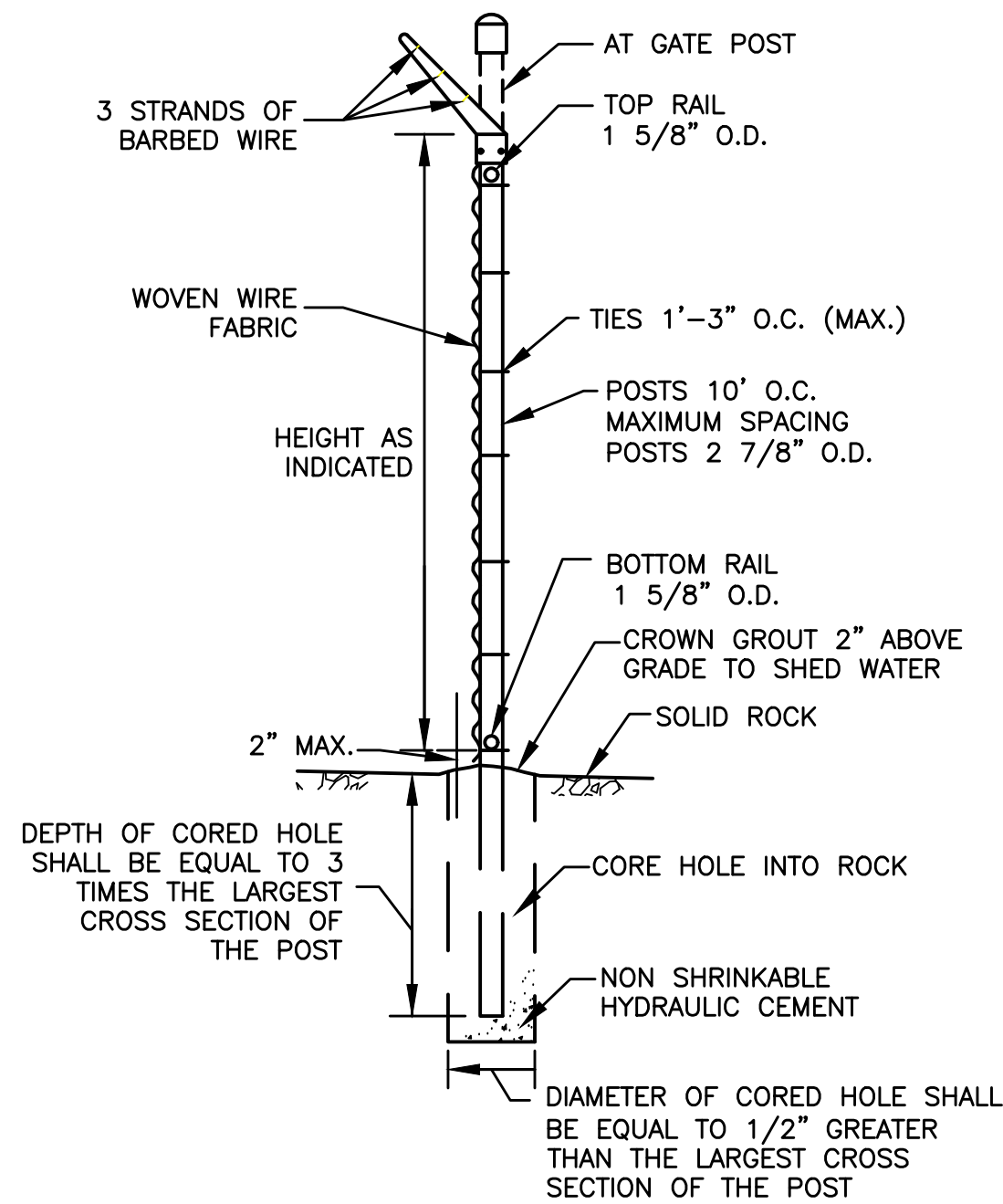
TYPICAL CHAIN-LINK FENCE SECTION DETAIL
SCALE: NONE



SWING GATE DETAIL
SCALE: NONE

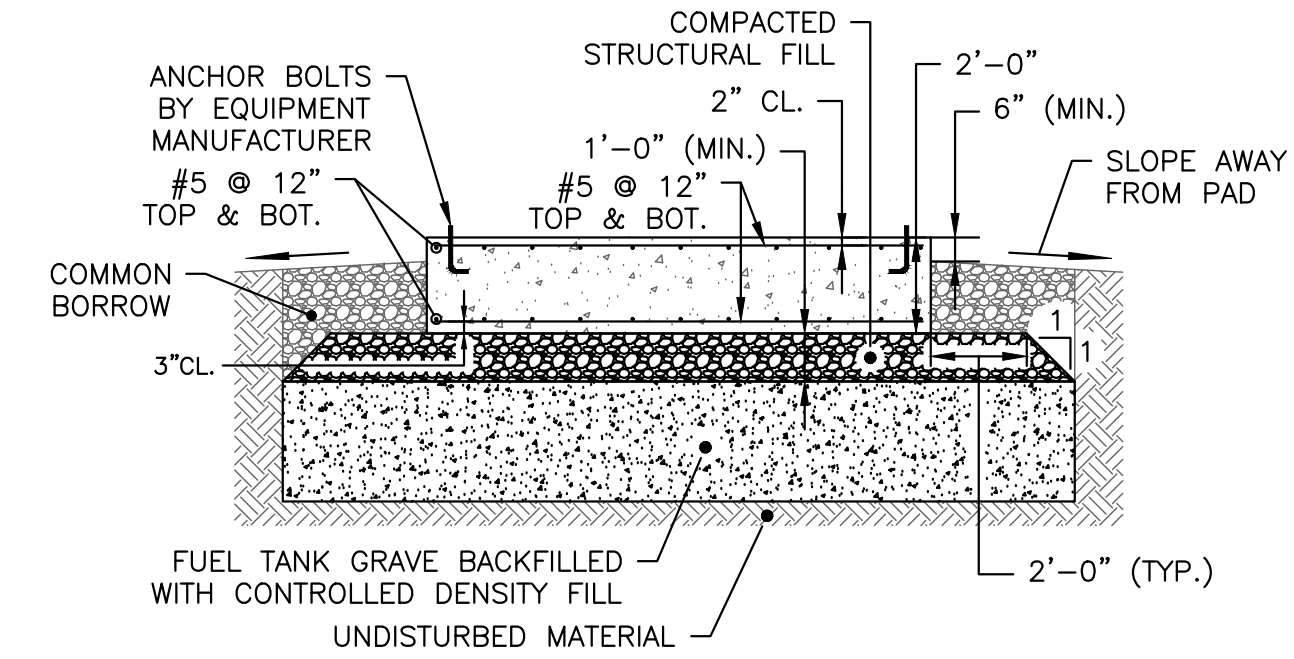
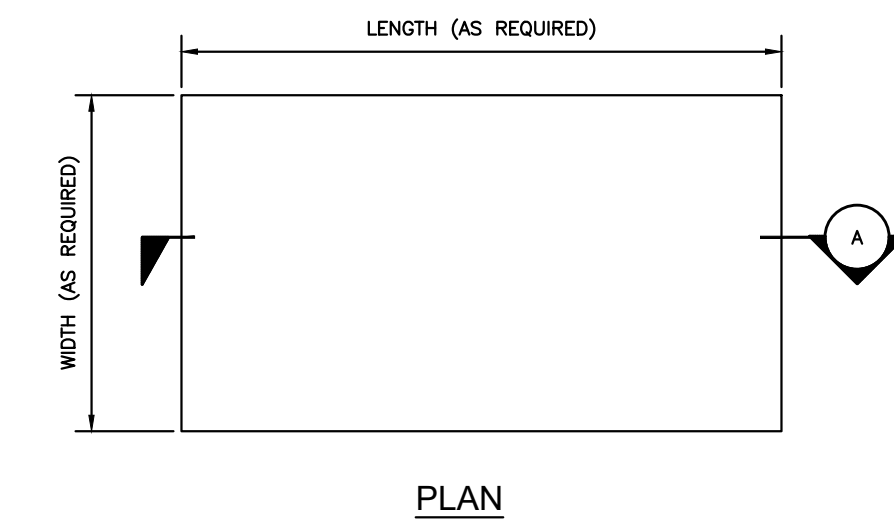


CHAIN LINK FENCE DETAIL
SCALE: NONE



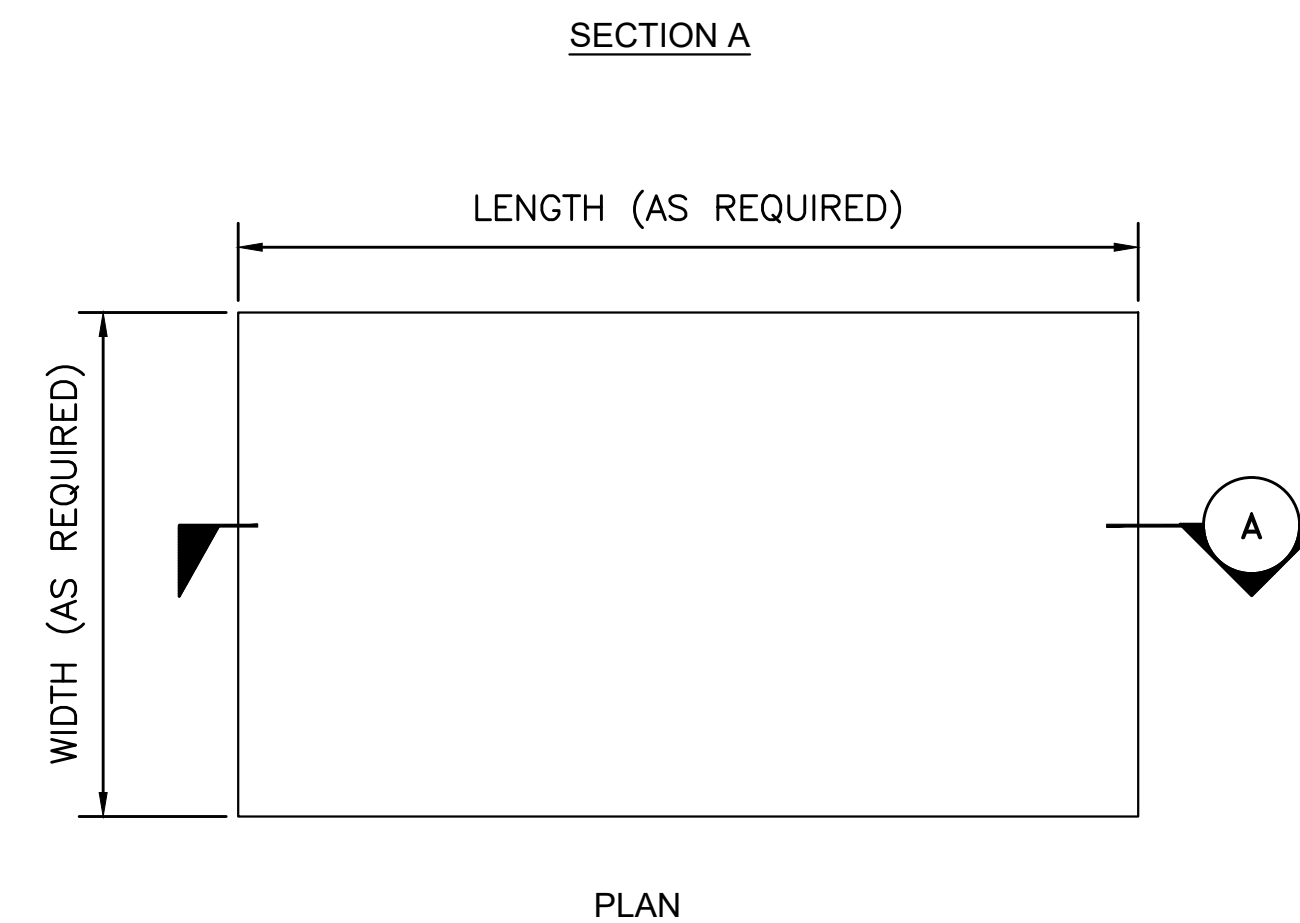
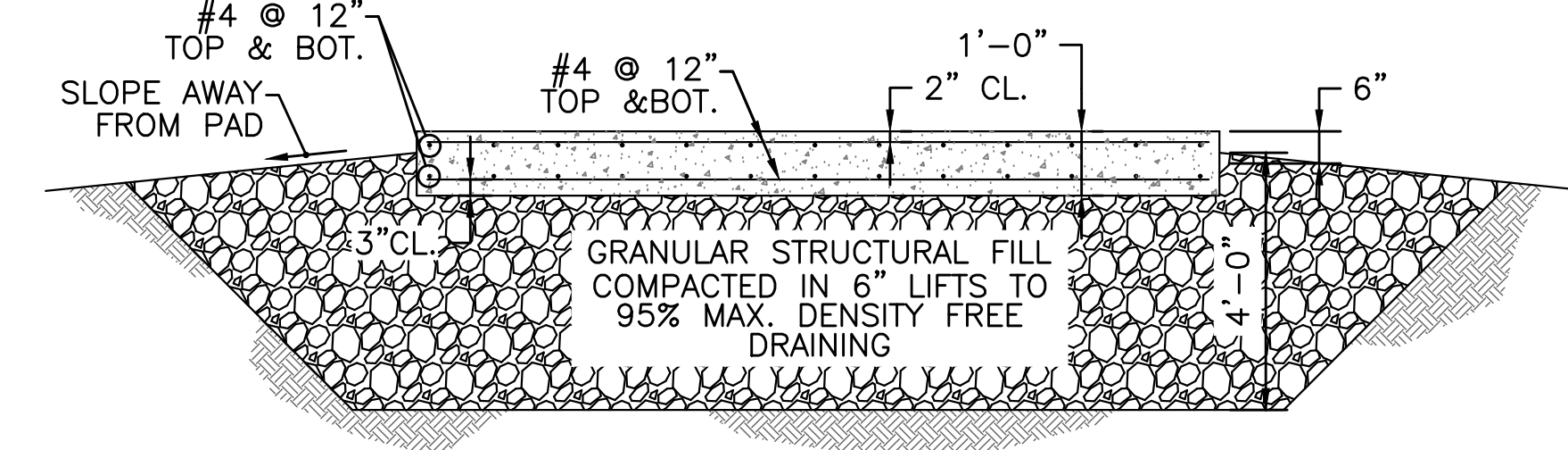
NOTES:
1. IF OVERBURDEN IS ENCOUNTERED CORE DRILLING MAY BE REQUIRED TO ACHIEVE PROPER DEPTH.

CHAIN-LINK FENCE SECTION INSTALLED IN ROCK DETAIL
SCALE: NONE



NOTES:
1. LENGTH AND WIDTH OF GENERATOR PAD TO BE COORDINATED WITH GENERATOR SUPPLIER.
2. CONCRETE TO BE 3500 PSI WITH A MAX 4" SLUMP.
3. TOP SURFACE OF PAD TO BE STEEL TROWELED TO LEVEL SMOOTH FINISH.
4. REFER TO MANUFACTURER'S DRAWINGS FOR GENERATOR ANCHOR REQUIREMENTS AND LOCATIONS.
5. COORDINATE REQUIRED PENETRATIONS WITH ELECTRIC AND PLUMBING CONTRACTOR.

GENERATOR PAD WITH CONTROL DENSITY BACKFILL DETAIL
SCALE: NONE



NOTES:
1. LENGTH AND WIDTH OF GENERATOR PAD TO BE COORDINATED WITH GENERATOR SUPPLIER.
2. CONCRETE TO BE 3500 PSI WITH A MAX 4" SLUMP.
3. TOP SURFACE OF PAD TO BE STEEL TROWELED TO LEVEL SMOOTH FINISH.
4. REFER TO MANUFACTURER'S DRAWINGS FOR GENERATOR ANCHOR REQUIREMENTS AND LOCATIONS.

GENERATOR PAD DETAIL
SCALE: NONE

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

CIVIL DETAILS IV

1	ADDENDUM #1	6/17/22
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NO.	REVISIONS	DATE
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DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

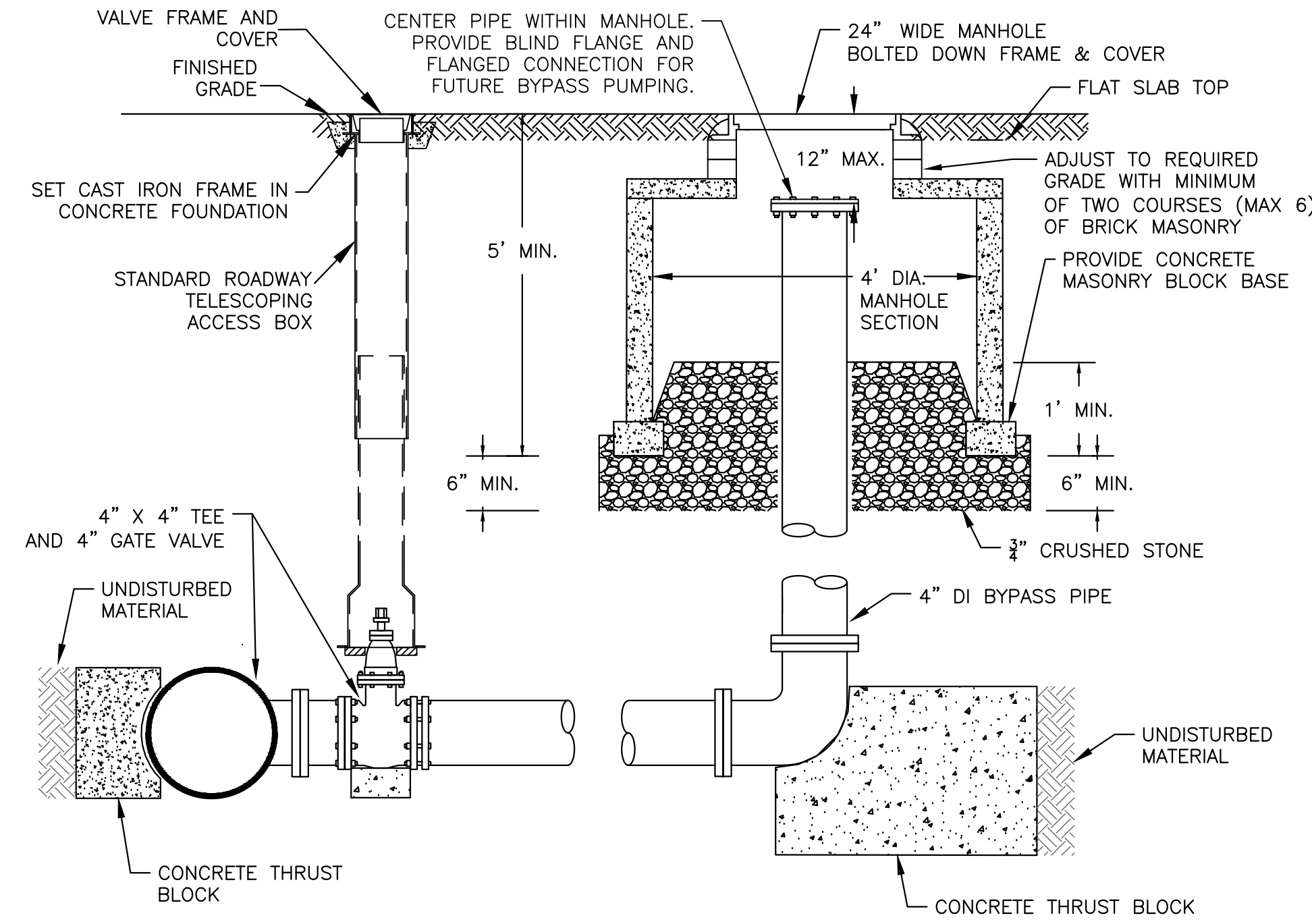
ISSUE DATE: 4/7/2023

BETA JOB NO.:

SCALE

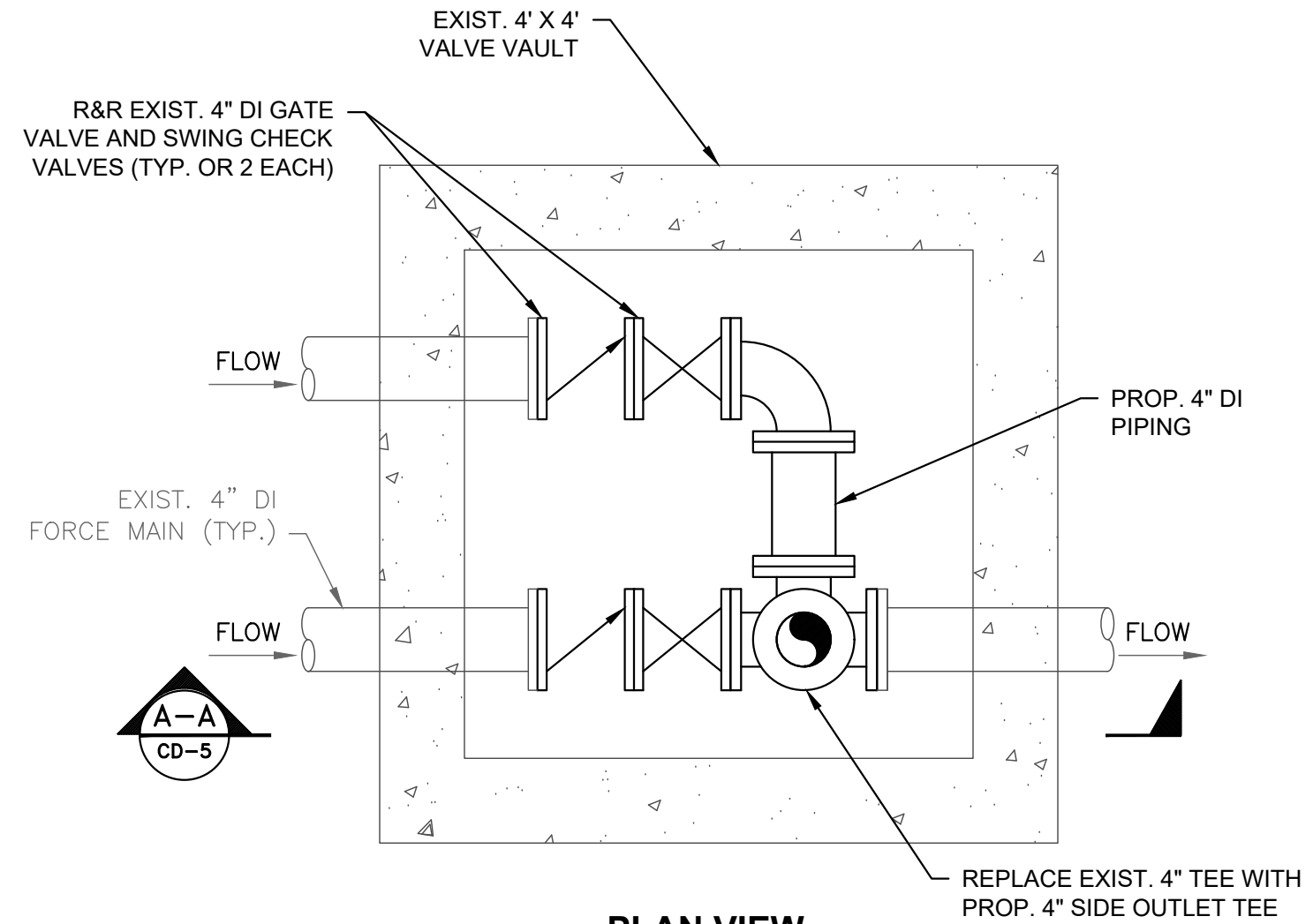
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SHEET NO. CD-4

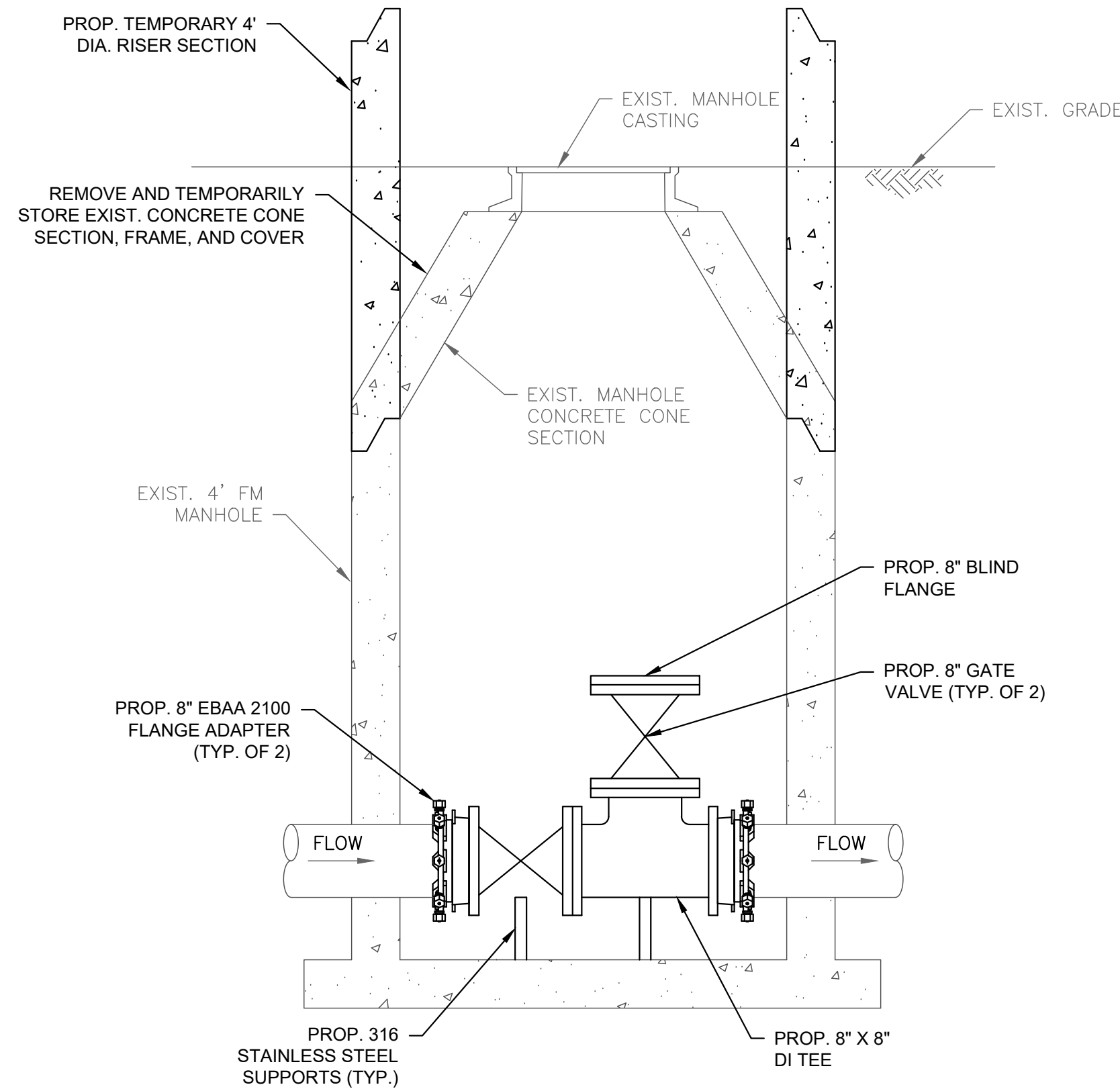


- NOTES:
1. THE CITY OF TAUNTON MAINTAINS AND OPERATES ALL VALVES, PIPING, AND APPURTENANCES UNLESS OTHERWISE NOTED.
 2. DISCHARGE BYPASS CONNECTION WILL BE A 4"x4" TEE AND A 4" GATE VALVE. THE 4"x4" TEE WILL CONNECT TO THE EXISTING 4" DISCHARGE USING 4" DI PIPING AND A 4" ALPHA RESTRAINED COUPLING, OR APPROVED EQUAL, ON BOTH SIDES OF THE PROPOSED 4"x4" TEE.
 3. THRUST BLOCKS SHALL BE 4000 PSI CONCRETE BETWEEN THE PIPE AND UNDISTURBED MATERIAL IN ACCORDANCE WITH DUCTILE IRON PIPE RESEARCH ASSOCIATION THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE.
 4. POLYPROPYLENE SHEETING SHALL BE PLACED AROUND FITTINGS PRIOR TO POURING CONCRETE IN ACCORDANCE WITH AWWA C105.

**DISCHARGE BYPASS CONNECTION
(WELLESLEY CIRCLE PS)
SCALE: NONE**

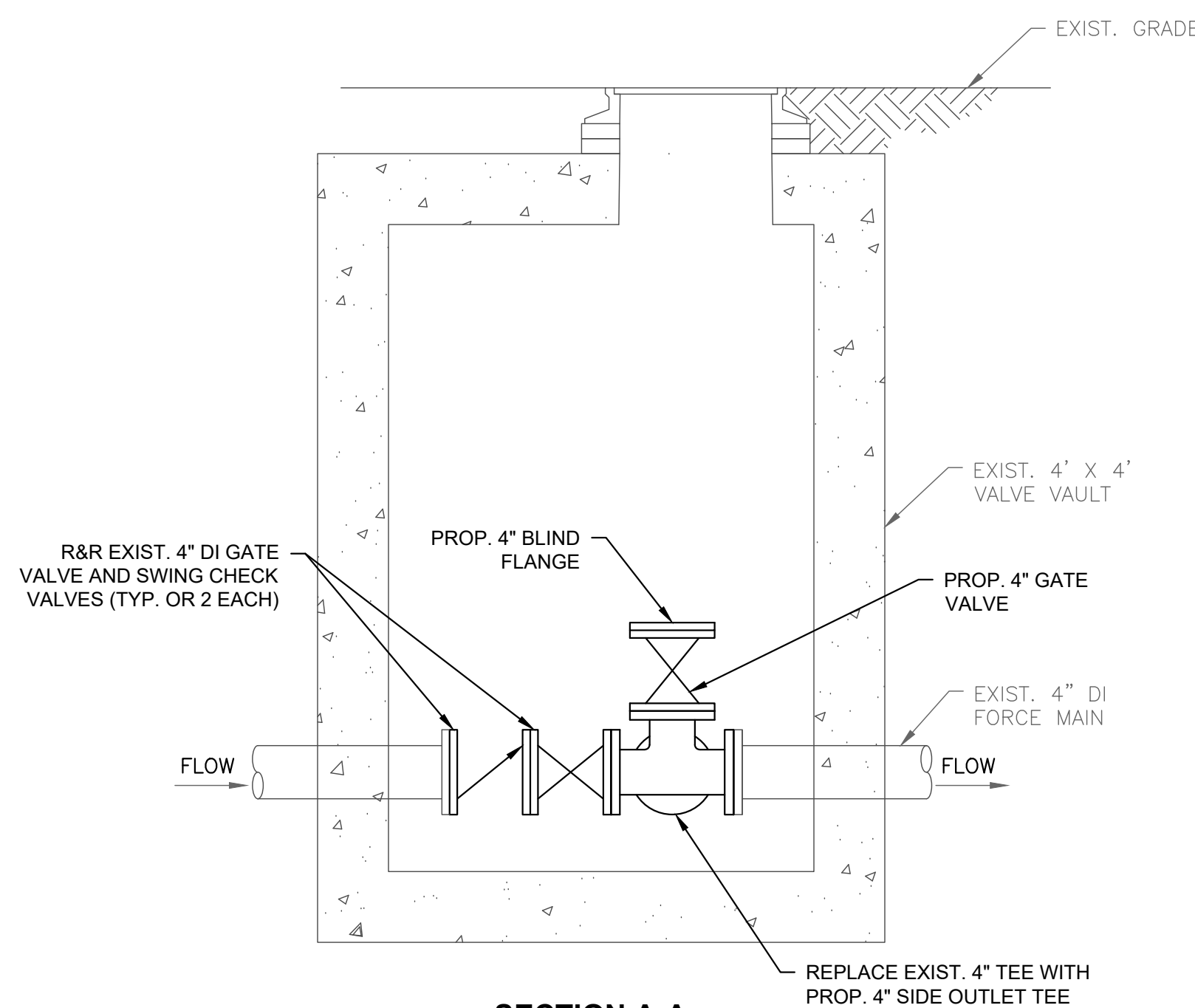


**PLAN VIEW
NOT TO SCALE**



- NOTES:
1. THE EXISTING MANHOLE CONCRETE CONE SECTION, FRAME, AND COVER ARE TO BE REMOVED AND TEMPORARILY STORED FOR INSTALLATION OF THE PROPOSED FITTINGS, VALVES, APPURTENANCES, AND TEMPORARY BYPASS. CONTRACTOR SHALL COORDINATE TEMPORARY STORAGE OF THE EXISTING MANHOLE COMPONENTS WITH THE OWNER AND ENGINEER.
 2. THE EXISTING MANHOLE CONCRETE CONE SECTION, FRAME, AND COVER ARE TO BE REINSTALLED ON THE EXISTING FORCE MAIN MANHOLE AFTER THE TEMPORARY BYPASS HAS BEEN FULLY DECONSTRUCTED.

**DISCHARGE BYPASS CONNECTION
(MYLES STANDISH PS)
SCALE: NONE**



**SECTION A-A
NOT TO SCALE**

**DISCHARGE BYPASS CONNECTION
(DAVIS STREET PS)
SCALE: NONE**

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT

PROJECT

**2023 Pump Station
Improvements**

Taunton, MA

TITLE

CIVIL DETAILS V

NO.	REVISIONS	DATE

DRAWN BY: PN
DESIGNED BY: AG
CHECKED BY: CC
ISSUE DATE: 4/7/2023
BETA JOB NO.: 10685

SCALE

NONE

SHEET NO.

CD-5

Table with 3 columns: NO., REVISIONS, DATE

Table with 2 columns: DRAWN BY, DESIGNED BY, CHECKED BY, ISSUE DATE, BETA JOB NO.

SCALE

NONE

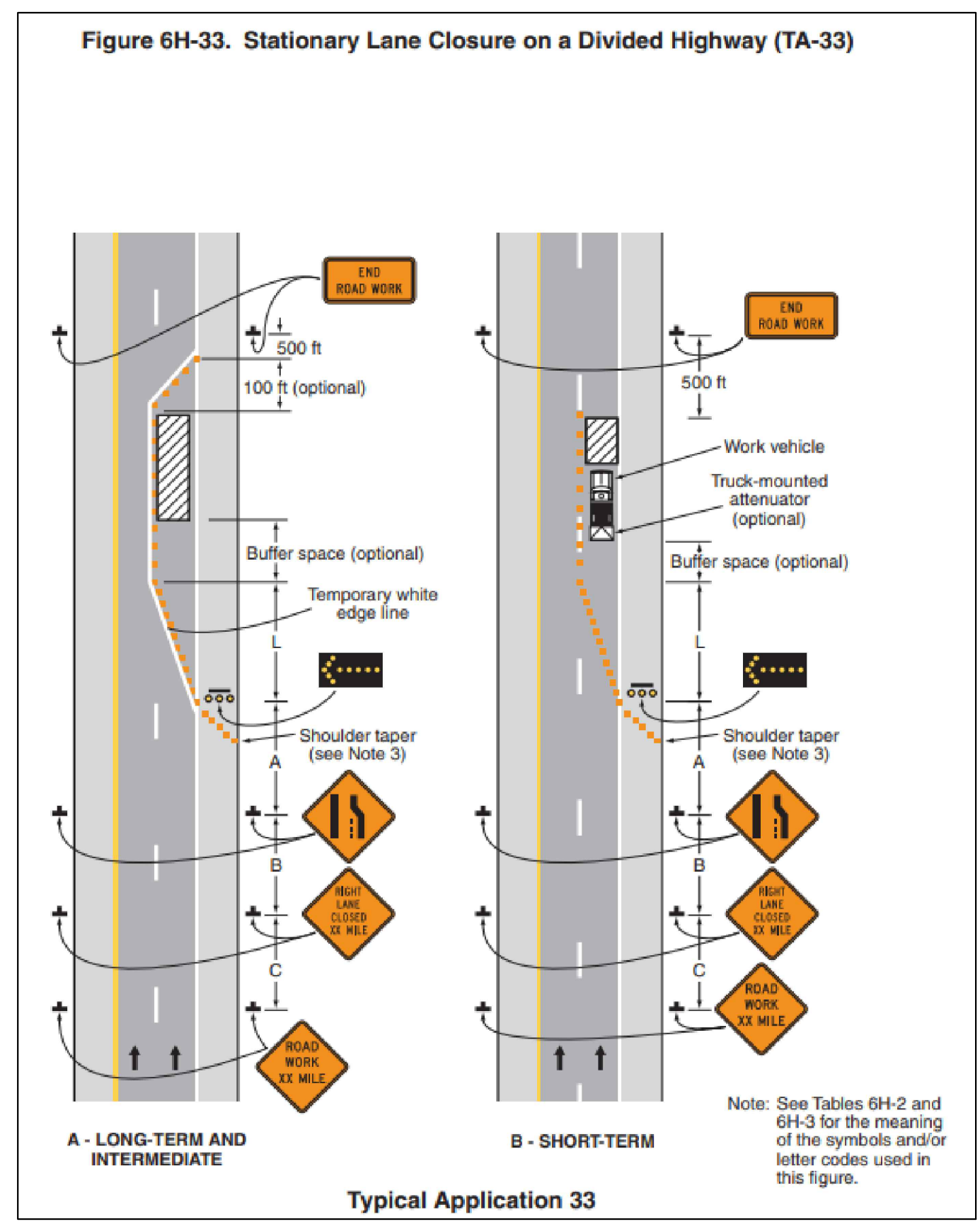
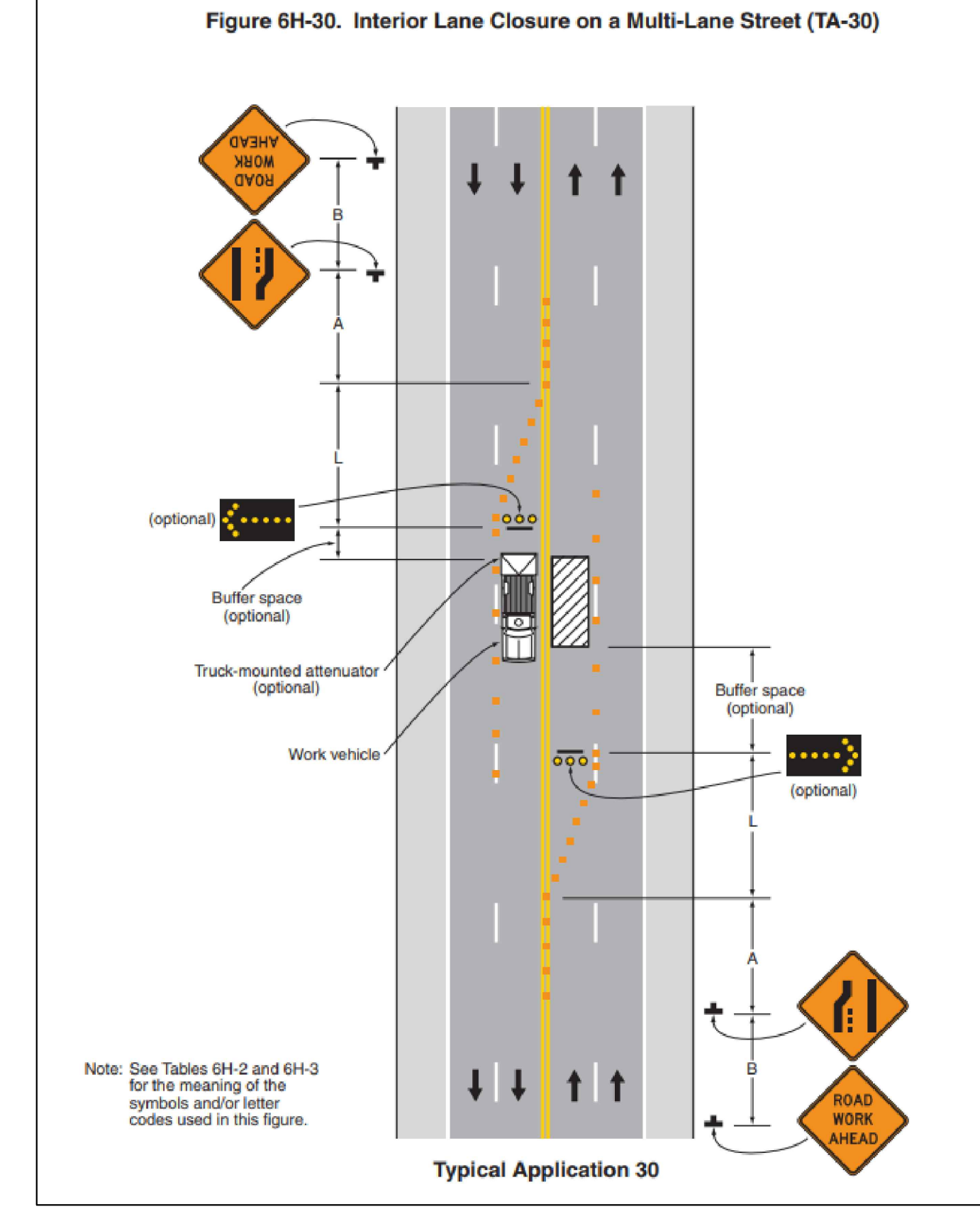
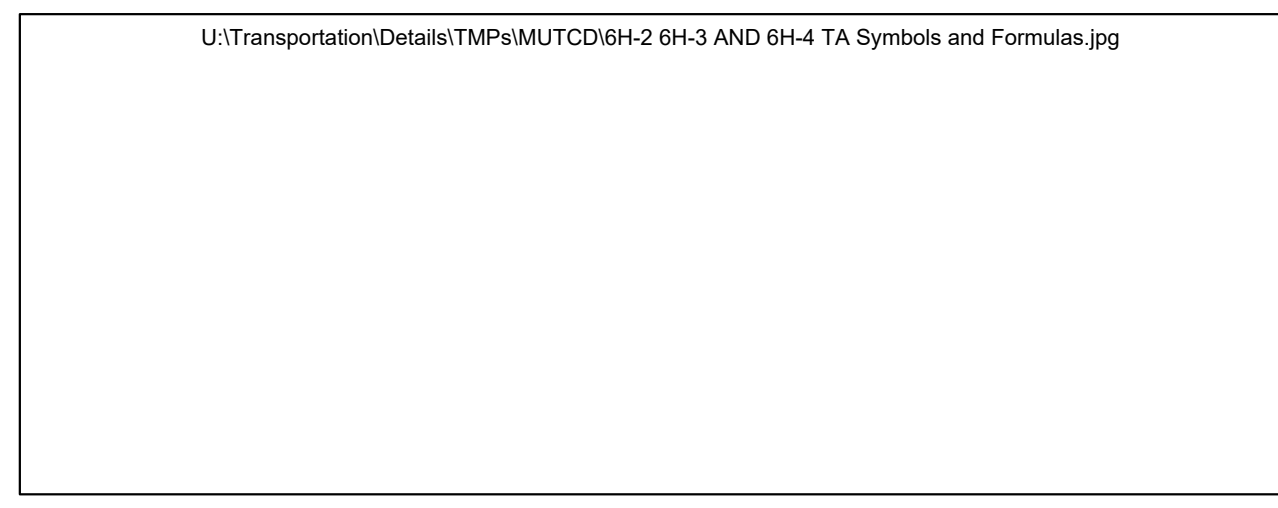
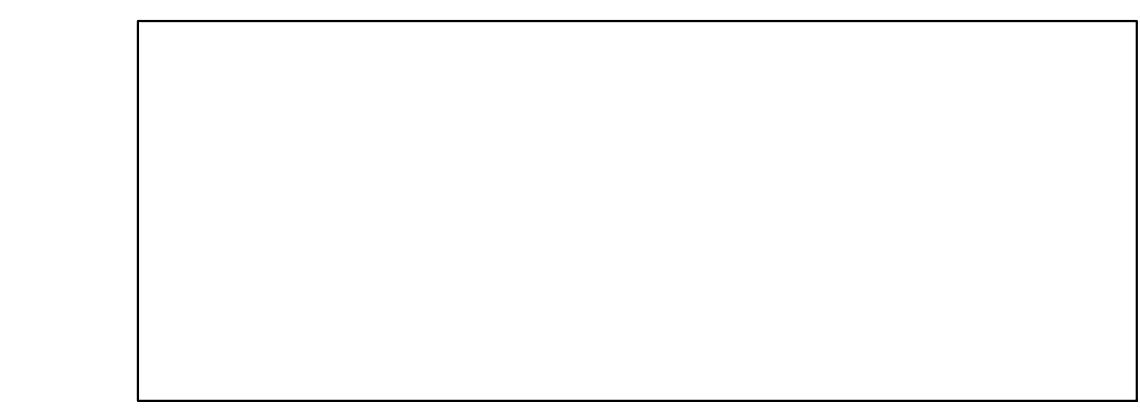
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SHEET NO. TMP-1

NOTES

- 1. ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL REGULATORY SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON A WHITE BACKGROUND. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

Table 6H-2. Meaning of Symbols on Typical Application Diagrams. Lists symbols for Arrow board, Shadow vehicle, Sign, Surveyor, Temporary barrier, etc.

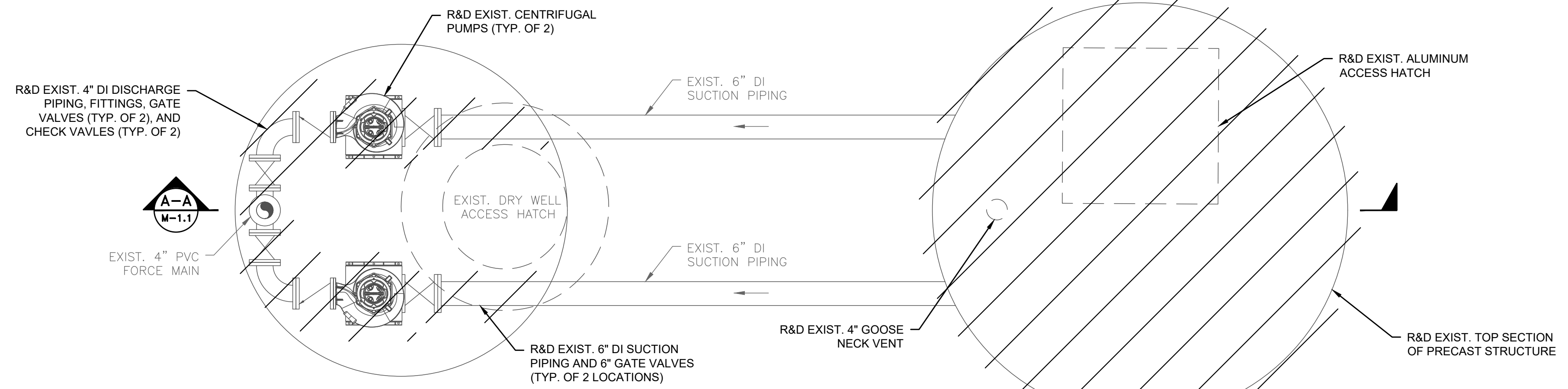


DEMOLITION NOTES:

- PLANS AND SECTION OF THE EXISTING PUMPING STATION ARE BASED ON FIELD OBSERVATIONS, AND VERIFIED WHERE POSSIBLE. DIMENSIONS OF THE STRUCTURE ARE APPROXIMATE, AND THE LOCATION OF MAJOR EQUIPMENT, MISCELLANEOUS EQUIPMENT, PIPING AND MATERIALS ARE NOT NECESSARILY SHOWN BUT ARE INCLUDED IN THE DEMOLITION. THE CONTRACTOR SHALL INSPECT THE EXISTING PUMPING STATION AND UNDERGROUND ELECTRICAL STRUCTURE DURING THE BIDDING PHASE OF THE PROJECT TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE DEMOLITION WORK. COORDINATE INSPECTION WITH THE CITY OF TAUNTON.
- DEMOLITION OF EXISTING PUMPING STATION AND ALL RELATED EQUIPMENT AND STRUCTURES SHALL BE DONE ACCORDING TO THE SEQUENCE OF OPERATIONS PLAN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
- CONTRACTOR TO CONDUCT SURVEY OF EXISTING CONDITIONS TO IDENTIFY ITEMS THAT MAY REQUIRE SPECIAL HANDLING AND DISPOSAL INCLUDING HAZARDOUS WASTE. CONTRACTOR TO ABATE THESE ITEMS PRIOR TO DEMOLITION ACTIVITIES.
- PLUG AND CAP ALL HOLES RESULTING FROM PIPE REMOVAL.
- REMOVE AND DISPOSE OF THE EXISTING DRY WELL STRUCTURE AND FILL THE CAVITY WITH FLOWABLE FILL TO THE LIMITS DEPICTED ON THE PROPOSED PLANS.
- MATERIALS TO BE REMOVED THAT ARE NOT DESIGNATED TO BE SALVAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED OFF SITE AND DISPOSED OF AT CONTRACTOR'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR THE LEGAL AND PROPER DISPOSAL OF ALL DEMOLITION MATERIAL ACCORDING TO ANY RELEVANT LAWS OF THE STATE OF MASSACHUSETTS.
- ALL SEWAGE AND SLUDGE THAT MIGHT BE PRESENT IN THE EXISTING PIPING AND PUMPING EQUIPMENT TO BE DEMOLISHED, SHALL BE CONSIDERED "SPECIAL WASTE" AND SHALL BE REMOVED AND DISPOSED OF ACCORDING TO ANY RELEVANT LAWS OF THE STATE OF MASSACHUSETTS. ALL DEMOLITION MATERIAL INCLUDING CONCRETE, PIPE, AND BRICK THAT WAS IN CONTACT WITH SEWAGE SHALL BE CLEANED IN ACCORDANCE WITH MASSDEP REQUIREMENTS AND DISPOSED OF ACCORDINGLY. ONCE CLEANED, DEMOLITION MATERIALS SHALL NOT BE CONSIDERED SPECIAL WASTE.
- SITE SHALL BE GRADED TO ELEVATIONS ON SITE PLAN.

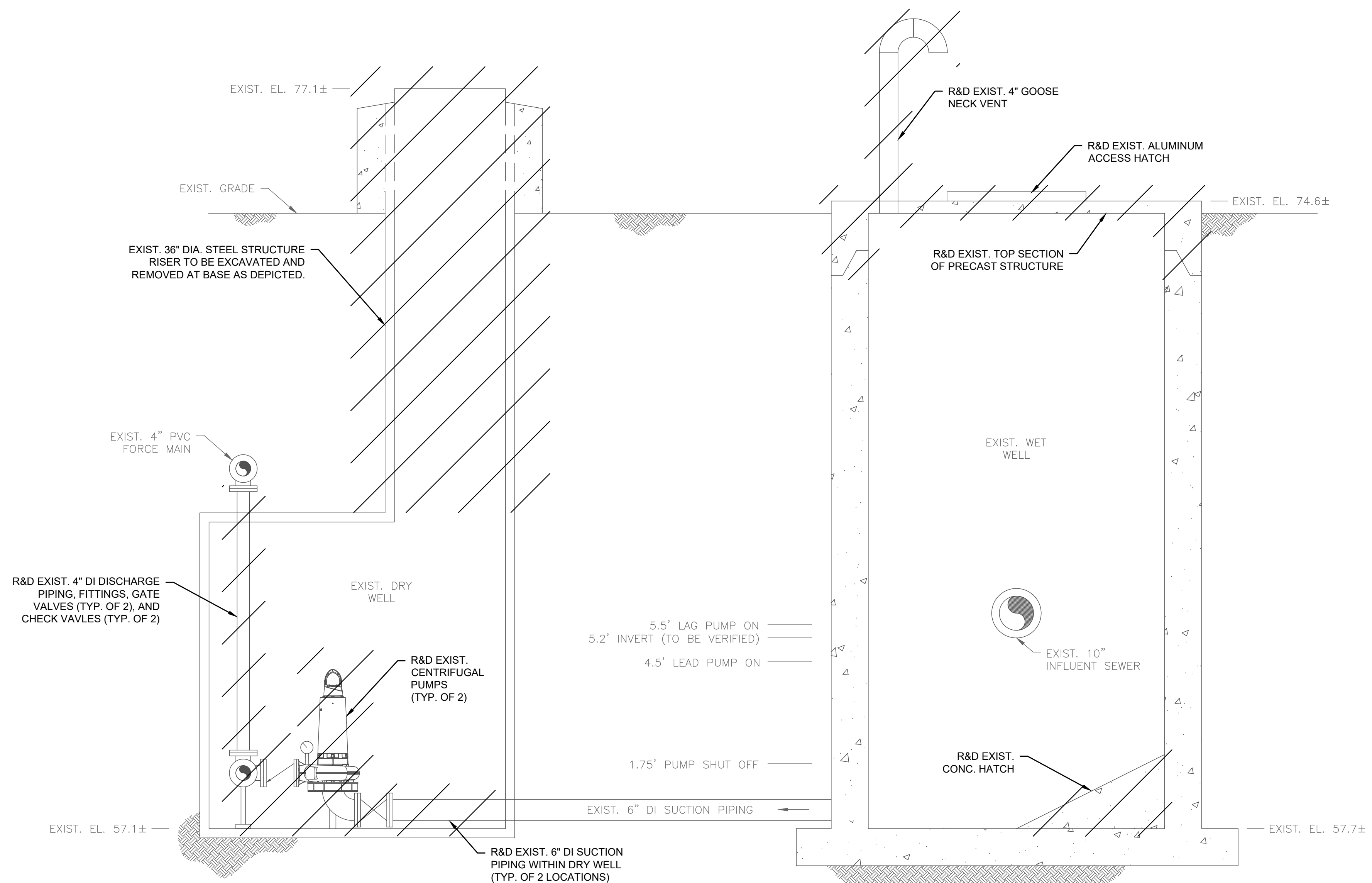
GENERAL NOTES:

- CONTRACTOR SHALL CONDUCT TEST PITS AS SHOWN WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, TO FIELD VERIFY THE EXACT SIZE, MATERIAL, LOCATION, INVERT ELEVATION AND ALIGNMENT (VERTICAL AND HORIZONTAL) OF EXISTING UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL MAKE TEST PITS AS REQUIRED IN ORDER TO ASCERTAIN THE EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES.
- FIRM FLOOD INSURANCE RATE MAP NUMBER 2500SC0134F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



DRY WELL AND WET WELL DEMOLITION PLAN

SCALE: 1/2" = 1'-0"



DEMOLITION SECTION A-A

SCALE: 1/2" = 1'-0"

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REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: 10685

SCALE

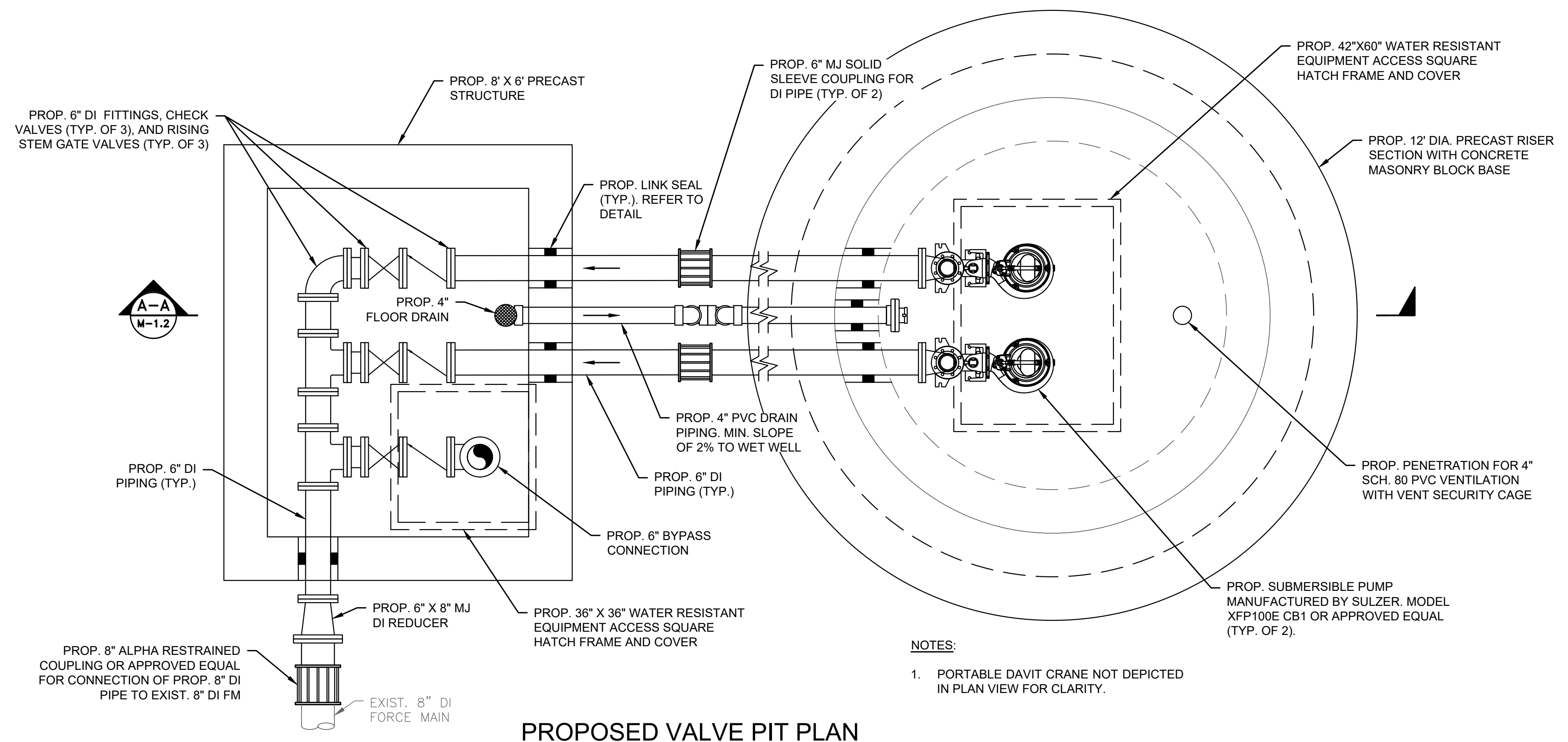
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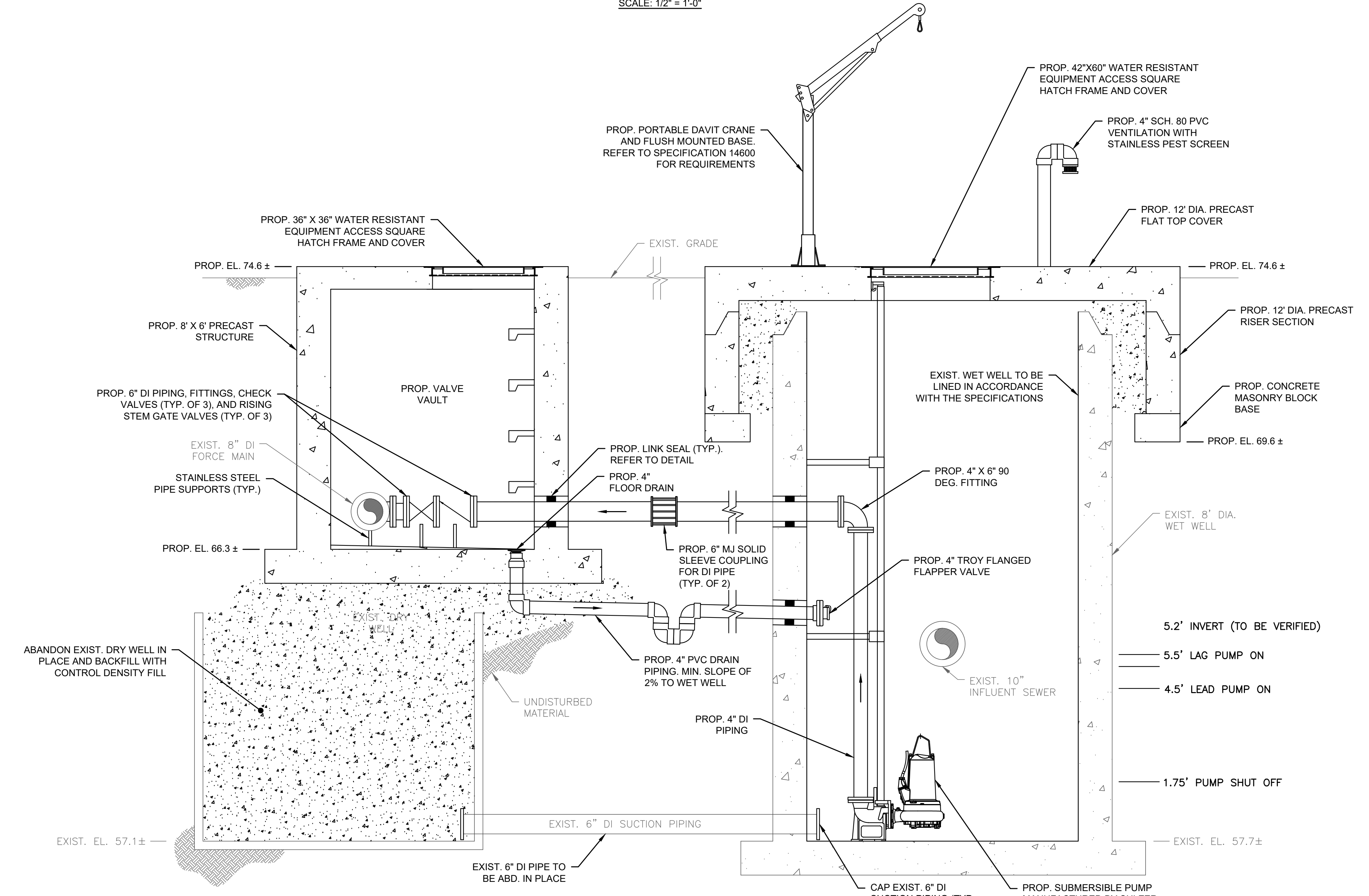
SHEET NO.

M-1.1



PROPOSED VALVE PIT PLAN
SCALE: 1/2" = 1'-0"

- NOTES:**
1. PORTABLE DAVIT CRANE NOT DEPICTED IN PLAN VIEW FOR CLARITY.



PROPOSED SECTION A-A
SCALE: 1/2" = 1'-0"

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J. Federico, Jr.

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PROJECT

2023 Pump Station Improvements

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TITLE

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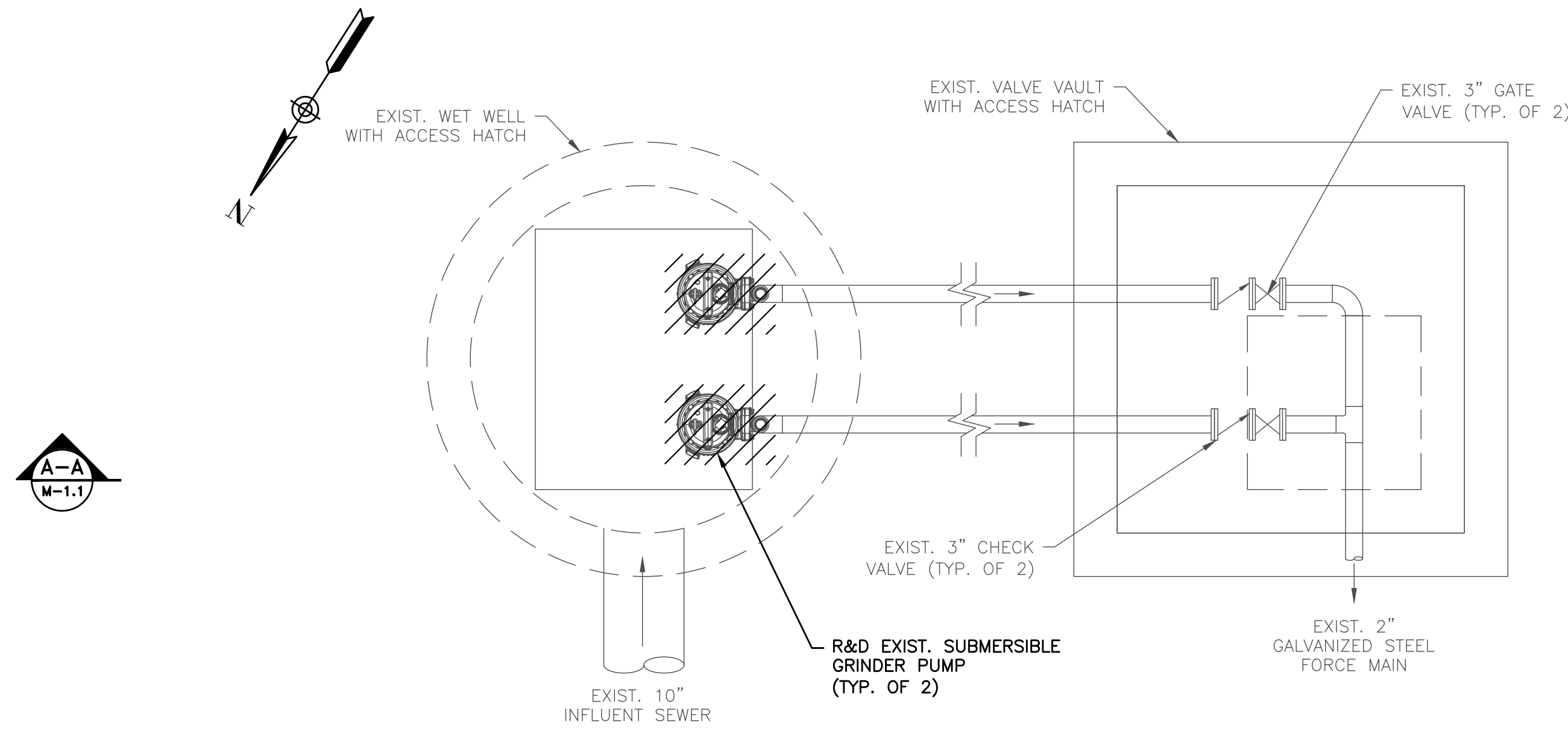
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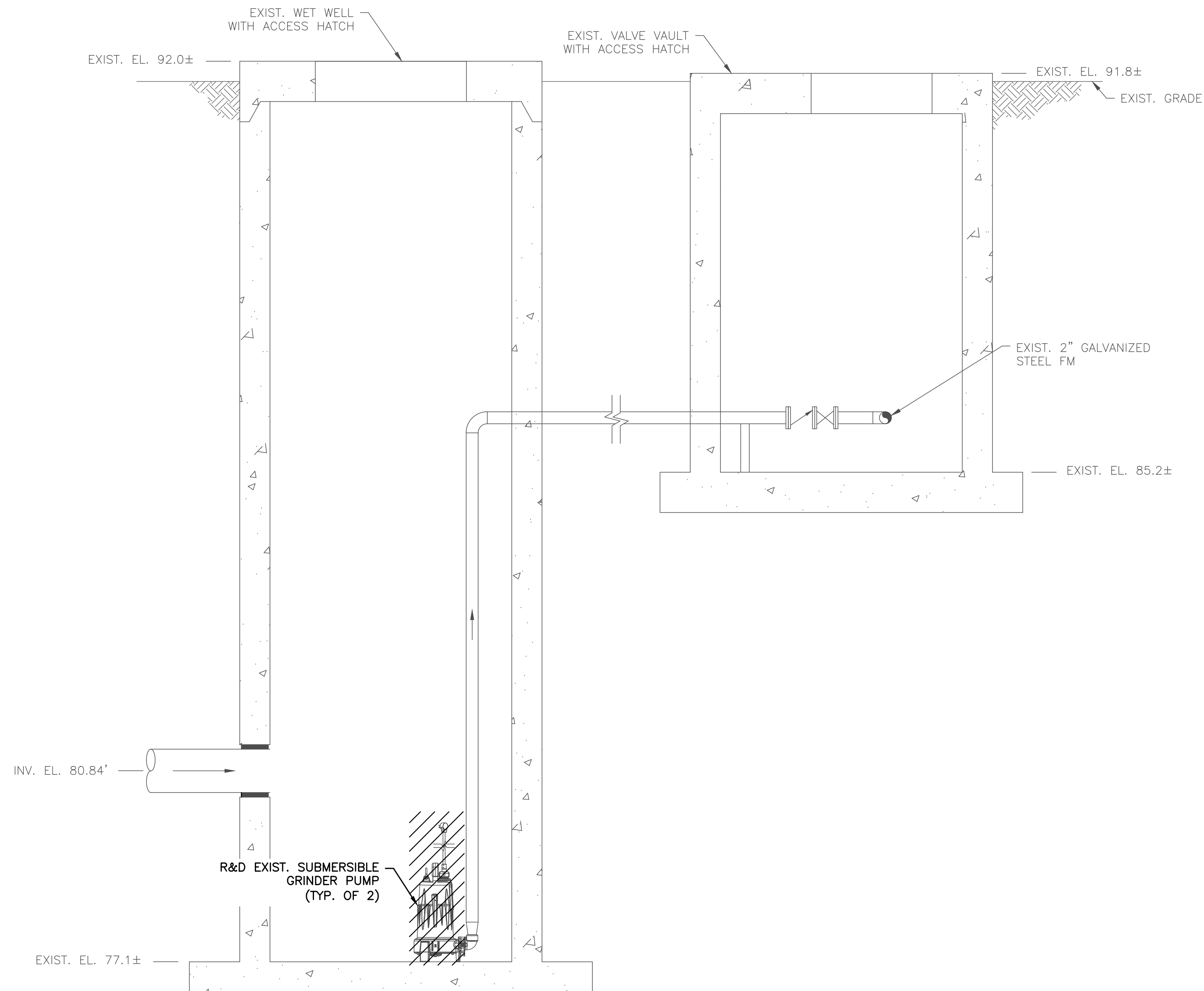
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SHEET NO. M-1.2



**EXISTING PARTRIDGE CIRCLE
PUMP STATION PLAN**

SCALE: 3/4" = 1'-0"



**EXISTING PARTRIDGE CIRCLE
PUMP STATION SECTION**

SCALE: 3/4" = 1'-0"

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**2023 Pump Station
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Taunton, MA

TITLE

**PARTRIDGE CIRCLE
PUMP STATION**

Existing Conditions

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DRAWN BY: PN

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SCALE

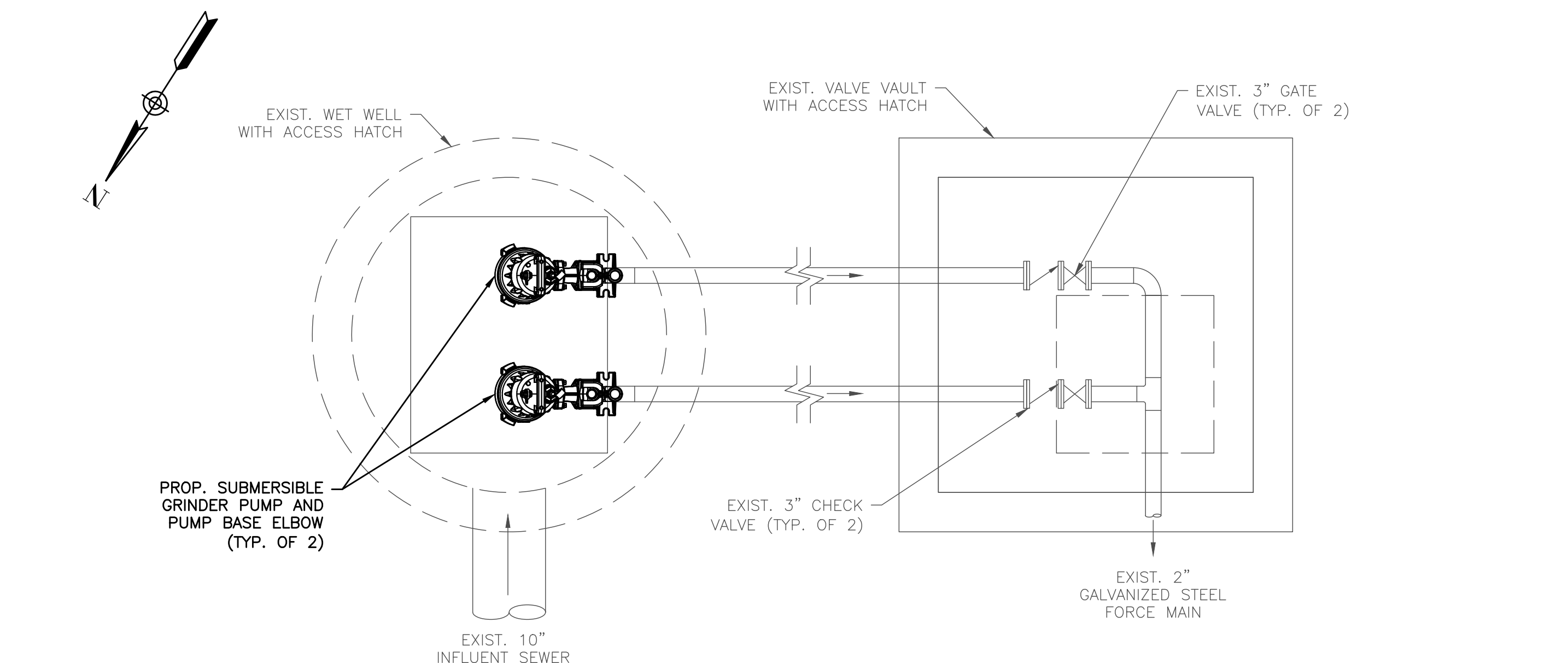
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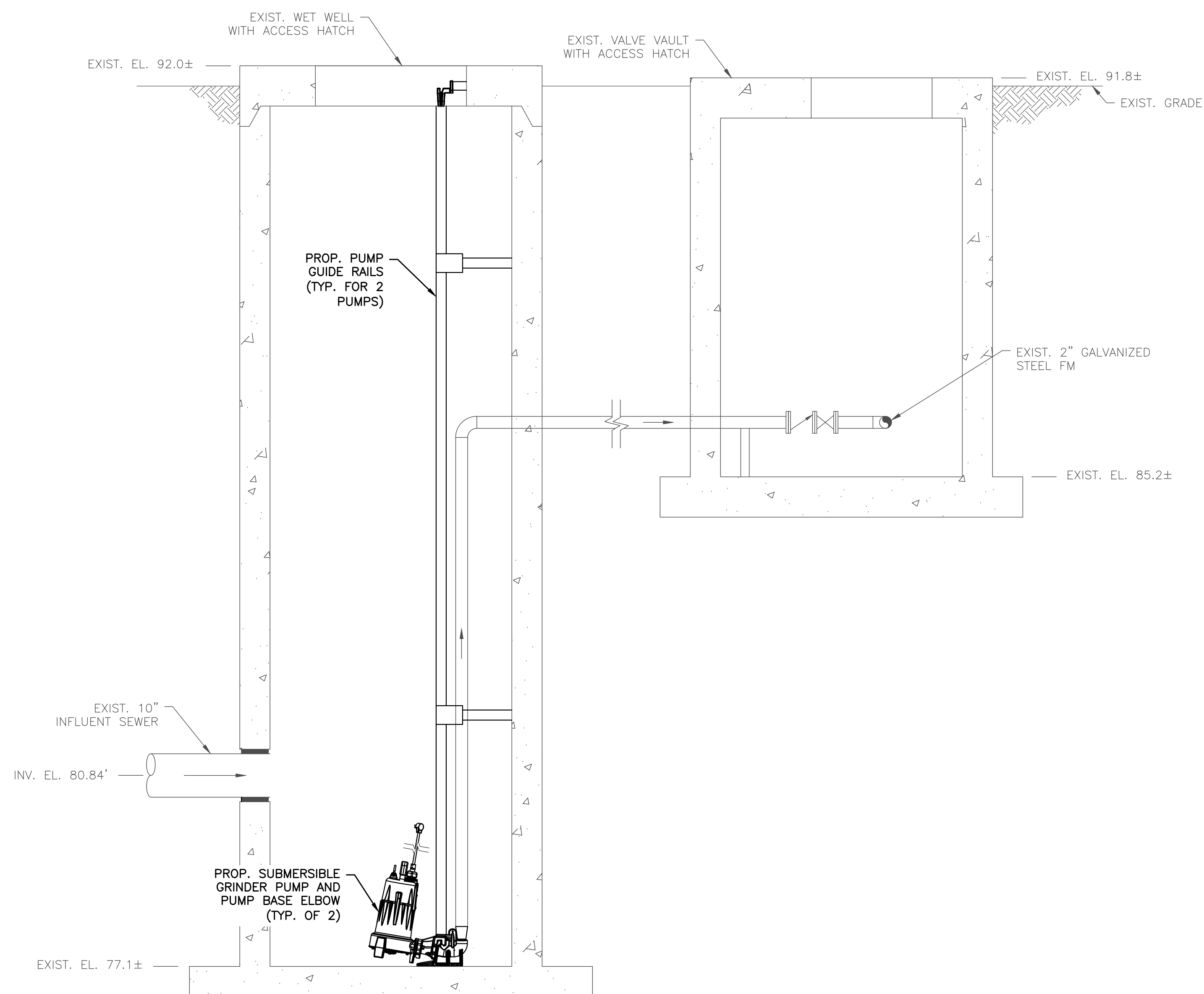
SHEET NO.

M-2.1



**PROPOSED PARTRIDGE
CIRCLE PUMP STATION PLAN**

SCALE: 3/4" = 1'-0"



**PROPOSED PARTRIDGE CIRCLE
PUMP STATION SECTION**

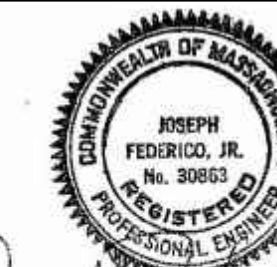
SCALE: 3/4" = 1'-0"

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**2023 Pump Station
Improvements**

Taunton, MA

TITLE

**PARTRIDGE CIRCLE
PUMP STATION**

Proposed
Improvements

NO.	REVISIONS	DATE

DRAWN BY: PN

DESIGNED BY: AG

CHECKED BY: CC

ISSUE DATE: 4/7/2023

BETA JOB NO.: 10685

SCALE

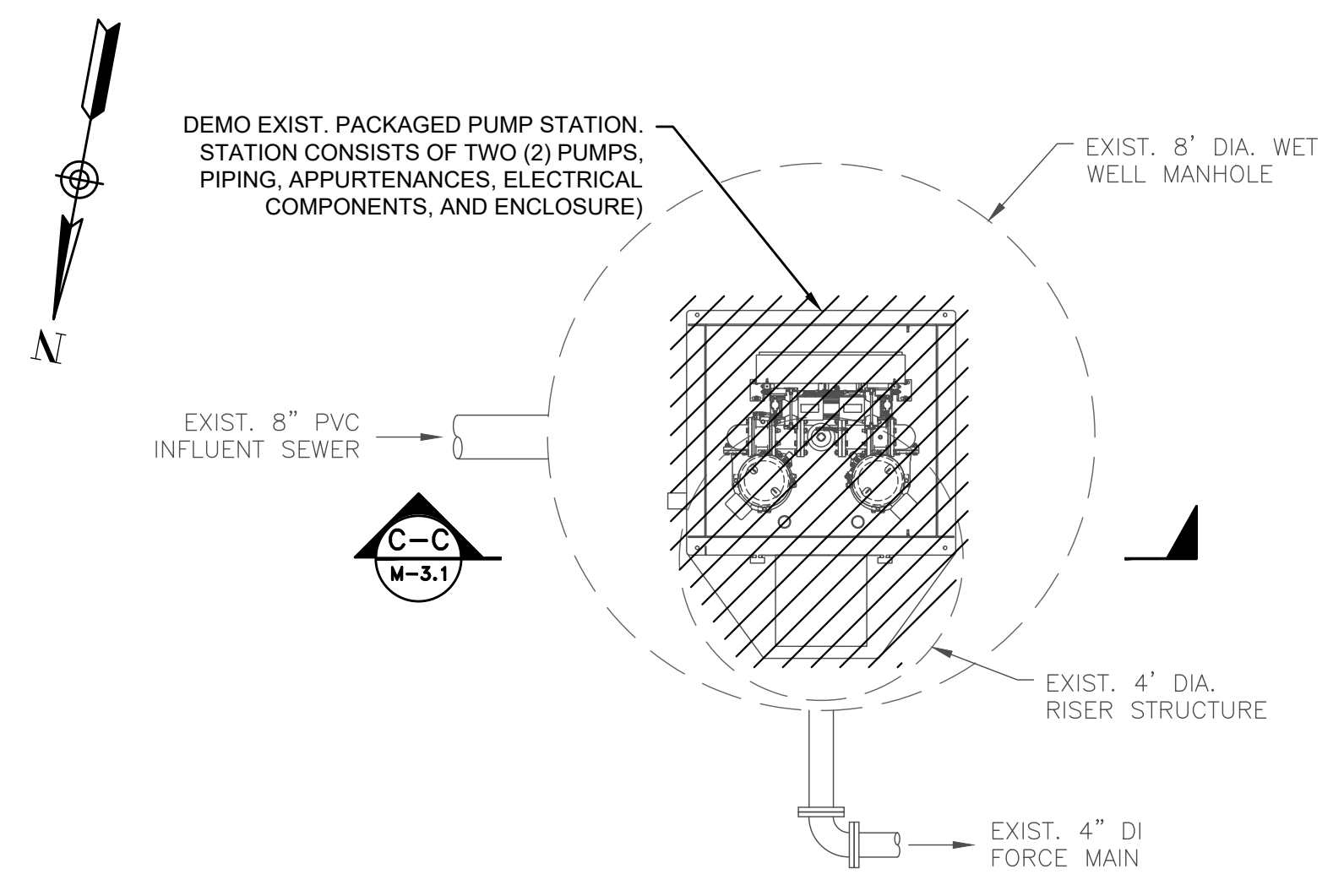
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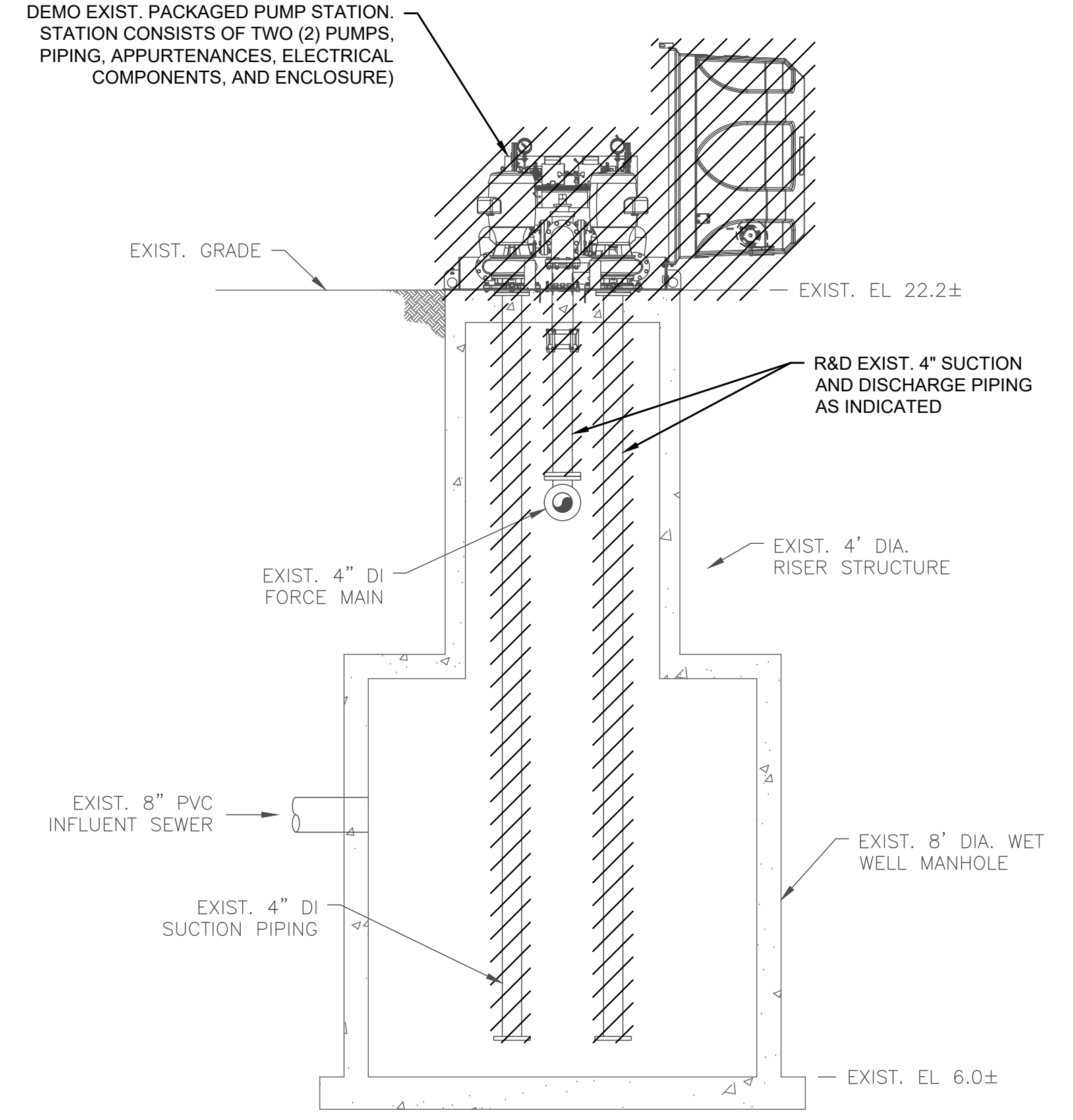
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SHEET NO.

M-2.2




**WELLESLEY CIRCLE PUMP STATION
DEMOLITION PLAN**
SCALE: 3/8" = 1"



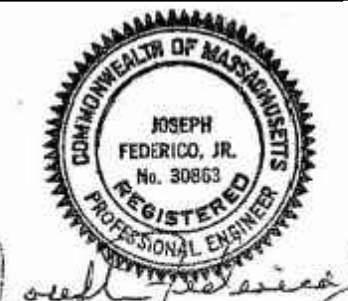
**WELLESLEY CIRCLE PUMP STATION
DEMOLITION SECTION C-C**
SCALE: 3/8" = 1"

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**2023 Pump Station
Improvements**

Taunton, MA

TITLE

**WELLESLEY CIRCLE
PUMP STATION**

Existing Conditions

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2023 Pump Station Improvements

Taunton, MA

TITLE

WELLESLEY CIRCLE PUMP STATION

Proposed Improvements

NO. REVISIONS DATE

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ISSUE DATE: 4/7/2023
BETA JOB NO.: ###

SCALE

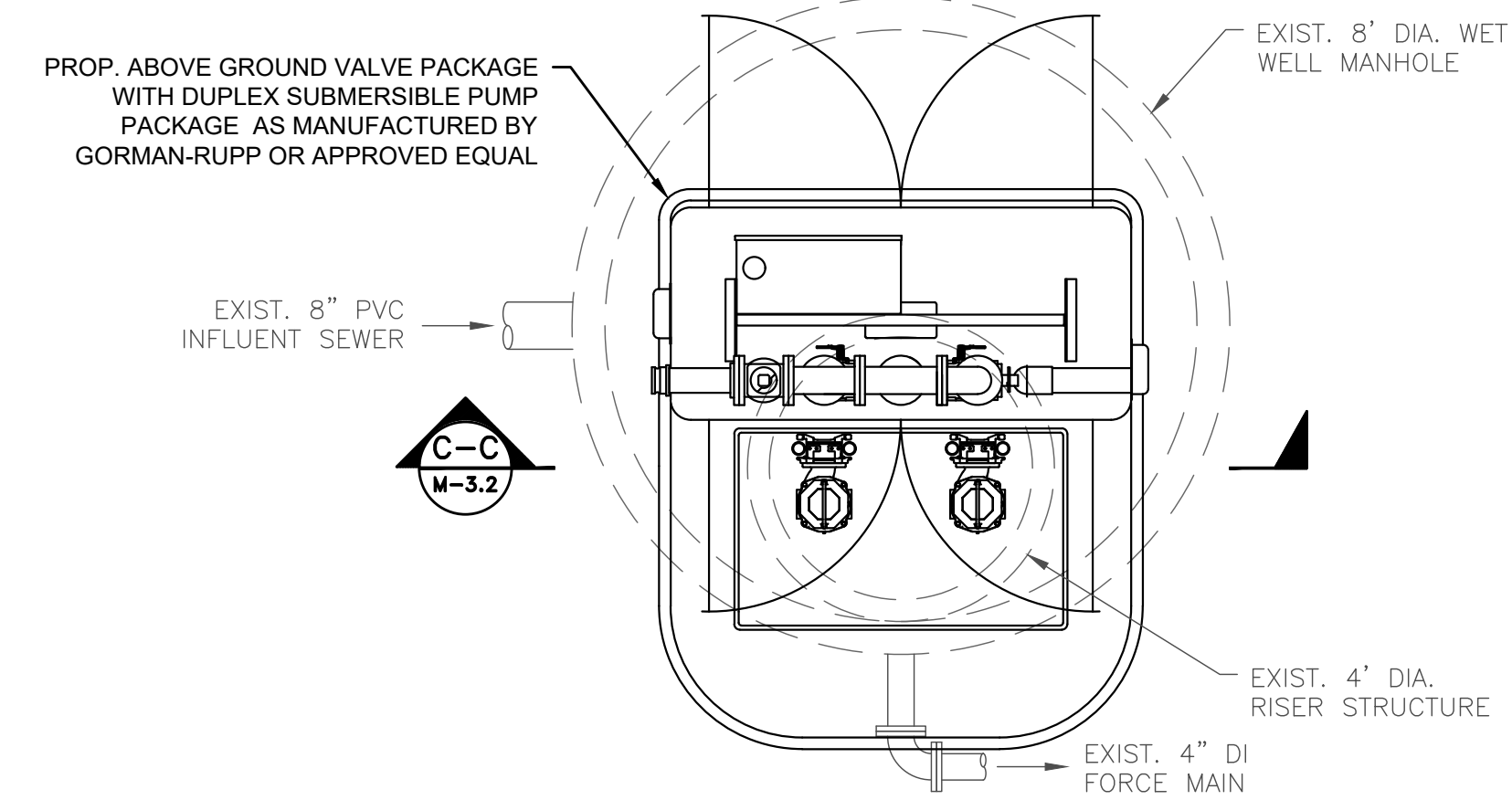
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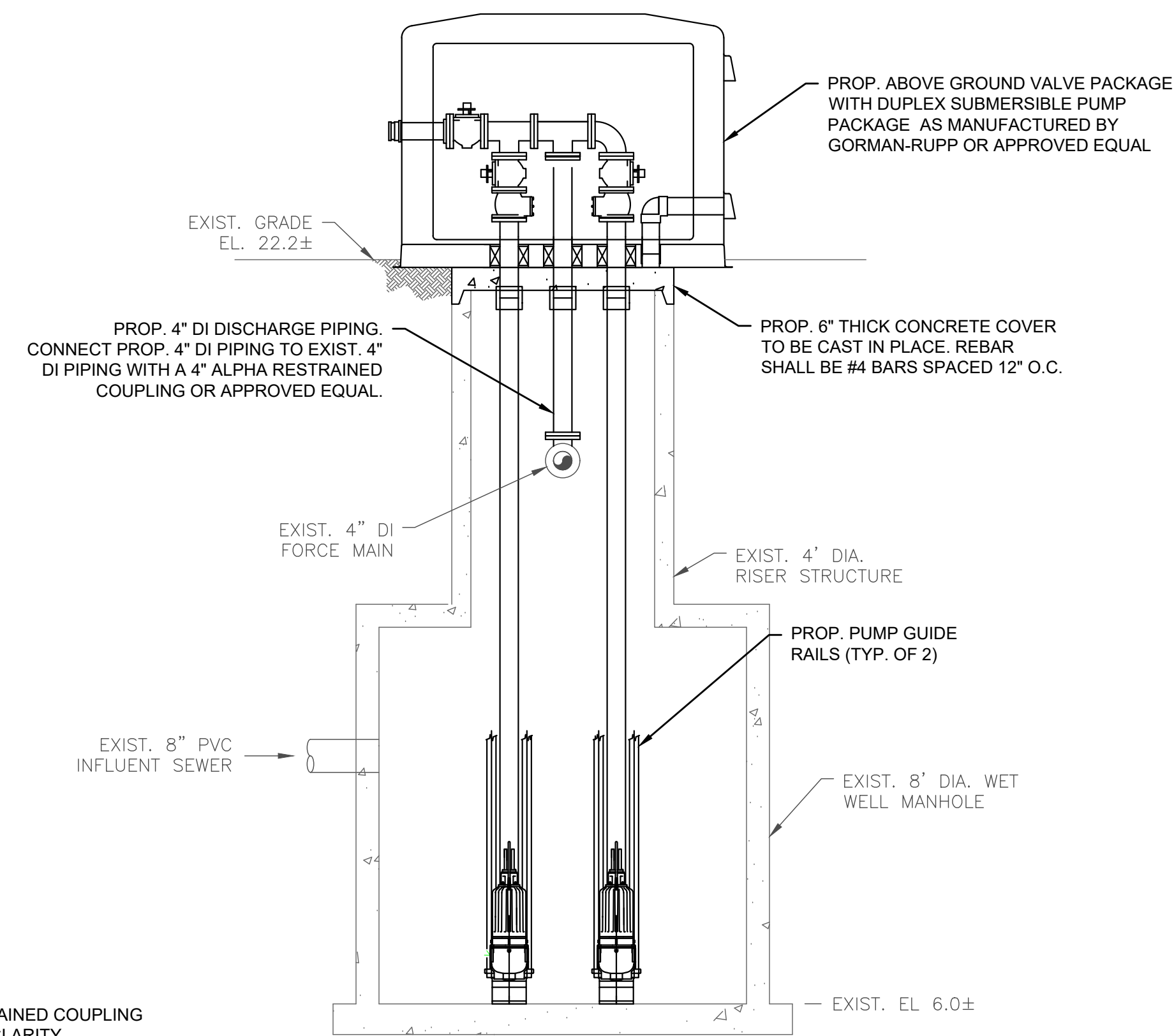
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SHEET NO.

M-3.2

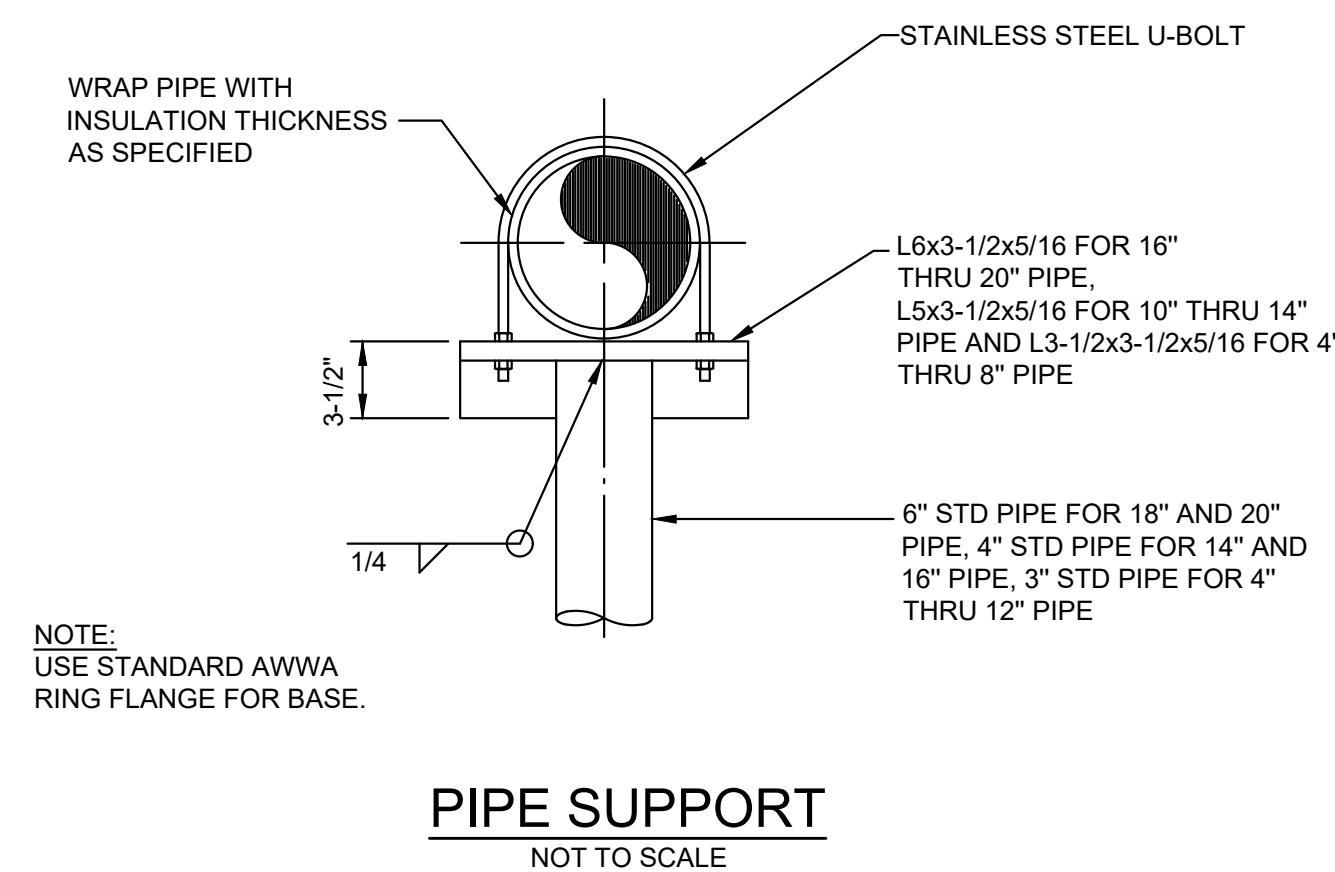
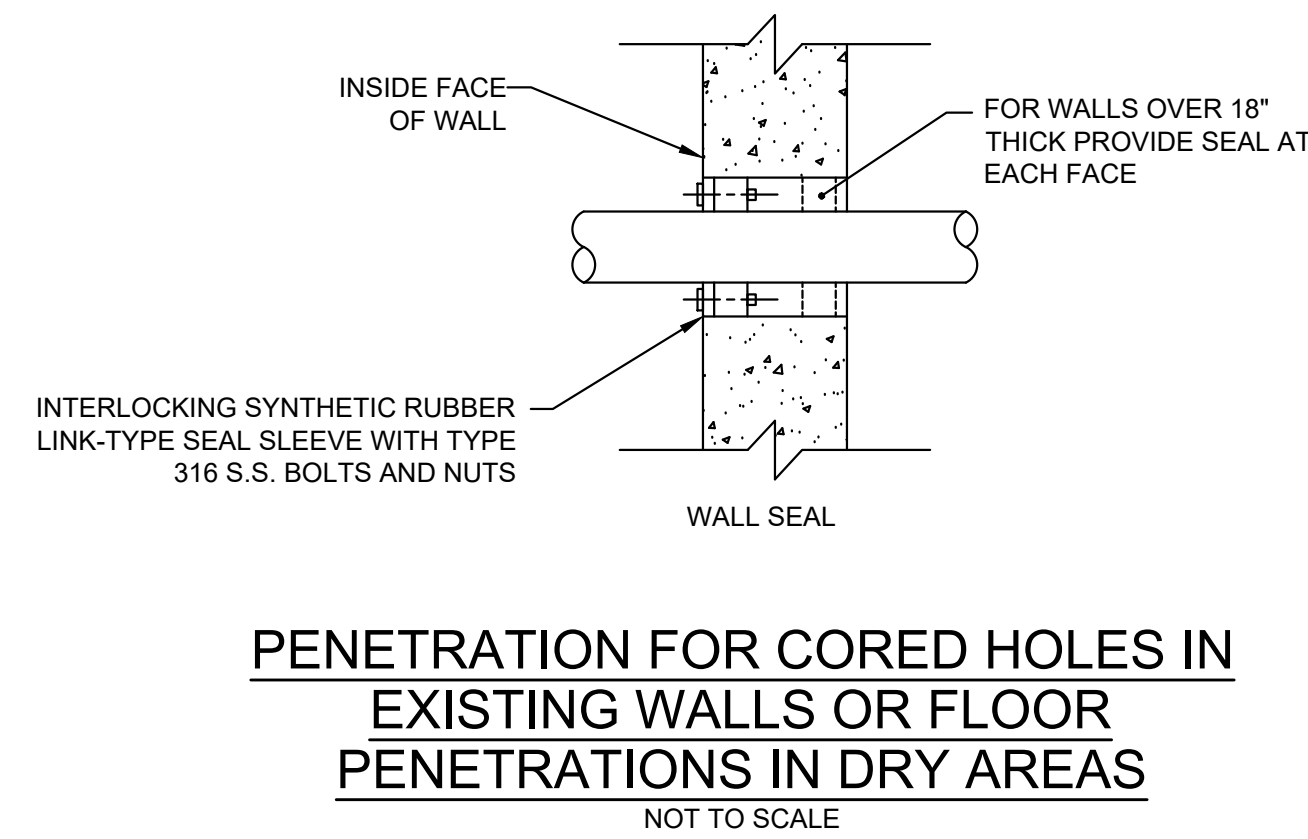
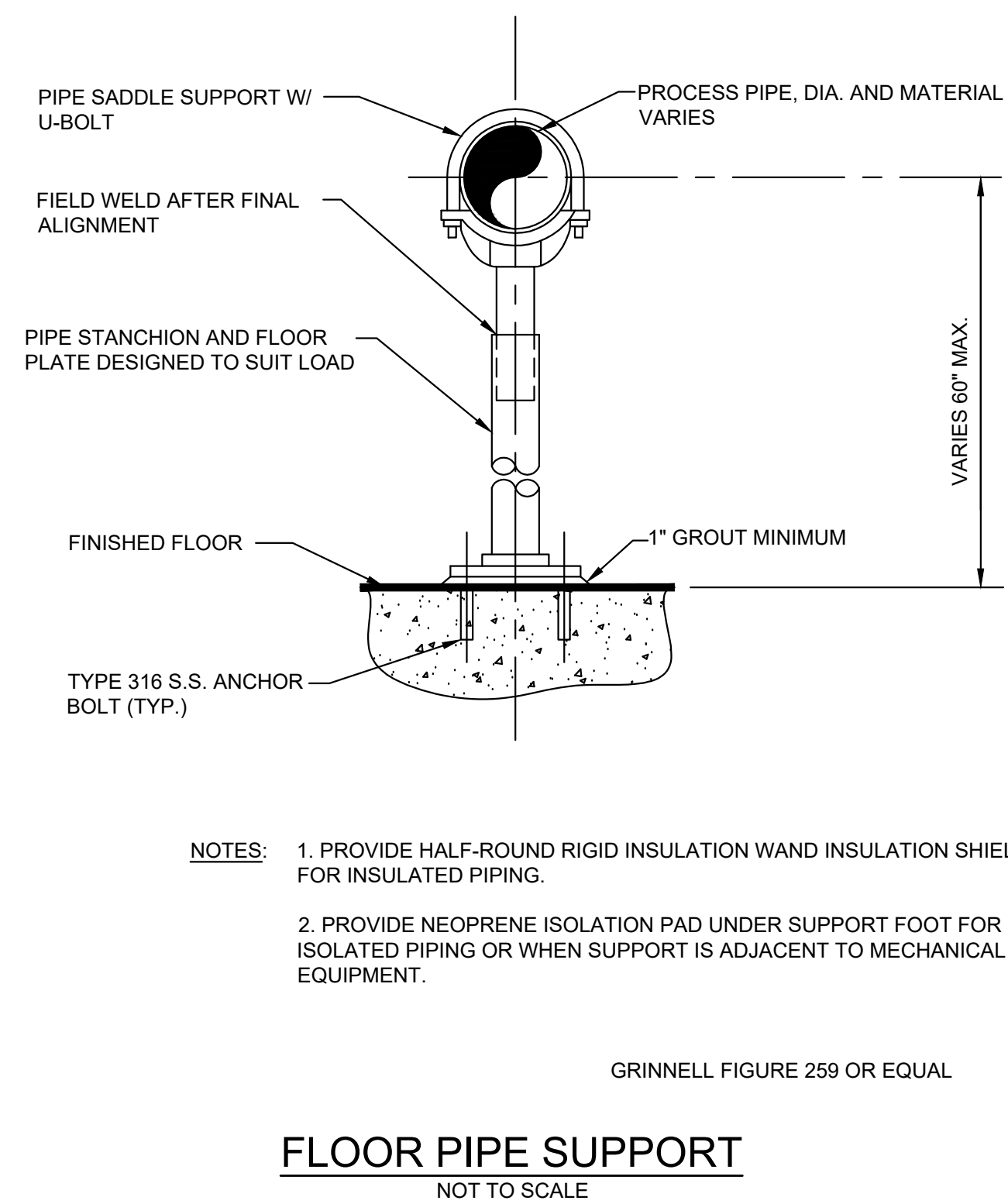
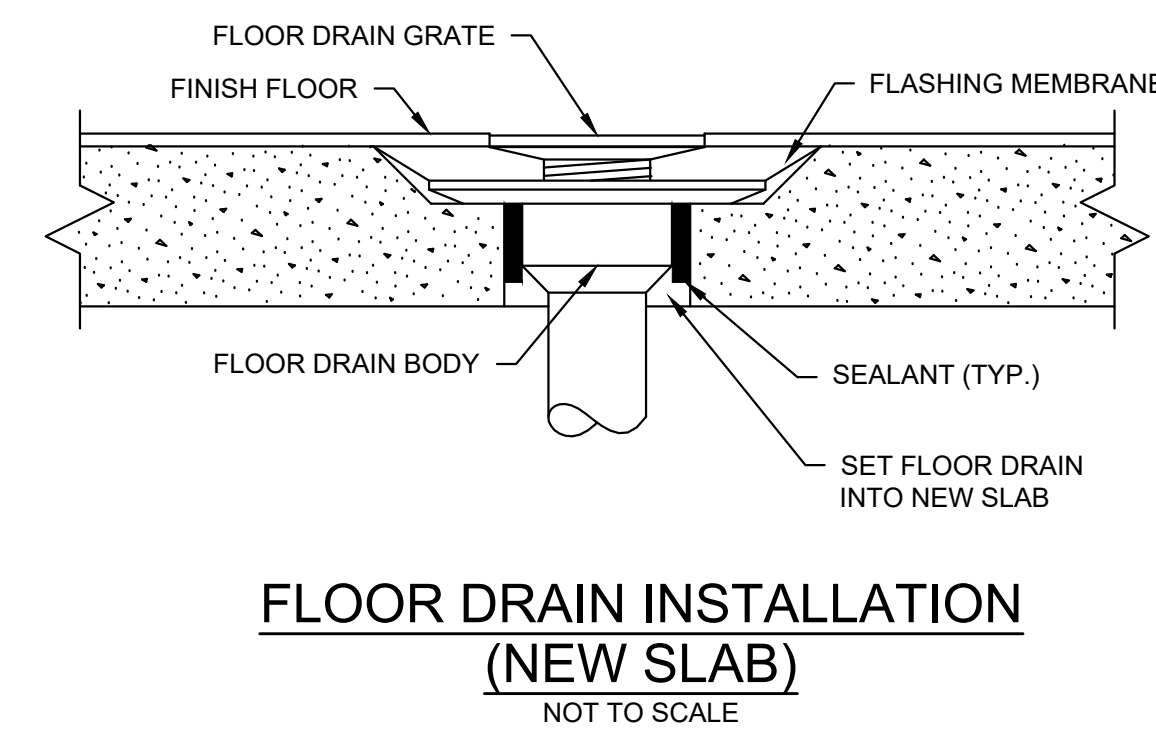
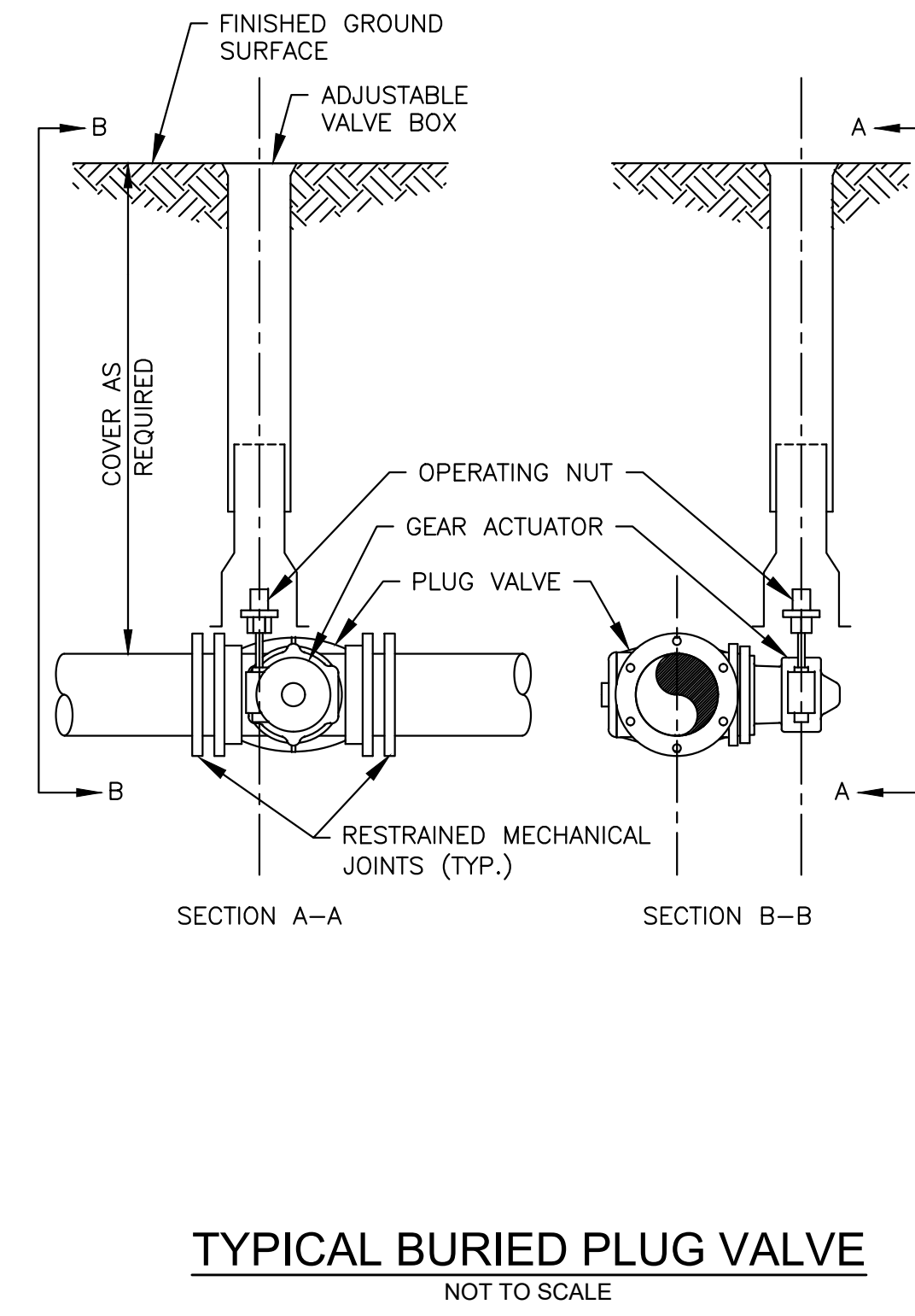
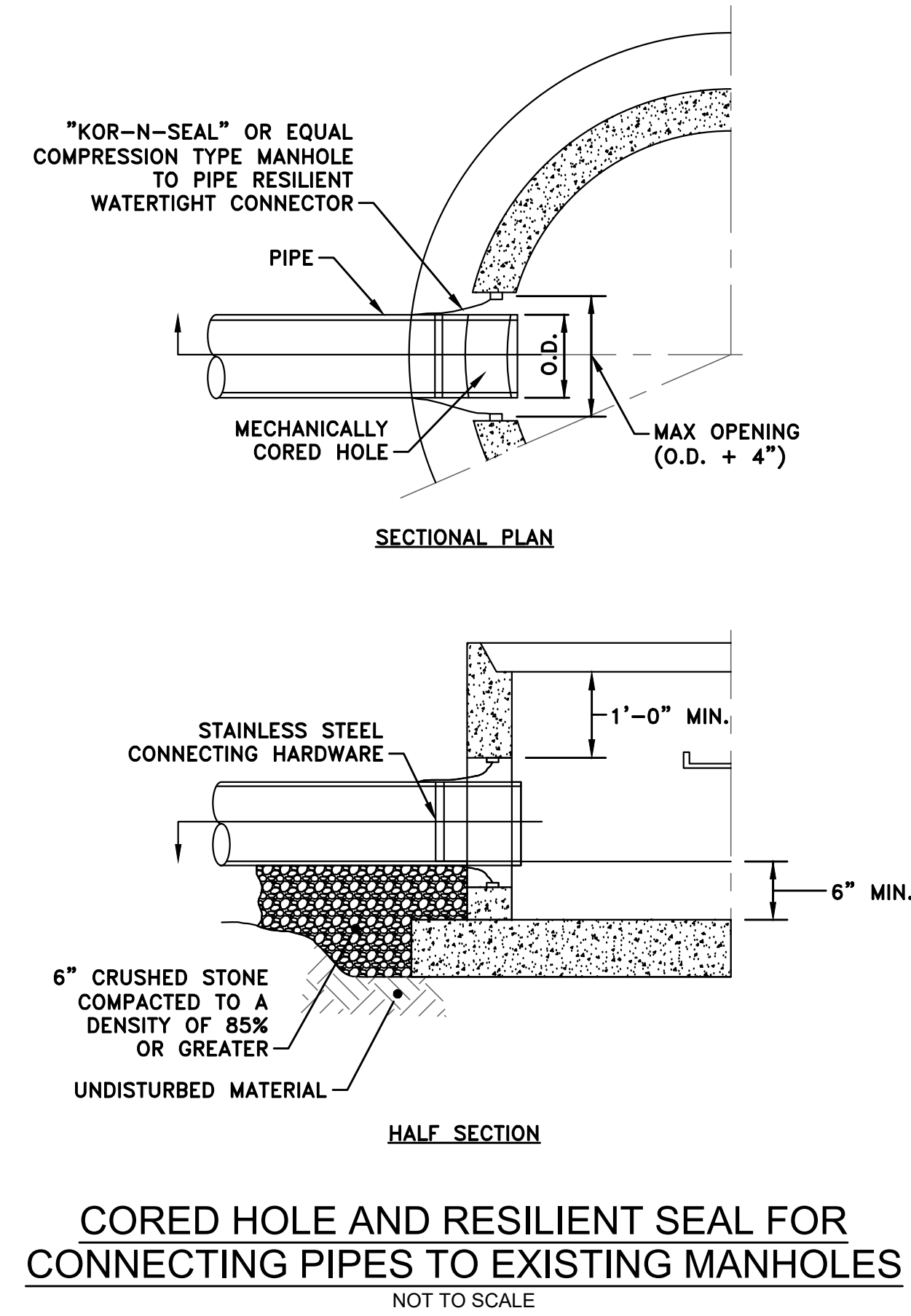


WELLESLEY CIRCLE PUMP STATION
DEMOLITION PLAN
SCALE: 3/8" = 1"



WELLESLEY CIRCLE PUMP STATION
DEMOLITION SECTION C-C
SCALE: 3/8" = 1"

- NOTE:
1. PROPOSED 4" RESTRAINED COUPLING NOT DEPICTED FOR CLARITY



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2023 Pump Station Improvements

Taunton, MA

TITLE

MECHANICAL DETAILS I

1	ADDENDUM #1	6/17/22
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NO.	REVISIONS	DATE
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DRAWN BY: PN

DESIGNED BY: CC

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BETA JOB NO.:

SCALE

NONE

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MD-1

ELECTRICAL SYMBOLS

	LINEAR LIGHTING FIXTURES "F1" INDICATES FIXTURE TYPE - TYPICAL FOR ALL FIXTURES "1" INDICATES CIRCUIT NUMBER - TYPICAL FOR ALL FIXTURE "0" INDICATES THE SWITCH CONTROL - TYPICAL FOR ALL FIXTURES
	WALL MOUNTED LIGHTING FIXTURE.
	POLE MOUNTED SITE LIGHT FIXTURE
	SURFACE OR PENDANT MOUNTED FIXTURE.
	EMERGENCY EXIT SIGN
	EMERGENCY LIGHTING BATTERY UNIT WITH TWO LIGHT HEADS
	REMOTE EMERGENCY LIGHTING UNIT WITH TWO LIGHTING HEADS PROVIDE 3/4", 2#10, 1#10GND TO NEAREST THE EMERGENCY LIGHTING BATTERY UNIT
	SINGLE POLE SWITCH 120V, 20A "0" INDICATES THE SWITCH CONTROL
	2-POLE SWITCH 120V, 20A 1 POLE FOR ROOM LIGHT FIXTURES, 1-POLE FOR EXHAUST FAN CONTROL
	3-WAY SWITCH 120V, 20A "0" INDICATES THE SWITCH CONTROL
	4-WAY SWITCH 120V, 20A "0" INDICATES THE SWITCH CONTROL
	DIGITAL TIME CLOCK SWITCH
	MECHANICAL TIMER SWITCH
	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR/SWITCH
	LOW VOLTAGE SWITCH
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
	DUPLEX RECEPTACLE, WEATHER-RESISTANT 120V, 20A WITH WEATHERPROOF COVER, "GFI" INDICATES GROUND FAULT TYPE "1" INDICATES CIRCUIT NUMBER - TYPICAL FOR ALL RECEPTACLES
	DUPLEX RECEPTACLE 120V, 20A
	(2) DUPLEX (QUAD) RECEPTACLES, 120V, 20A "WP" INDICATES WITH WEATHERPROOF COVER
	SIMPLEX RECEPTACLE, WP INDICATES WEATHER RESISTANT 120V, 20A "WP" INDICATES WITH WEATHERPROOF COVER
	UNFUSED DISCONNECT SWITCH, "30" INDICATES 30 AMP RATING, PROVIDE 3-POLE UNLESS OTHERWISE INDICATED.
	FUSED DISCONNECT SWITCH, "20" INDICATES 20 AMP FUSE RATING, PROVIDE 3-POLE UNLESS OTHERWISE INDICATED.
	3-PHASE RECEPTACLE
	WALL MOUNTED COMBINATION MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR, "FVNR" INDICATES TYPE OF MOTOR STARTER, "SX INDICATES THE MOTOR STARTER NEMA SIZE"
	MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR, "FVNR" INDICATES TYPE OF MOTOR STARTER, "SX INDICATES THE MOTOR STARER NEMA SIZE"
	ENCLOSED VARIABLE FREQUENCY DRIVE
	MANUAL MOTOR STARTER 120V, 20A
	JUNCTION BOX OR PULL BOX
	ELECTRIC HAND HOLE
	ALARM RELAY, "AR1" REFERS TO RELAY NAME DESIGNATION
	CONTROL RELAY, "CR1" REFERS TO RELAY NAME DESIGNATION
	MOTOR START RELAY
	TIMING RELAY, "TR1" REFERS TO RELAY NAME DESIGNATION
	NORMALLY OPEN RELAY CONTACT
	NORMALLY CLOSED RELAY CONTACT
	OPERATOR PUSH BUTTON NORMALLY OPEN CONTACT
	OPERATOR PUSH BUTTON NORMALLY CLOSED CONTACT
	PRESSURE SWITCH - CLOSSES ON HIGH PRESSURE
	PRESSURE SWITCH - CLOSSES ON LOW PRESSURE

ELECTRICAL SYMBOLS

	UNDERGROUND CONDUIT DUCT BANK
	HOMERUN DESIGNATION TO PANEL PP1 CIRCUIT #1, WITH THE FOLOWING CONDUIT/WIRES UNLESS OTHERWISE NOTED: • 3/4"C WITH 2#12, 1#12GND FOR 20AMP SINGLE PHASE CIRCUITS. • 3/4"C WITH 3#12, 1#12GND FOR 20AMP THREE PHASE CIRCUITS. • 3/4"C WITH 2#10, 1#10GND FOR 30AMP SINGLE PHASE CIRCUITS. • 3/4"C WITH 3#10, 1#10GND FOR 30AMP THREE PHASE CIRCUITS. • 3/4"C WITH 2#8, 1#10GND FOR 40AMP & 50AMP SINGLE PHASE CIRCUITS. • 3/4"C WITH 3#8, 1#10GND FOR 40AMP & 50AMP THREE PHASE CIRCUITS.
	EYS TYPE CONDUIT SEAL, "EX" REPRESENTS PROVIDING UL LISTED EXPLOSION PROOF SEALANT IN CONDUIT SEAL, "NEX" REPRESENTS PROVIDE ELECTRICAL SEALANT PUTTY IN CONDUIT SEAL.
	SURGE PROTECTION DEVICE
	GROUND FAULT MONITOR AND INDICATION LIGHT
	UTILITY POLE
	MOLDED CASE CIRCUIT BREAKER, 3-POLE UNLESS OTHERWISE INDICATED, "20" INDICATES TRIP AMPERE RATING, "100" INDICATES FRAME SIZE, "LSIG" LONG, SHORT, INSTANTANEOUS AND GROUND FAULT PROTECTION RESPECTIVELY
	DRY TYPE TRANSFORMER
	3/4" x 10'-0" COPPER CLAD GROUND ROD
	BUILDING GROUNDING SYSTEM
	MOTOR, "10" INDICATES HORSEPOWER RATING
	CABLE/CONDUIT DESIGNATION, "XX" REFERS CABLE CONDUIT REFERENCE, REFER TO CABLE/CONDUIT SCHEDULES. "T" REFERS TO TEMPORARY WIRING
	UNLESS OTHERWISE NOTED INSTRUMENTATION OR PROCESS EQUIPMENT (SUPPLIED BY OTHER DIVISIONS) "XX-XXXX" REFERS TO TAGNAME ID
	INTRINSICALLY SAFE BARRIER PANEL (SUPPLIED BY DIV. 13)
	GENERATOR EMERGENCY STOP
	GAS DETECTION SYSTEM - AMBER ALARM BEACON (SUPPLIED BY DIV. 17)
	GAS DETECTION SYSTEM - ALARM HORN (SUPPLIED BY DIV.17)
	OCCUPIED/UNOCCUPIED SELECTOR SWITCH. (SUPPLIED BY DIV. 16)
	THERMOSTAT (SUPPLIED BY DIV. 15)
	MOTOR OPERATED DAMPER (SUPPLIED BY DIV. 15)
	ELECTRIC UNIT HEATER, "X" INDICATES UNIT ELECTRIC COIL RATING (SUPPLIED BY DIV. 15)
	EQUIPMENT CIRCUIT NUMBER DESIGNATION TO PANEL PP1-LP CIRCUIT #21.

GENERAL NOTES

- PROVIDE CONCRETE HOUSEKEEPING PADS ON ALL FLOOR OR GRADE MOUNTED ELECTRICAL EQUIPMENT, THE FOLLOWING EQUIPMENT IS THE MINIMUM REQUIREMENT FOR HOUSEKEEPING PADS. ADDITIONAL PADS MAYBE REQUIRED BASED ON THE MOUNTING METHODS.
1.1. GENERATOR
- ALL CONDUIT AND EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES.
- BONDING JUMPERS, CONDUIT CLAMPS AND POINTS OF ATTACHMENT ARE NOT SHOWN ON DRAWINGS. SIZE BONDING JUMPERS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. THE POINTS OF ATTACHMENT OF THE GROUND CLAMPS SHALL BE ACCESSIBLE LOCATIONS.
- EQUIPMENT & CONDUIT INSTALLATIONS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.
- CONDUITS SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTIONS TO MOTORS AND OTHER EQUIPMENT.
- NO CONDUIT SMALLER THAN 3/4" PIPE SIZE NOR WIRE SMALLER THAN NO. 12 A.W.G. SHALL BE USED UNLESS OTHERWISE NOTED.
- RECEPTACLES AND SWITCHES SHALL BE MOUNTED 45" ABOVE FINISHED FLOOR.
- THE WIRING AND BLOCK DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL AND PROCESS EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.

DEMOLITION NOTES

- UNLESS OTHERWISE NOTED AS SALVAGE, ALL EXISTING ELECTRICAL SYSTEMS WITHIN HATCH MARKS (POWER, LIGHTING, LOW VOLTAGE, CONTROLS, ETC) AND ASSOCIATED EQUIPMENT IS TO BE DEMOLISHED. DISCONNECT AND DE-ENERGIZE THE EQUIPMENT. REMOVE THE EQUIPMENT TO BE DEMOLISHED OR SALVAGED PER SECTION 02050. ALL CONTROL DEVICES, CONDUIT, CABLING, BOXES, SUPPORTS, ETC, ASSOCIATED WITH THE DEMOLISHED EQUIPMENT SHALL BE REMOVED. THE CONDUIT AND CABLING SHALL BE REMOVED BACK TO SOURCE.
- NO DEVICE OR EQUIPMENT INDICATED FOR DEMOLITION WILL BE REUSED OR SALVAGED UNLESS SPECIFICALLY NOTED AS SUCH. ALL EQUIPMENT REMOVED SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF, PRIOR TO REMOVAL OF EQUIPMENT COORDINATE WITH OWNER FOR ANY EQUIPMENT THE OWNER WILL KEEP.
- EXISTING EQUIPMENT INDICATED ON THE DEMOLITION PLANS ARE BASED ON SITE OBSERVATIONS AND IT IS NOT THE INTENTION OF THESE DRAWINGS TO SHOW ALL EQUIPMENT AND MATERIALS TO BE DISCONNECTED AND/OR REMOVED.

ABBREVIATIONS

(2)1"C, 3#8, #10GND	2. 1-INCH CONDUITS EACH CONDUIT CONTAINING 3-#8 AWG WIRES AND 1-#10 GROUND CONDUCTOR
3/4" CE	EMPTY CONDUIT. NUMERAL DENOTES SIZE
ABL	ALARM BEACON LIGHT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AR	ALARM RELAY
ATS	AUTOMATIC TRANSFER SWITCH
CR	CONTROL RELAY
CP	CONTROL PANEL
DRG. DWG.	DRAWING
EAN	EXCEPT AS NOTED
EC	ELECTRICAL CONTRACTOR
ETM	ELAPSED TIME METER
FE	FLOW ELEMENT
FIT	FLOW INDICATOR TRANSMITTER
FS	FLOW SWITCH
FT	FLOW TRANSMITTER
FVNR	FULL VOLTAGE NON-REVERSING
GND, GRD	GROUNDING CONDUCTOR (EQUIPMENT)
HO	HAND-OFF SELECTOR SWITCH
HOA	HAND-OFF-AUTOMATIC SELECTOR SWITCH
HH	HANDHOLE
ISBP	INTRINSICALLY SAFE BARRIER PANEL
J OR JB	JUNCTION BOX
JPB	JOG PUSHBUTTON
LE	LEVEL ELEMENT
LIT	LEVEL INDICATOR TRANSMITTER
LL	LOW LEVEL
LSX	LEVEL SWITCH, X = "H" FOR HIGH, "L" FOR LOW
LT	LEVEL TRANSMITTER
MC	MOTOR CONTROLLER (STARTER)
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MFR	MANUFACTURER
MS	MOTION SENSOR
NTS	NOT TO SCALE
OEM	ORIGINAL EQUIPMENT MANUFACTURE SUPPLIED
OH	OVERHEAD
OL	MOTOR OVERLOAD HEATER
OS	OPERATOR STATION
PB	PUSHBUTTON CONTROL STATION MOMENTARY CONTACT TYPE, STOP-START
PBE	PUSHBUTTON CONTROL STATION MAINTAINED EMERGENCY STOP TYPE, TWIST TO RELEASE
PBL	PUSHBUTTON CONTROL STATION MOMENTARY TYPE WITH LOCK-OUT DEVICE, STOP-START
PBM	SELECTOR SWITCH CONTROL STATION, CONTACT TYPE, HAND-OFF
PIT	PRESSURE INDICATOR TRANSMITTER
PL	PUSHBUTTON CONTROL STATION MOMENTARY TYPE WITH LOCK-OUT DEVICE, STOP
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
PT	PRESSURE TRANSMITTER
RGS	RIGID GALVANIZED STEEL
RVNR	REDUCED VOLTAGE NON-REVERSING
SPD	SURGE SUPPRESSOR DEVICE
SOV	SOLENOID VALVE
S/S	SOFT STARTER
TB	TERMINAL BOX
TD	MOTOR TEMPERATURE DETECTOR
TR	TIMING RELAY
TS	TEMPERATURE SWITCH
TSP	TWISTED SHIELDED PAIR
TSTW	TWO SPEED TWO WINDING
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
WP	WATER PROOF
WSH	TORQUE SWITCH HIGH
XFMR	TRANSFORMER
XS	LIMIT SWITCH

PREPARED BY



REGISTERED PROFESSIONAL

SUBCONSULTANT



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617 221-9220
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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

Electrical Legend and General Notes

NO.	REVISIONS	DATE
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DRAWN BY: RLB Initials

DESIGNED BY: MC Initials

CHECKED BY: MC Initials

ISSUE DATE: 00/00/15

BETA JOB NO.: 0000-000

SCALE

AS SHOWN

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SHEET NO.

E-0.1

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BETA JOB NO.: 0000-000

SCALE

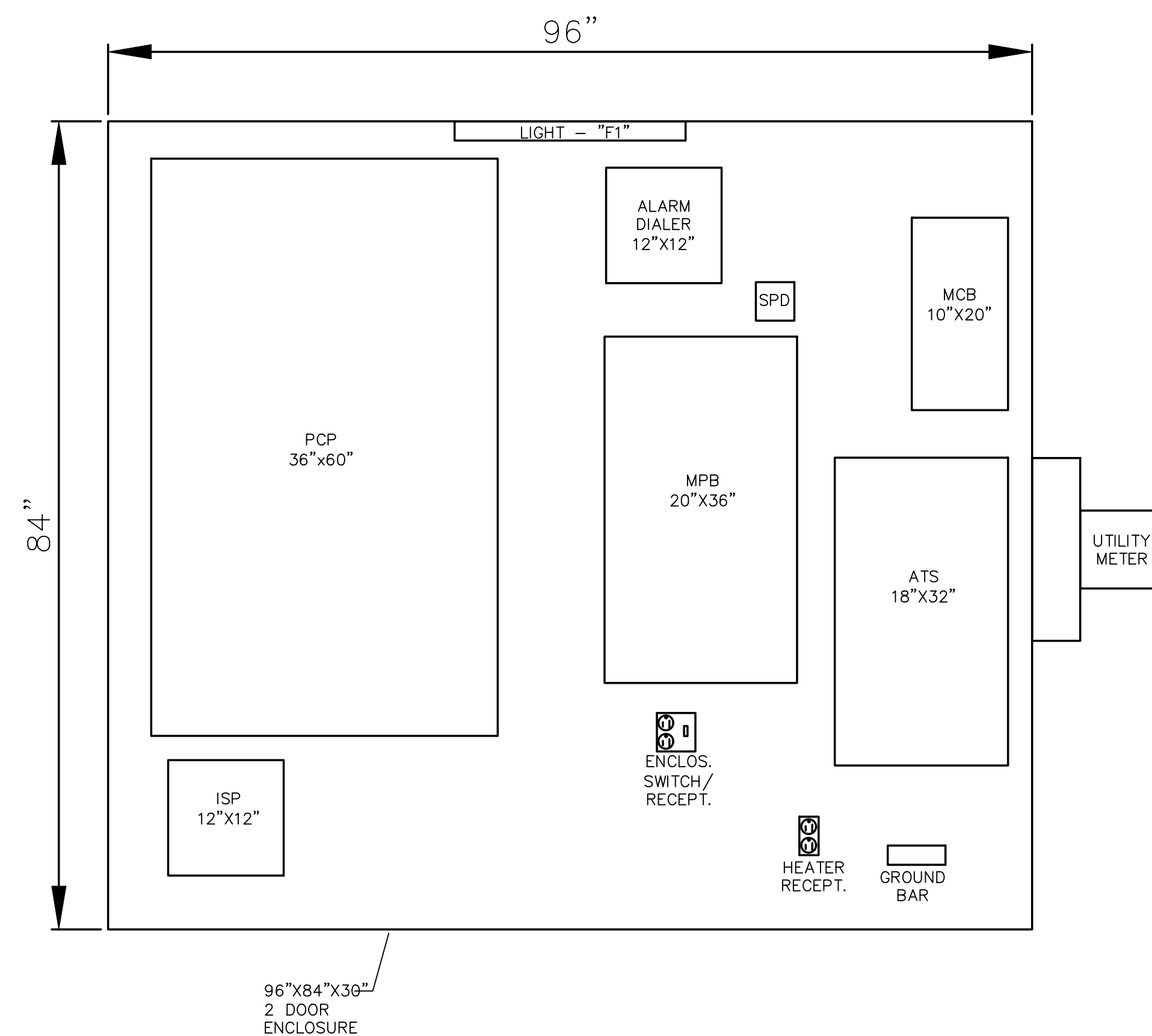
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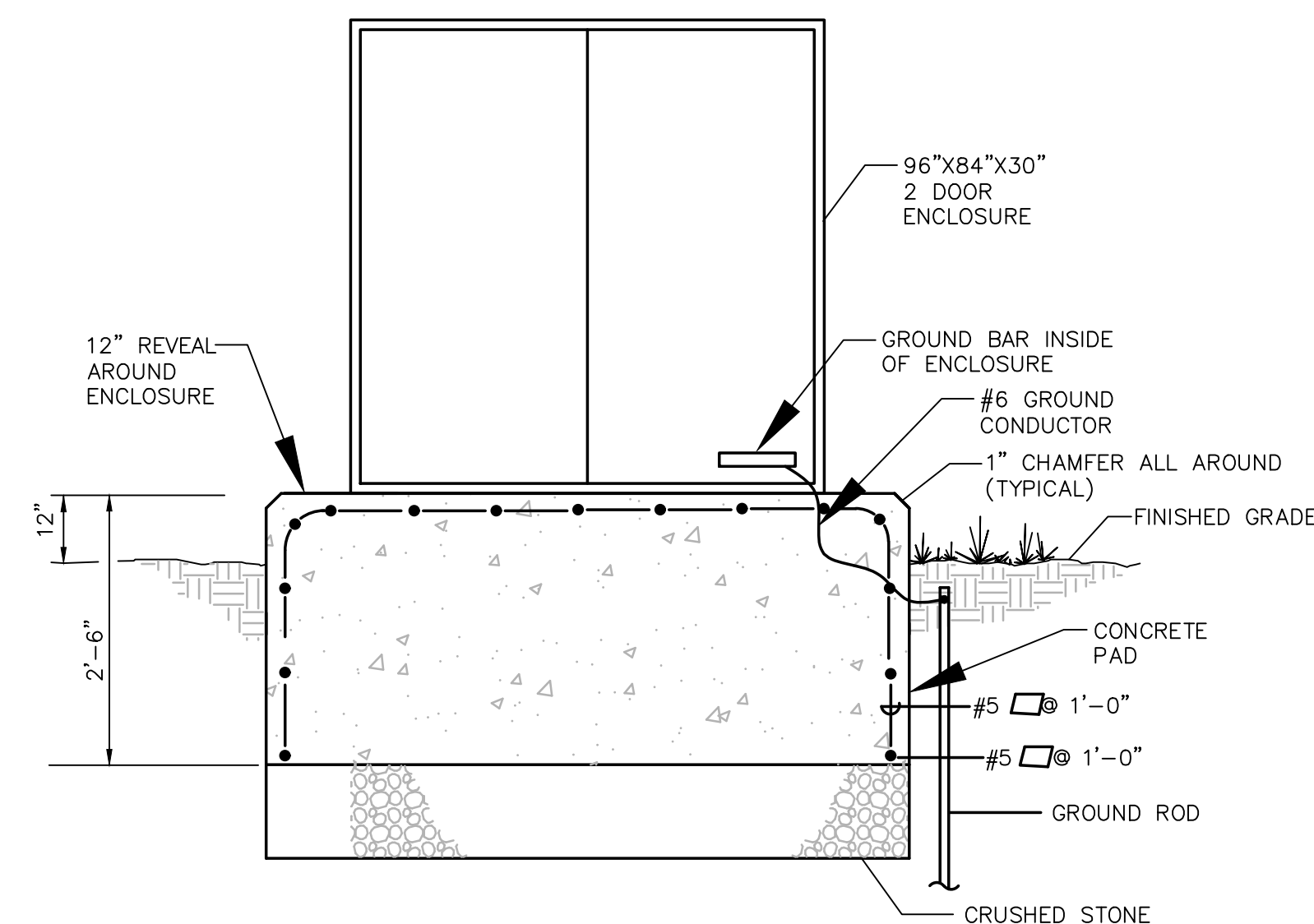
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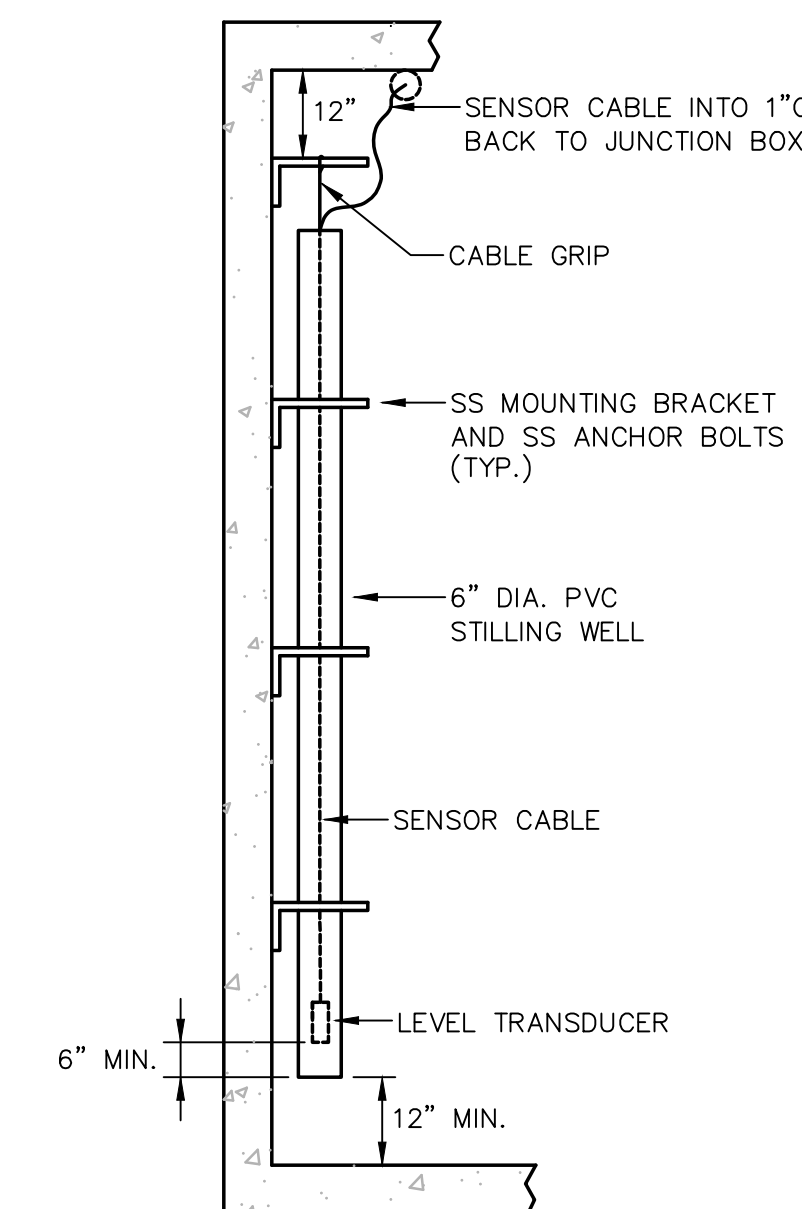
E-0.3



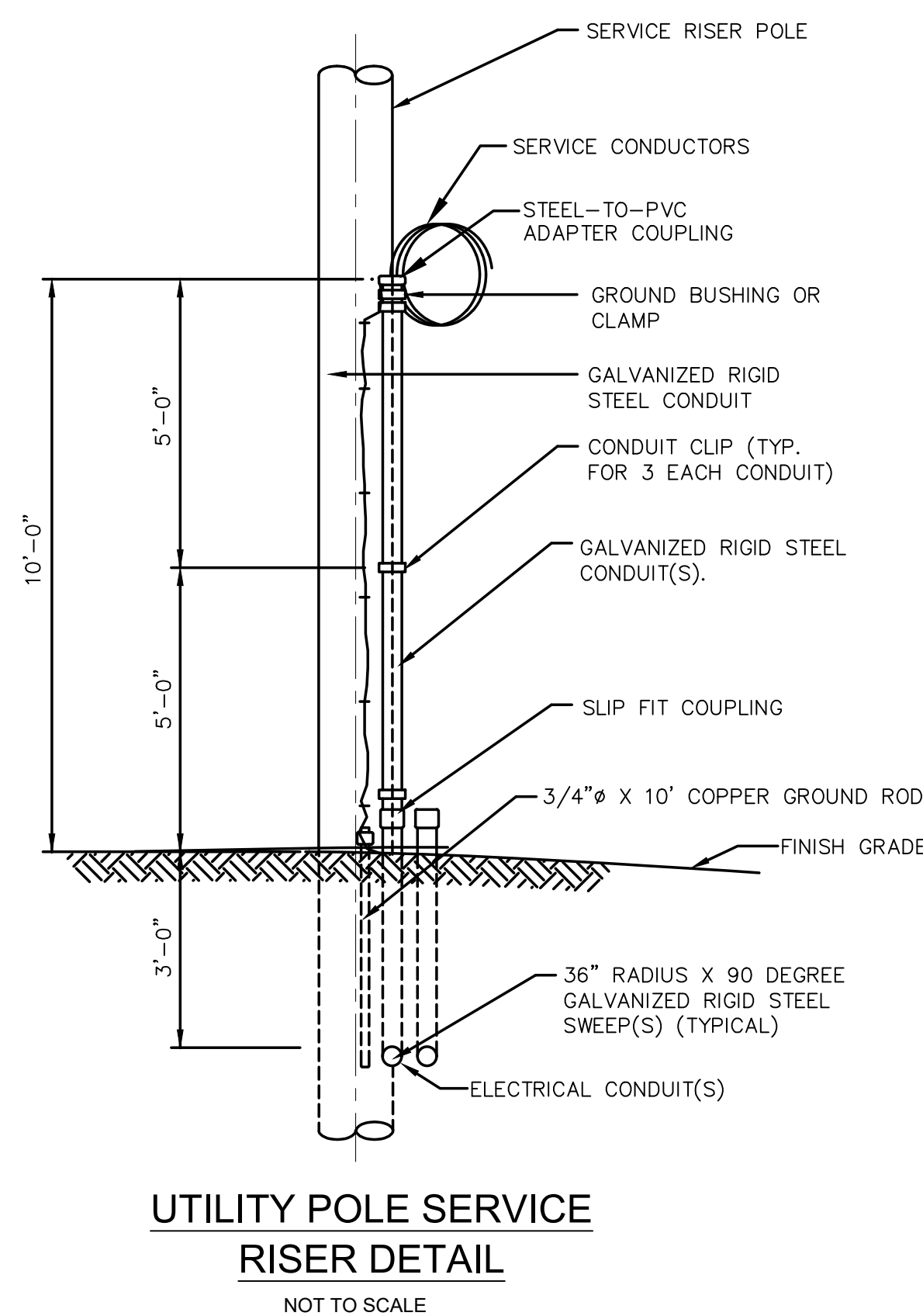
ELECTRICAL ENCLOSURE - EQUIPMENT LAYOUT
SCALE: 1" = 1'-0"



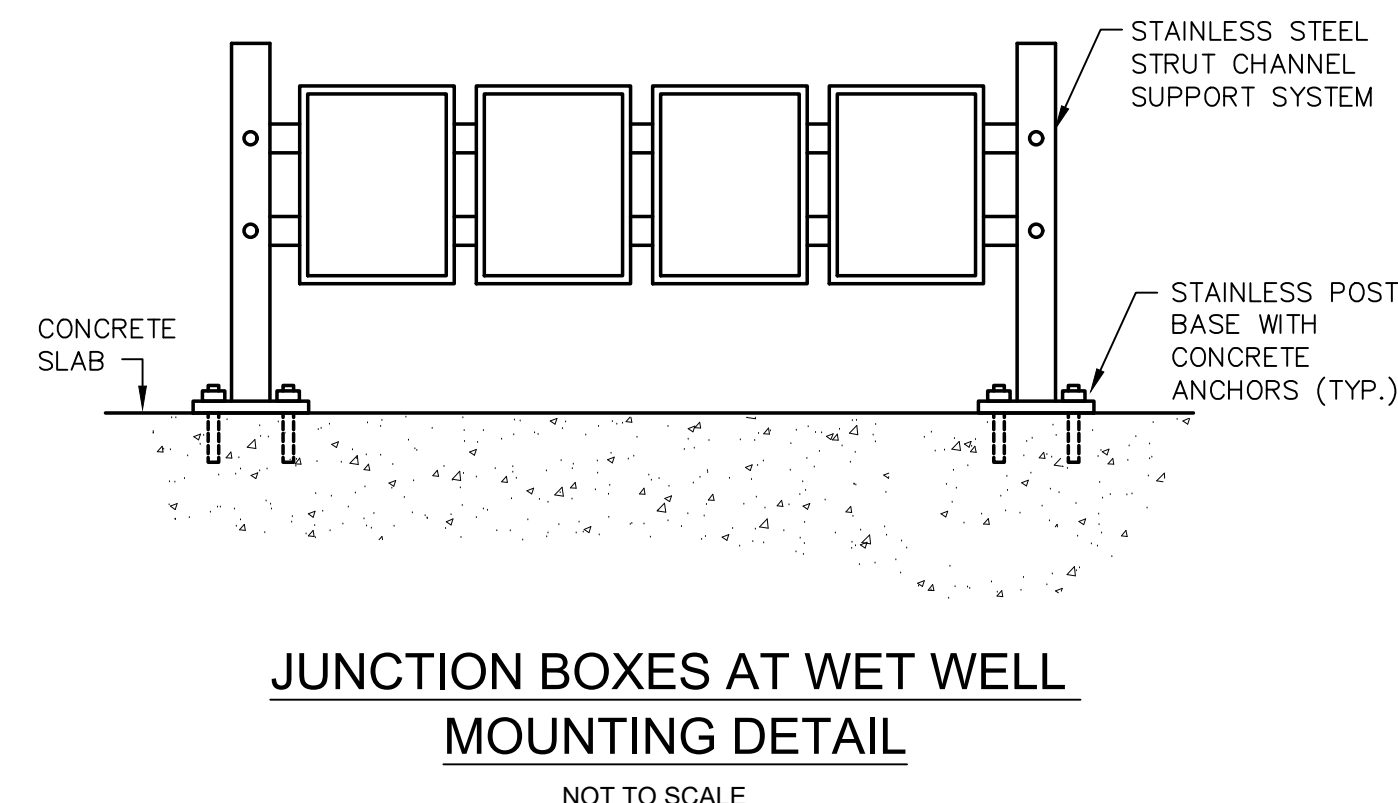
ELECTRICAL ENCLOSURE BASE DETAIL
NOT TO SCALE



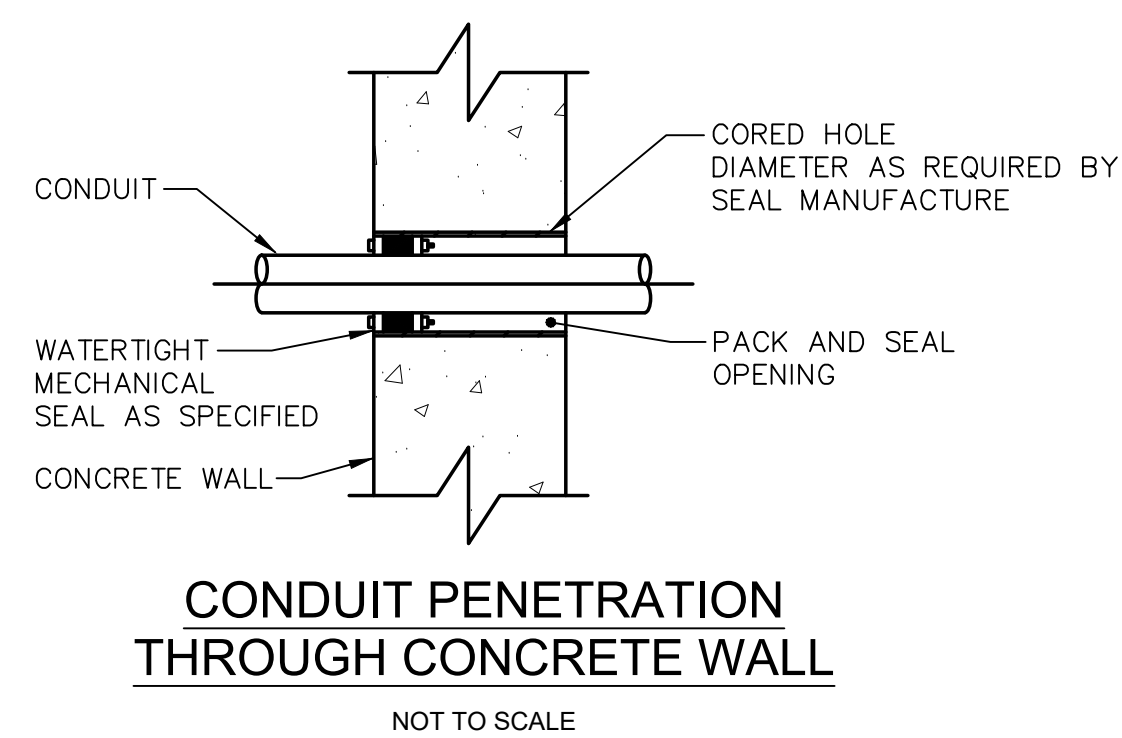
SUBMERSIBLE LEVEL TRANSDUCER IN WET WELL
NOT TO SCALE



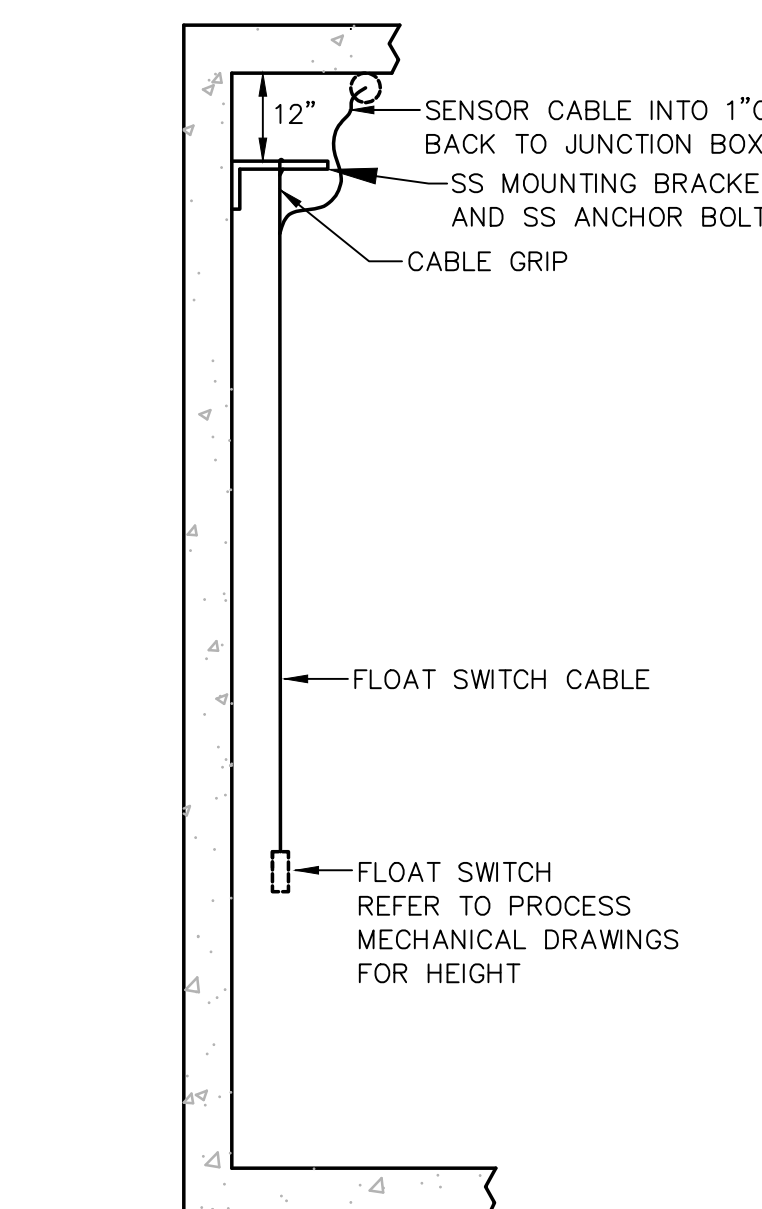
UTILITY POLE SERVICE RISER DETAIL
NOT TO SCALE



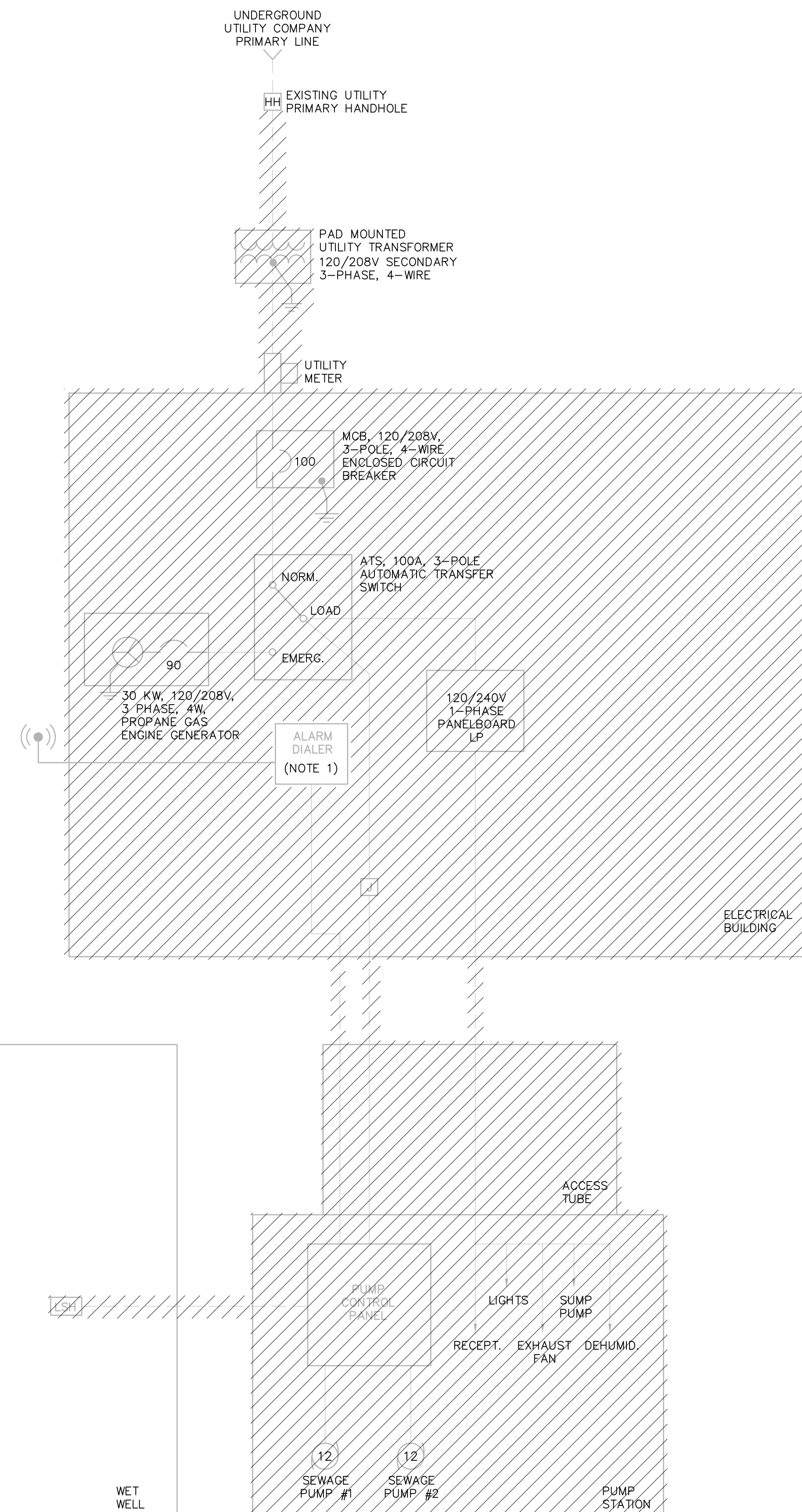
JUNCTION BOXES AT WET WELL MOUNTING DETAIL
NOT TO SCALE



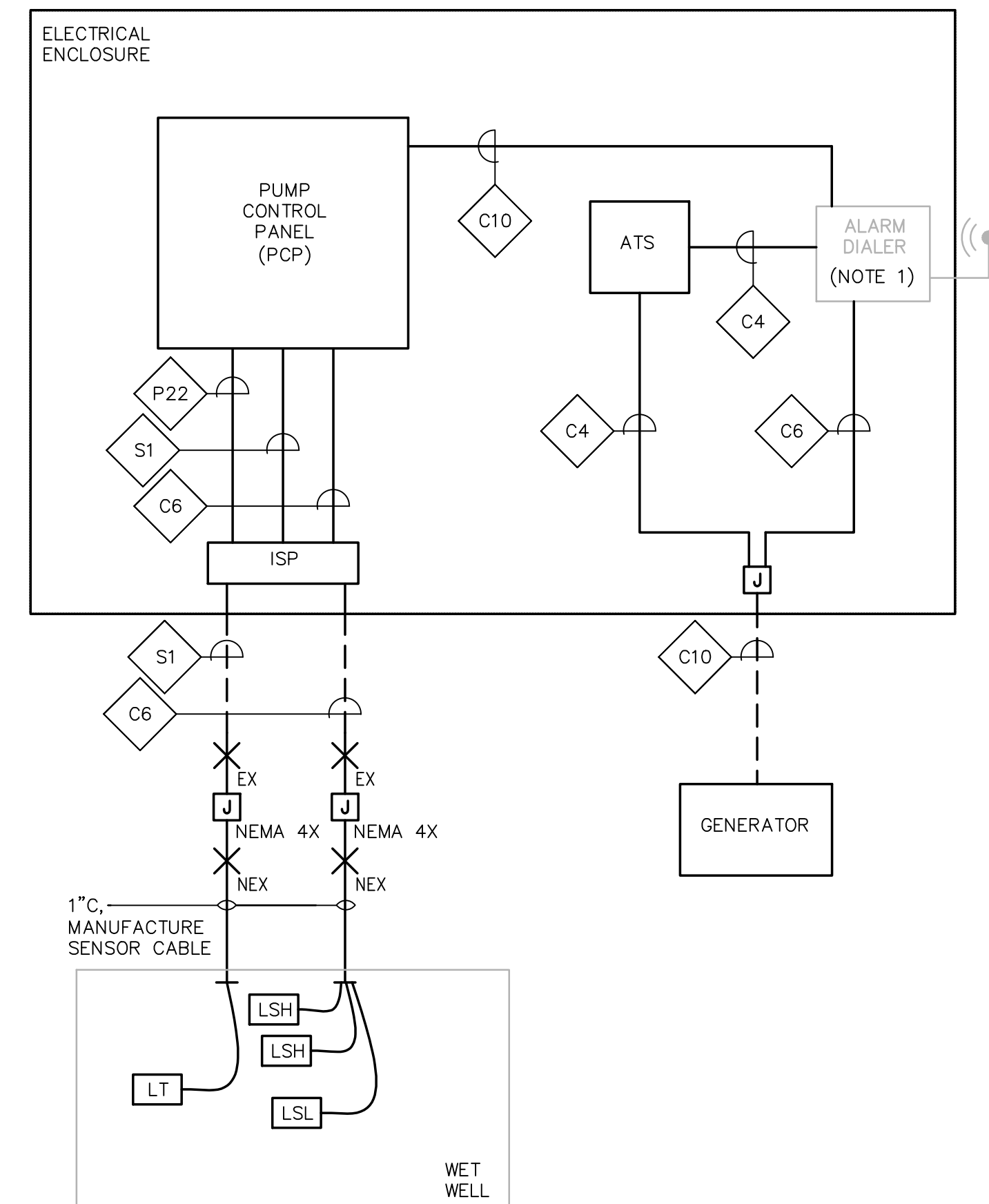
CONDUIT PENETRATION THROUGH CONCRETE WALL
NOT TO SCALE



FLOAT LEVEL SWITCH IN WET WELL
NOT TO SCALE



MYLES STANDISH DEMOLITION ONE LINE DIAGRAM
NOT TO SCALE



MYLES STANDISH CONTROL BLOCK DIAGRAM
NOT TO SCALE

NOTES:

- ALARM DIALER, ANTENNA, ANTENNA MOUNT, AND ANTENNA CABLE TO BE SALVAGED AND REINSTALLED IN NEW ELECTRICAL ENCLOSURE.

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REGISTERED PROFESSIONAL

SUBCONSULTANT



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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION
Electrical Demolition
One Line Diagram

NO.	REVISIONS	DATE
-----	-----------	------

DRAWN BY: RLB Initials

DESIGNED BY: MC Initials

CHECKED BY: MC Initials

ISSUE DATE: 00/00/15

BETA JOB NO.: 0000-000

SCALE

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E-1.0

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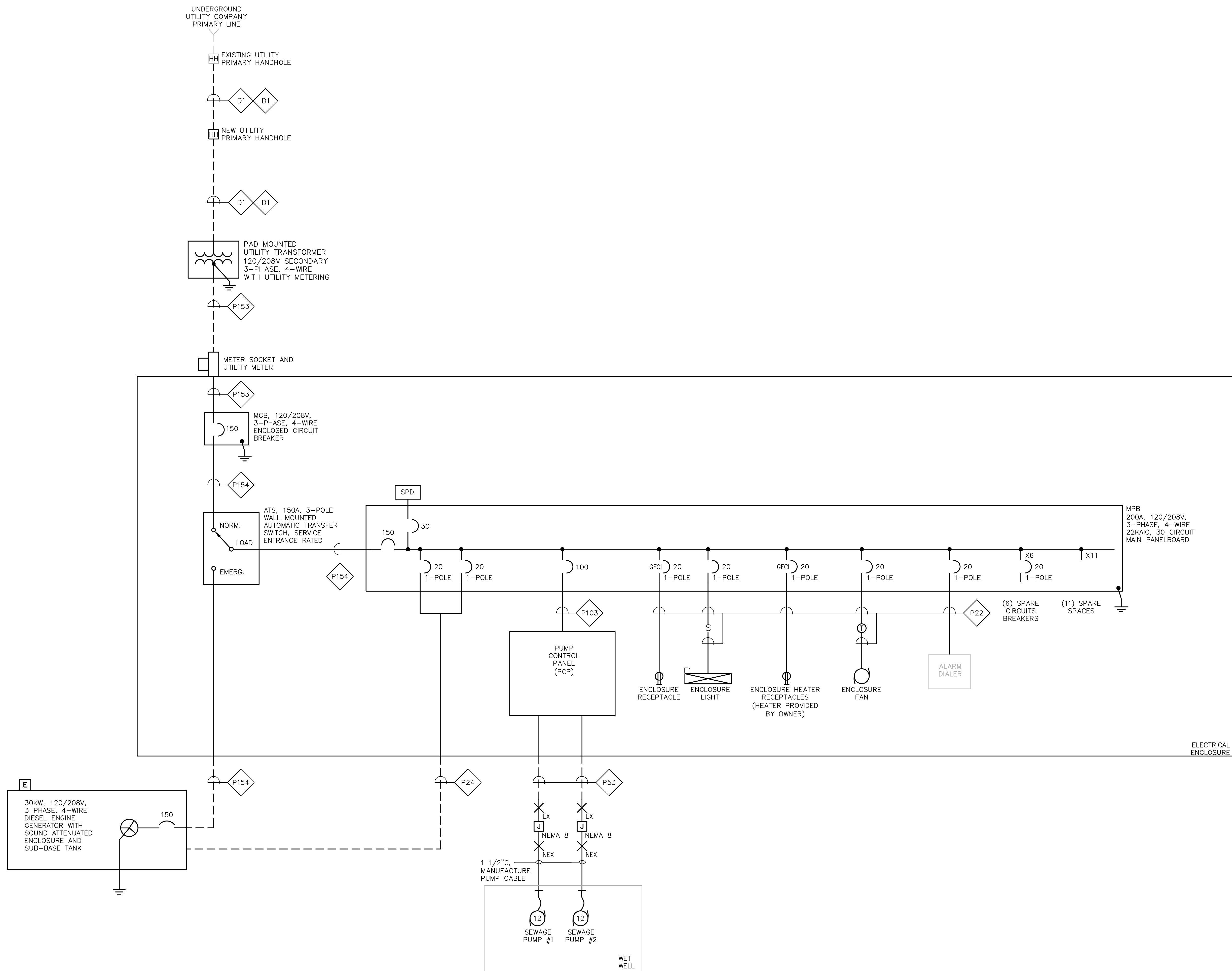
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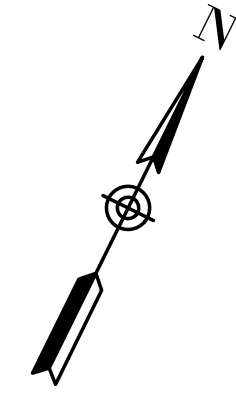
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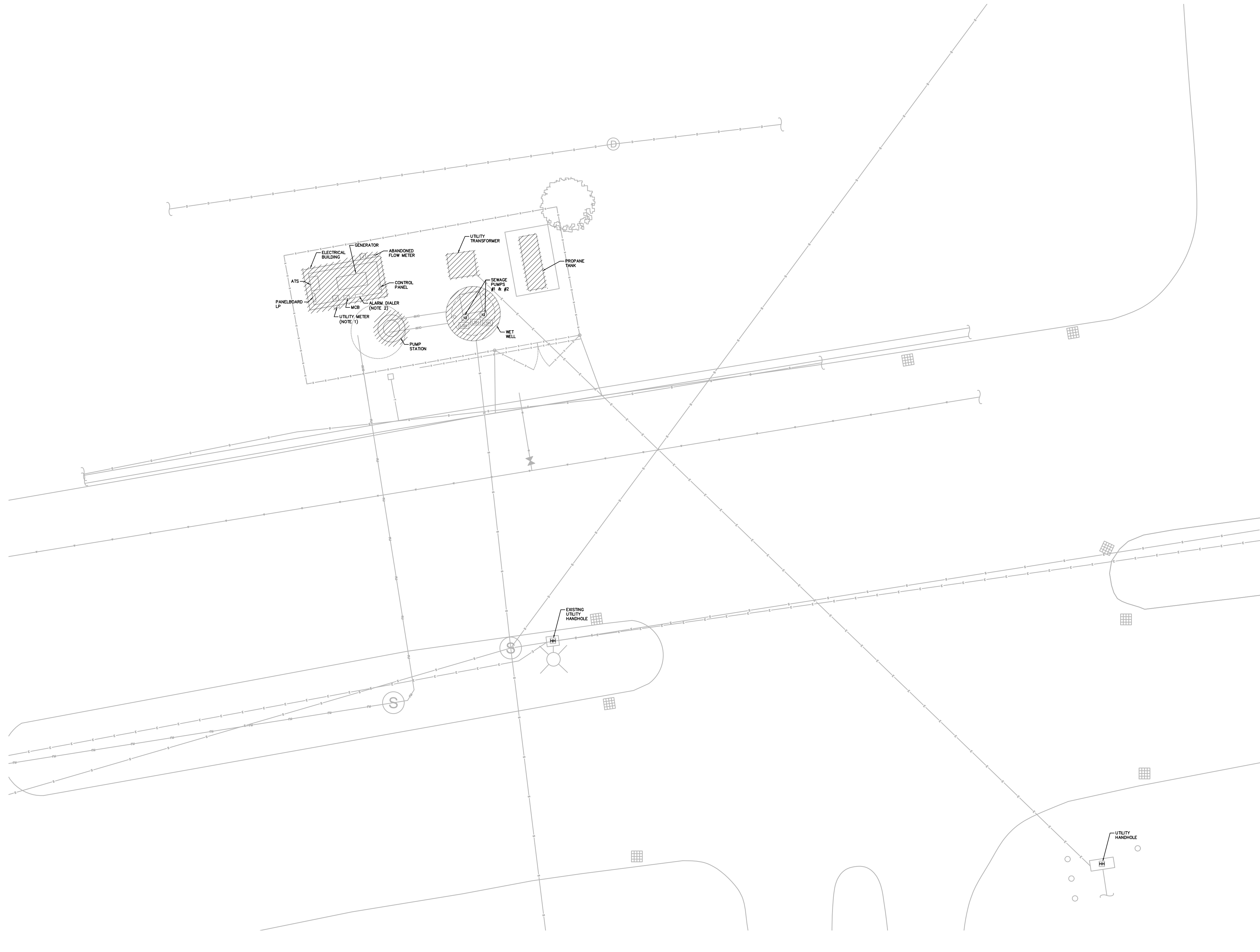
E-1.1



MYLES STANDISH ONE LINE DIAGRAM
NOT TO SCALE



- NOTES:
- 1. DISCONNECT POWER TO THE PUMP STATION AND MAKE SAFE FOR COMPLETE DEMOLITION. COORDINATE WITH T&P FOR DISCONNECTION OF POWER TO THE METER.
 - 2. ALARM DIALER, ANTENNA, ANTENNA MOUNT, AND ANTENNA CABLE TO BE SALVAGED AND REINSTALLED IN NEW ELECTRICAL ENCLOSURE.



**MYLES STANDISH PUMP STATION
DEMOLITION PLAN**
SCALE: 1" = 5'-0"

PREPARED BY



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PROJECT

**2023 Pump Station
Improvements**

Taunton, MA

TITLE

**MYLES STANDISH
PUMP STATION**

Electrical
Demolition
Plan

NO.	REVISIONS	DATE

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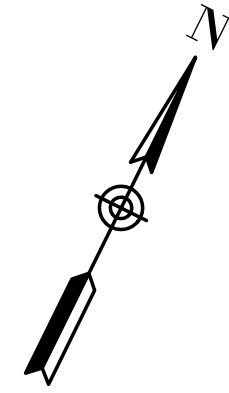
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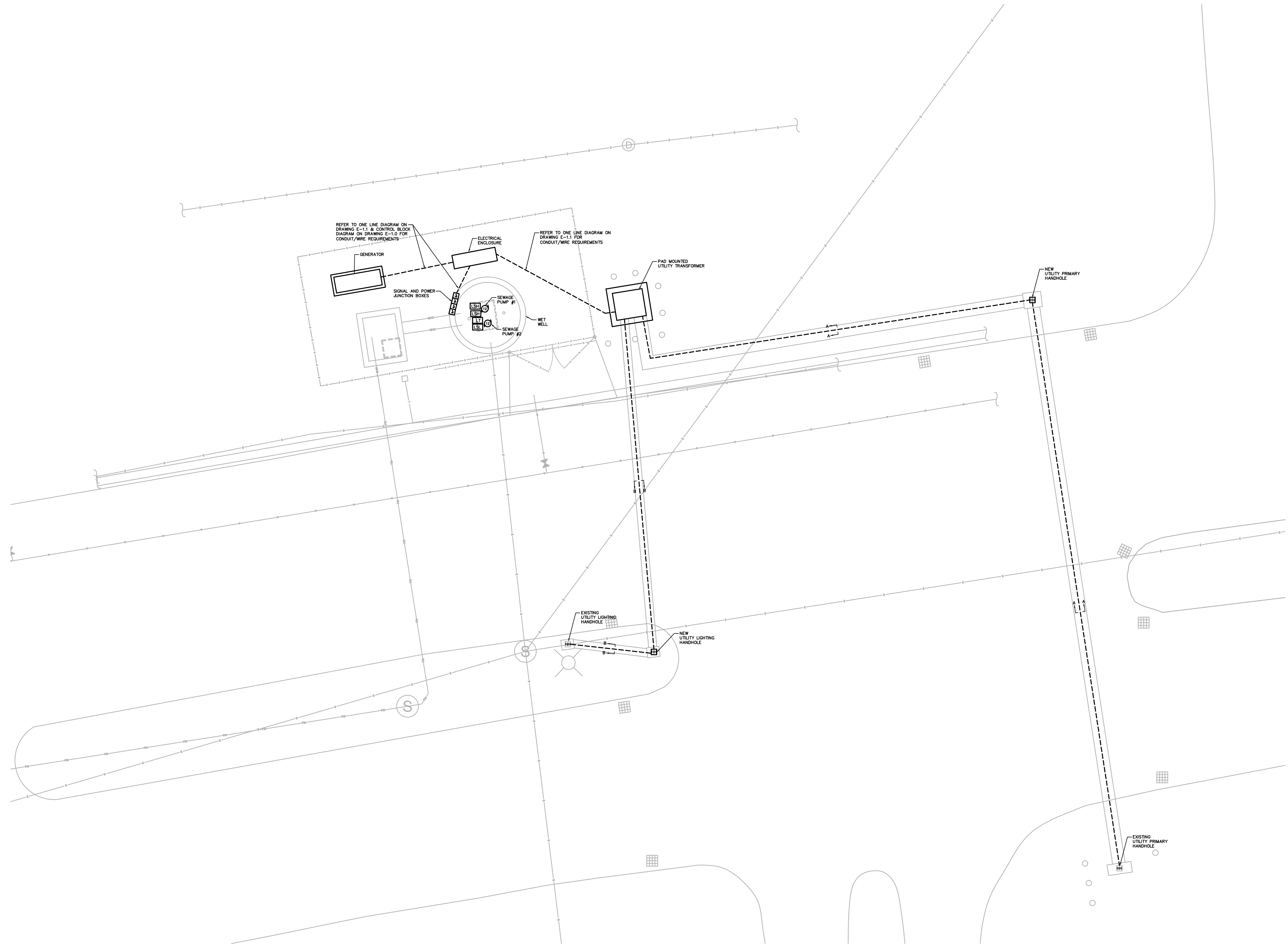
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E-1.2



NOTES:
1. REFER TO DRAWING E-1.4 FOR DUCTBANK SECTIONS.



**MYLES STANDISH PUMP STATION
PLAN**
SCALE: 1" = 5'-0"

PREPARED BY



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PROJECT

**2023 Pump Station
Improvements**

Taunton, MA

TITLE

**MYLES STANDISH
PUMP STATION**

**Electrical
Plan**

NO.	REVISIONS	DATE
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SCALE

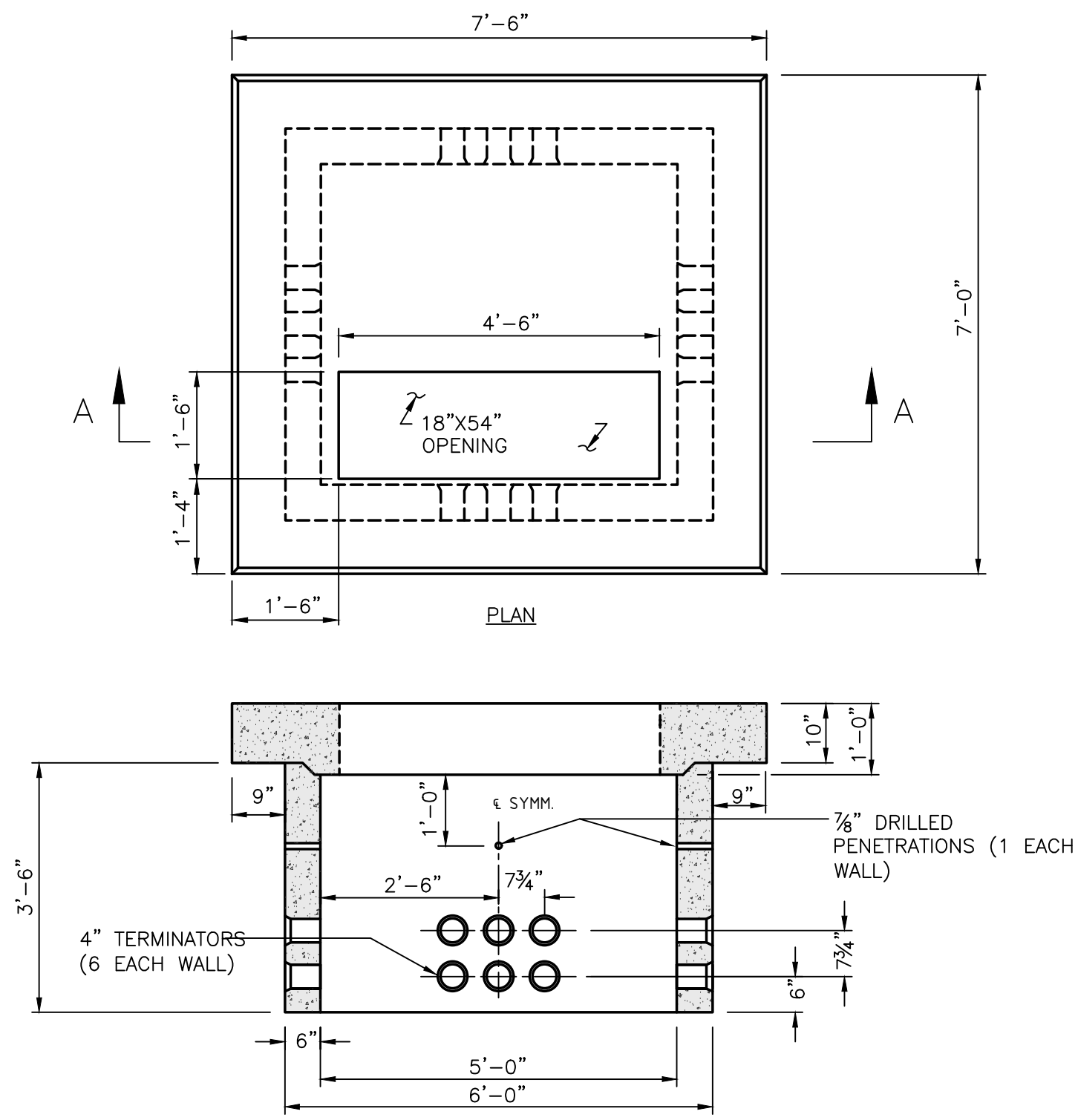
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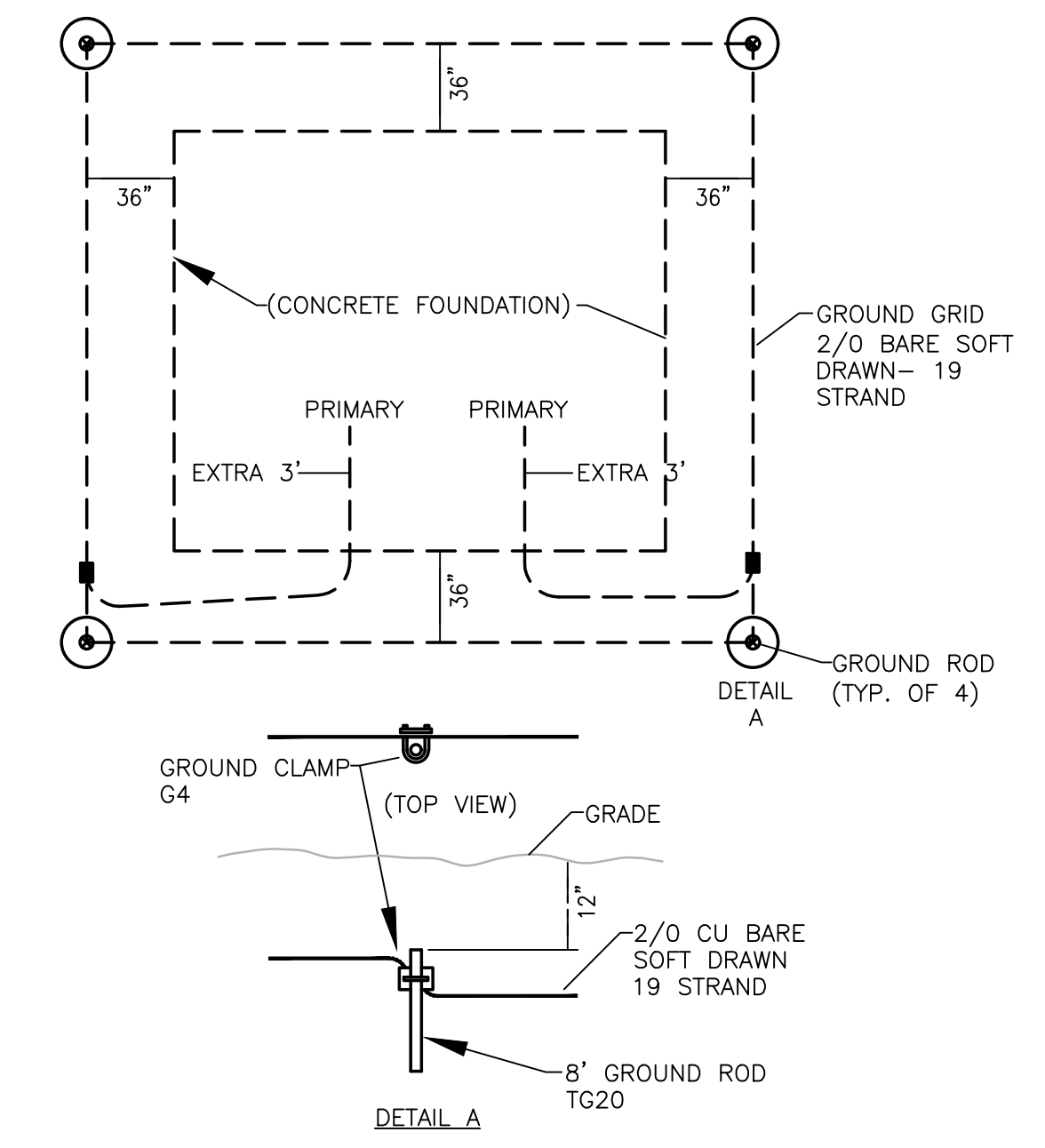
SHEET NO.

E-1.3



- NOTES:**
1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
 2. DESIGN LOADING: AASHTO HS20-44, 0 TO 5 FEET COVER.
 3. DESIGN SPECIFICATIONS - ACI 318 & AASHTO LOAD FACTOR DESIGN METHOD.
 4. STEEL REINFORCEMENT CONFORMS TO ASTM A615, GRADE 60. MINIMUM STEEL COVER 1 1/2".
 5. ALL TERMINATORS SHALL HAVE BELL ENDS FLUSH WITH THE INSIDE WALL.

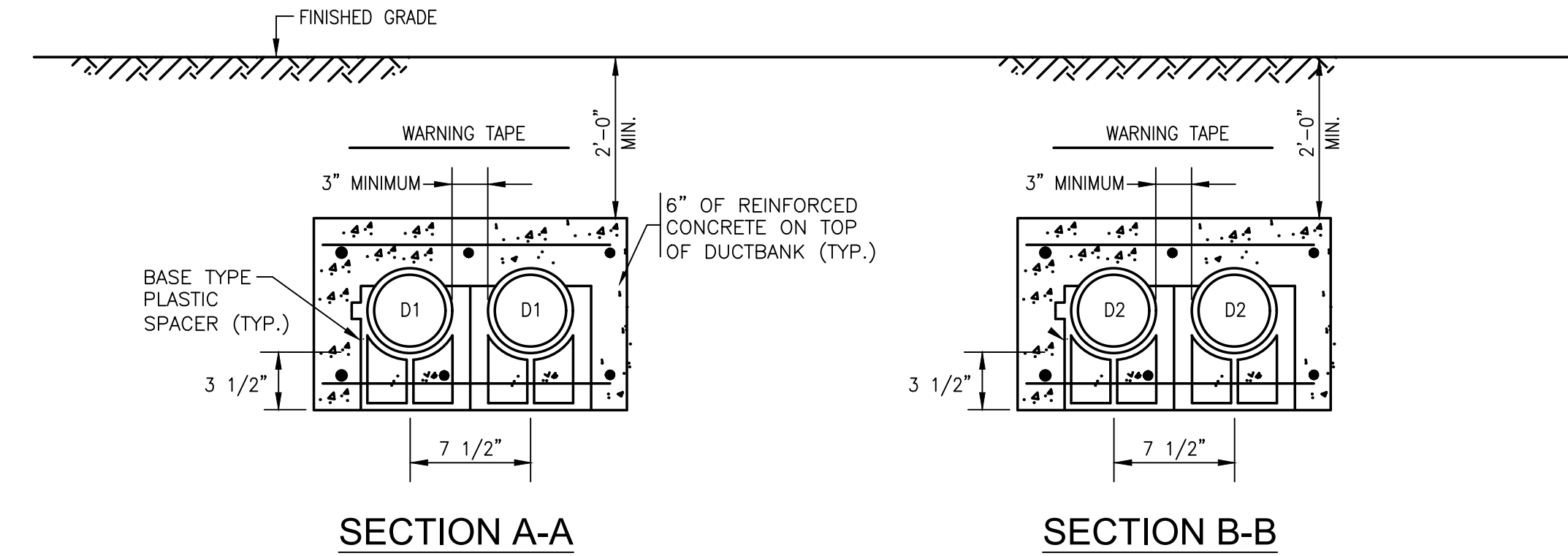
TRANSFORMER PAD
NO SCALE



PAD MOUNTED TRANSFORMER GROUNDING PLAN
NO SCALE

DUCT / CABLE SCHEDULE

DUCT NO.	SIZE	CONDUCTORS	FROM	TO
D1	5"	PULL STRING	UTILITY PRIMARY HANDHOLE	UTILITY TRANSFORMER
D2	4"	PULL STRING	UTILITY TRANSFORMER	UTILITY LIGHTING HANDHOLE



DUCTBANK SECTIONS
NO SCALE

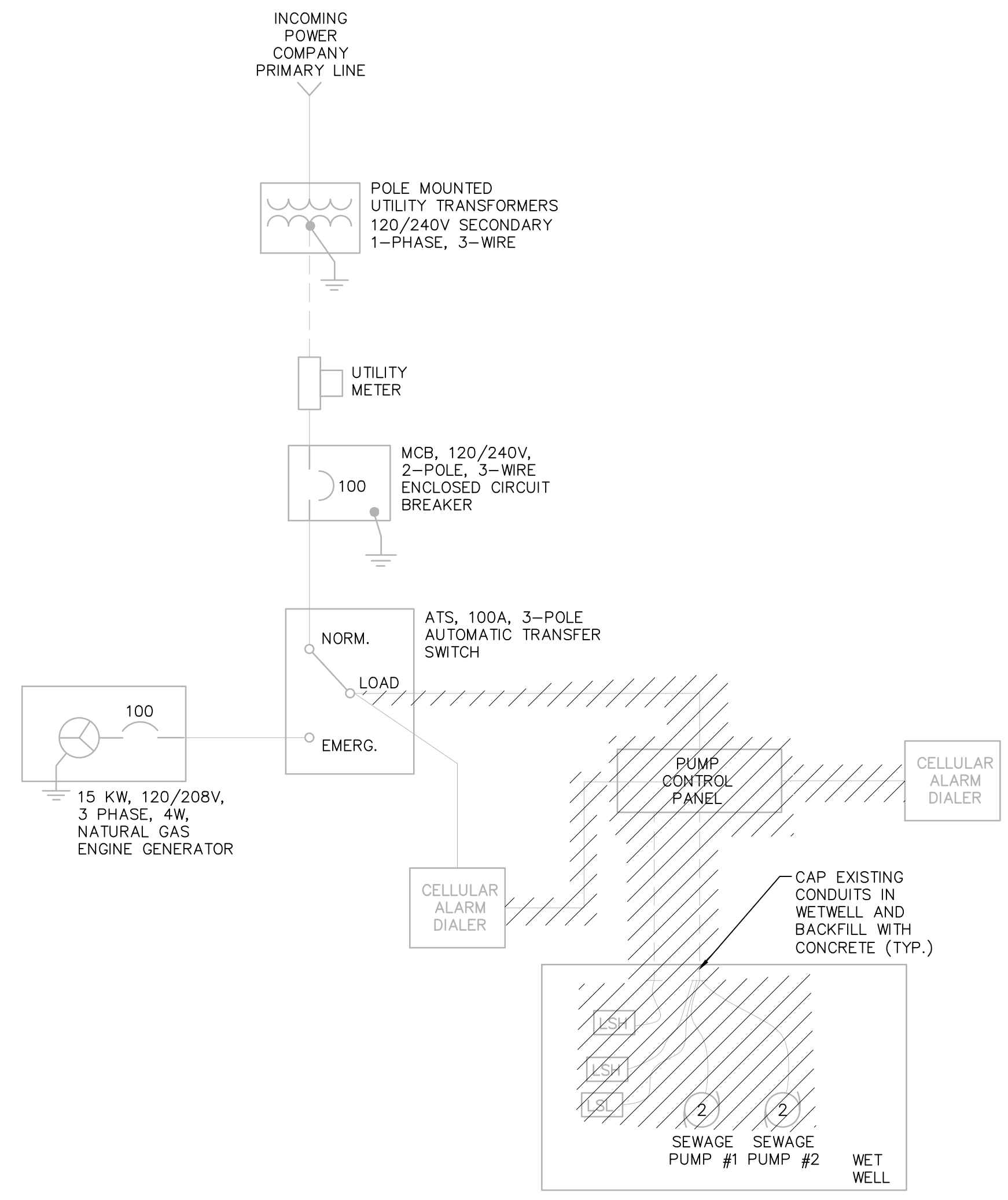
- NOTES:**
1. BACKFILL DUCT BANK IN LAYERS AND MANUALLY TAMP OR "PUDDLE" CONCRETE FILL. PROVIDE RED DUCT BANK MARKER TAPES, READING "CAUTION - ELECTRICAL LINES BELOW", OVER ENTIRE LENGTH OF DUCTLINE. LOCATE TAPES 12 INCHES BELOW GRADE. PROVIDE A TAPE FOR EVERY 12 INCHES OF WIDTH OF DUCTLINE.
 2. A MINIMUM OF 12" SEPARATION SHALL BE KEPT BETWEEN DUCT BANK SECTIONS WITHIN SAME TRENCH.
 3. A MINIMUM 3" OF CONCRETE SHALL BE KEPT BETWEEN CONDUITS AND THE PERIMETER OF ALL DUCTBANKS.

NO.	REVISIONS	DATE

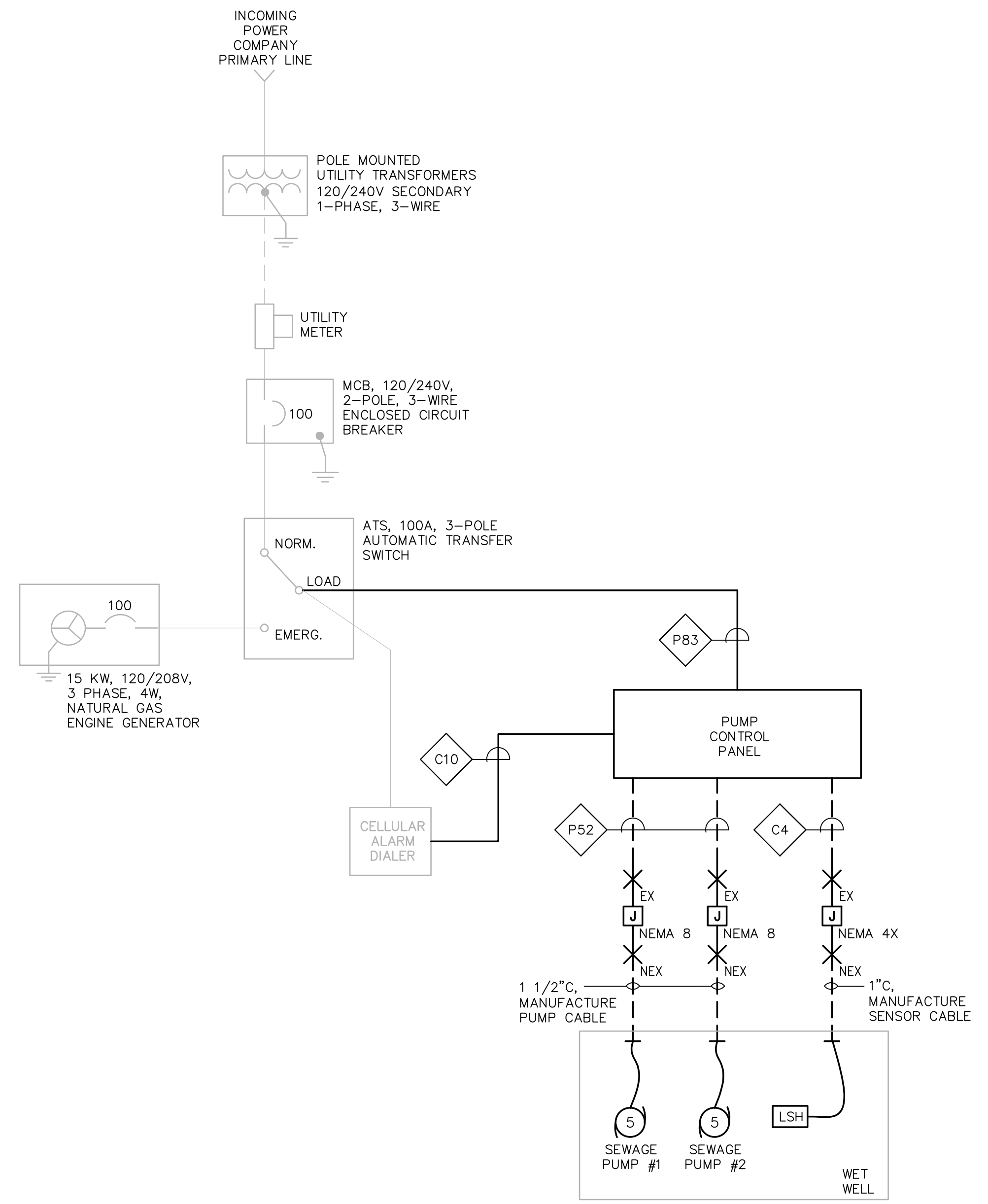
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SCALE

AS SHOWN



PARTRIDGE CIRCLE DEMOLITION ONE LINE DIAGRAM
NOT TO SCALE



PARTRIDGE CIRCLE ONE LINE DIAGRAM
NOT TO SCALE

PREPARED BY



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SUBCONSULTANT



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web: www.sar.com

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

PARTRIDGE CIRCLE PUMP STATION

Electrical One Line Diagrams

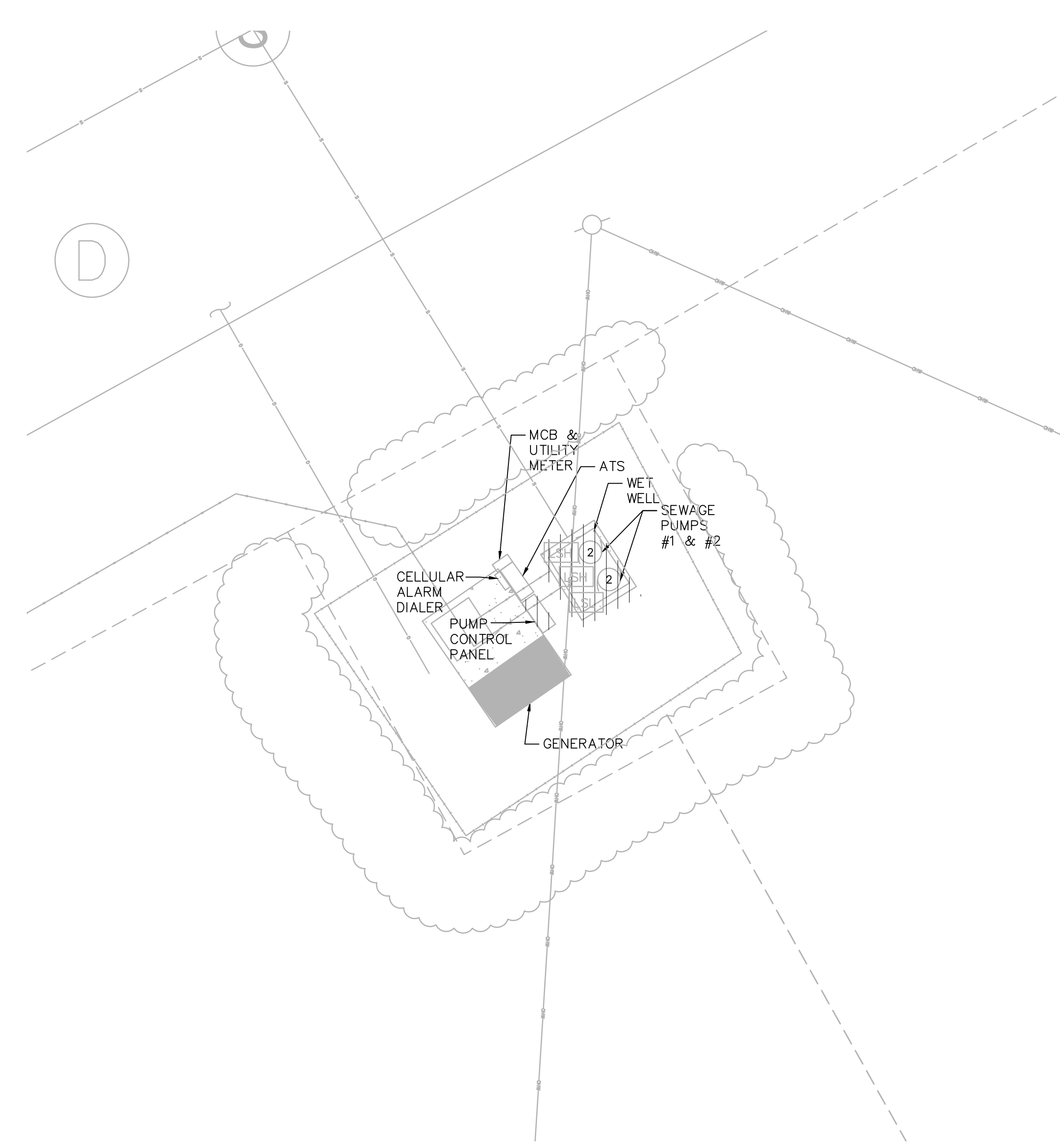
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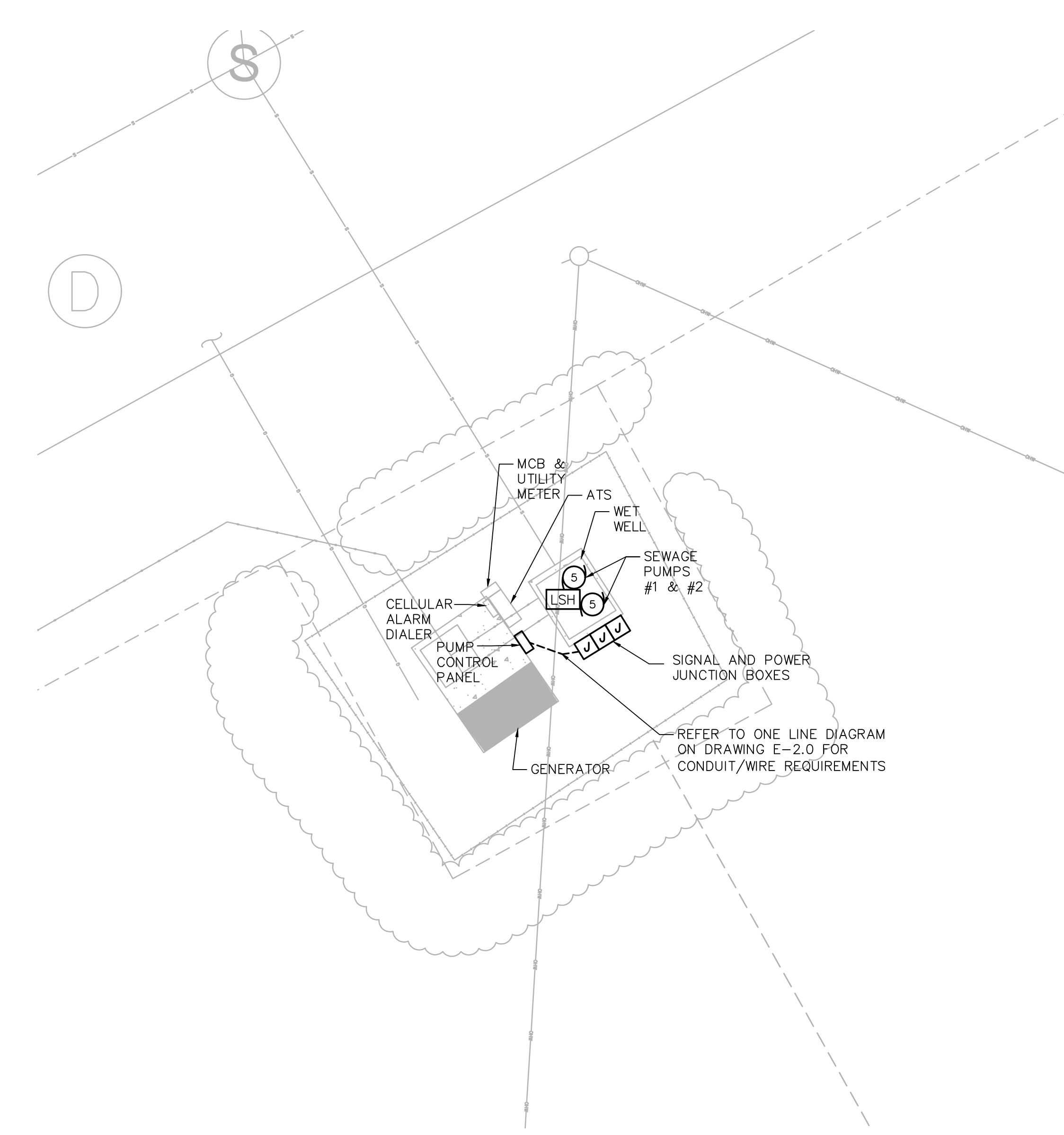
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**PARTRIDGE CIRCLE PUMP STATION
DEMOLITION PLAN**
SCALE: 1" = 5'-0"



**PARTRIDGE CIRCLE PUMP STATION
NEW WORK PLAN**
SCALE: 1" = 5'-0"

PREPARED BY



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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

**PARTRIDGE CIRCLE
PUMP STATION**

**Electrical
Plan**

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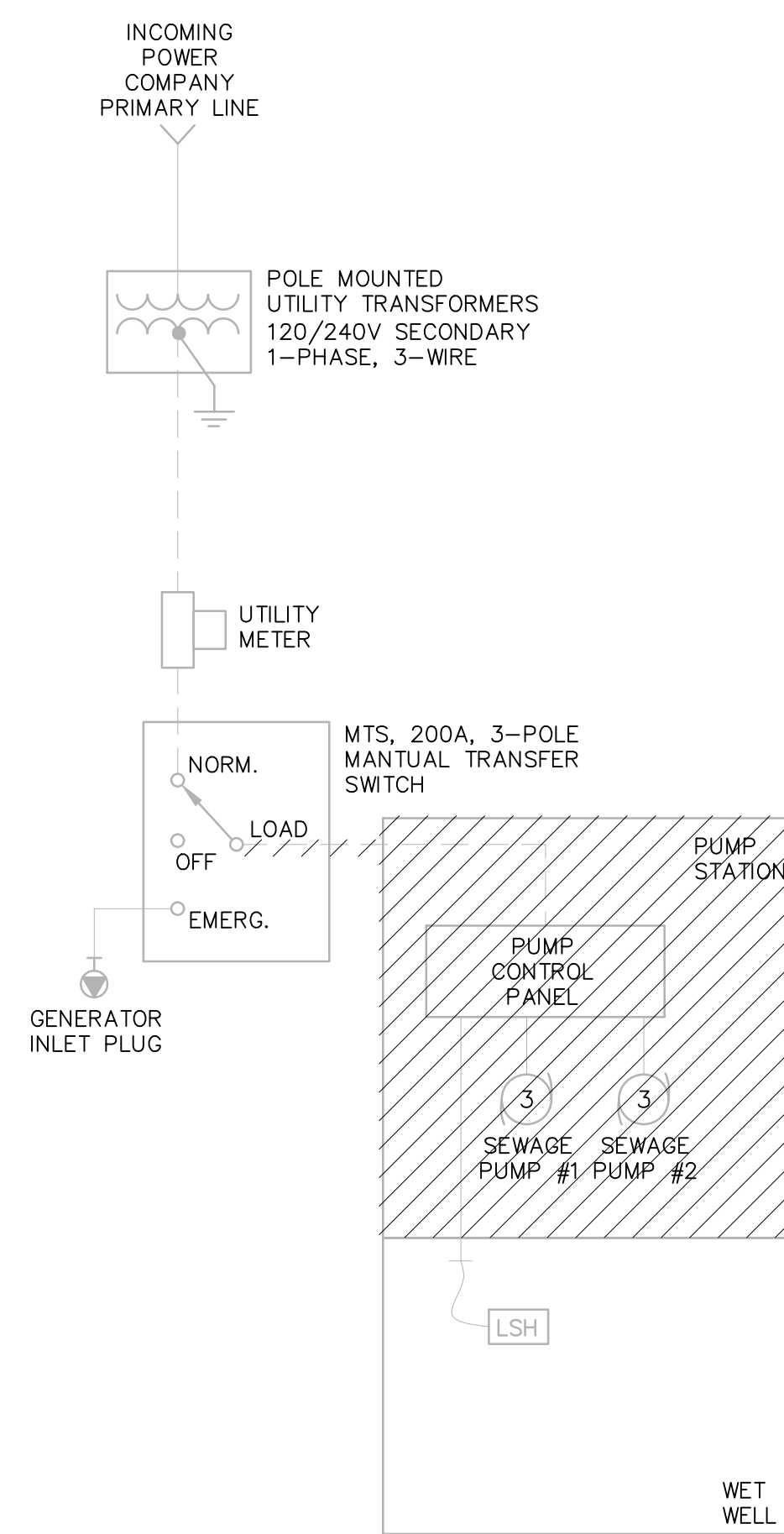
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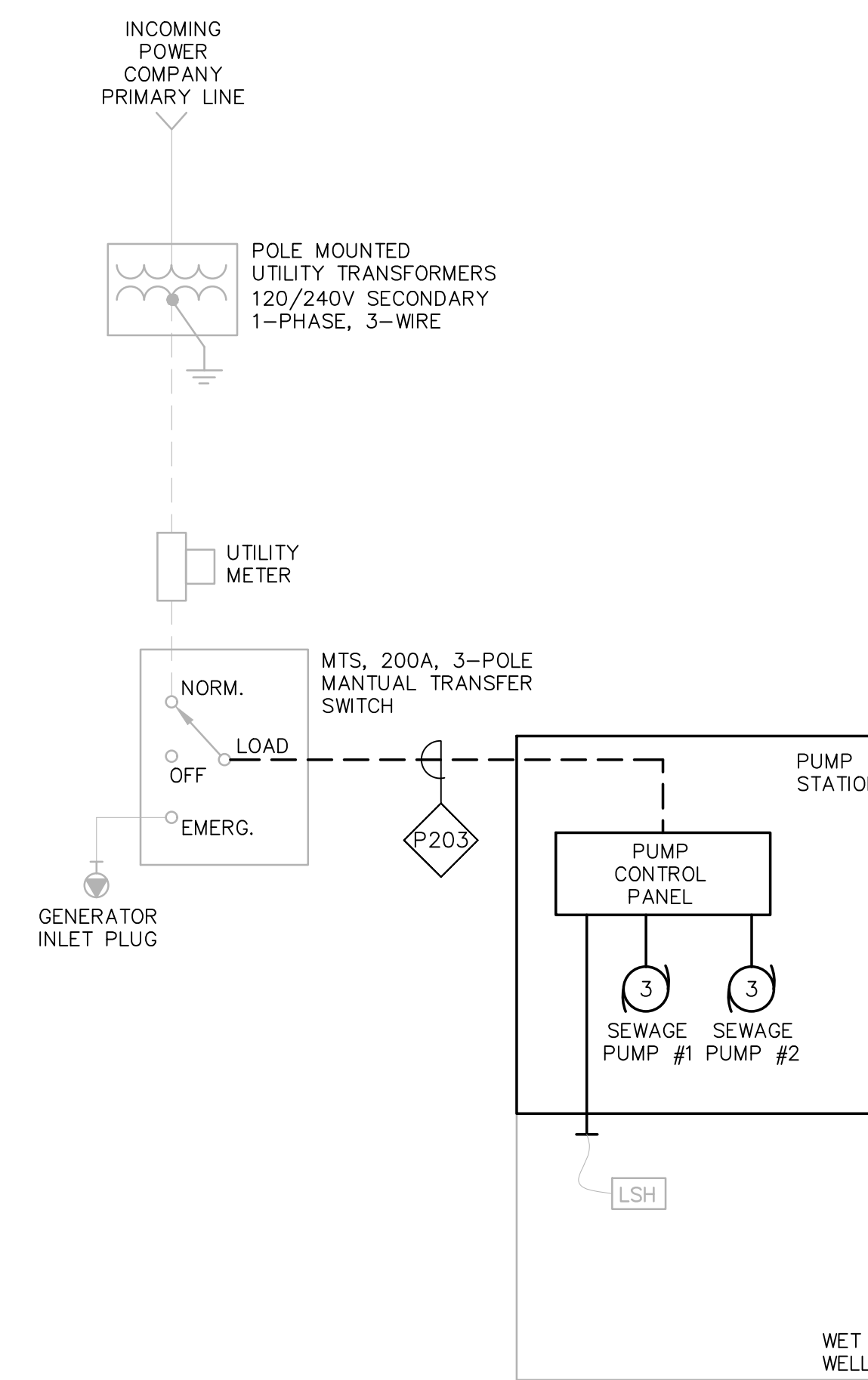
For Review Only

SHEET NO.

E-2.1



WELLESLEY CIRCLE DEMOLITION ONE LINE DIAGRAM
NOT TO SCALE



WELLESLEY CIRCLE ONE LINE DIAGRAM
NOT TO SCALE

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2023 Pump Station Improvements

Taunton, MA

TITLE

WELLESLEY CIRCLE PUMP STATION

Electrical One Line Diagrams

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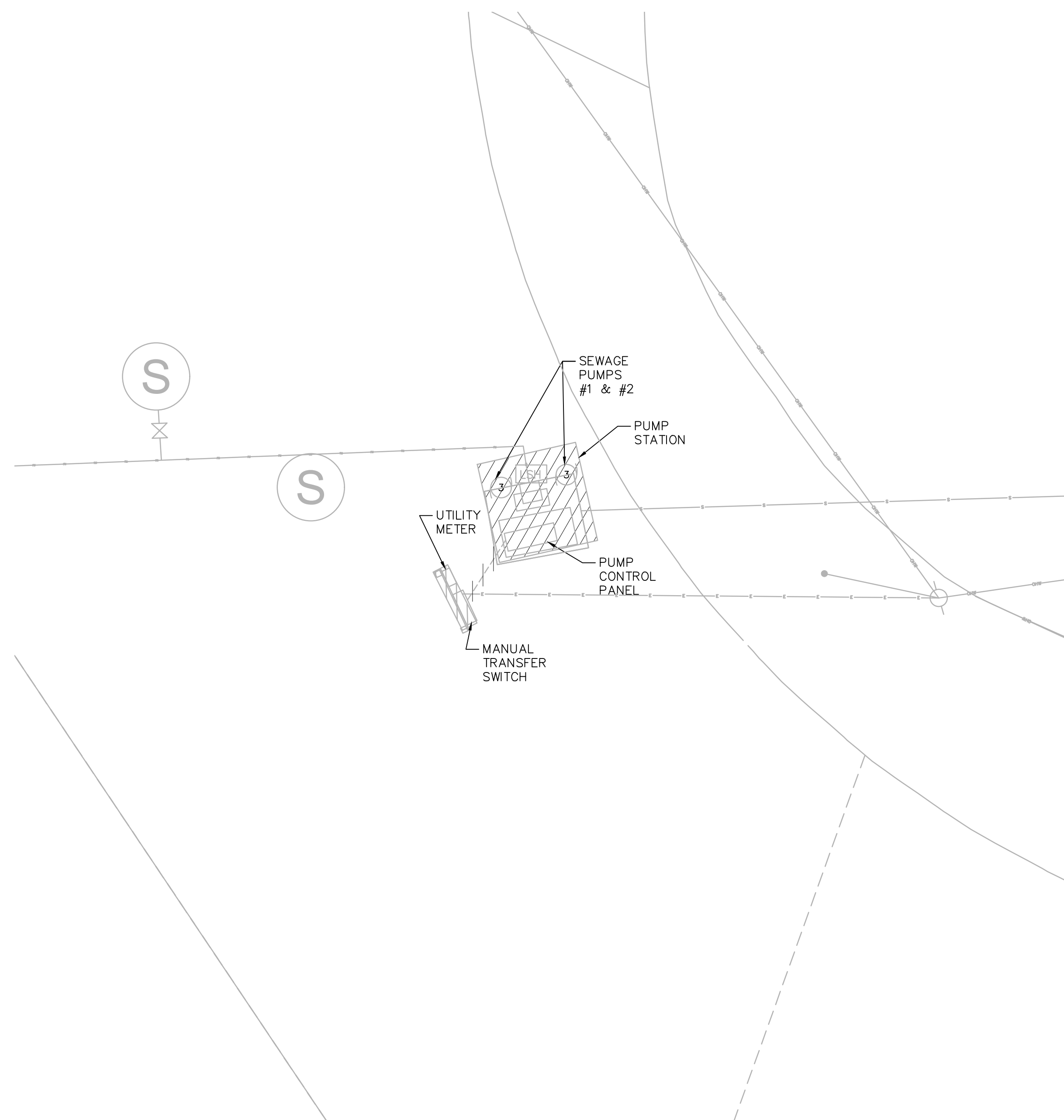
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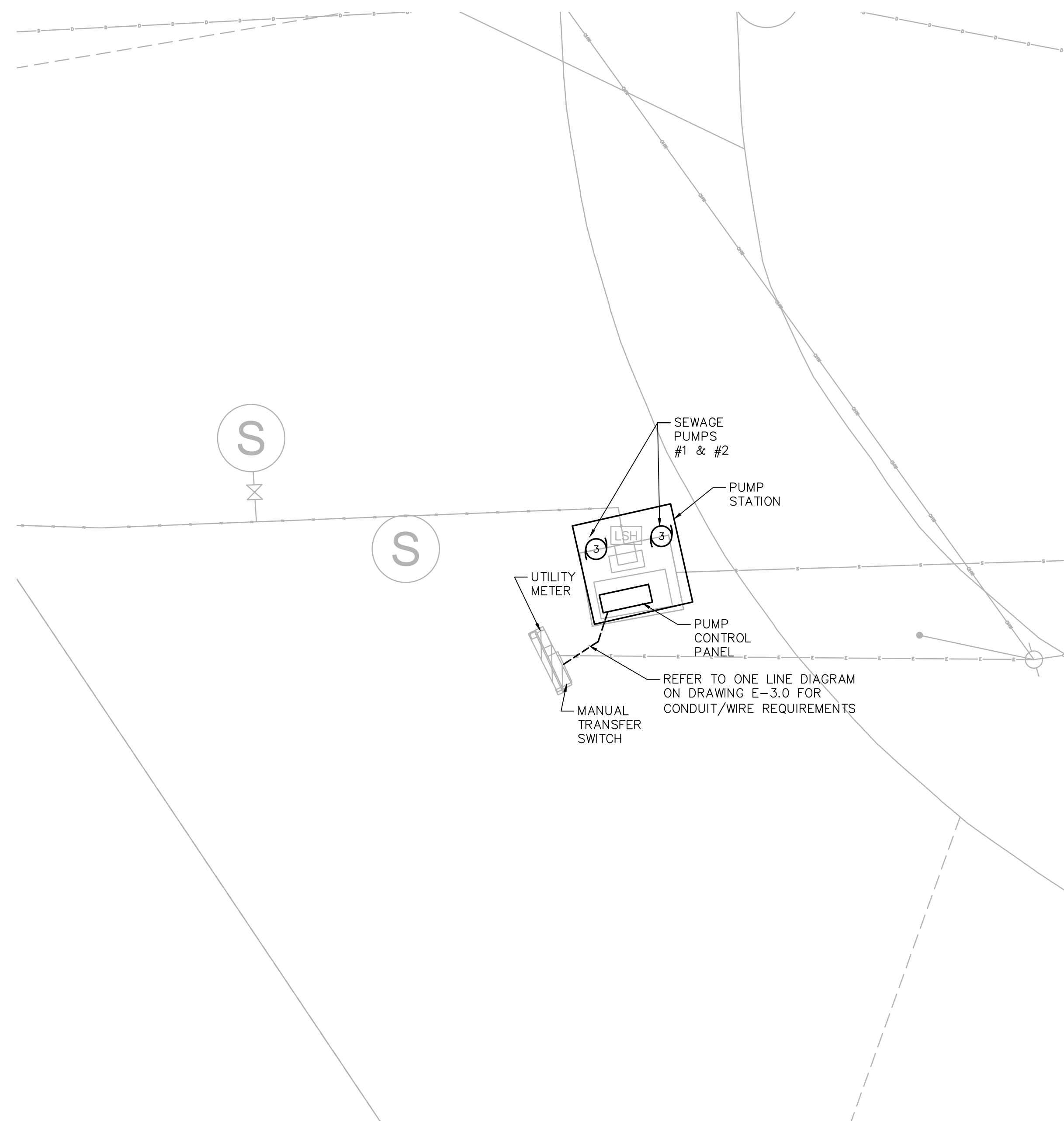
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E-3.0



**WELLESLEY CIRCLE PUMP STATION
DEMOLITION PLAN**
SCALE: 1" = 8'-0"



**WELLESLEY CIRCLE PUMP STATION
NEW WORK PLAN**
SCALE: 1" = 8'-0"

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**2023 Pump Station
Improvements**

Taunton, MA

TITLE

**WELLESLEY CIRCLE
PUMP STATION**

**Electrical
Plan**

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PROJECT

2023 Pump Station
Improvements

Taunton, MA

TITLE

SCHOOL STREET
PUMP STATION

Electrical
One Line Diagrams

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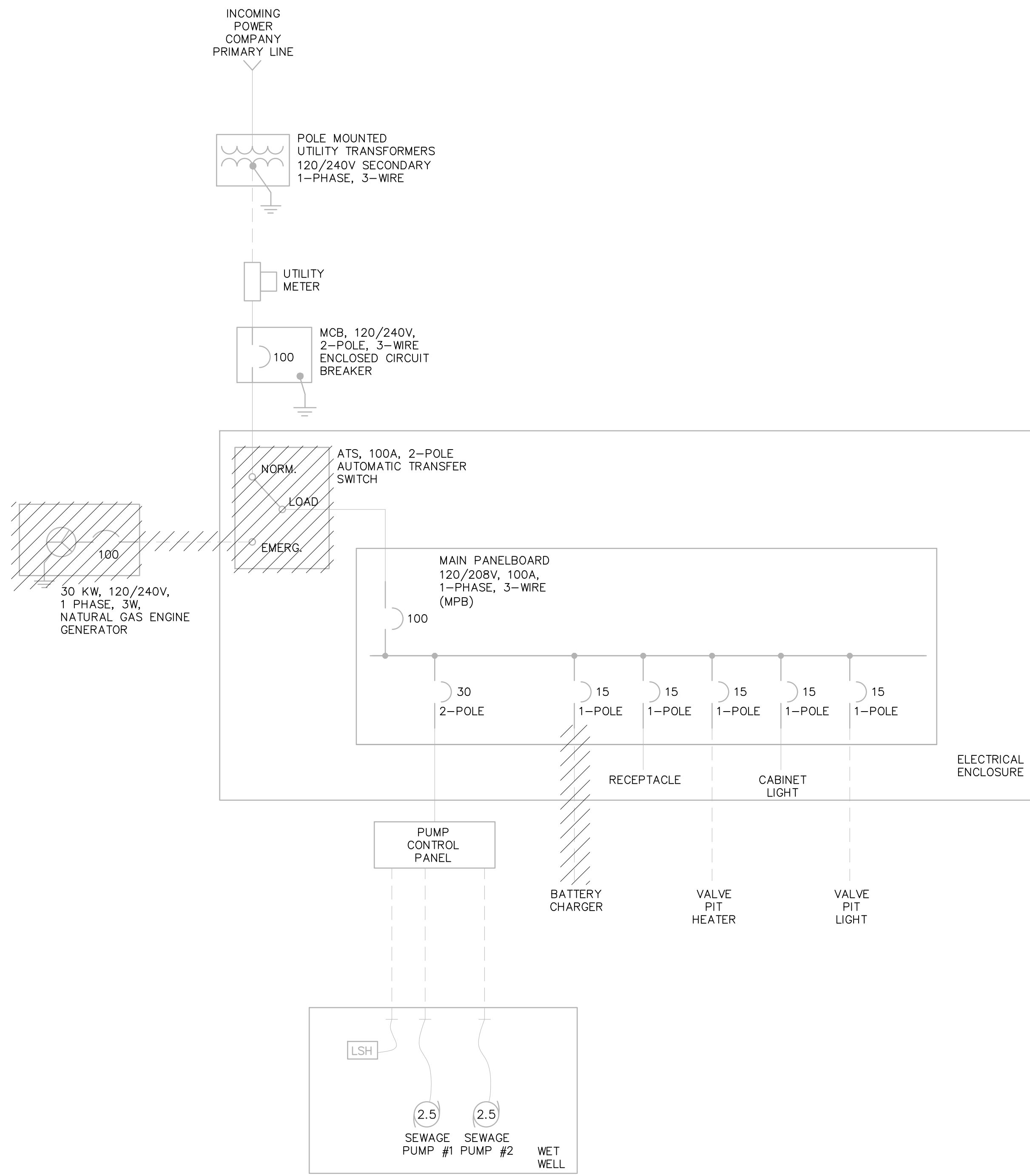
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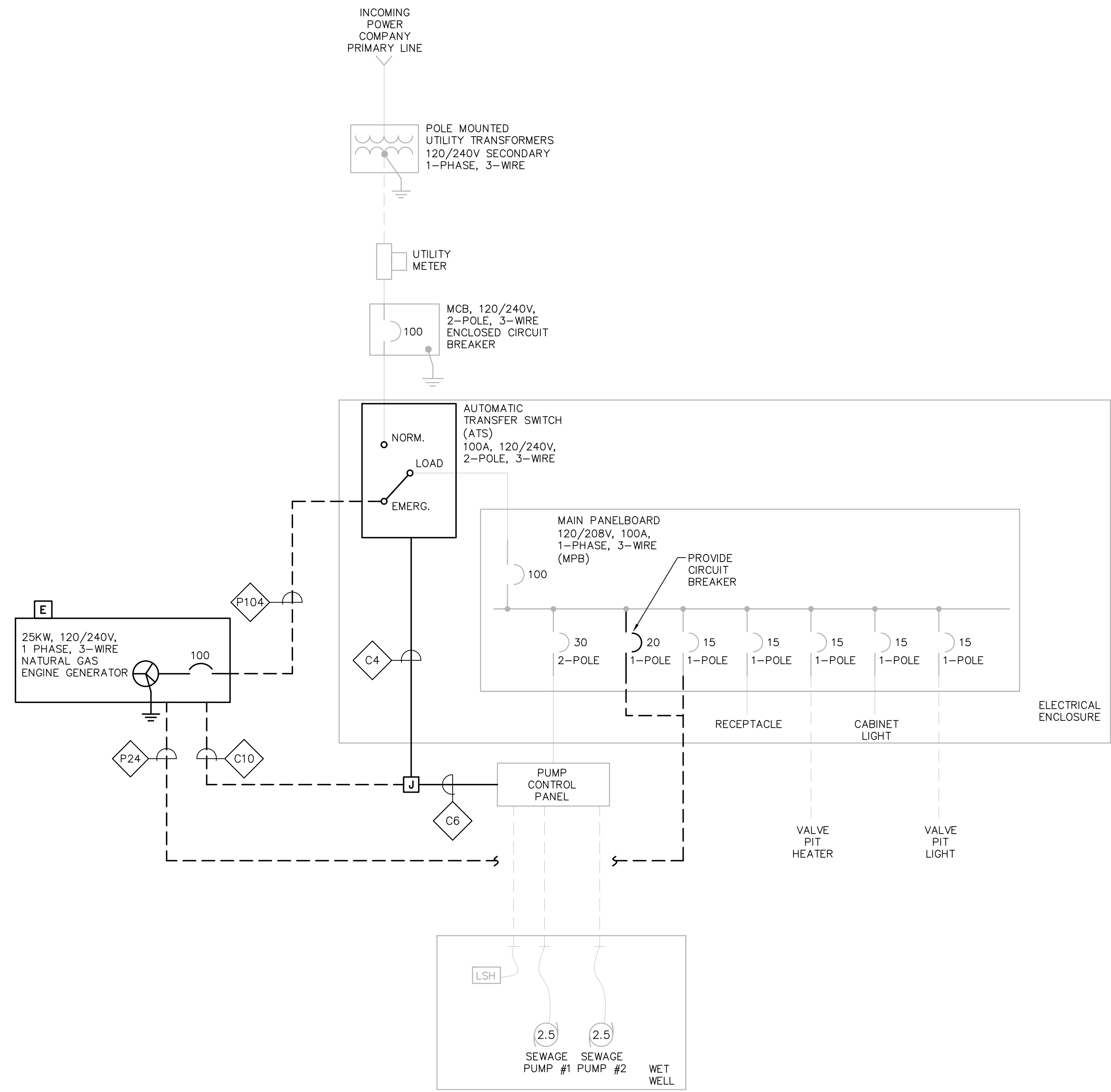
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E-4.0



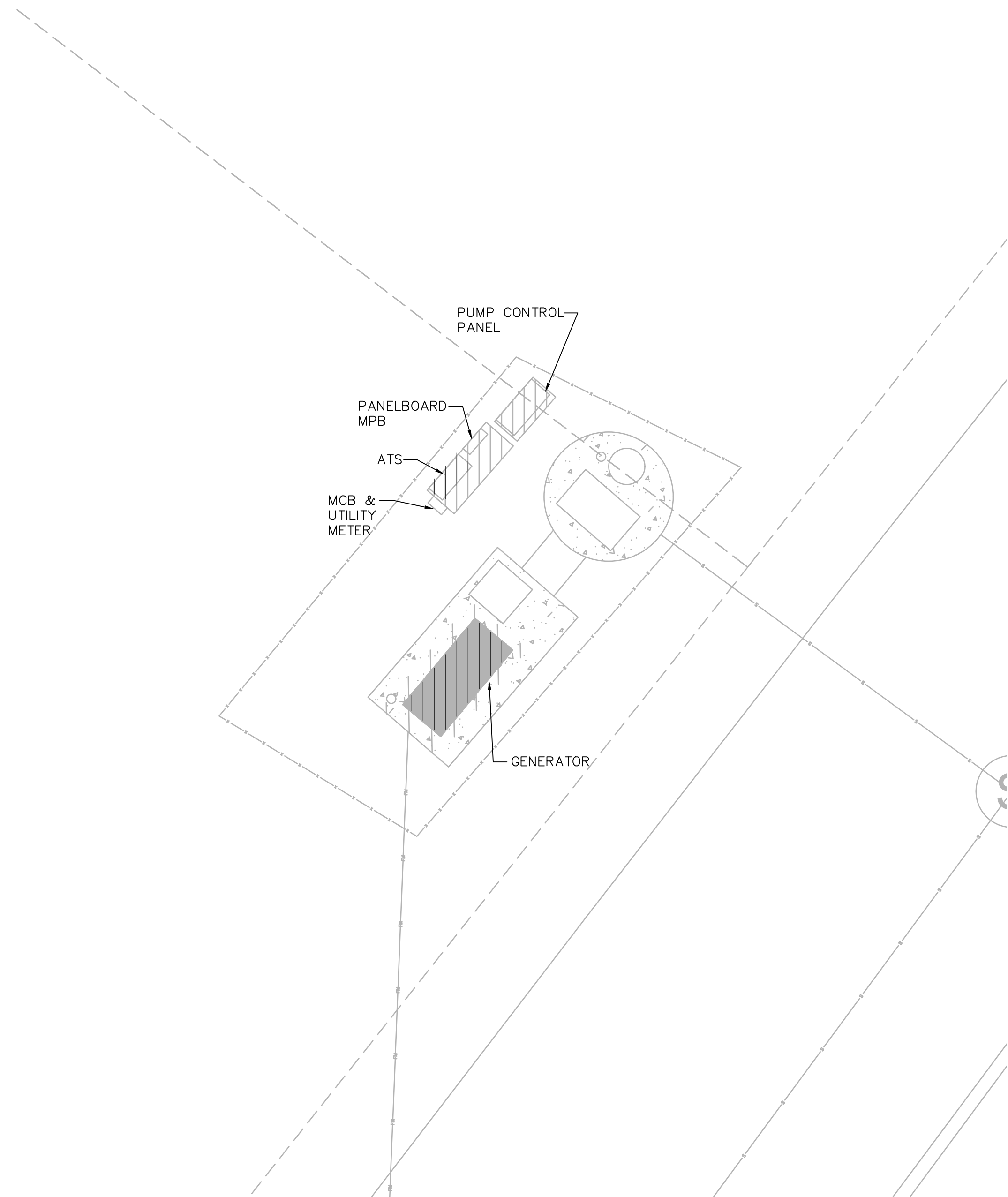
SCHOOL STREET DEMOLITION ONE LINE DIAGRAM

NOT TO SCALE

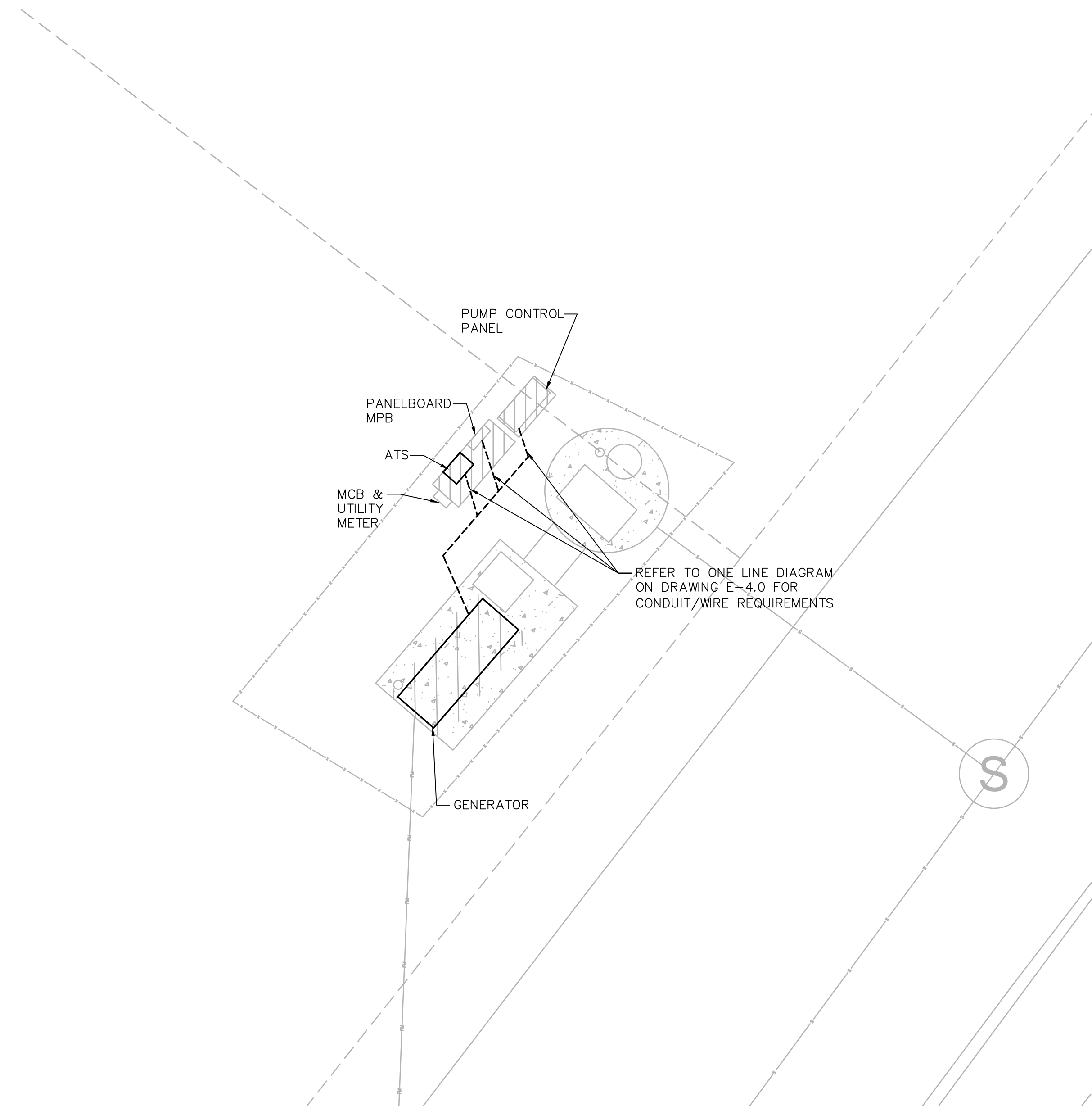


SCHOOL STREET ONE LINE DIAGRAM

NOT TO SCALE



**SCHOOL STREET PUMP STATION
DEMOLITION PLAN**
SCALE: 1" = 5'-0"



**SCHOOL STREET PUMP STATION
NEW WORK PLAN**
SCALE: 1" = 5'-0"

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PROJECT

**2023 Pump Station
Improvements**

Taunton, MA

TITLE

**SCHOOL STREET
PUMP STATION**

**Electrical
Plan**

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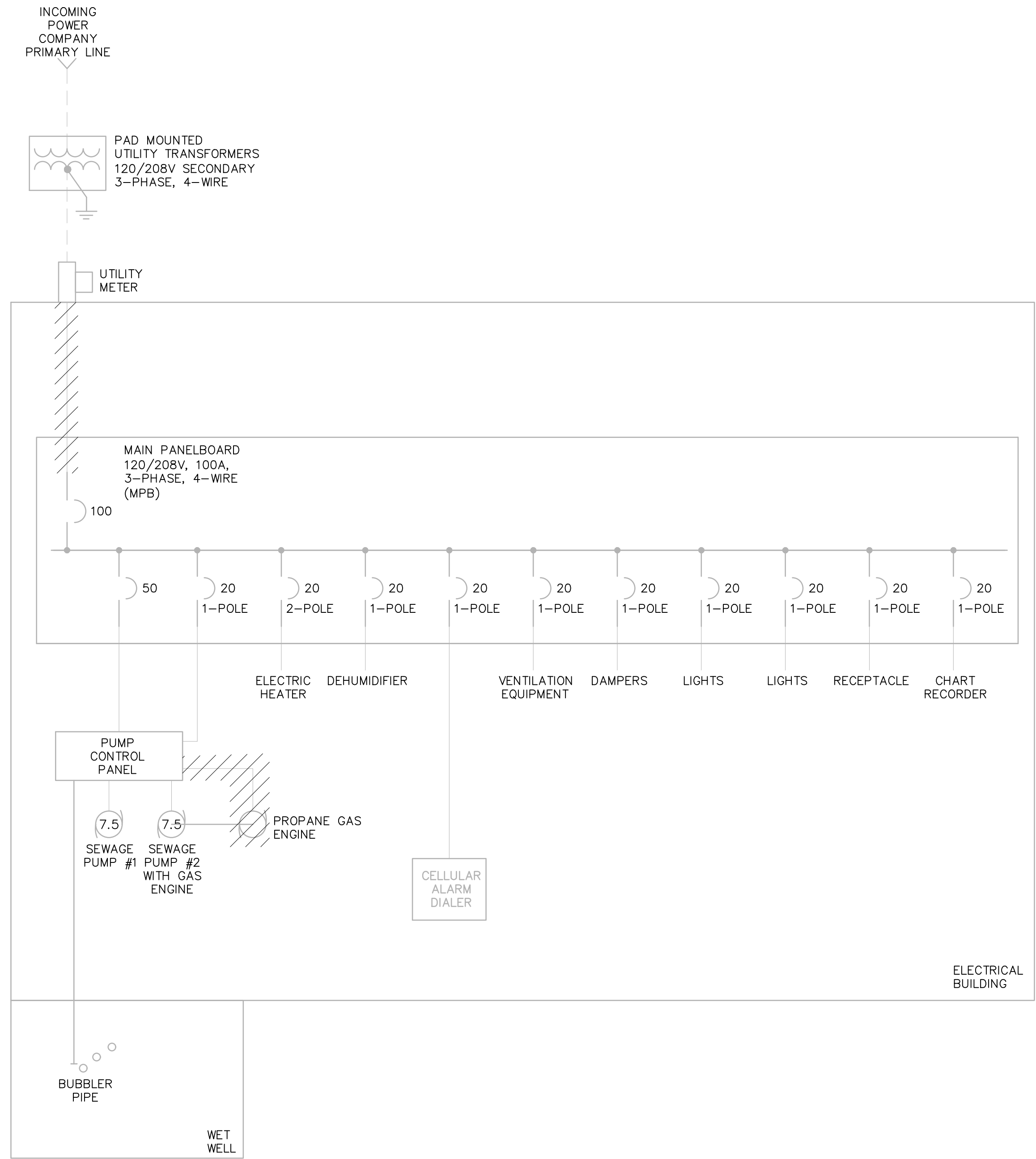
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E-4.1



STEVENSON DEMOLITION ONE LINE DIAGRAM
NOT TO SCALE

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2023 Pump Station Improvements

Taunton, MA

TITLE

STEVENS STREET PUMP STATION

Electrical Demolition
One Line Diagram

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Taunton, MA

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STEVENS STREET PUMP STATION

Electrical
One Line Diagram

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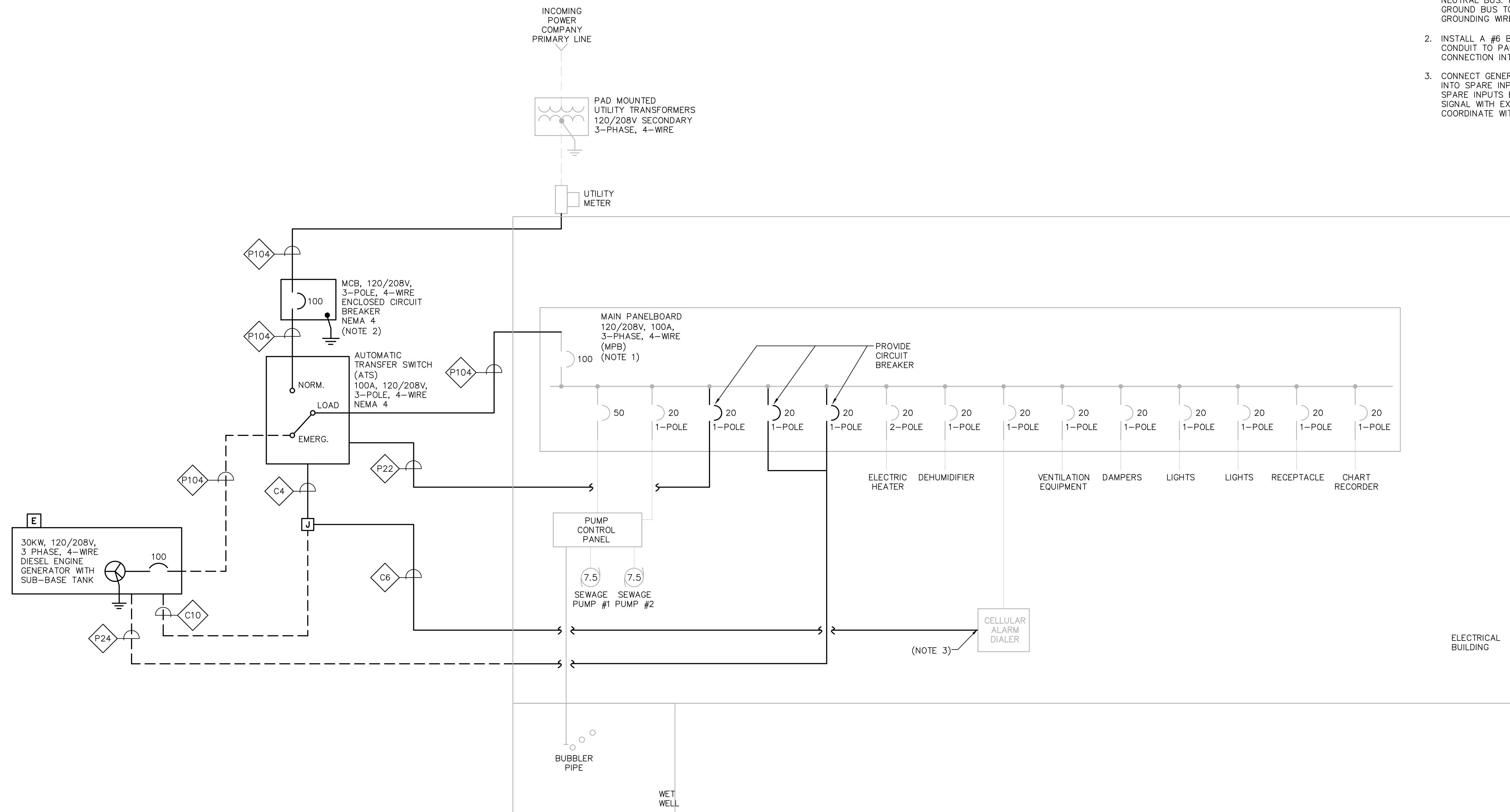
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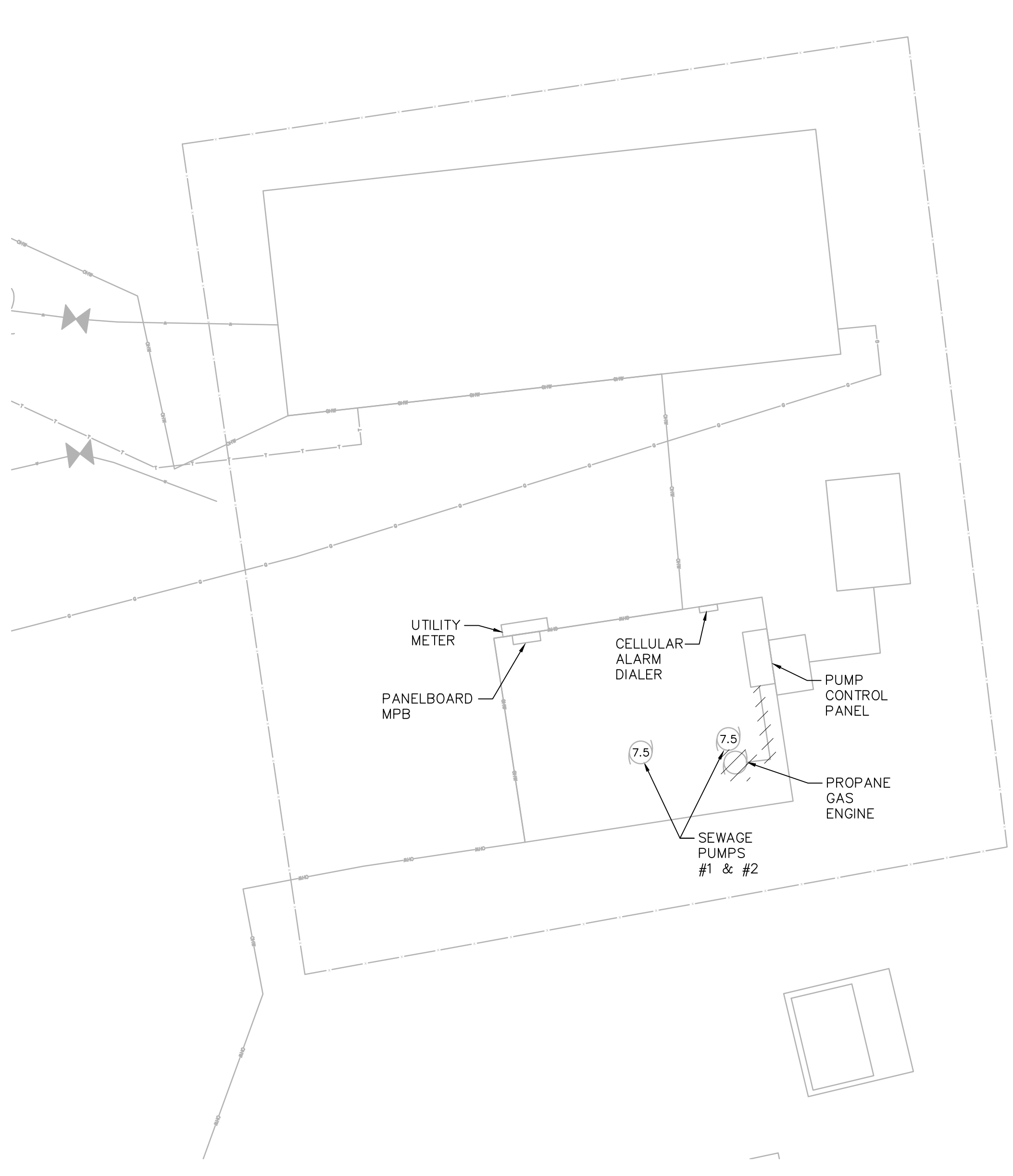
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NOTES:

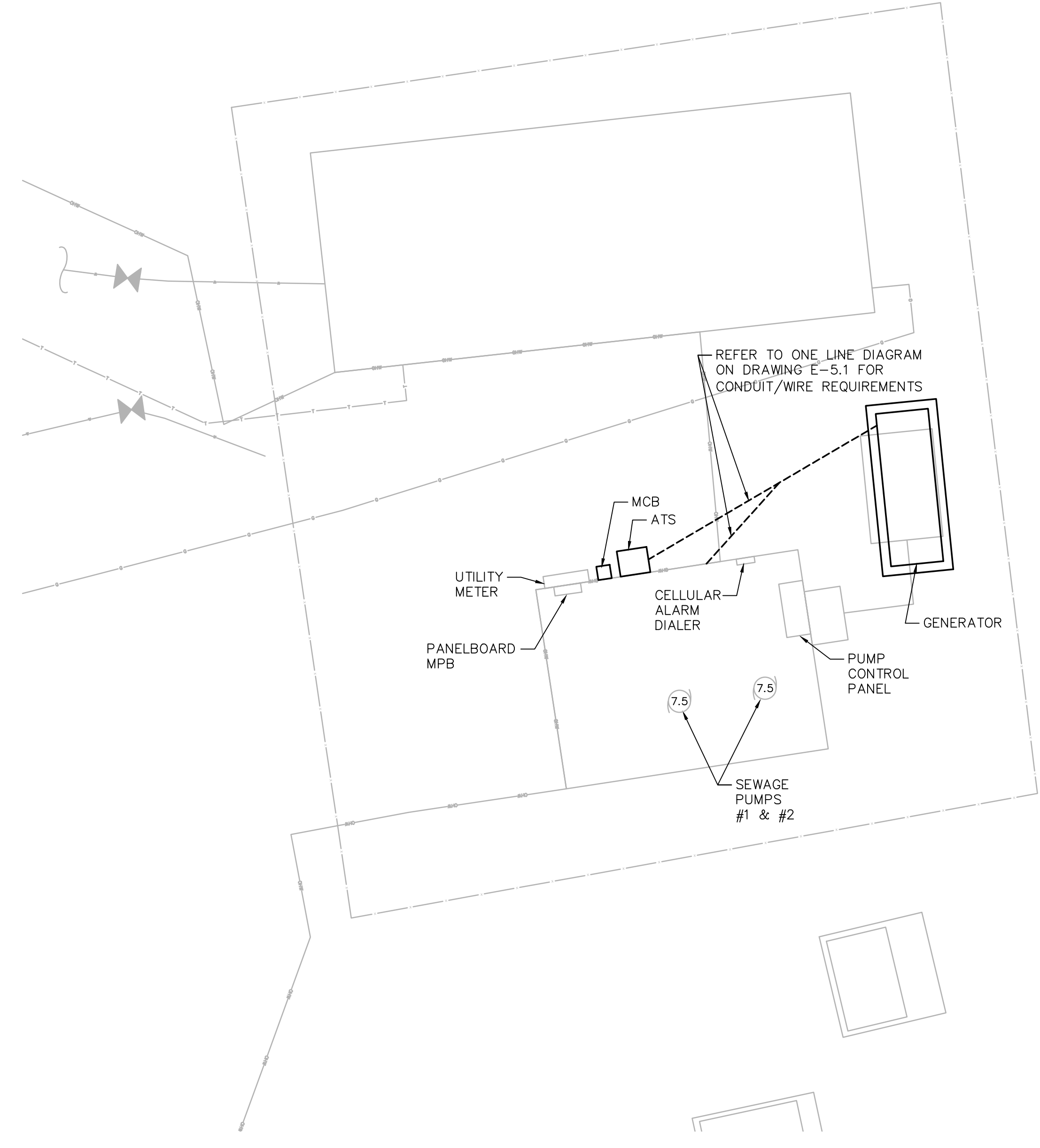
1. DISCONNECT PANELBOARD GROUNDING BUS FROM NEUTRAL BUS. RELOCATE ANY NEUTRAL WIRES FROM GROUND BUS TO NEUTRAL BUS. RELOCATE ANY GROUNDING WIRES FROM NEUTRAL BUS TO GROUND BUS.
2. INSTALL A #6 BARE COPPER GROUNDING WIRE IN 1" CONDUIT TO PANELBOARD MPB GROUNDING BUS FOR CONNECTION INTO BUILDING EXISTING GROUNDING SYSTEM.
3. CONNECT GENERATOR GENERAL ALARM AND RUN SIGNAL INTO SPARE INPUTS OF THE ALARM DIALER. IF NO SPARE INPUTS EXIST THEN COMMON UP THE ALARM SIGNAL WITH EXISTING PUMP STATION ALARM SIGNAL. COORDINATE WITH OWNER ON THE EXISTING SIGNALS.



STEVENSON ONE LINE DIAGRAM
NOT TO SCALE



STEVENS STREET PUMP STATION
DEMOLITION PLAN
SCALE: 1" = 5'-0"



STEVENS STREET PUMP STATION
NEW WORK PLAN
SCALE: 1" = 5'-0"

PREPARED BY



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**2023 Pump Station
Improvements**

Taunton, MA

TITLE

**STEVENS STREET
PUMP STATION**

Electrical
Plan

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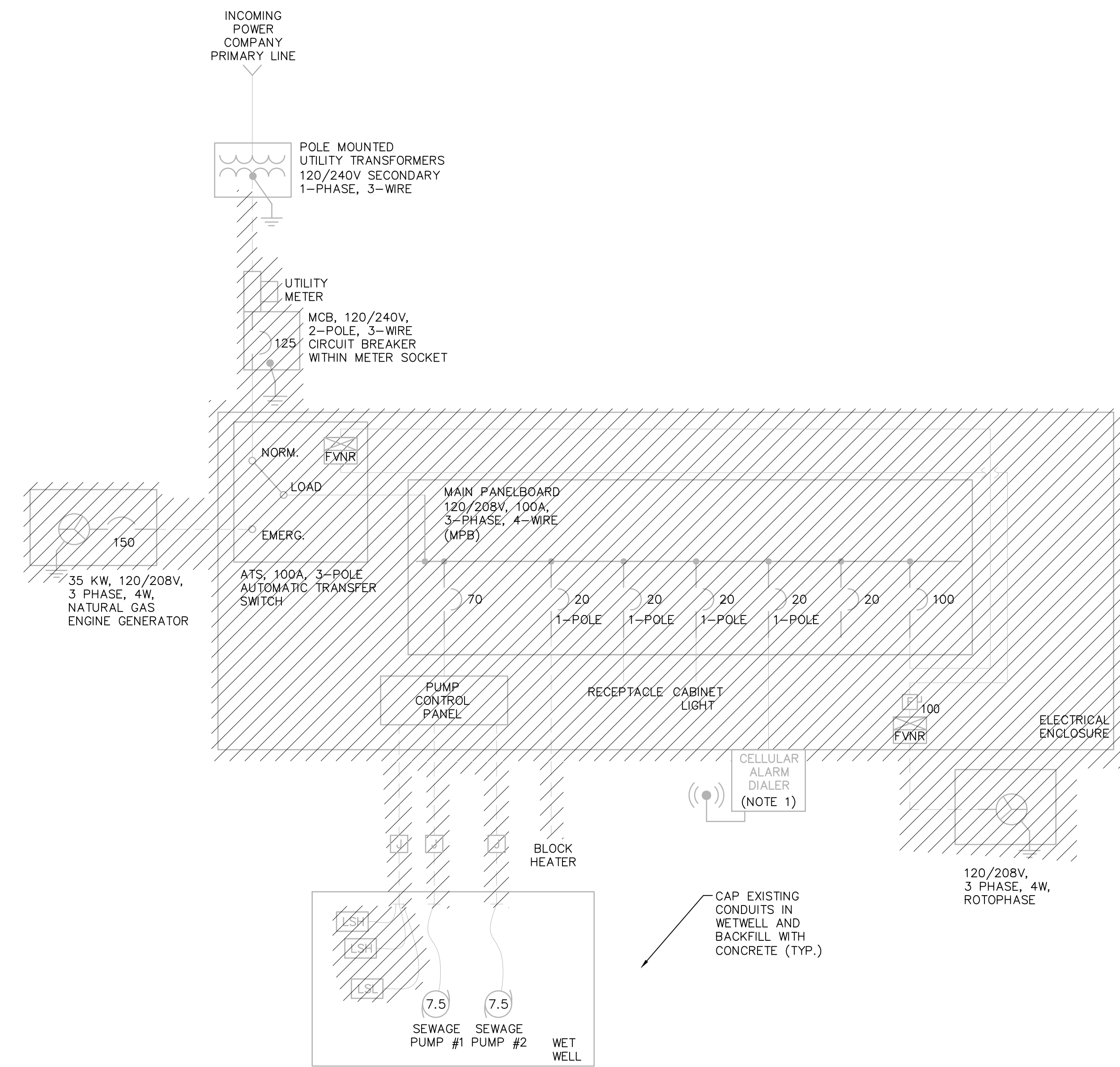
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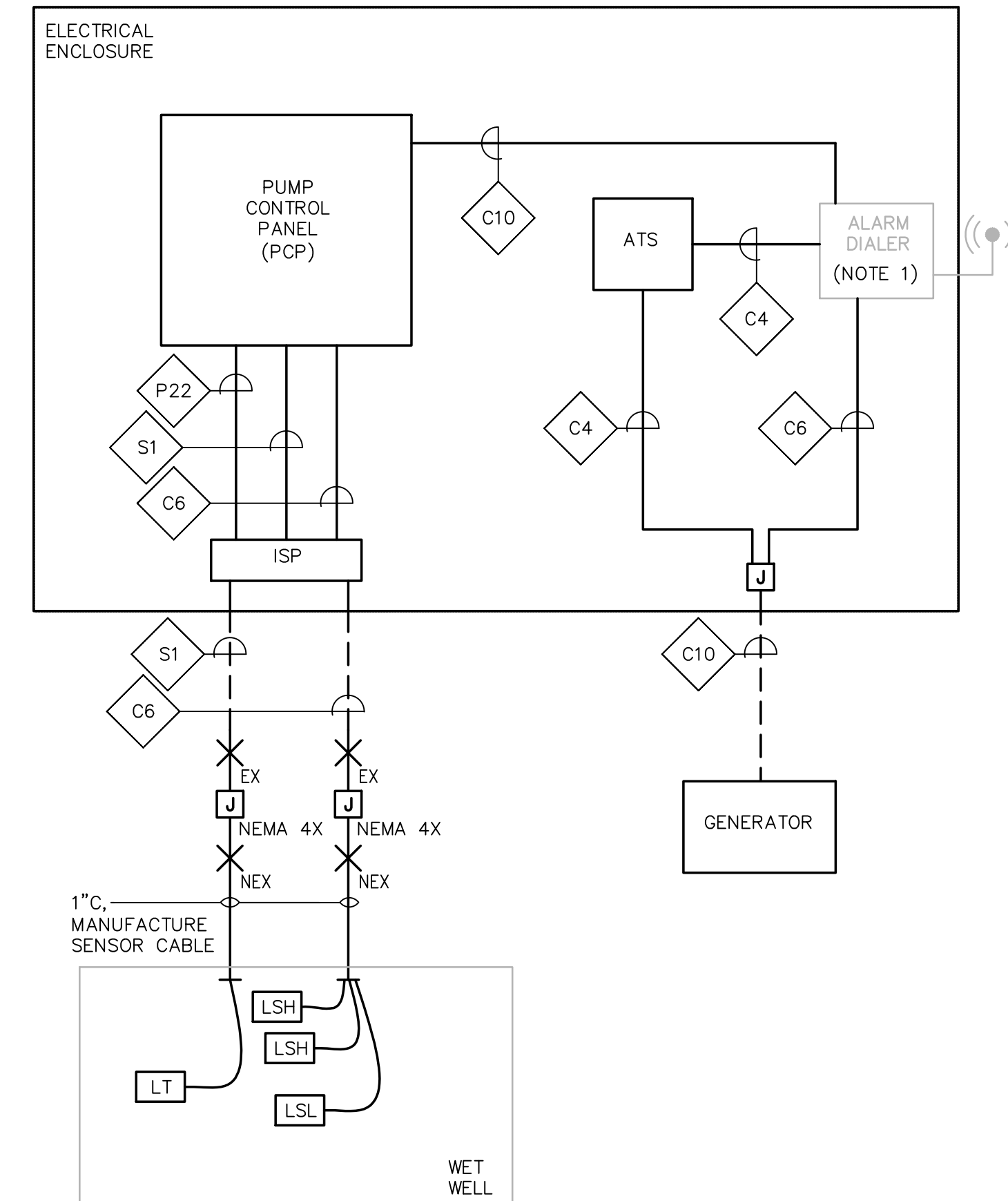
SHEET NO.

E-5.2



DAVIS STREET DEMOLITION ONE LINE DIAGRAM
NOT TO SCALE

NOTES:
1. ALARM DIALER, ANTENNA, ANTENNA MOUNT, AND ANTENNA CABLE TO BE SALVAGED AND REINSTALLED IN NEW ELECTRICAL ENCLOSURE.



DAVIS STREET CONTROL BLOCK DIAGRAM
NOT TO SCALE

PREPARED BY



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2023 Pump Station Improvements

Taunton, MA

TITLE

DAVIS STREET PUMP STATION

Electrical Demolition
One Line Diagram

NO.	REVISIONS	DATE

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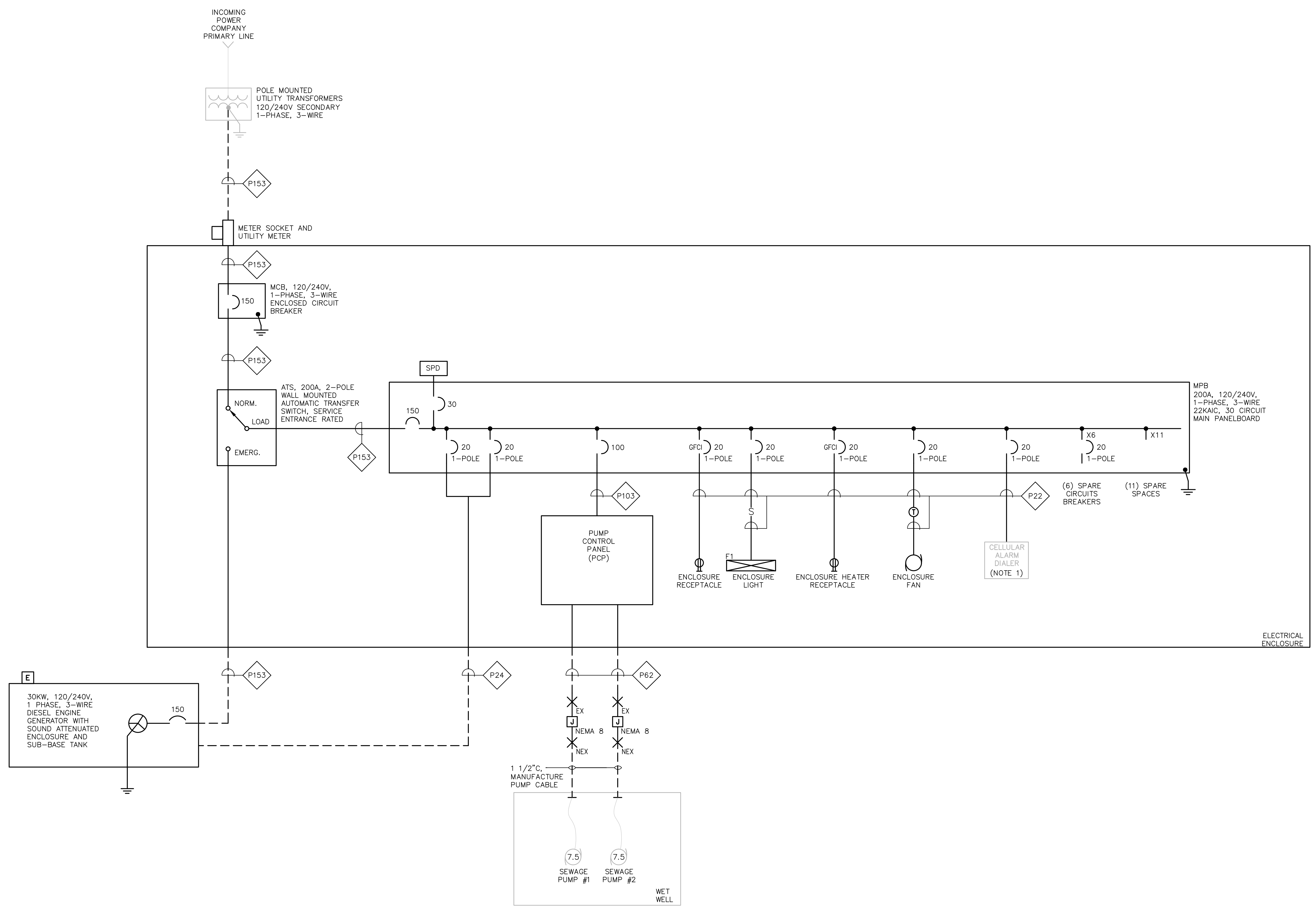
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SHEET NO.

E-6.0



DAVIS STREET ONE LINE DIAGRAM
NOT TO SCALE


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PROJECT

2023 Pump Station Improvements

Taunton, MA

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DAVIS STREET PUMP STATION

Electrical One Line Diagram

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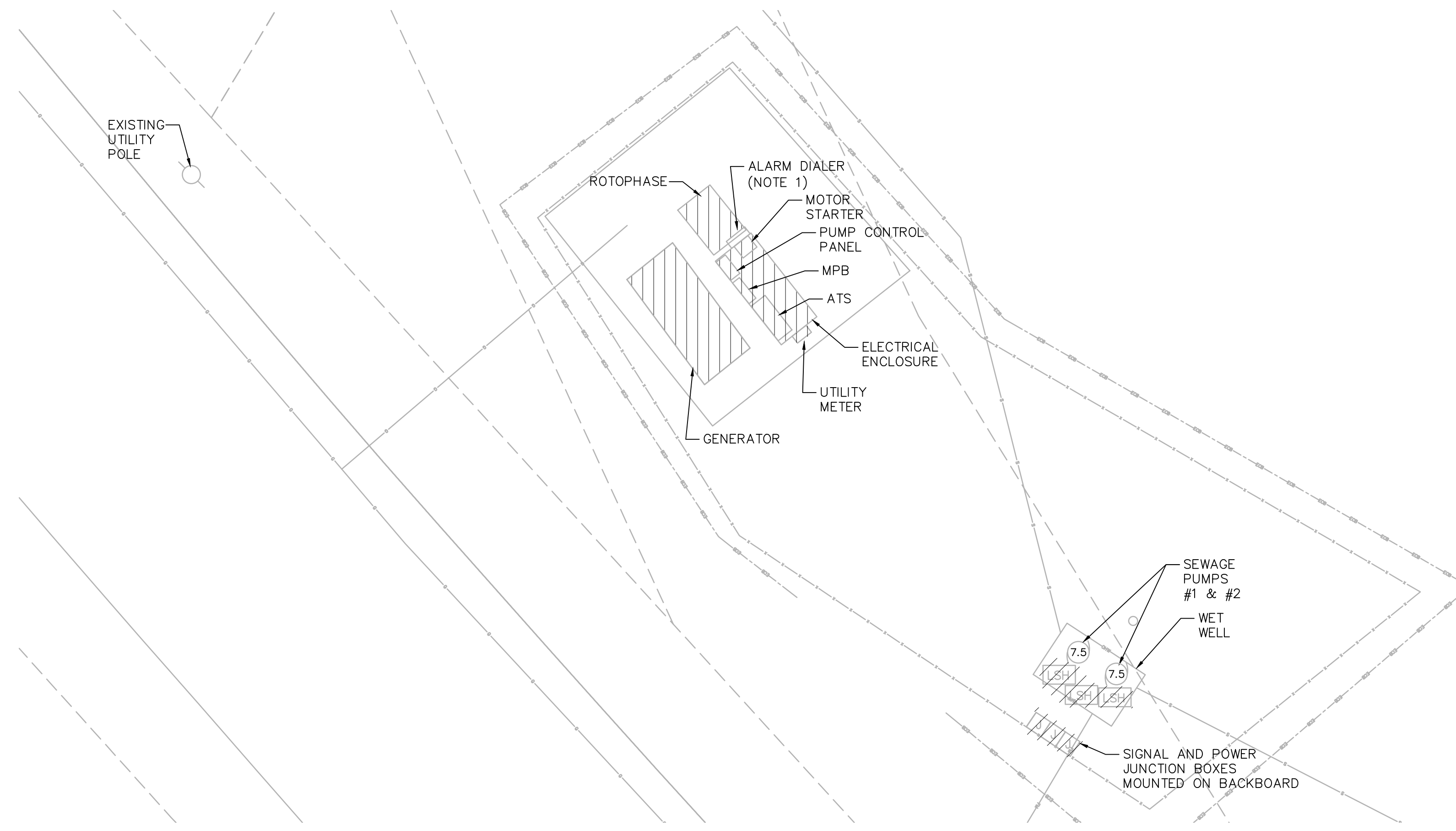
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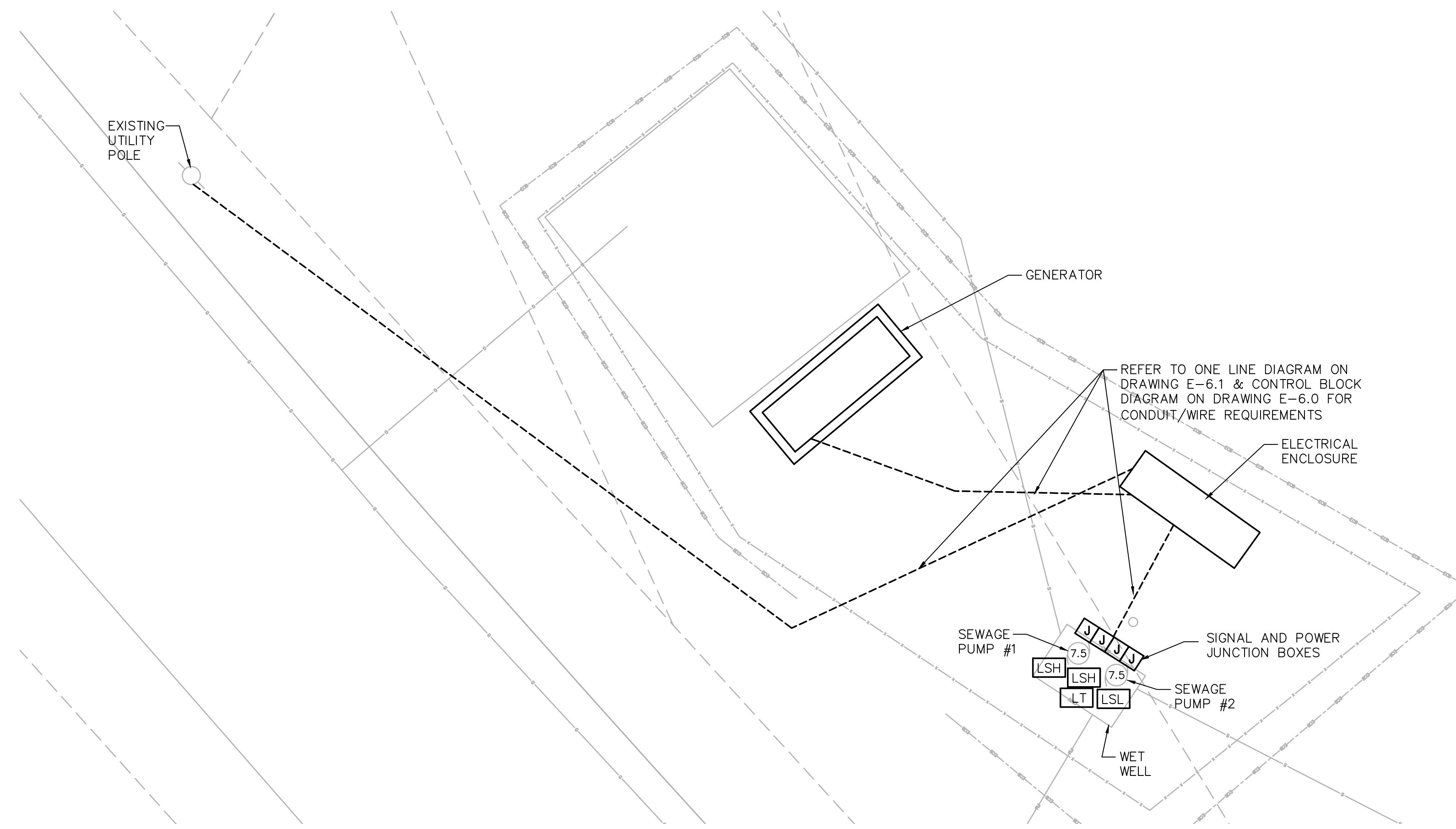
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E-6.1



**DAVIS STREET PUMP STATION
DEMOLITION PLAN**
SCALE: 1" = 5'-0"



**DAVIS STREET PUMP STATION
NEW WORK PLAN**
SCALE: 1" = 5'-0"

NOTES:

1. ALARM DIALER, ANTENNA, ANTENNA MOUNT, AND ANTENNA CABLE TO BE SALVAGED AND REINSTALLED IN NEW ELECTRICAL ENCLOSURE.

PREPARED BY



REGISTERED PROFESSIONAL

SUBCONSULTANT



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PROJECT

**2023 Pump Station
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**DAVIS STREET
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Electrical
Plan

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E-6.2

NOTES:

- DISCONNECT LOAD SIDE FEEDER WIRES AND RE-CONNECT INTO NEW DISCONNECT SWITCH WITH 4" NIPPLE.
- REMOVE CONTROL WIRING TO SCADA PANEL #2.
- DISCONNECT THE (2) TSP CABLES FROM SCADA PANEL #1 PULL BACK TO ELECTRICAL TROUGH BELOW ATS AND REMOVE FROM EXISTING ATS ENCLOSURE. RE-INSTALL THE (2) TSP CABLES IN 3/4" FROM SCADA PANEL #1 TO ELECTRICAL TROUGH.

PREPARED BY



REGISTERED PROFESSIONAL

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

INDUSTRIAL PARK PUMP STATION

Electrical One Line Diagrams

NO.	REVISIONS	DATE

DRAWN BY: RLB Initials

DESIGNED BY: MC Initials

CHECKED BY: MC Initials

ISSUE DATE: 00/00/15

BETA JOB NO.: 0000-000

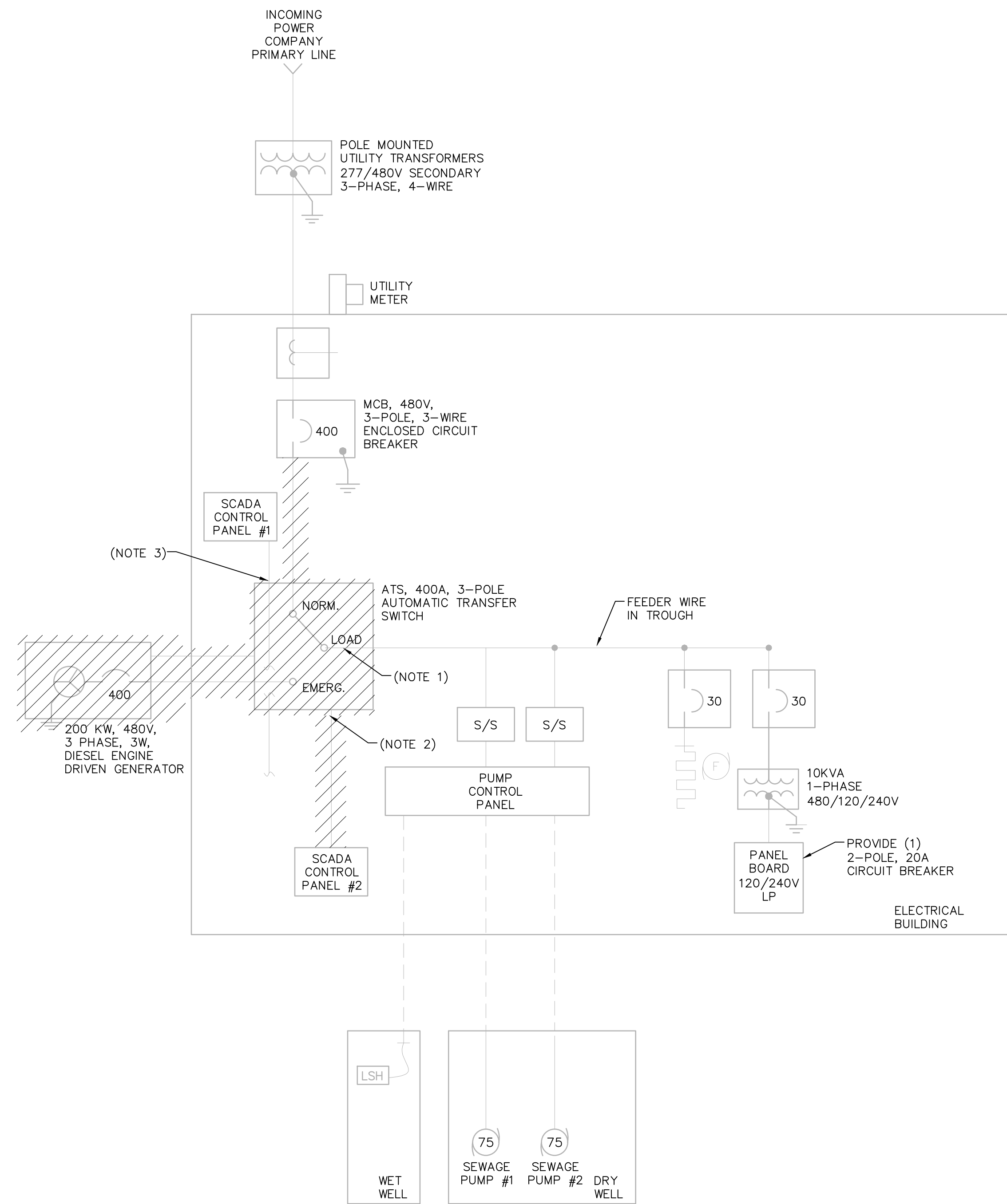
SCALE

AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION
For Review Only

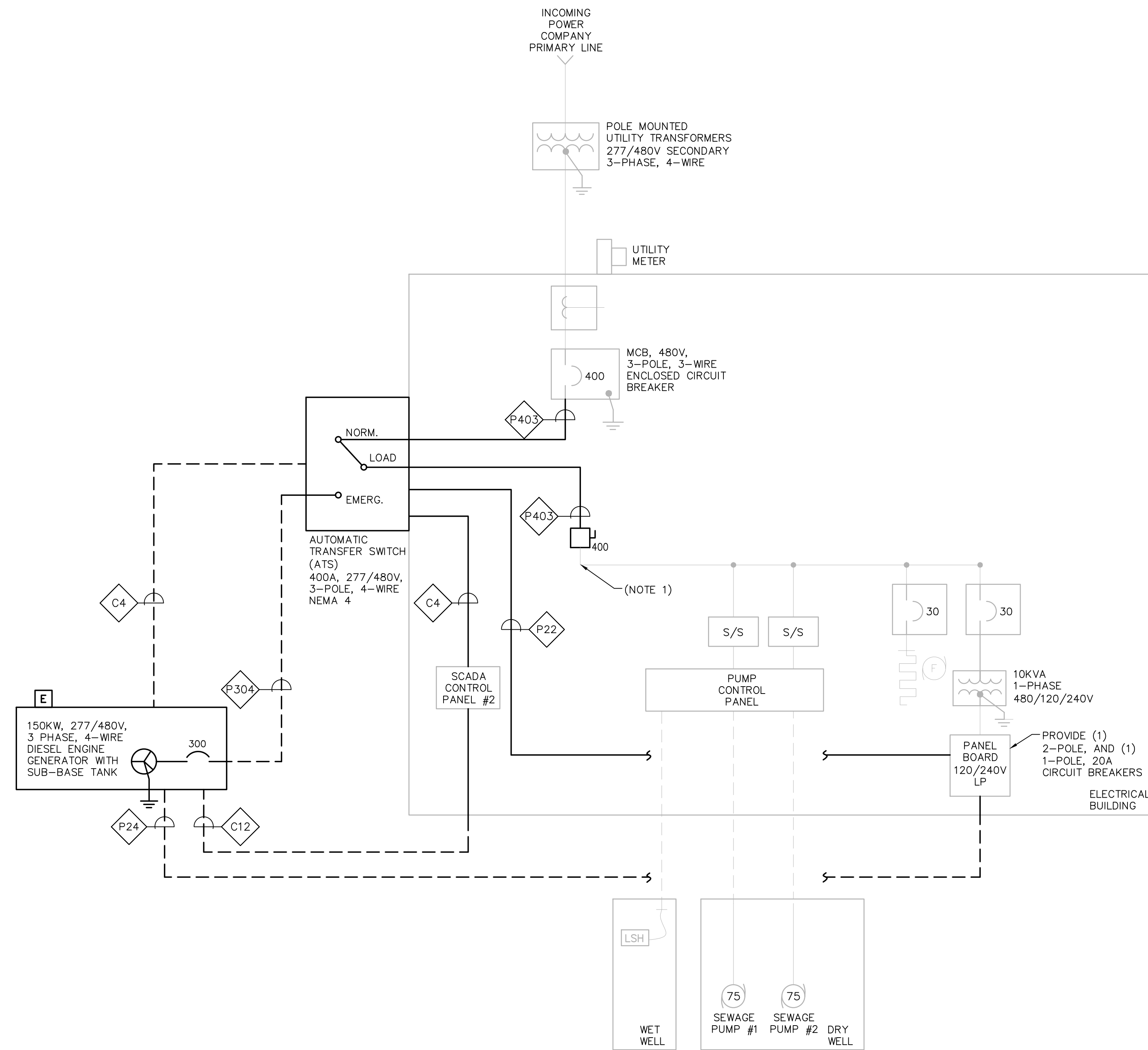
SHEET NO.

E-7.0



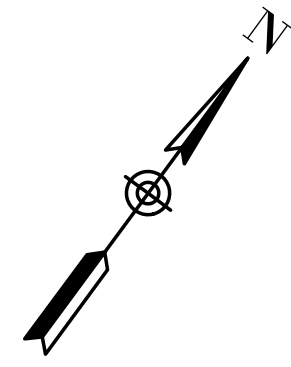
INDUSTRIAL PARK DEMOLITION ONE LINE DIAGRAM

NOT TO SCALE

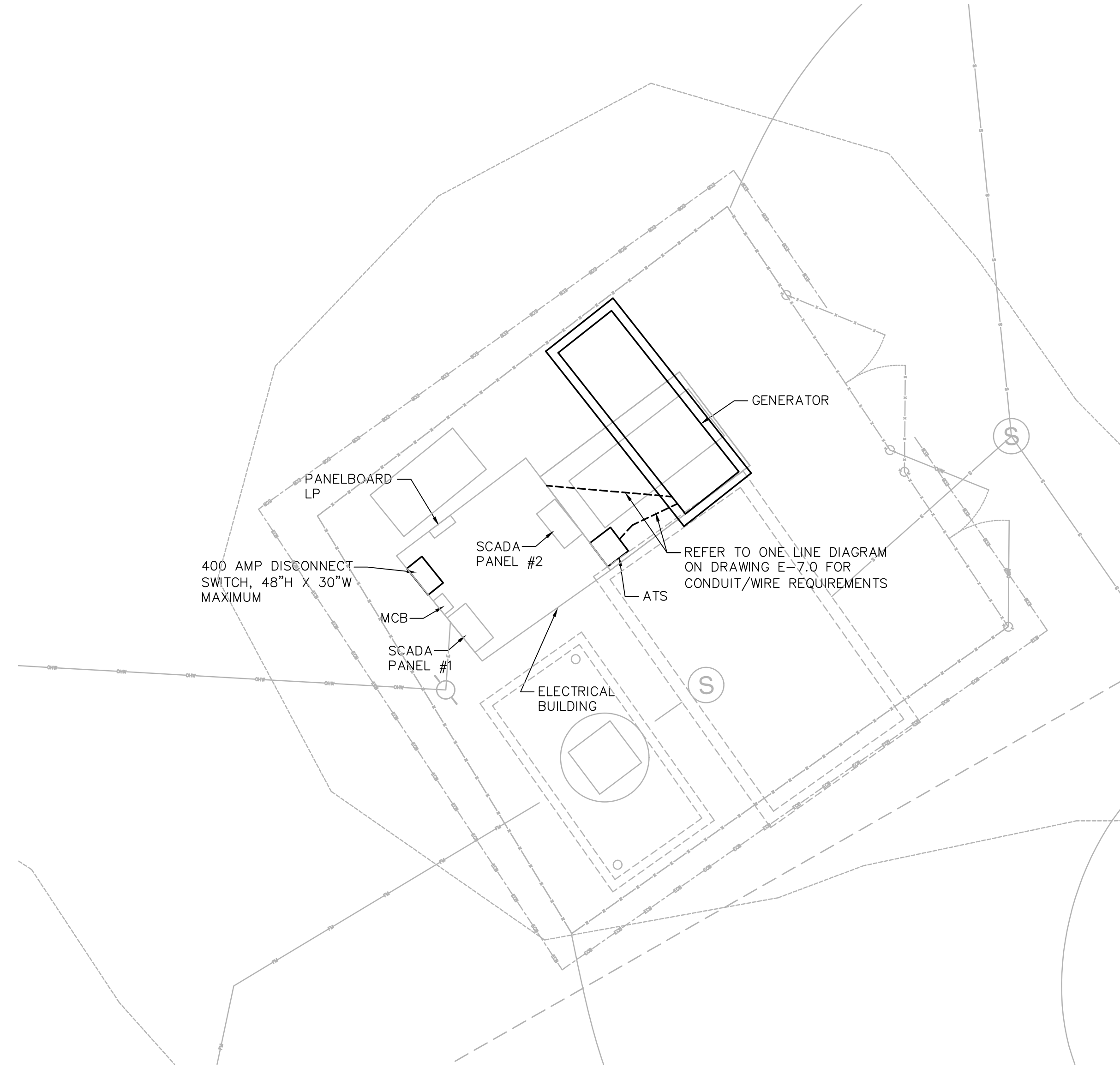


INDUSTRIAL PARK ONE LINE DIAGRAM

NOT TO SCALE



**INDUSTRIAL PARK PUMP STATION
DEMOLITION PLAN**
SCALE: 1" = 5'-0"



**INDUSTRIAL PARK PUMP STATION
NEW WORK PLAN**
SCALE: 1" = 5'-0"

PREPARED BY



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PROJECT

**2023 Pump Station
Improvements**

Taunton, MA

TITLE

**INDUSTRIAL PARK
PUMP STATION**

**Electrical
Plan**

NO.	REVISIONS	DATE

DRAWN BY: RLB Initials

DESIGNED BY: MC Initials

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ISSUE DATE: 00/00/15

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SCALE

AS SHOWN

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E-7.1