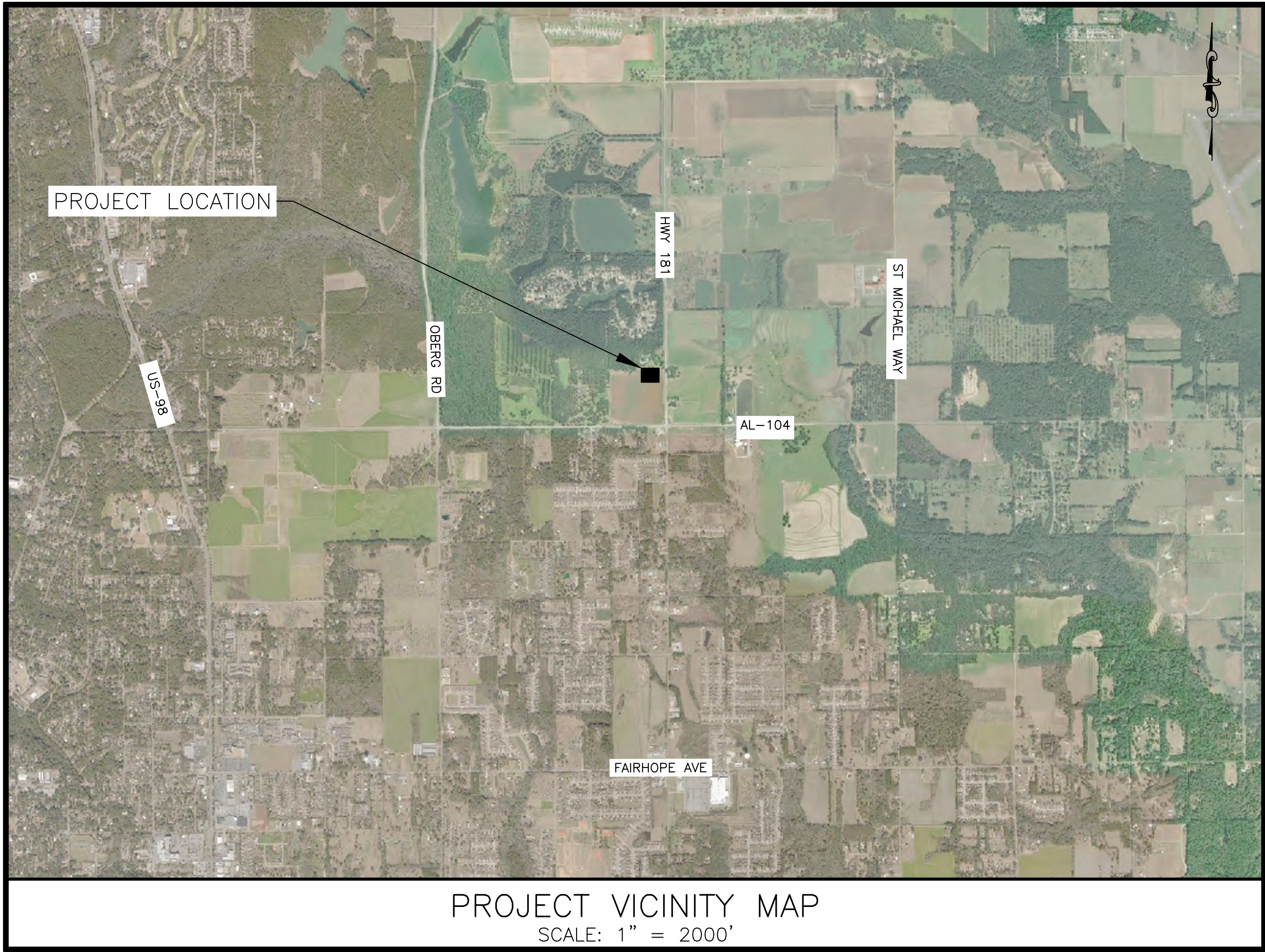


PLANTER'S POINTE LIFT STATION

PREPARED FOR CITY OF FAIRHOPE UTILITIES

MARCH 2023
PROJECT NUMBER 21-1101-0257



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SUBMITTED BY:

MATTHEW C. ROGERS, P.E.



GENERAL NOTES

1. ALL ELEVATIONS REFER TO UNITED STATES GEOLOGICAL SURVEY DATUM. EXISTING TOPOGRAPHIC SURVEY PREPARED BY THOMPSON ENGINEERING DATED 07/29/2021. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS PRIOR TO BEGINNING WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE CONSTRUCTION DRAWINGS.
2. EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF THE LOCATIONS SHOWN ARE CORRECT AND TO DETERMINE IF THERE ARE ADDITIONAL UTILITY LINES THAT ARE NOT SHOWN ON THE PLANS. ALSO, ANY SAFETY MEASURES OR METHODS THAT ARE NECESSARY TO PROTECT ALL EXISTING UTILITY LINES DURING CONSTRUCTION WILL BE THE CONTRACTOR'S RESPONSIBILITY WITH NO ADDITIONAL COMPENSATION.
3. STANDARD SPECIFICATIONS FOR STREETS AND DRAINAGE: REFERENCE IS MADE TO THE ALABAMA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2018 EDITION. ALL PROVISIONS OF SAID STANDARD SPECIFICATIONS SHALL APPLY TO THIS CONTRACT AND ARE HEREBY MADE A PART OF THIS CONTRACT, EXCEPT WHEN THE PROVISIONS HEREON OR THE PLANS ARE CLEARLY IN CONFLICT WITH THE PROVISIONS OF SAID STANDARD SPECIFICATIONS, THE PROVISIONS HEREON AND THE PLANS SHALL GOVERN.
4. THE CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO CONSTRUCTION OR FABRICATION.
5. THE CIVIL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND ANY APPLICABLE SPECIFICATIONS. CONTRACTOR IS DIRECTED TO NOTIFY THE ENGINEER OF RECORD IMMEDIATELY IF ANY CONFLICT IS FOUND BETWEEN THE CIVIL PLANS AND THE PLANS OF OTHER DISCIPLINES.
6. THE CONTRACTOR SHALL OBTAIN THE PERMISSION AND APPROVAL FOR ALL PROPOSED SUBCONTRACTORS AND SHALL BE RESPONSIBLE FOR ALL PHASES OF THE PROJECT INCLUDING THE SUBCONTRACTORS' WORK.
7. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS.
8. ALL UNPAVED AREAS THAT HAVE BEEN GRADED, CUT, OR FILLED SHALL BE TREATED WITH A SUITABLE COMMERCIAL FERTILIZER IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION 2018 STANDARD SPECIFICATIONS, AND SEEDED WITH A MIXTURE TO SUIT THE PLANTING ZONE (652.03) AND DATE OF PLANTING (860.01) PER ALABAMA DEPARTMENT OF TRANSPORTATION 2018 STANDARD SPECIFICATIONS. A FIRM STAND OF PERMANENT GRASS WILL BE REQUIRED.
9. ALL CONCRETE USED ON THE PROJECT SHALL BE 3,000 PSI MINIMUM COMPRESSIVE STRENGTH REQUIRED IN 28 DAYS, UNLESS SPECIFICATIONS REQUIRE CONCRETE OF GREATER STRENGTH.
10. UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED. THE UTILITIES SHOWN MAY NOT BE A COMPLETE REPRESENTATION OF ALL UTILITY LINES IN THE PROJECT AREA. CONTRACTOR IS REQUIRED TO CONTACT ALABAMA ONE CALL PRIOR TO DIGGING (611) (WWW.ALICALL.COM). OTHER UTILITIES (INCLUDING PRIVATE UTILITIES OUTSIDE A PUBLIC RIGHT-OF-WAY) THAT DO NOT PARTICIPATE IN THE ALABAMA ONE CALL LINE LOCATION SERVICE NEED TO BE CONTACTED INDIVIDUALLY AND/OR PHYSICALLY LOCATED BY THE CONTRACTOR.
11. SUB-GRADE AND BASE SHALL BE COMPACTED TO THE REQUIREMENTS OF ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED.
12. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPER COMPACTION ON ANY AND ALL UTILITY DITCHES.
13. ALL FILL AND EMBANKMENT CONSTRUCTION SHALL BE COMPACTED AS REQUIRED IN LAYERS NOT TO EXCEED 8".
14. ALL EXCESS UNCLASSIFIED EXCAVATION IS TO BE UTILIZED FOR CONSTRUCTION OF EMBANKMENTS AND SLOPES NOT DIRECTLY UNDER THE TRAVEL WAY OR PARKING AREAS PRIOR TO USING ANY OFFSITE BORROW EXCAVATION. AFTER CONSTRUCTION OF SUCH AREAS IS COMPLETED, EXCESS EXCAVATION SHALL BE SPREAD AS DIRECTED BY THE ENGINEER, OR AT THE ENGINEER'S DIRECTION, HAULED FROM THE SITE AT NO ADDITIONAL PAYMENT.
15. ALL SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND FULLY FUNCTIONING PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ACTIVITY.
16. ALL SLOPES MUST BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EXCESSIVE EROSION.
17. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER.
18. HIGH INTENSITY LIGHTING FACILITIES SHALL BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM PUBLIC VIEW AND FROM ADJACENT RESIDENTIAL PROPERTY AND DOES NOT INTERFERE WITH TRAFFIC.
19. CONTRACTOR IS REQUIRED TO USE "BEST MANAGEMENT PRACTICES" COMPLIANT WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS", ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, MONTGOMERY, ALABAMA, VOLUMES 1 & 2, 2018 EDITION, TO PREVENT SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE.
20. ALL MATERIALS AND WORKMANSHIP WITHIN A STATE OR COUNTY RIGHT-OF-WAY SHALL CONFORM TO THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2018 EDITION.
21. THE CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE TESTING LABORATORY OF HIS WORKING SCHEDULE IN ORDER THAT THE PROPER SAMPLE MAY BE OBTAINED AND TEST MADE.

LEGEND

EXISTING

- P.O.C. POINT OF COMMENCEMENT
- P.O.B. POINT OF BEGINNING
- (A) ACTUAL
- (R) RECORD DEED
- (P) PLAT OF RECORD
- (C) COMPUTED
- OTIF OPEN TOP IRON PIPE FOUND
- IPF IRON PIN FOUND
- CTIF CRIMP TOP IRON PIPE FOUND
- CRF CAPPED REBAR FOUND
- RBF 1/2" REBAR FOUND
- CRS 1/2" CAPPED REBAR SET STAMPED CA#604
- CMF CONCRETE MONUMENT FOUND
- CMS CONCRETE MONUMENT SET
- LS# LICENSED PROFESSIONAL SURVEYOR'S NUMBER
- CA# CERTIFICATE OF AUTHORIZATION NUMBER
- (DIST) DISTURBED
- (REF) REFERENCE CORNER SET ON LINE
- (UNR) UNREADABLE
- INST # INSTRUMENT NUMBER
- SECT. SECTION
- T- TOWNSHIP
- R- RANGE
- O- POWER POLE
- ← GUY WIRE
- R/W RIGHT-OF-WAY
- R.O.W. RIGHT-OF-WAY
- FIRE HYDRANT
- SIGN
- TP TELEPHONE PEDESTAL
- EM ELECTRIC METER BOX
- AC AIR CONDITIONER
- JB JUNCTION BOX (VAULT)
- EL./ELEV ELEVATION
- INV INVERT

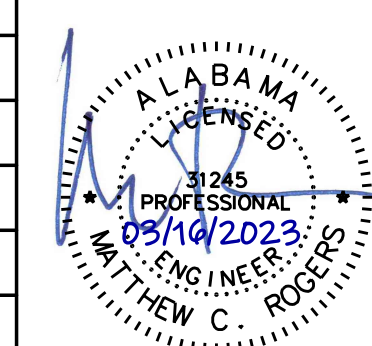
- TB TELEPHONE BOX (VAULT)
- WM WATER METER
- SSV SANITARY SEWER VALVE
- WV WATER VALVE
- GV GAS VALVE
- TRB TRANSFORMER BOX
- LP LIGHT POLE
- CTB CABLE TV BOX
- EB ELECTRIC BOX
- EP ELECTRIC PANEL
- ICV IRRIGATION CONTROL VALVE
- SSM SANITARY SEWER MANHOLE
- SDM STORM DRAIN MANHOLE
- TM TELEPHONE MANHOLE
- SC SEWER CLEANOUT
- SGP SEWER GRINDER PUMP
- GT GREASE TRAP
- FP FLAG POLE
- GLSM GAS LINE SIGN MARKER
- TLSM TELEPHONE SIGN MARKER
- WMR WATERLINE MARKER
- FOLM FIBER OPTIC LINE MARKER
- (EX.) EXCEPTION
- FO- UNDERGROUND FIBER OPTIC LINE
- OE- OVERHEAD ELECTRIC
- BE- BURIED ELECTRIC LINE
- UT- UNDERGROUND TELEPHONE LINE
- S- UNDERGROUND SEWER LINE
- W- UNDERGROUND WATERLINE
- G- UNDERGROUND GAS LINE
- TV- UNDERGROUND TELEVISION
- ELEC. ELECTRIC
- BFP BACK FLOW PREVENTER
- - - - - EXISTING GRADE (PROFILE VIEW)

PROPOSED

- PROPOSED EFFLUENT FORCE MAIN (PLAN VIEW)
- EXISTING INFLUENT/EFFLUENT FORCE MAIN
- MAJOR CONTOURS
- MINOR CONTOURS
- PROPOSED EFFLUENT FORCE MAIN (PROFILE VIEW)
- PROPOSED ASPHALT

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REVISION NO.	DESCRIPTION	DATE	BY:
A	100% SUBMITTAL	3/16/23	KMC



CITY OF FAIRHOPE UTILITIES
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SCALE: N.T.S.	PLOT SCALE: 1:1	DRAWN BY: KMC	CHECKED BY: EHB	APPROVED BY: MCR	DATE: MARCH 2023
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PLANTER'S POINTE LIFT STATION

PROJECT NOTES

JOB NO.: 21-1101-0257	DRAWING NO.: G101	REVISION NO.: A
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EROSION CONTROL NOTES:

- EROSION AND SEDIMENT CONTROL MEASURES SHOWN ARE CONSIDERED TO BE THE MINIMUM ACCEPTABLE MEASURES. THE CONTRACTOR SHALL UTILIZE "BEST MANAGEMENT PRACTICES" AS NECESSARY TO PREVENT SEDIMENT LADEN STORMWATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE. THE CONTRACTOR SHALL MAINTAIN AND REPAIR EROSION CONTROL MEASURES IN AN EXPEDITIOUS MANNER AFTER EACH RAINFALL EVENT AND INSPECT THEM TWICE WEEKLY IN THE EVENT OF NO RAINFALL. BEST MANAGEMENT PRACTICES (BMPS) ARE DEFINED AS: SCHEDULES OF ACTIVITIES, PROHIBITIONS OF PRACTICES, MAINTENANCE PROCEDURES, AND OTHER MANAGEMENT PRACTICES TO PREVENT OR REDUCE THE POLLUTION OF WATERS OF THE UNITED STATES. BMPS ALSO INCLUDE TREATMENT REQUIREMENTS, OPERATING PROCEDURES, AND PRACTICES TO CONTROL PLANT SITE RUNOFF, SPILLAGE OR LEAKS, SLUDGE OR WASTE DISPOSAL, OR DRAINAGE FROM RAW MATERIAL STORAGE. WITH REGARD TO CONSTRUCTION THESE MAY INCLUDE STRUCTURAL DEVICES OR NONSTRUCTURAL PRACTICES THAT ARE DESIGNED TO PREVENT POLLUTANTS FROM ENTERING WATER OR TO DIRECT THE FLOW OF WATER.
- THE EROSION AND SEDIMENT CONTROL ITEMS SHOWN ON THE PLANS ARE PROVIDED AS A STARTING POINT FOR A COMPREHENSIVE SEDIMENT AND EROSION CONTROL PLAN TO BE IMPLEMENTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE PREPARED TO ANTICIPATE AND ADJUST BEST MANAGEMENT PRACTICES AS NECESSARY THROUGHOUT CONSTRUCTION TO RESTRICT THE AMOUNT OF SILT LADEN RUNOFF LEAVING THE PROJECT. THE ENGINEER SHALL HAVE THE RIGHT TO REQUIRE INSTALLATION OF ADDITIONAL FACILITIES IF DEEMED NECESSARY TO PROTECT ADJACENT AREAS.
- ALL SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND FULLY FUNCTIONING PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ACTIVITY.
- ALL CLEARING OPERATIONS SHALL BE CONDUCTED IN A MANNER TO LIMIT EROSION OF MATERIALS FROM THE CONSTRUCTION AREA.
- TYPE "A" SILT FENCE SHALL BE USED IN AREAS WHERE INDICATED OR AS DIRECTED BY THE ENGINEER.
- SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
- SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION. SILT FENCES SHALL BE CLEANED, SILT REMOVED, AND REPAIRED AS NECESSARY AS PART OF REQUIRED BMP MAINTENANCE.
- AT THE END OF EACH WORK DAY OR PERIOD, THE CONTRACTOR SHALL INSTALL NECESSARY RETENTION BERMS, HAY BALES, OR SILT FENCE TO PREVENT EROSION OF MATERIALS PRIOR TO THE NEXT SCHEDULED WORK OR PERIOD.
- STORM DRAIN INLETS SHALL BE PROTECTED FROM SEDIMENT ENTRY WITH SEDIMENT BARRIERS LIKE "SILT SAVER" UNTIL THE SITE IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS IS OBTAINED.
- CONTRACTOR IS REQUIRED TO STABILIZE DISTURBED AREAS WITH TEMPORARY GRASS OR SOIL STABILIZER IF AREAS WILL REMAIN DISTURBED FOR 14 DAYS OR LONGER.
- THE CONTRACTOR IS HEREBY DIRECTED TO PROVIDE SEDIMENT RUNOFF PROTECTION WHERE NECESSARY TO PREVENT SILT LADEN RUNOFF FROM ENTERING THE STREAMS NEAR THE PROPOSED PROJECT.
- EROSION CONTROL AND SILTATION FACILITIES SHALL BE REMOVED ON AN INDIVIDUAL BASIS ONLY AFTER SPECIFIC AREAS HAVE STABILIZED.
- HAY BALES REMOVED, WHICH ARE IN GOOD CONDITION, SHALL BE DISPERSED AS MULCH IN ADJACENT OR OTHER AREAS, AS APPROVED BY THE ENGINEER, TO FACILITATE ESTABLISHMENT OF A PERMANENT GRASS STAND.
- AFTER THE CONSTRUCTION AREA IS STABILIZED BY PAVING OR A FIRM STAND OF GRASS AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.
- GRASS GROUND COVER SHALL BE MAINTAINED UPON COMPLETION OF CONSTRUCTION.
- SEDIMENT & EROSION CONTROL ITEMS SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE FOLLOWING HANDBOOKS:
 - ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, LATEST EDITION.
 - EPA STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES.
 - EPA GUIDANCE SPECIFYING MANAGEMENT MEASURES FOR SOURCES OF NON-POINT POLLUTION IN COASTAL WATERS.
 - AASHTO GUIDELINES FOR EROSION AND SEDIMENT CONTROL IN HIGHWAY CONSTRUCTION.
 - SOUTH ALABAMA REGIONAL PLANNING COMMISSION BEST MANAGEMENT PRACTICES FOR NON-POINT SOURCE RUNOFF CONTROL, MOBILE & BALDWIN COUNTIES, ALABAMA.
- UNLESS OTHERWISE SET FORTH IN CONTRACT DOCUMENTS WITH THE PROJECT OWNER, WHEN AN ADEM STORMWATER DISCHARGE PERMIT (NOI) HAS BEEN OBTAINED FOR THE SITE, THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE AND MAINTAIN A WRITTEN DAILY LOG OF RAINFALL AMOUNTS AT THE SAME TIME EACH DAY. AT THE END OF EACH MONTH, THE CONTRACTOR MUST PROVIDE A COPY OF THAT MONTH'S RAINFALL RECORDS TO THE ENGINEER. THE RAIN GAUGE MUST BE INSTALLED AT THE TOP OF A POST PLACED AT LEAST 50' FROM TREES, BUILDINGS, OR OTHER OBJECTS THAT COULD IMPEDE THE FREE ENTRY OF RAINFALL INTO THE RAIN GAUGE. THE CONTRACTOR MUST NOTIFY THE ENGINEER WITHIN 8 HOURS OF RECORDING ANY DAILY RAINFALL AMOUNT EXCEEDING 0.75". THE CONTRACTOR SHALL POST THE NOI PERMIT NUMBER IN A HIGHLY VISIBLE LOCATION ON THE SITE AND MAINTAIN IT IN A LEGIBLE CONDITION UNTIL THE PROJECT IS COMPLETED AND A PERMIT TERMINATION HAS BEEN APPROVED BY ADEM. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR MUST NOTIFY THE ENGINEER IN ORDER TO INSPECT THE SITE AND APPLY FOR A TERMINATION OF THE ADEM PERMIT.
- THE CONTRACTOR SHALL REFER TO THE "EROSION CONTROL, DITCHES, AND FLUMES" SECTION OF ALDOT SPECIAL AND STANDARD HIGHWAY DRAWINGS FOR ADDITIONAL METHODS OF EROSION AND SEDIMENT CONTROL.

TRAFFIC CONTROL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRICT COMPLIANCE WITH PART VI OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND SHALL DEFEND THE ENGINEER AND THE COUNTY OF MOBILE AGAINST ALL LIABILITY, CLAIM OF LIABILITY, LOSS, COST OR DAMAGE, INCLUDING DEATH, AND LOSS OF SERVICES, ON ACCOUNT OF INJURY TO PERSONS OR PROPERTY, OCCURRING FROM ANY CAUSE WHATSOEVER, AS A RESULT OF CONSTRUCTION ACTIVITY INVOLVED IN THIS PROJECT. THE CONTRACTOR WILL, AT HIS EXPENSE, DEFEND ON BEHALF OF THE ENGINEER, COUNTY OF MOBILE AND THEIR OFFICERS AND EMPLOYEES, ALL SUITS BROUGHT AGAINST THEM OR ANY OF THEM, ARISING FROM ANY SUCH CAUSE.
- THE CONTRACTOR SHALL HAVE AVAILABLE ADEQUATE PERSONNEL AND EQUIPMENT FOR TRAFFIC CONTROL AND SHALL NOT PERFORM ANY WORK WITHIN THE RIGHT OF WAY WHEN ADEQUATE PERSONNEL AND EQUIPMENT ARE NOT AVAILABLE.
- TRAFFIC CONTROL DEVICES SHOWN ARE CONSIDERED TO BE THE MINIMUM REQUIRED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADDITIONAL TRAFFIC CONTROL DEVICES OTHER THAN THOSE SHOWN WHEN ROADWAY AND TRAFFIC CONDITIONS WARRANT.
- ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED AT THE COMPLETION OF THE WORK WHEN THE WORK AREA IS OPENED TO TRAFFIC.
- ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED.
- A REFLECTORIZED DRUM SHALL BE PLACED IN FRONT OF EACH CONSTRUCTION SIGN THAT IS STORED ON THE SHOULDER AT ANY TIME DURING THE COURSE OF THE PROJECT, INCLUDING BUT NOT LIMITED TO COVERED SIGNS AND TEMPORARY MOUNTED SIGNS THAT HAVE BEEN LAID OVER. THE COST OF THIS REQUIREMENT SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B-000 (CONSTRUCTION SIGNS) WHEN A PAY ITEM FOR CHANNELIZING DRUM IS NOT PROVIDED IN THE PLANS.
- ALL VEHICLES, EQUIPMENT, AND WORKERS (EXCLUDING FLAGGERS) AND THEIR ACTIVITIES SHOULD BE RESTRICTED TO ONE SIDE OF THE ROADWAY UNLESS THE NATURE OF THE CONSTRUCTION OR MAINTENANCE OPERATION REQUIRES OTHERWISE.
- ALL SIGNS SHALL BE POST MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS EXCEPT FOR THOSE SIGNS THAT ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, IN THE SAME LOCATION, WHEN ALL DEVICES ARE REMOVED AT NIGHT, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS.
- ANY OBSTACLES OR HAZARDS WITHIN THE WORK AREA SHALL BE MARKED IN ACCORDANCE WITH THE MUTCD, PART VI (LATEST EDITION).
- THE SPACING BETWEEN CHANNELIZING DEVICES IN A WORK AREA SHALL BE 40' (MAXIMUM).
- WARNING LIGHTS SHOULD BE USED TO MARK CHANNELIZING DEVICES AT NIGHT AS NEEDED.
- CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
- DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
- TYPE I BARRICADES OR DRUMS MAY BE SUBSTITUTED FOR CONES (NO PAY ITEM FOR TYPE I BARRICADES).
- HIGH LEVEL WARNING DEVICES SHOULD BE USED TO SUPPORT ANY SIGNS SHOWN WHEN TRAFFIC CONDITIONS WARRANT.
- TYPE B HIGH INTENSITY WARNING LIGHTS SHOULD BE PLACED ON ADVANCE WARNING SIGNS.
- TRAFFIC CONES SHALL BE PLACED AT 40' O/C PARALLEL TO THE TRAFFIC LANE, 20' O/C IN TAPERS.
- ALL CONSTRUCTION SIGNS SHALL MEET ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 2018 EDITION.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ONE LANE OF TRAFFIC AND TEMPORARY ACCESS TO RESIDENCES AT ALL TIMES.



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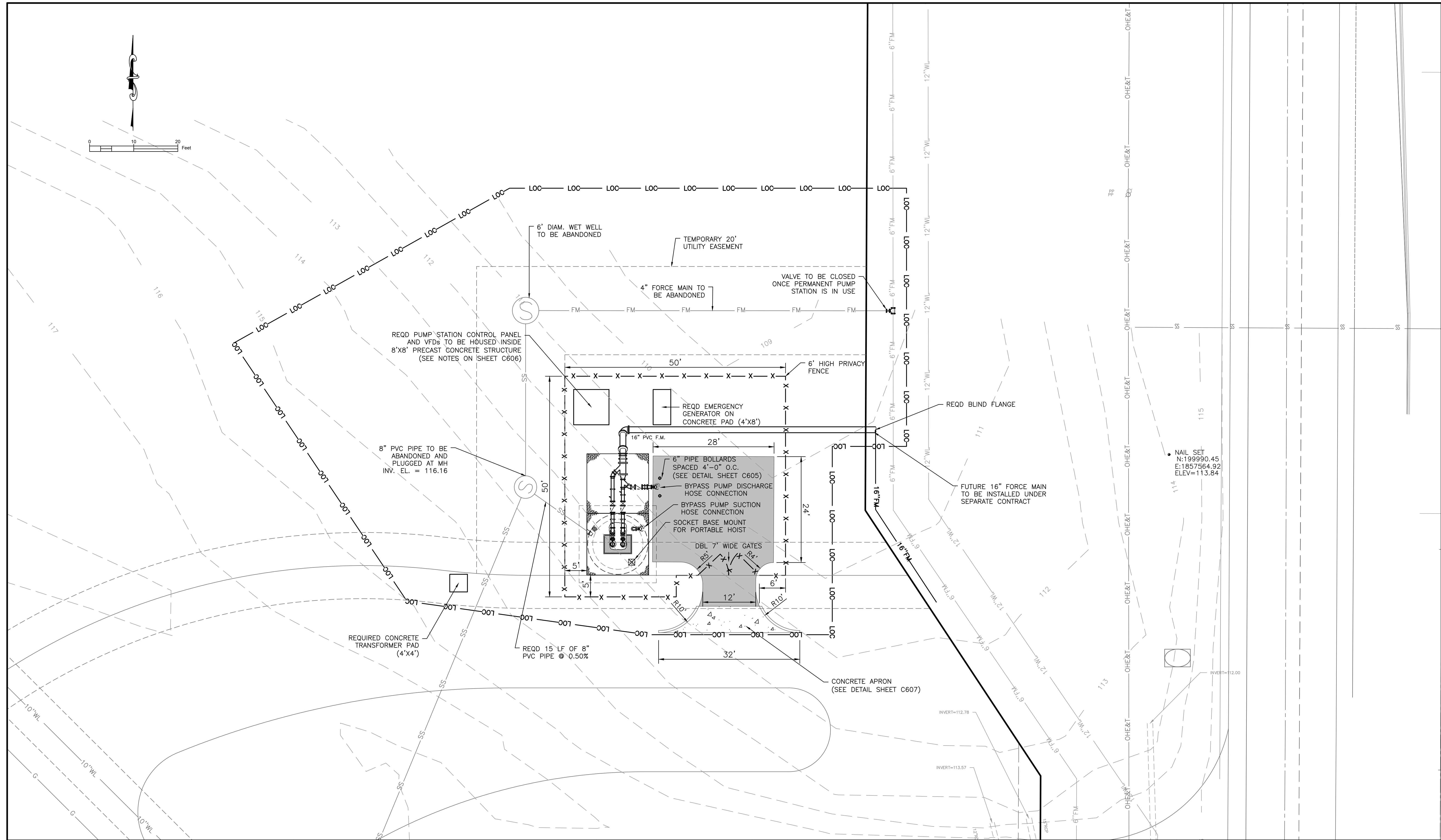
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PLANTER'S POINTE LIFT STATION

PROJECT NOTES

JOB NO. :	21-1101-0257	DRAWING NO. :	G102	REVISION NO. :	A
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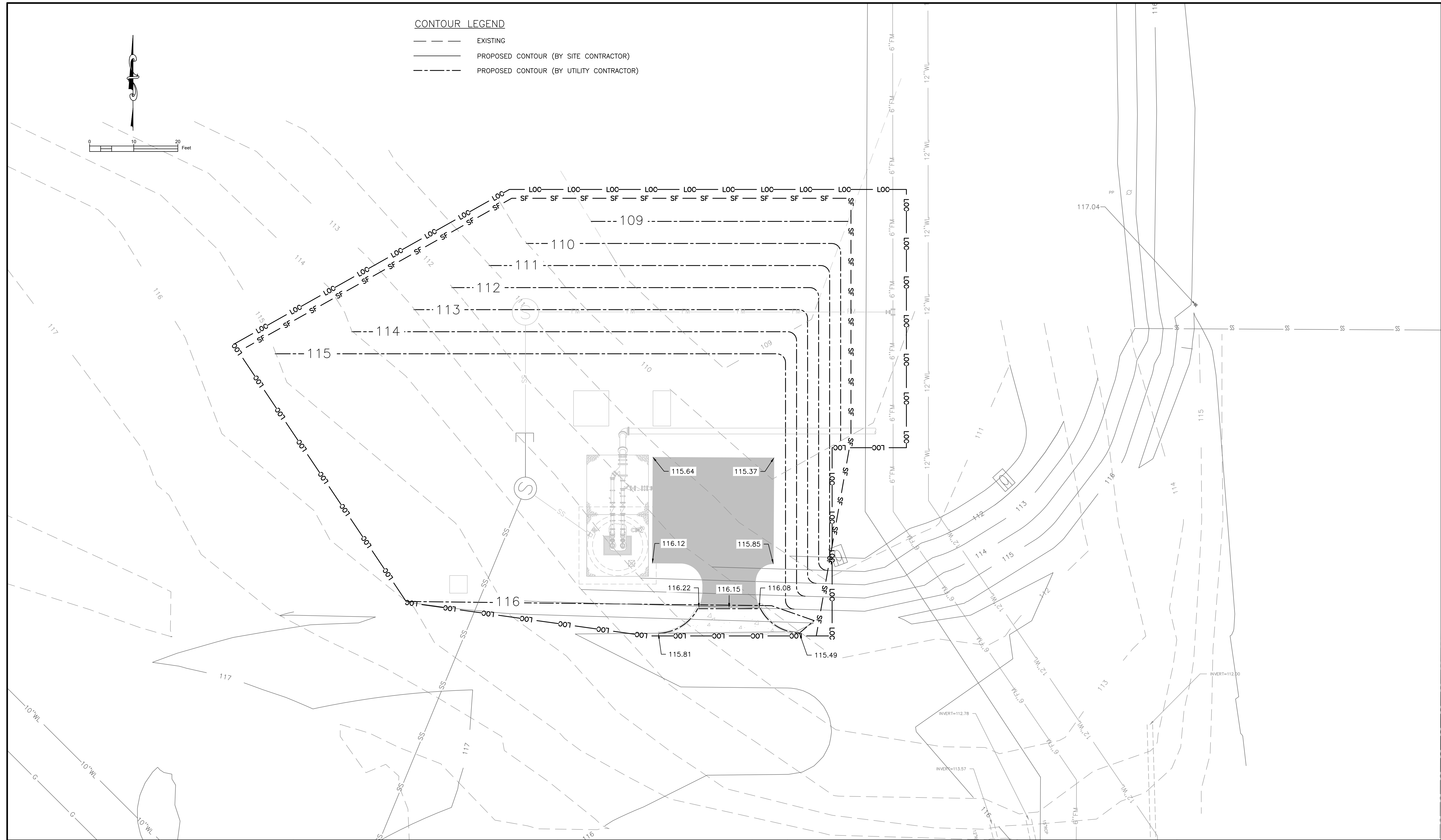
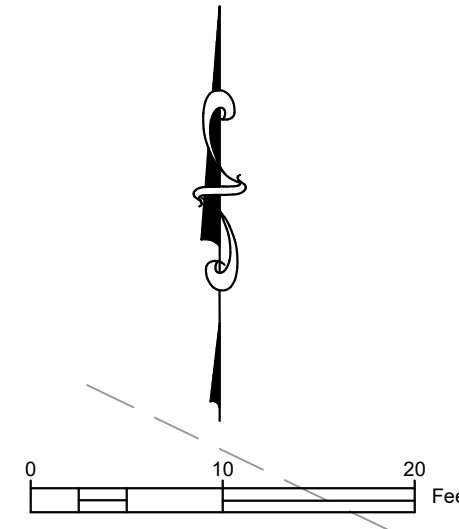
PLANTER'S POINTE LIFT STATION

SITE PLAN

DATE: MARCH 2023 JOB NO.: 21-1101-0257 DRAWING NO.: C601 REVISION NO.: A

CONTOUR LEGEND

- EXISTING
- PROPOSED CONTOUR (BY SITE CONTRACTOR)
- - - PROPOSED CONTOUR (BY UTILITY CONTRACTOR)



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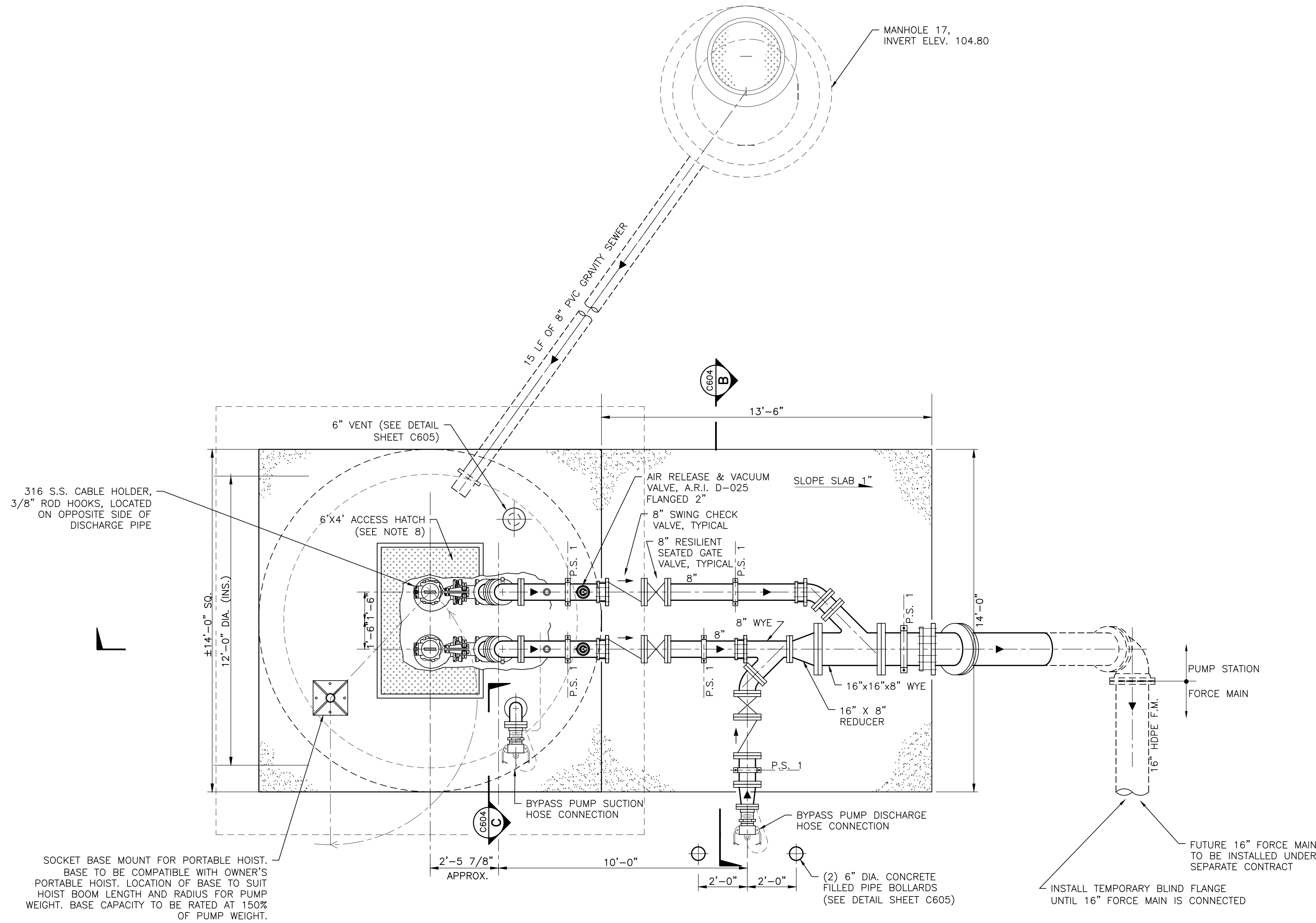
GRADING PLAN

DATE: MARCH 2023 JOB NO.: 21-1101-0257 DRAWING NO.: C602 REVISION NO.: A

GENERAL NOTES:

1. ALL EXPOSED PIPING SHALL BE FLANGED STAINLESS STEEL.
2. ALL BURIED PIPING SHALL BE MECHANICAL JOINT STAINLESS PIPE UP TO TIE PT. WITH HDPE FORCE MAIN AS INDICATED. ALL MECHANICAL JOINTS SHALL HAVE MEGALUG TYPE RETAINER GLANDS.
3. PUMP ALIGNMENT IN SUMP MAY BE VARIED TO SUIT INSTALLATION AND SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
4. FLOAT SWITCHES SHALL BE "CONSOLIDATED ELECTRIC CO." MODEL 9G (3 EA.) FASTENED TO 1" DIA. SCH. 40, TYPE 316 S.S. PIPE, OR 3/4" DIA. STAINLESS STEEL CABLE (AS DIRECTED BY OWNER) AT ELEVATIONS INDICATED. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS.
5. ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH ASPHALT MASTIC MEETING ASTM SPECIFICATION D-491.
6. VALVE SIZES SHALL BE THE SAME AS DISCHARGE PIPING.
7. ALL MISCELLANEOUS METAL IN WET WELL SHALL BE TYPE 6063-T6 ALUMINUM OR 316 S.S.
8. ALUMINUM ACCESS COVERS SHALL BE AS MANUFACTURED BY:
 - a) SYRACUSE CASTINGS SALES CORPORATION
 - b) U.S.F. FABRICATION, INCORPORATED
 - c) OR EQUAL
 ACCESS HATCH COVERS AND FRAMES SHALL BE CONSTRUCTED OF 6061-T6 ALUMINUM BARS, ANGLES AND EXTRUSIONS AND 5086 DIAMOND PATTERN ALUMINUM PLATE OF A MINIMUM THICKNESS OF 1/4". HINGES SHALL BE OF HEAVY DUTY DESIGN. HINGE LEAVES SHALL BE BRASS ALLOY OR TYPE 316 SS. HINGE PINS SHALL BE 3/8" DIAMETER GRADE 316 SS. THE HINGES SHALL BE BOLTED TO THE COVER PLATE AND FRAMES WITH GRADE 316 SS BOLTS AND LOCK NUTS. EACH ACCESS FRAME AND COVER ASSEMBLY SHALL BE PROVIDED WITH FALL THROUGH PROTECTION IN ACCORDANCE WITH OSHA STD. 1910.23. EACH ALUMINUM GRATE SHALL BE PROVIDED WITH A PERMANENT HINGING SYSTEM. THE GRATE SHALL LOCK IN THE 90 DEGREE OPENED POSITION. PROTECTION OF ALUMINUM FROM DISSIMILAR MATERIALS: USING APPROVED ASPHALTIC OR ZINC CHROMATE PAINT, PROVIDE TWO HEAVY COATS ON ALUMINUM SURFACES IN CONTACT WITH DISSIMILAR MATERIALS SUCH AS CONCRETE, MASONRY, STEEL, AND OTHER MATERIALS.
9. ALL ANCHOR BOLTS INSIDE OF WET WELL TO BE 316 S.S.
10. ALL OUTSIDE ANCHOR BOLTS TO BE CARBON STEEL HILTI HAS ROD SET WITH HILTI HIT HY 150 INJECTION ADHESIVE. SEE DETAILS FOR ROD SIZES. COAT EXPOSED AREAS PER SPECIFICATIONS.
11. HILTI HAS ROD EMBEDMENTS: (S.S. AND C.S. RODS)

1/2" DIA. ROD	4	1/4" EMBED
5/8" DIA. ROD	5	5" EMBED
5/8" DIA. ROD	6	5/8" EMBED



PLAN VIEW – PUMP STATION

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

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REVISION NO.	DESCRIPTION	DATE	BY:
A	100% SUBMITTAL	3/16/23	KMC



CITY OF FAIRHOPE UTILITIES
FAIRHOPE, ALABAMA



2970 COTTAGE HILL RD., STE. 190
MOBILE, ALABAMA 36606
SCALE: 1:1
PLOT SCALE: 1:1
DRAWN BY: KMC
CHECKED BY: EHB
APPROVED BY: MCR
TEL: (251) 666-2443
FAX: (251) 666-6422

PLANTER'S POINTE LIFT STATION

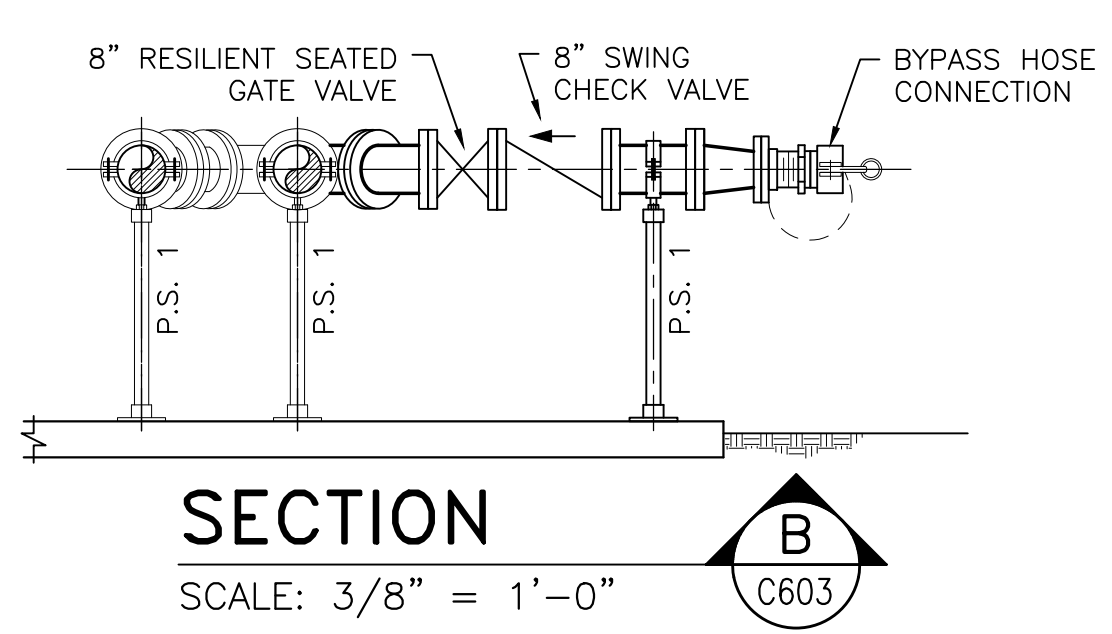
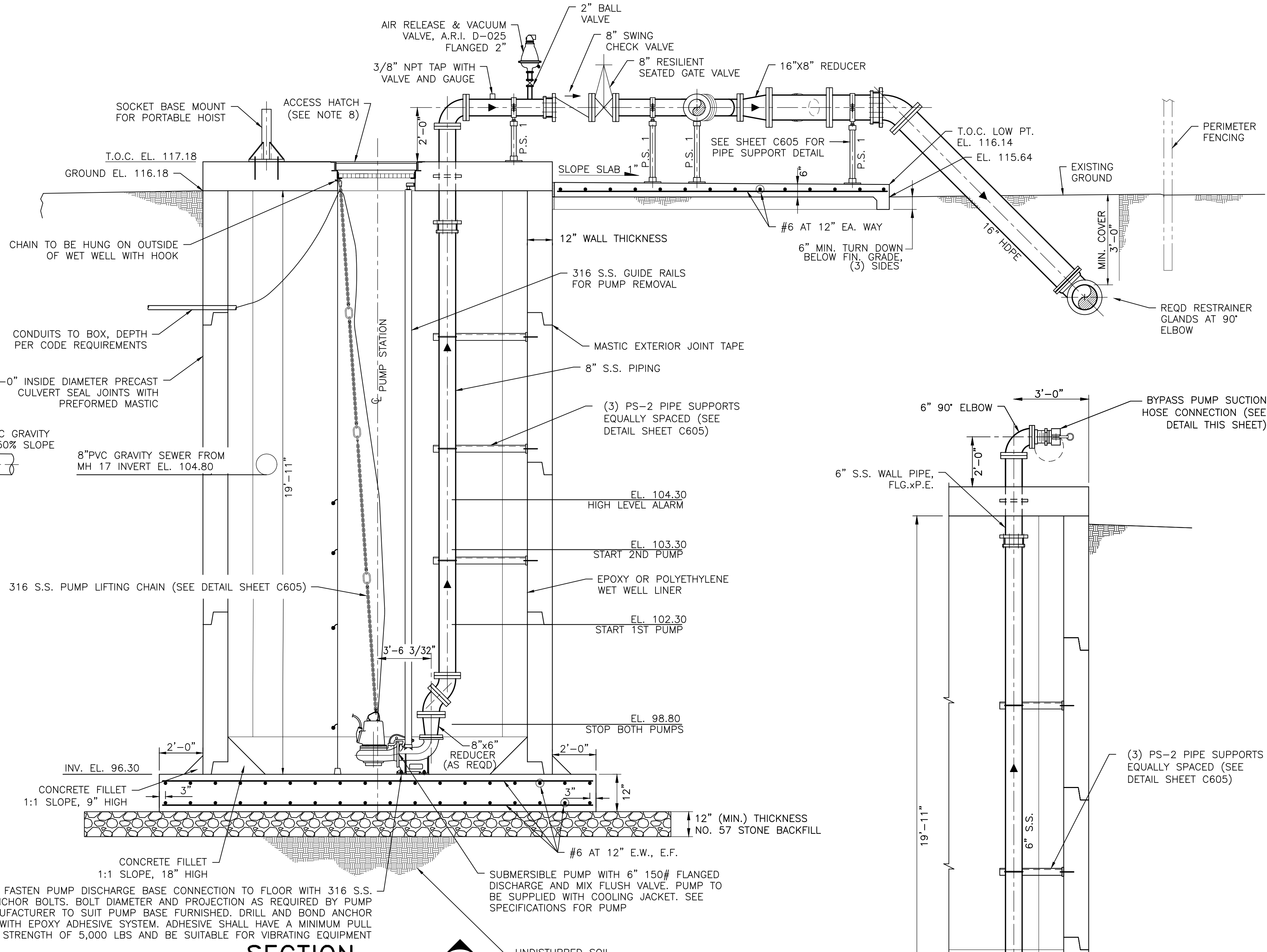
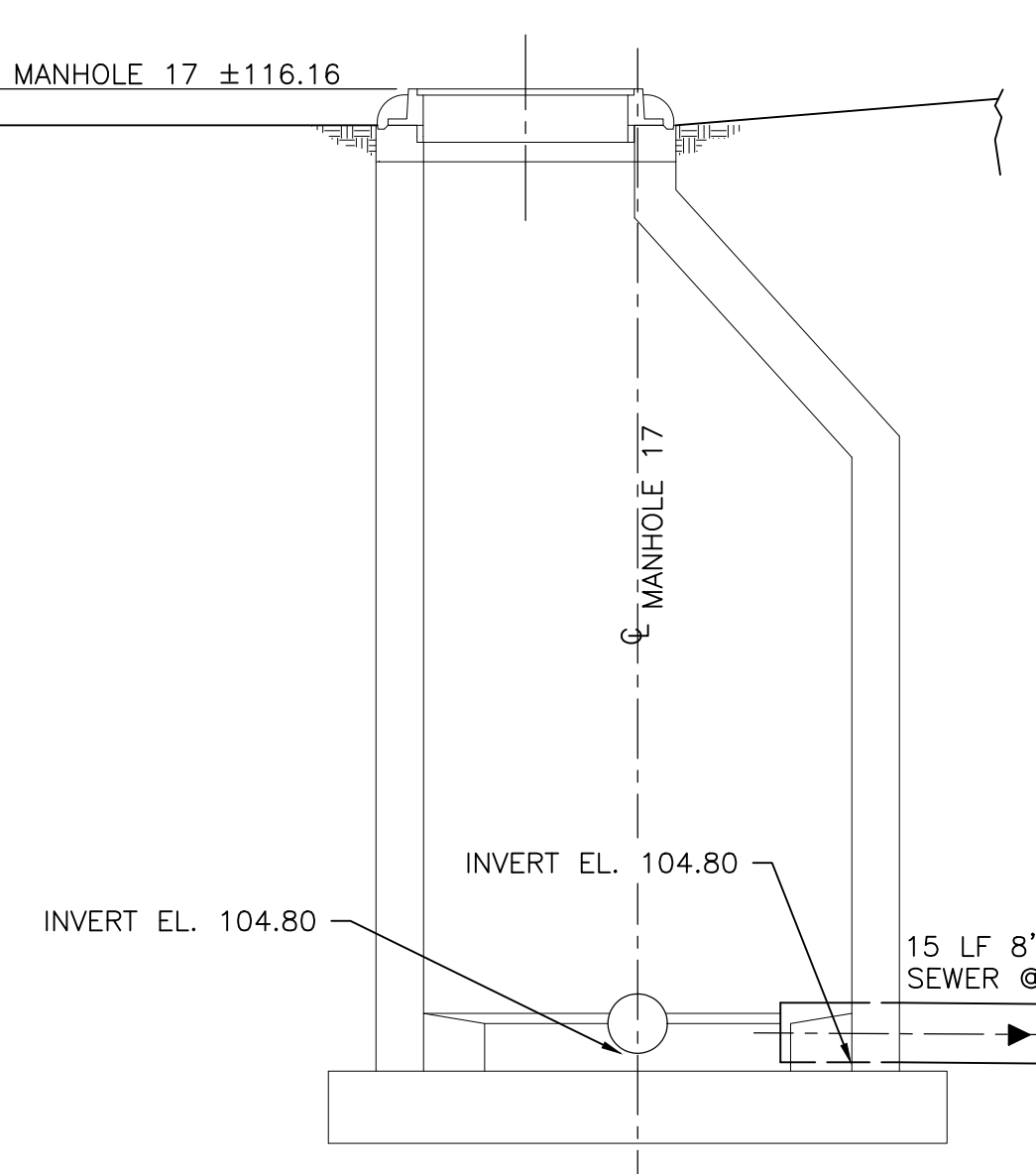
PUMP STATION PLAN AND NOTES

DATE: MARCH 2023	JOB NO.: 21-1101-0257	DRAWING NO.: C603	REVISION NO.: A
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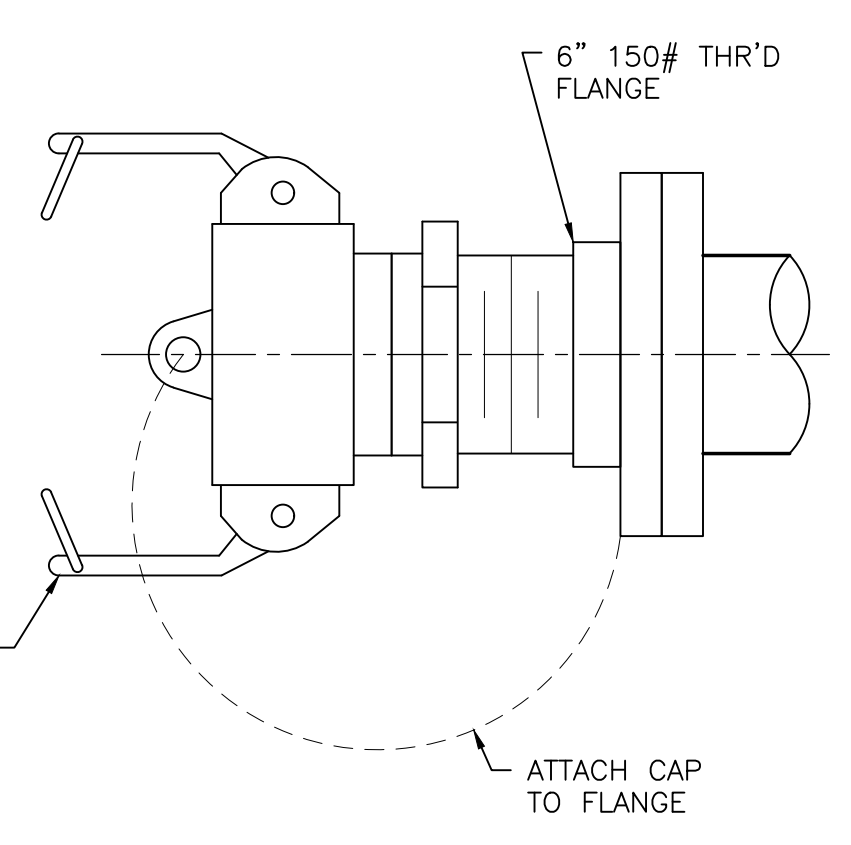
GENERAL NOTES:

- ALL EXPOSED PIPING SHALL BE FLANGED STAINLESS STEEL, SPEC. NO. D-3A.
- ALL BURIED PIPING SHALL BE MECHANICAL JOINT STAINLESS STEEL, SPEC. NO. D-2A. UP TO TIE PT. WITH HDPE FORCE MAIN AS INDICATED. ALL MECHANICAL JOINTS SHALL HAVE MEGALUG TYPE RETAINER GLANDS.
- PUMP ALIGNMENT IN SUMP MAY BE VARIED TO SUIT INSTALLATION AND SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.
- FLOAT SWITCHES SHALL BE "CONSOLIDATED ELECTRIC CO." MODEL 9G (3 EA.) FASTENED TO 1" DIA. SCH. 40, TYPE 316 S.S. PIPE, OR 3/4" DIA. STAINLESS STEEL CABLE (AS DIRECTED BY OWNER) AT ELEVATIONS INDICATED. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL DETAILS.
- ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH ASPHALT MASTIC MEETING ASTM SPECIFICATION D-491.
- VALVE SIZES SHALL BE THE SAME AS DISCHARGE PIPING.
- ALL MISCELLANEOUS METAL IN WET WELL SHALL BE TYPE 6063-T6 ALUMINUM OR 316 S.S.
- ALUMINUM ACCESS COVER SHALL BE EQUIPPED WITH AN EXTERNALLY OPERATED LOCKING DEVICE TO PREVENT OPENING OF COVER BY UNAUTHORIZED PERSON. LOCKING DEVICE IS TO BE KEVED. COVER SHALL BE MINIMUM 1/4" THICK DIAMOND PATTERN ALUMINUM REINFORCED TO SUPPORT A LIVE LOAD OF 150# PSF. MINIMUM HINGES, BOLTS, AND FASTENERS SHALL BE STAINLESS STEEL. ACCESS COVER SHALL BE EQUIPPED WITH GRATING, FLYGT "SAFE-HATCH" OR APPROVED EQUAL TO PROVIDE FOR VISUAL INSPECTION OF WET WELL WITH FALL-THROUGH PROTECTION. THE ACCESS COVER SHALL HAVE A POSITIVE LOCKING ARM TO HOLD THE DOOR IN AN OPEN POSITION WHEN NECESSARY. CONSTRUCTION HINGES SHALL BE TAMPER-PROOF.
- ALL ANCHOR BOLTS INSIDE OF WET WELL TO BE 316 S.S.
- ALL OUTSIDE ANCHOR BOLTS TO BE CARBON STEEL HILTI HAS ROD SET WITH HILTI HIT HY 150 INJECTION ADHESIVE. SEE DETAILS FOR ROD SIZES. COAT EXPOSED AREAS PER SPECIFICATIONS.
- HILTI HAS ROD EMBEDMENTS: (S.S. AND C.S. RODS)
 - 1/2" DIA. ROD 4 1/4" EMBED
 - 5/8" DIA. ROD 5" EMBED
 - 5/8" DIA. ROD 6 5/8" EMBED

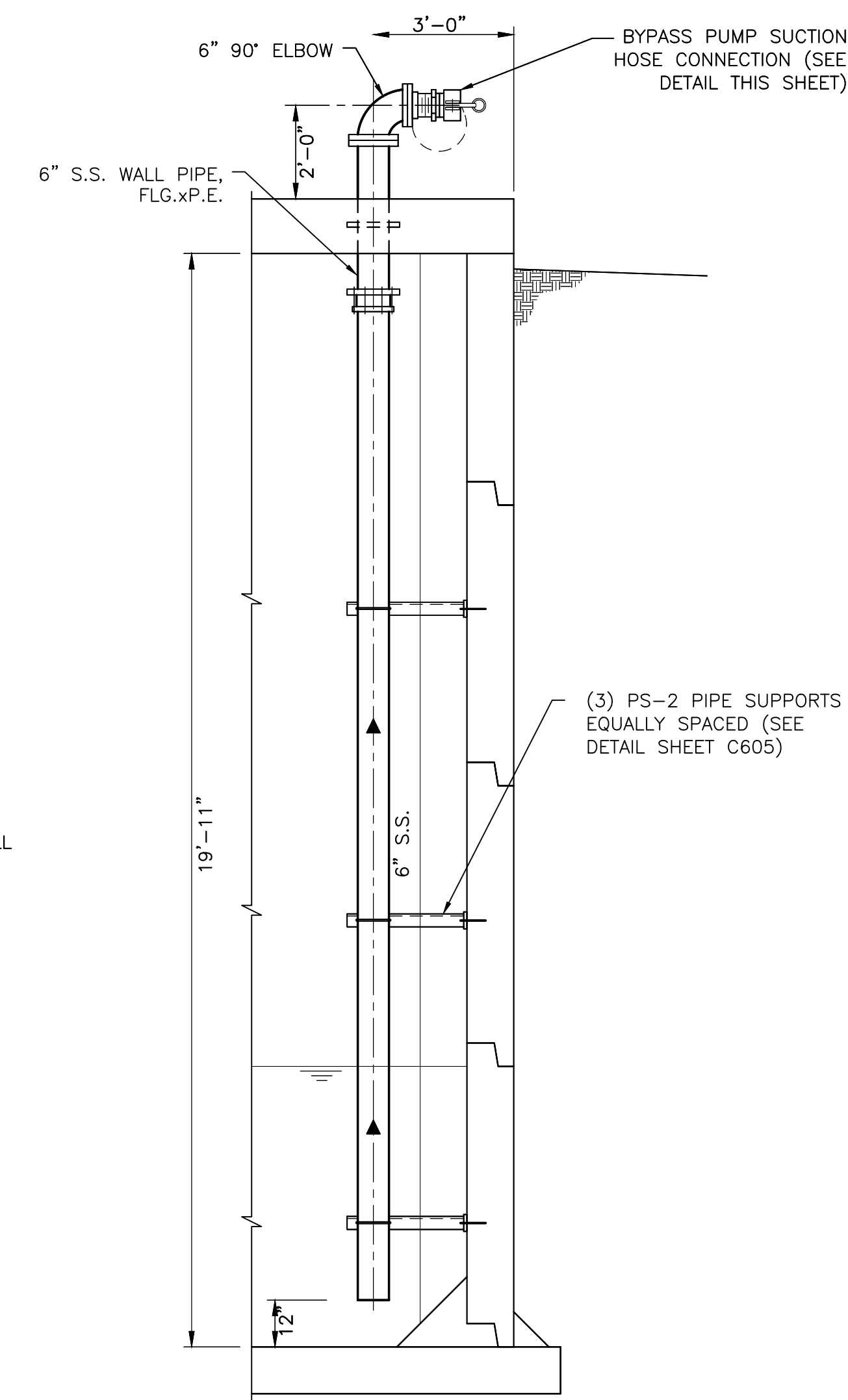
EXISTING MANHOLE 17 ±116.16



SECTION B
SCALE: 3/8" = 1'-0"
C603



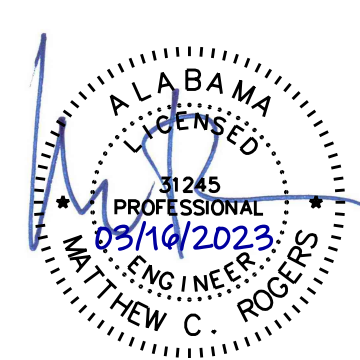
BYPASS HOSE CONNECTION DETAIL
N.T.S.



SECTION C
SCALE: 3/8" = 1'-0"
C603

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A	100% SUBMITTAL	3/16/23	KMC



CITY OF FAIRHOPE UTILITIES
FAIRHOPE, ALABAMA

thompson ENGINEERING

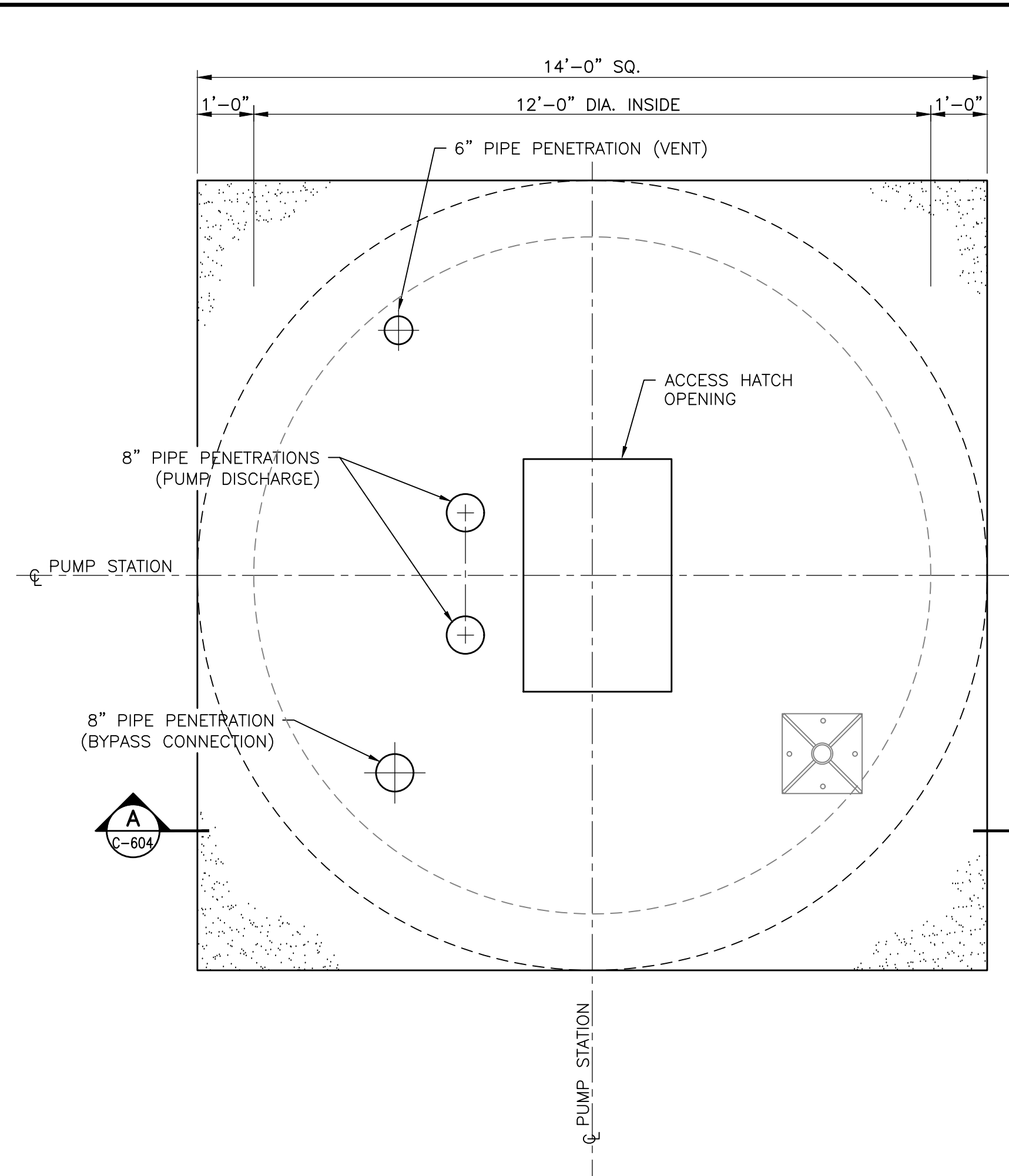
2970 COTTAGE HILL RD., STE. 190
MOBILE, ALABAMA 36606

TEL: (251) 666-2443
FAX: (251) 666-6422

PLANTER'S POINTE LIFT STATION

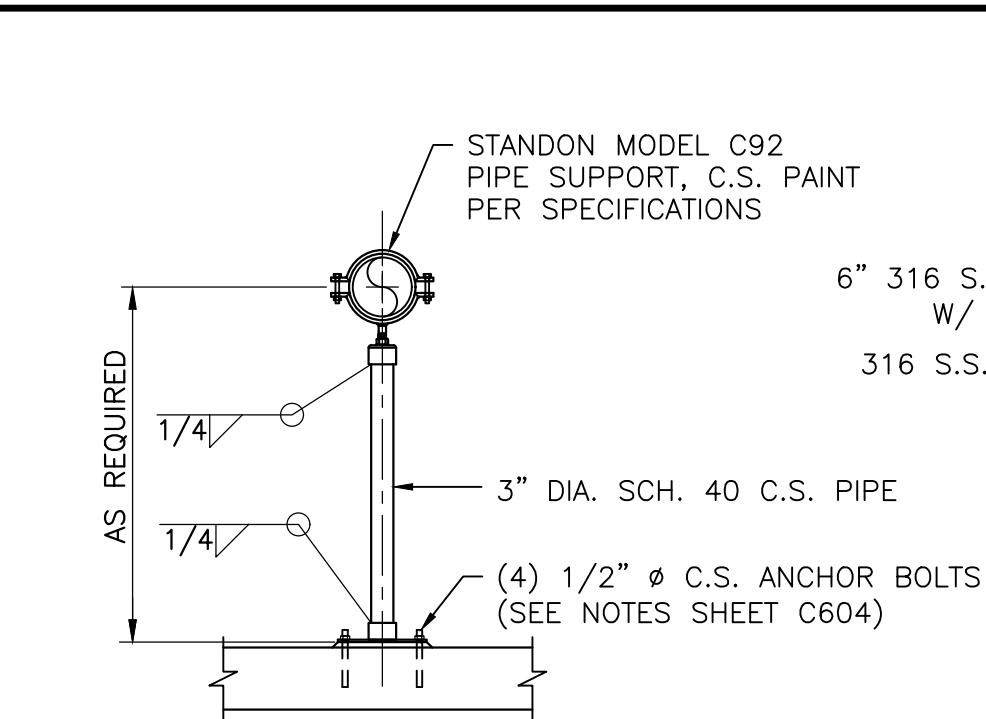
PUMP STATION PLAN, SECTIONS, AND NOTES

SCALE: 1:1
DRAWN BY: KMC
CHECKED BY: EHB
APPROVED BY: MCR
DATE: MARCH 2023
JOB NO.: 21-1101-0257
DRAWING NO.: C604
REVISION NO.: A



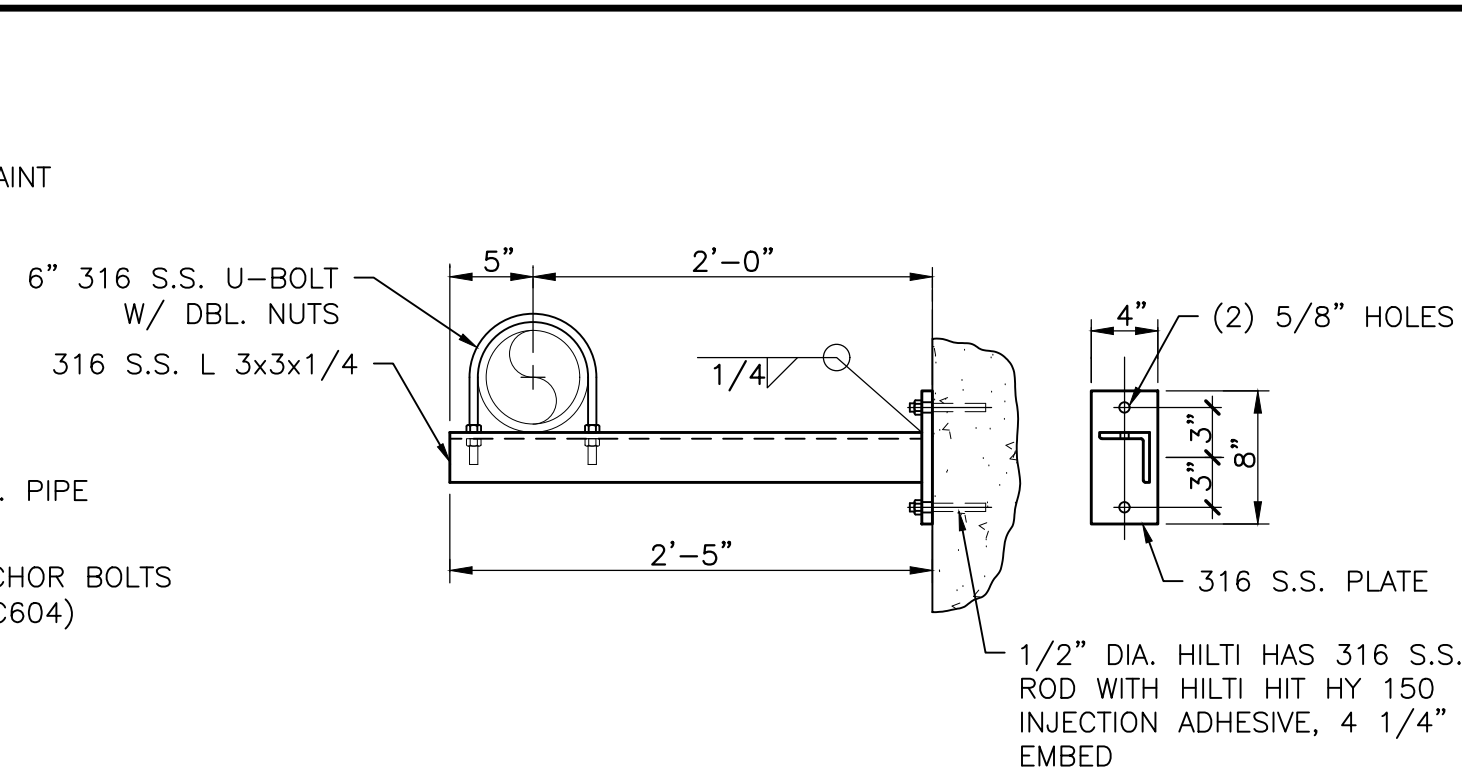
PLAN VIEW PUMP STATION TOP SLAB

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



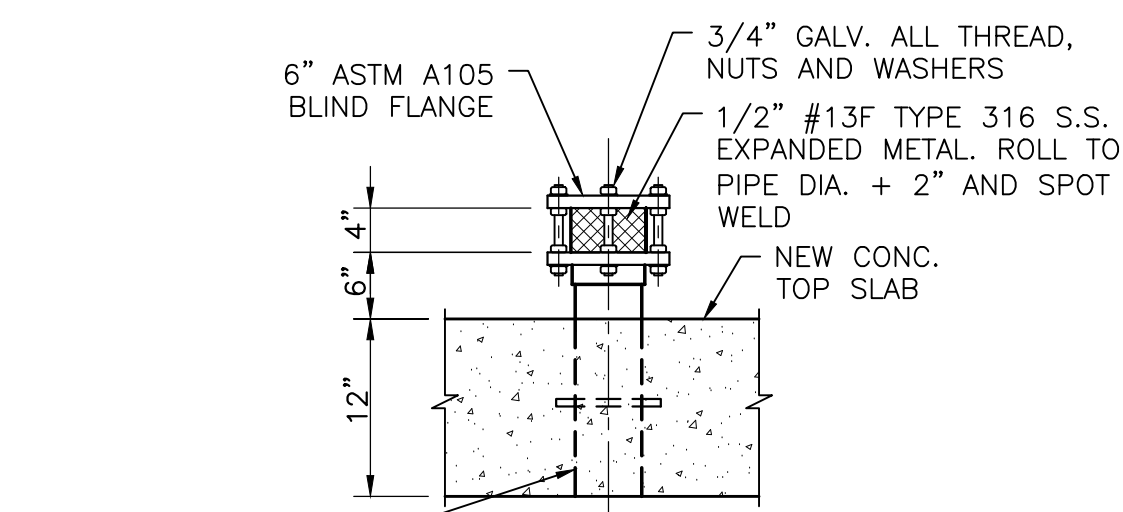
PIPE SUPPORT TYPE PS 1

N.T.S.



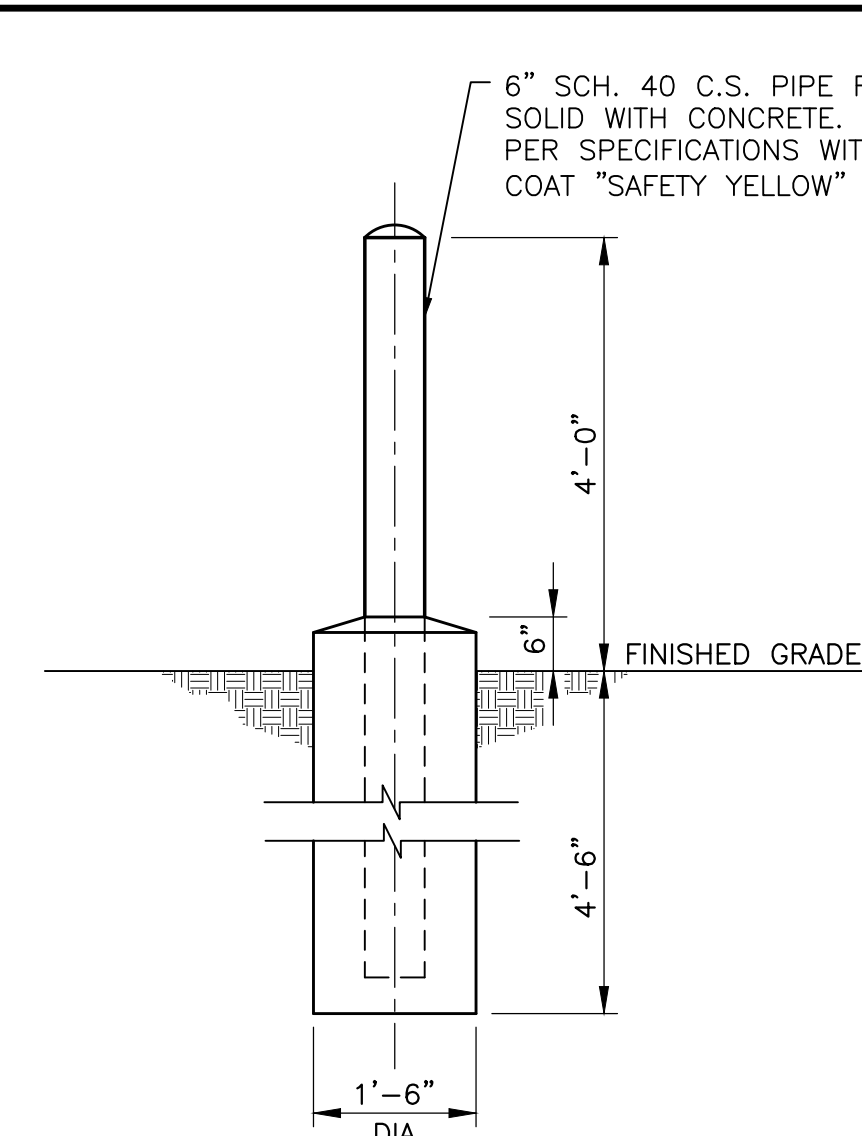
PIPE SUPPORT TYPE PS 2

N.T.S.



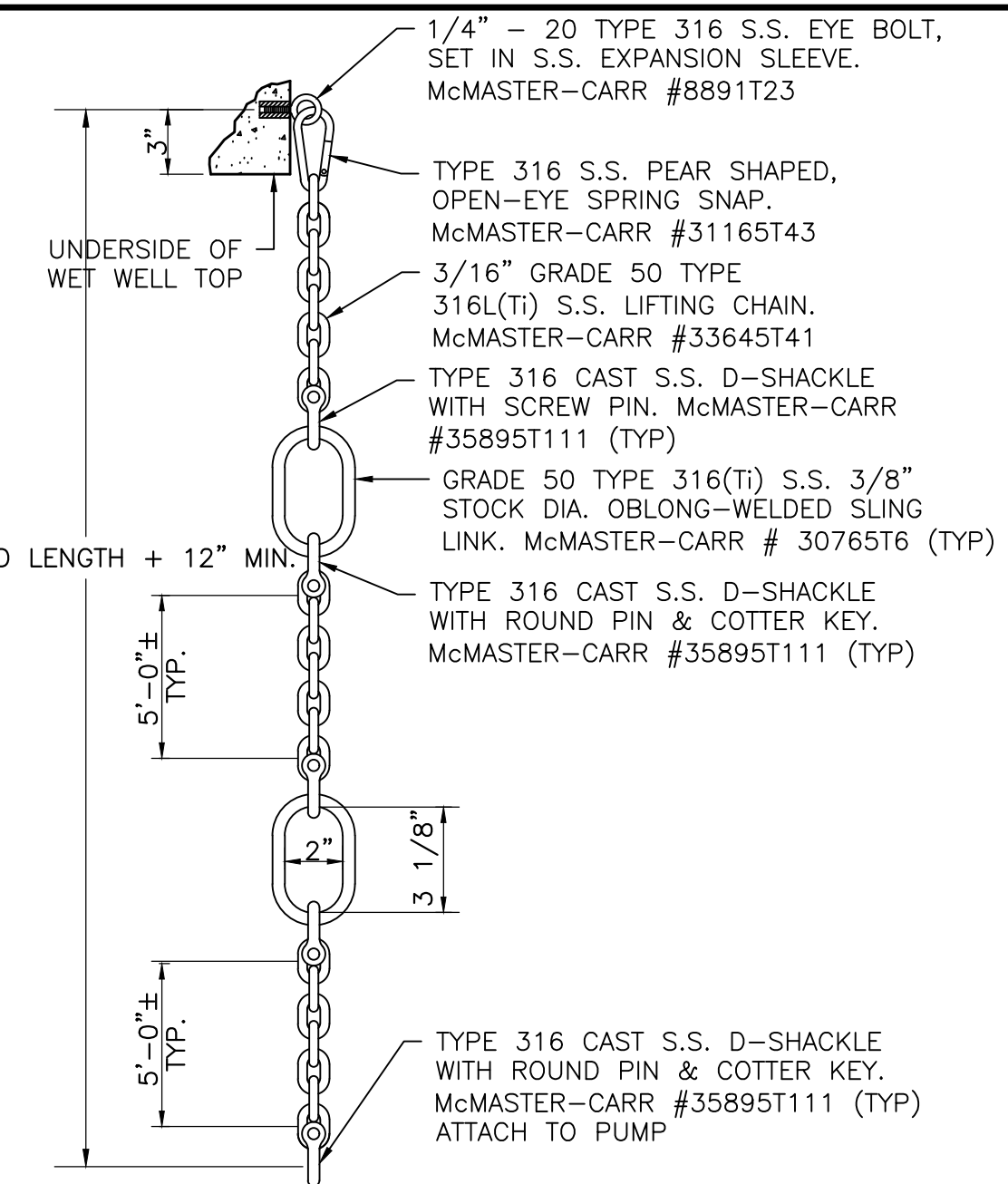
WET WELL VENT DETAIL

N.T.S.



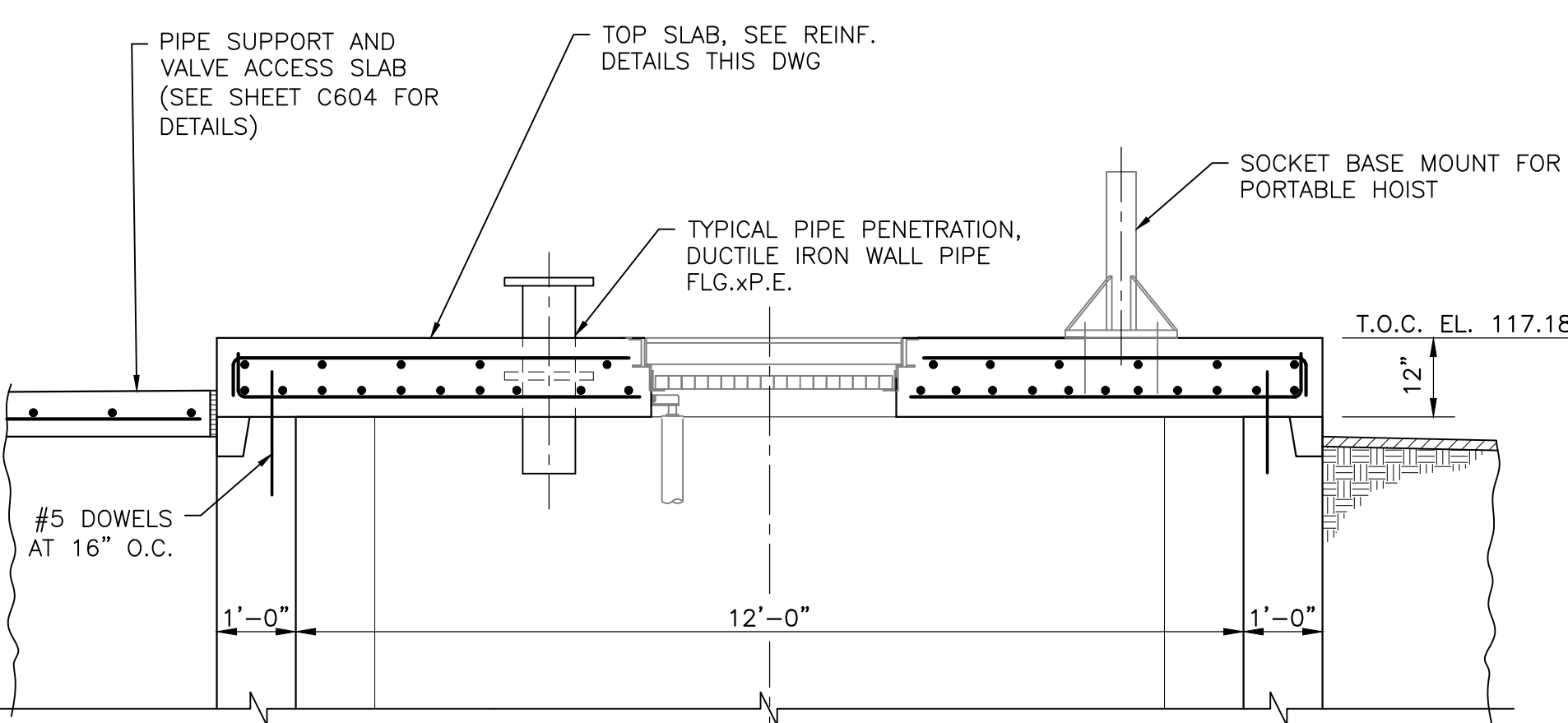
BOLLARD DETAIL

N.T.S.



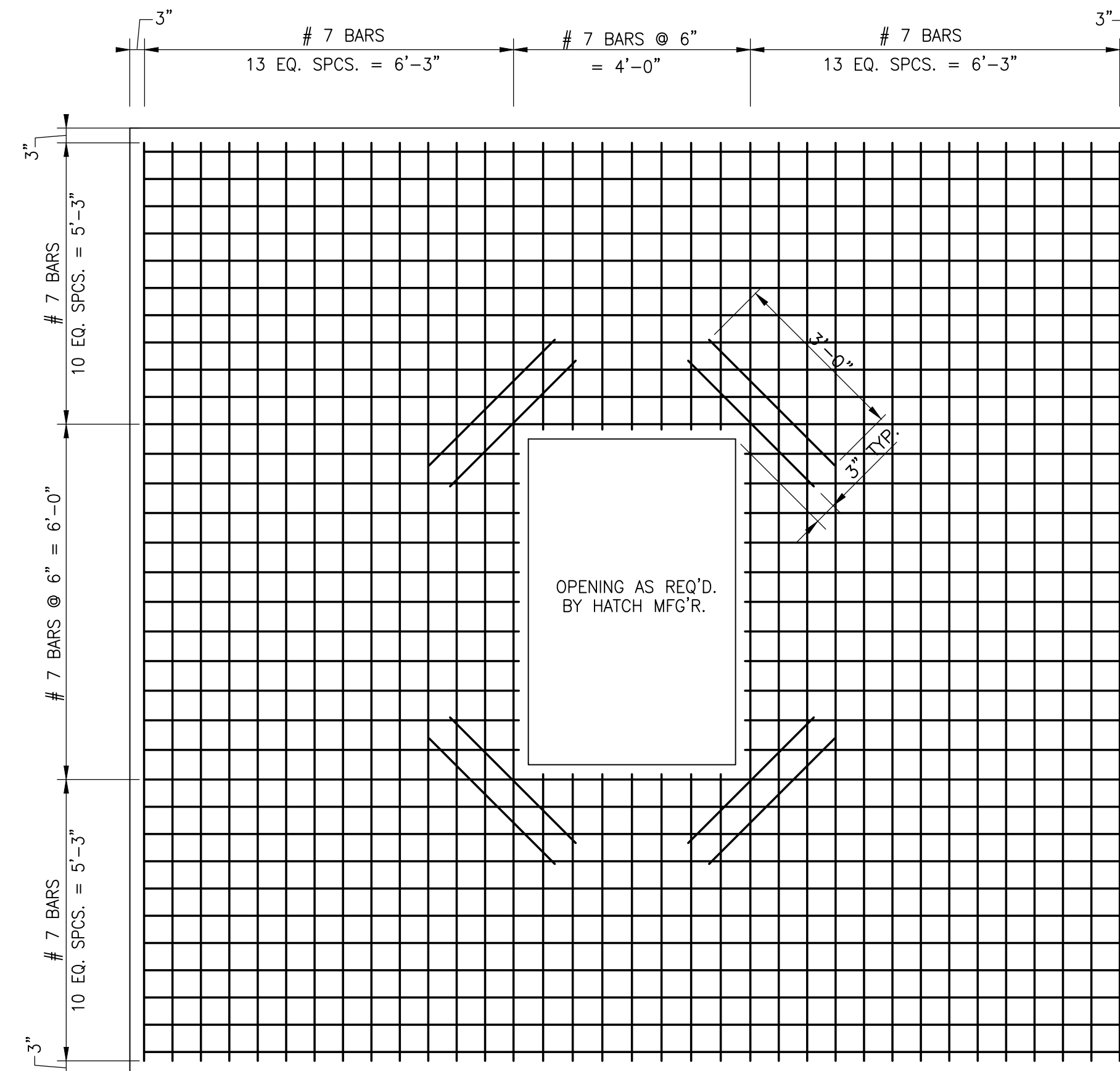
PUMP LIFTING CHAIN DETAIL

N.T.S.
(PROVIDE ONE ASSEMBLY FOR EACH PUMP)
(1000LB. CAPACITY LIMIT)

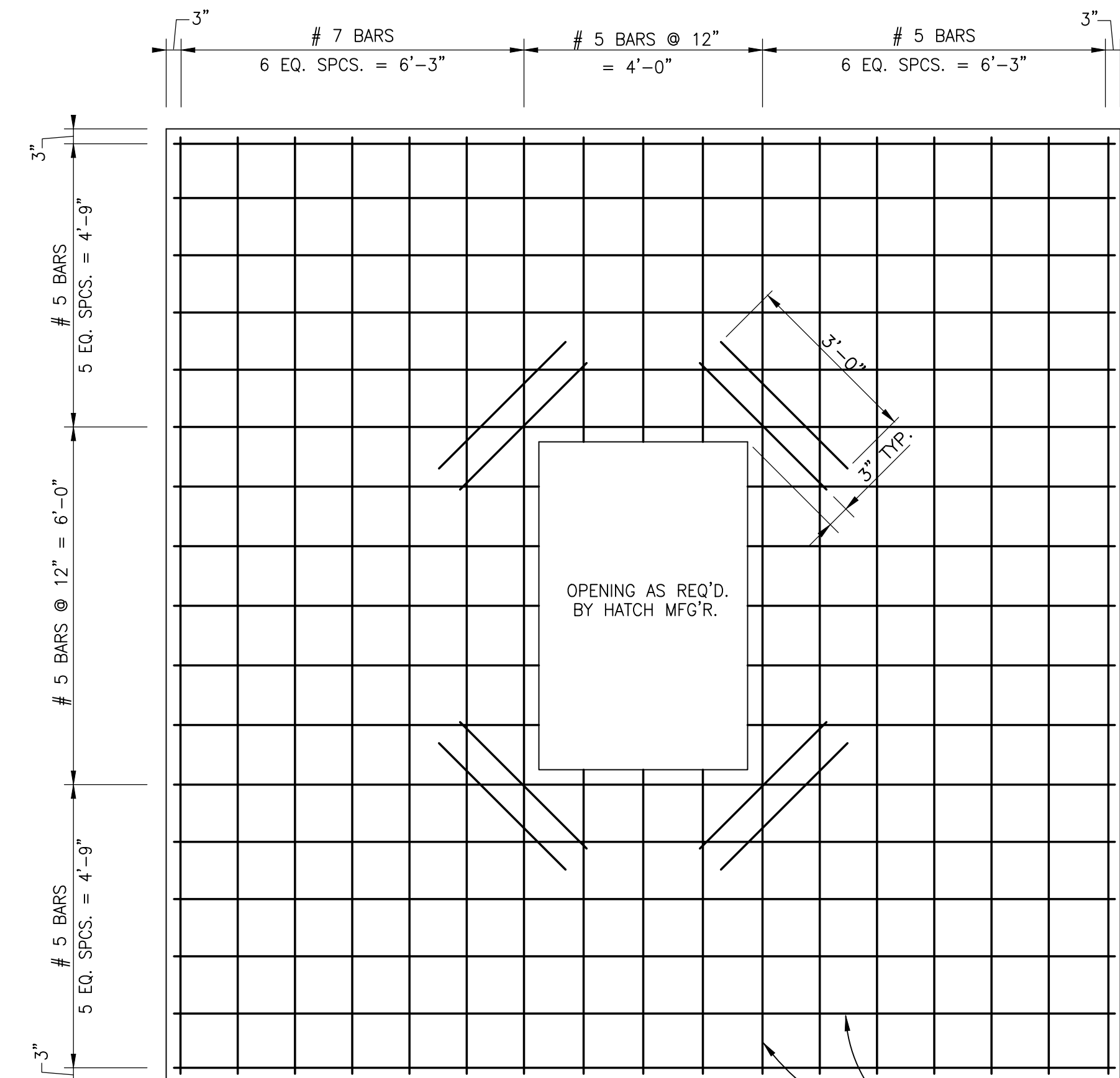


SECTION

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



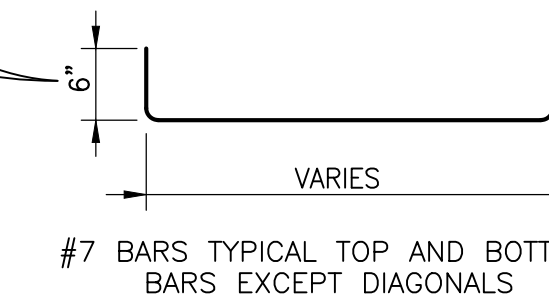
BOTTOM STEEL



TOP STEEL

PUMP STATION TOP SLAB REINFORCING PLANS

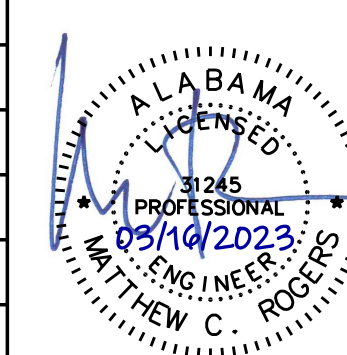
SCALE: 1/2" = 1'-0"



#7 BARS TYPICAL TOP AND BOTTOM BARS EXCEPT DIAGONALS

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REVISION NO.	DESCRIPTION	DATE	BY:
A	100% SUBMITTAL	3/16/23	KMC



CITY OF FAIRHOPE UTILITIES
FAIRHOPE, ALABAMA



2970 COTTAGE HILL RD., STE. 190
MOBILE, ALABAMA 36606
TEL: (251) 666-2443
FAX: (251) 666-6422

PLANTER'S POINTE LIFT STATION

PUMP STATION TOP SLAB & MISCELLANEOUS DETAILS

SCALE: 1:1	PLOT SCALE:	DRAWN BY: KMC	CHECKED BY: EHB	APPROVED BY: MCR	DATE: MARCH 2023	JOB NO.: 21-1101-0257	DRAWING NO.: C605	REVISION NO.: A
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Tag No.: P-1 & P-2
 Service: Sewage
 Location: Planters Pointe Shopping Center Pumping Station
 Type of Pump: End Suction Centrifugal - Submersible Pump
 Solids Handling Capability: 3" minimum diameter spherical solid
 Materials of Construction:

1. Casing – Gray cast iron Class 35B
2. All Exposed Bolts & Nuts – 303/304 stainless steel
3. Pump Exterior Coating - Factory applied primer and finish coat Epoxy Paint to suit pumped media
4. Shaft & Sleeve - Stainless Steel
5. Impeller – Ductile Iron
6. O-Rings – Buna-N and Fluorocarbon (DuPont Viton or Equivalent)
7. Upper Bearing - Single row ball bearing/ permanent lubrication
8. Lower Bearing - Single row ball bearing/ permanent lubrication
9. Seal – Tandem Mechanical Oil lubrication Upper, self-lubricating lower
10. Guide Rails - Type 316 Stainless Steel

Installation: The pump shall have a 6" cast iron quick-disconnect discharge elbow permanently mounted to the wet well floor. The elbow shall include 316 stainless steel guide-rail guides to allow removal and replacement of pump without personnel entering the wet wall. The guide rails shall be furnished by the contractor and the brackets furnished by the pump supplier.

- Drive Motor:
1. 50 horsepower, 460V, 60Hz, 3 phase
 2. Design –squirrel-cage, induction
 3. NEMA Design – Type B
 4. Windings – Copper, Class H Insulated rated for 356 °F / 180 °C
 5. Service Factor – 1.15 continuous
 6. Design Temperature – 40°C ambient
 7. Non-overloading at any point on pump curve
 8. Explosion Proof
 9. Air filled or oil motor, may have closed, integral, liquid cooling system.
 10. Motor Terminal Board
 11. Stator shall be heat-shrink fitted
 12. Motor Winding Over temperature switches embedded in windings.
 13. Seal Failure Moisture Probe

Guaranteed Performance:

	GPM	TDH	RPM	EFF
Design:	1650	67'	1770	68%

Warranty: The pump manufacturer shall warrant the unit being supplied to the Owner against defects in workmanship and material for a period of two (2) years unlimited hours.

Experience: Pump manufacturer's direct sales and service representative shall have local experience directly related to the proposed pumps and adjoining equipment.

Manufacturer(s): Pumps complying with the specified parameters and as included on the Owner's list of approved pump manufacturers shall be acceptable.

ACCEPTABLE PUMP EQUIVALENTS		
MANUFACTURER	MODEL	REMARKS
Wilo	EMU FA15.97Z	Curve FA15.97Z 1740 Impeller 10.63"

CONCRETE STRUCTURE NOTES:

Modular concrete building shall be solid concrete design with 4" walls and steel rebar reinforced high strength concrete. The standard exterior finish is exposed aggregate. Building shall be designed to be bulletproof to 30.06 rifle from 15 feet per UL-752, provide 2-Hour fire rating per UBC, and be virtually waterproof and maintenance free with internal seals. Building shall be 8' wide by 8' long by 10' 7" high outside dimensions and as follows:

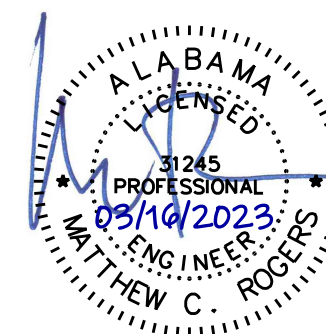
- Four (4) Cast-In Lift Shackles
- Internal (Non-Exposed) Structural Seals
- 1/4" per Foot Roof Slope in All Four Directions with Rubber Membrane Secondary Roof Seal and 2" Roof Overhang on all Four Sides
- 150 PSF Floor Load Uniformly Distributed
- 150 MPH Wind Load
- 3/4" White Coated Plywood Walls and Ceiling
- R-11 Walls and Floor, R-19 Ceiling
- One (1) 3' x 7' Door, Exterior 18 Gauge Galvanized and Painted Steel Door with Cast-In 16 Gauge Galvanized and Painted Steel Door Frame with Non-Corrosive Hinges
- Panic Hardware with Lever Lockset
- Aluminum Threshold and Door Sweep
- Weather-stripping
- Hydraulic Door Closer with Hold Open
- 2" Aluminum Drip Shield

Electrical System

- 30 Circuit Primary Load Center, 120/240 VAC Single Phase, 60 Hz Operation and 100 Amp Main Breaker
- Two (2) 4' Dual Bulb LED Interior Light Fixtures with Switch and Lenses
- One (1) 36 Watt LED Exterior Light Fixture with Photocell
- One (1) Emergency Light with EXIT Sign
- Six (6) Duplex Convenience Receptacles - Wall Mounted
- One (1) Exterior Duplex GFCI Receptacle
- Required Conduit, Set Screw Conduit Fittings, Breakers, Wire, and Clamps
- Wall and Floor block out as required for cable entrances.

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REVISION NO.	DESCRIPTION	DATE	BY:
A	100% SUBMITTAL	3/16/23	KMC



CITY OF FAIRHOPE UTILITIES
 FAIRHOPE, ALABAMA

thompson
 ENGINEERING

2970 COTTAGE HILL RD., STE. 190
 MOBILE, ALABAMA 36606

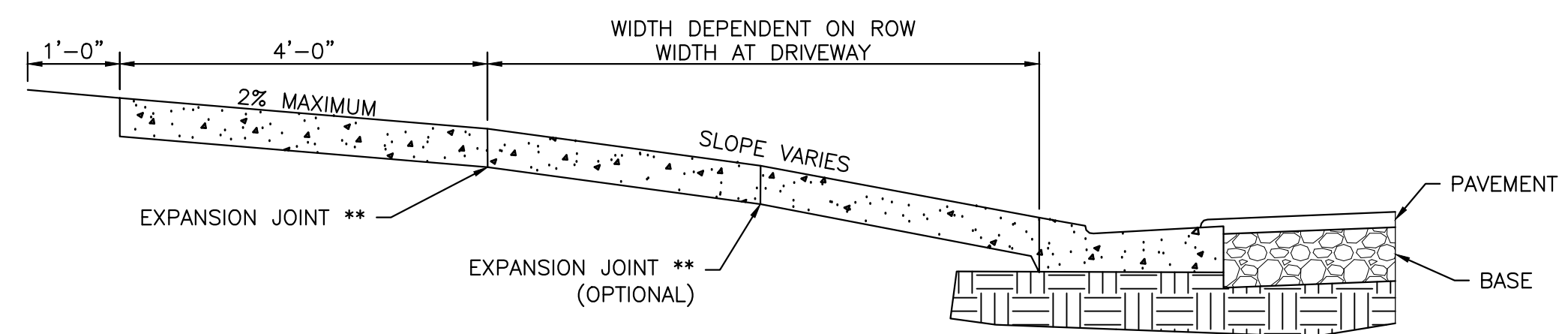
TEL: (251) 666-2443
 FAX: (251) 666-6422

SCALE: PLOT SCALE: DRAWN BY: CHECKED BY: APPROVED BY: DATE: JOB NO.: DRAWING NO.: REVISION NO.:

1:1 KMC EHB MCR MARCH 2023 21-1101-0257 C606 A

PLANTER'S POINTE LIFT STATION

PUMP SPECIFICATIONS &
 CONCRETE STRUCTURE NOTES



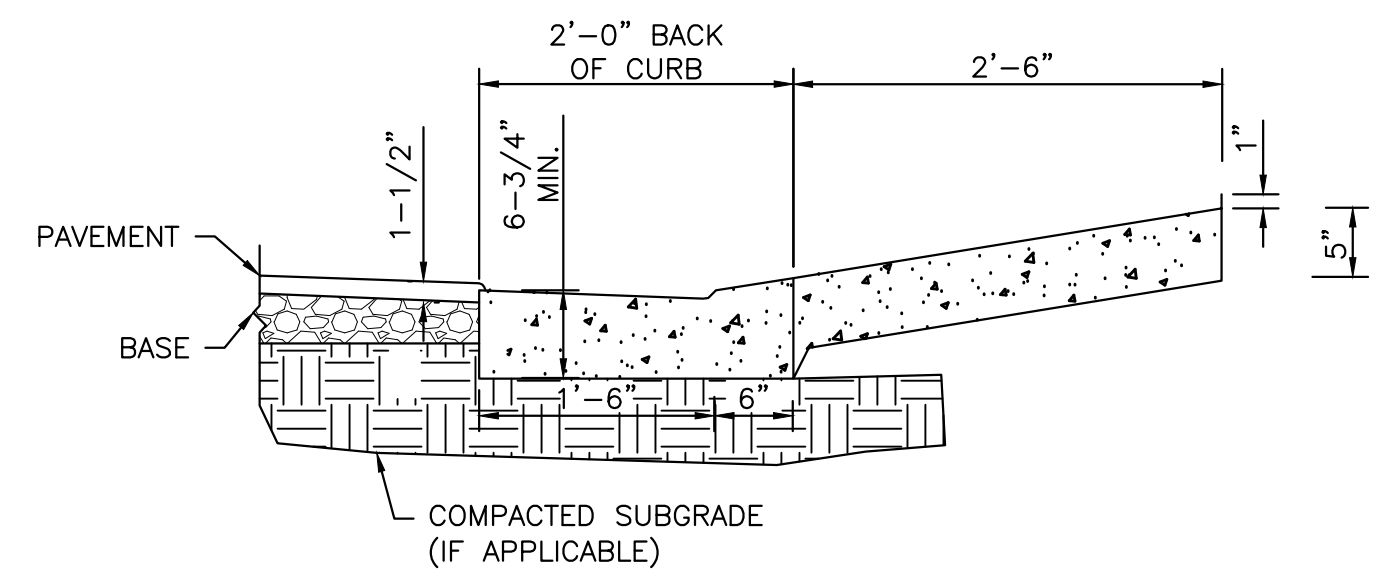
CROSS SECTION DRIVEWAY & SIDEWALK

N.T.S.

	MINIMUM*
R1	20'
R2	19.5'
R3	20'
W	24'

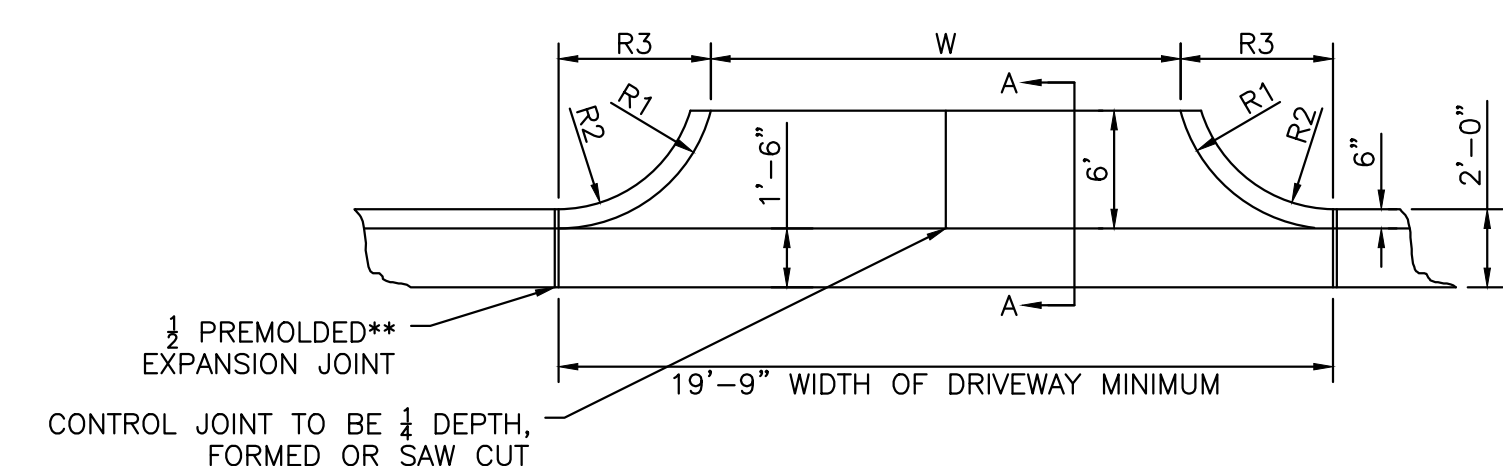
* IF SITE CONDITIONS PROHIBIT THE USE OF THESE STANDARDS, AN ALTERNATIVE MAY BE SUBMITTED FOR APPROVAL TO THE ENGINEER

** EXPANSION JOINT MATERIAL TO MEET ALDOT SPECIFICATIONS 832.01 & 832.02



SECTION "A-A"

N.T.S.



PLAN VIEW CONCRETE DRIVEWAY APRON

N.T.S.

NOTE: CONCRETE APRON AND DRIVEWAY TO BE 5" MINIMUM THICKNESS.

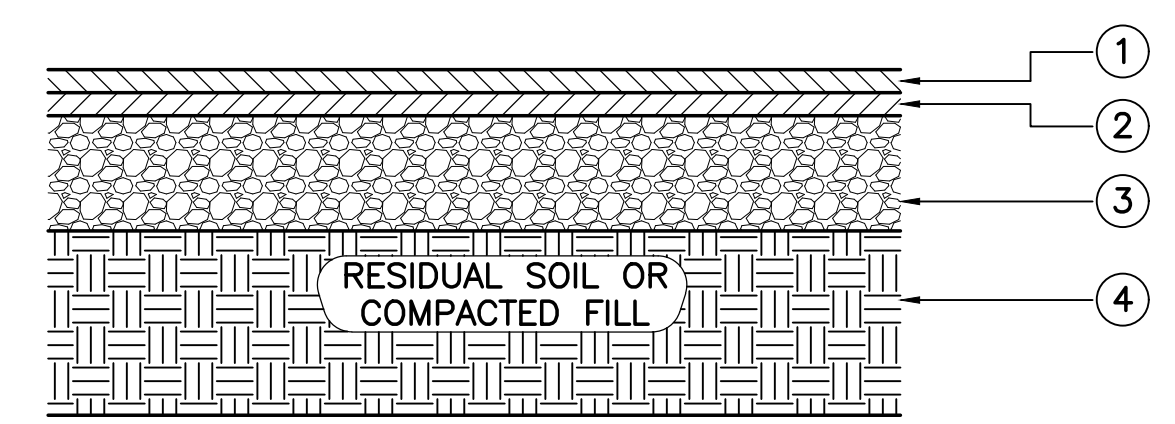
SIDEWALK PANELS THAT ABUT THE DRIVEWAY TO BE 5" MINIMUM THICKNESS.

OTHER SIDEWALK PANELS TO BE 4" MIN. THICKNESS.

CONCRETE TO BE 3000 P.S.I. MIX WITH NATURAL COLOR AND BROOM FINISH.

CONCRETE DRIVEWAY DETAIL FOR ASPHALT ROADWAY WITH CURB & GUTTER

N.T.S.

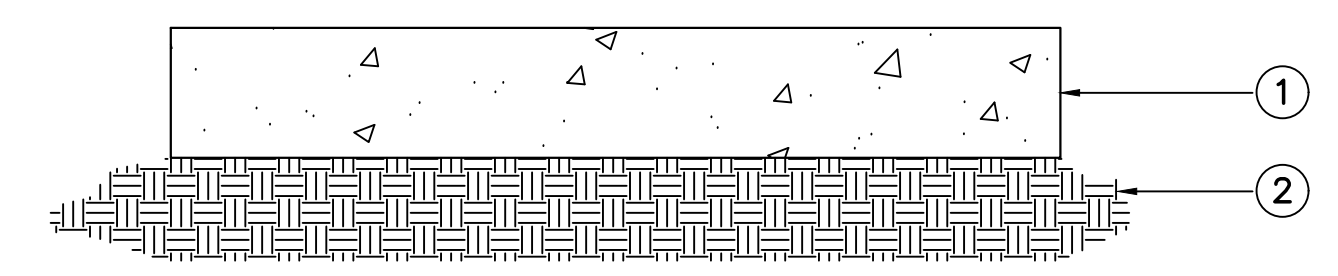


- (ALDOT 424A-356) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE, 3/8" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D, 1" (125#/SY)
- (ALDOT 424B-002) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D, 1" (125#/SY)
- (ALDOT 301A-004) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 4" COMPACTED THICKNESS, MINIMUM 95% COMPACTION PER AASHTO T-180
- SUBGRADE, TOP 12" COMPACTED TO 98% STANDARD PROCTOR (ASTM D-1557 AT ±3% O.M.C.)

(REFER TO GEOTECHNICAL REPORT)

STANDARD DUTY ASPHALT PAVING TYPICAL SECTION

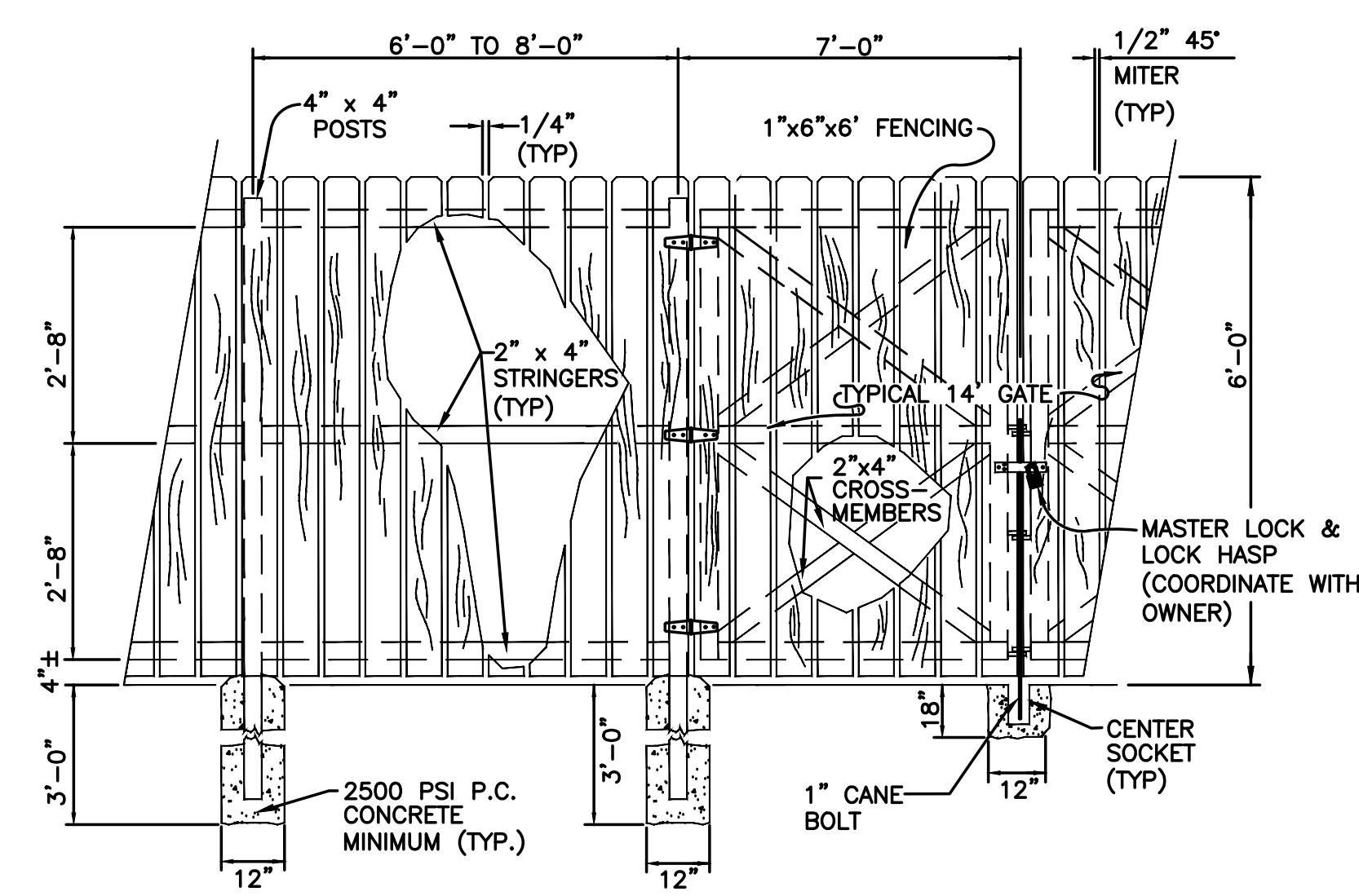
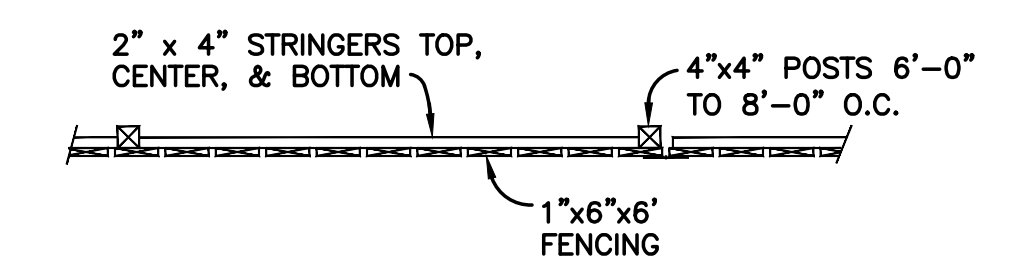
N.T.S.



- 4" THICK, 3000 PSI MIN. CONCRETE (SIZE AS INDICATED ON SHEET C601)
- SUBGRADE, TOP 12" COMPACTED TO 98% STANDARD PROCTOR (ASTM D-1557 AT ±3% O.M.C.)

CONCRETE PAD DETAIL

N.T.S.



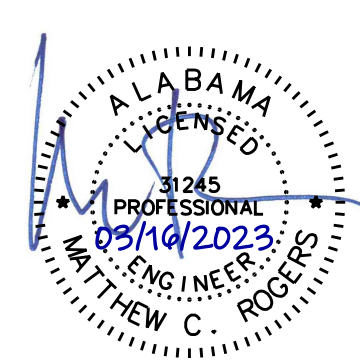
- WOOD FENCE NOTES:
- ALL POST AND STRINGERS SHALL BE OSMOSIS TREATED OR PENTA TREATED PINE, TO BE APPROVED BY ENGINEER.
 - ALL FENCE SIDING SHALL BE UNTREATED CEDAR (U.N.O. IN PLANS).
 - ALL METAL FASTENERS SUCH AS BOLTS, NAILS, HINGES, HASPS, AND ETC. SHALL BE HOT DIPPED GALVANIZED.
 - FENCE LOCATION AS NOTED ON PLANS OR AS DIRECTED BY OWNER.

WOOD FENCE & GATE

N.T.S.

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A	100% SUBMITTAL	3/16/23	KMC



CITY OF FAIRHOPE UTILITIES
FAIRHOPE, ALABAMA

thompson ENGINEERING

2970 COTTAGE HILL RD., STE. 190
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TEL: (251) 666-2443
FAX: (251) 666-6422

SCALE: 1:1 PLOT SCALE: DRAWN BY: KMC CHECKED BY: EHB APPROVED BY: MCR DATE: MARCH 2023

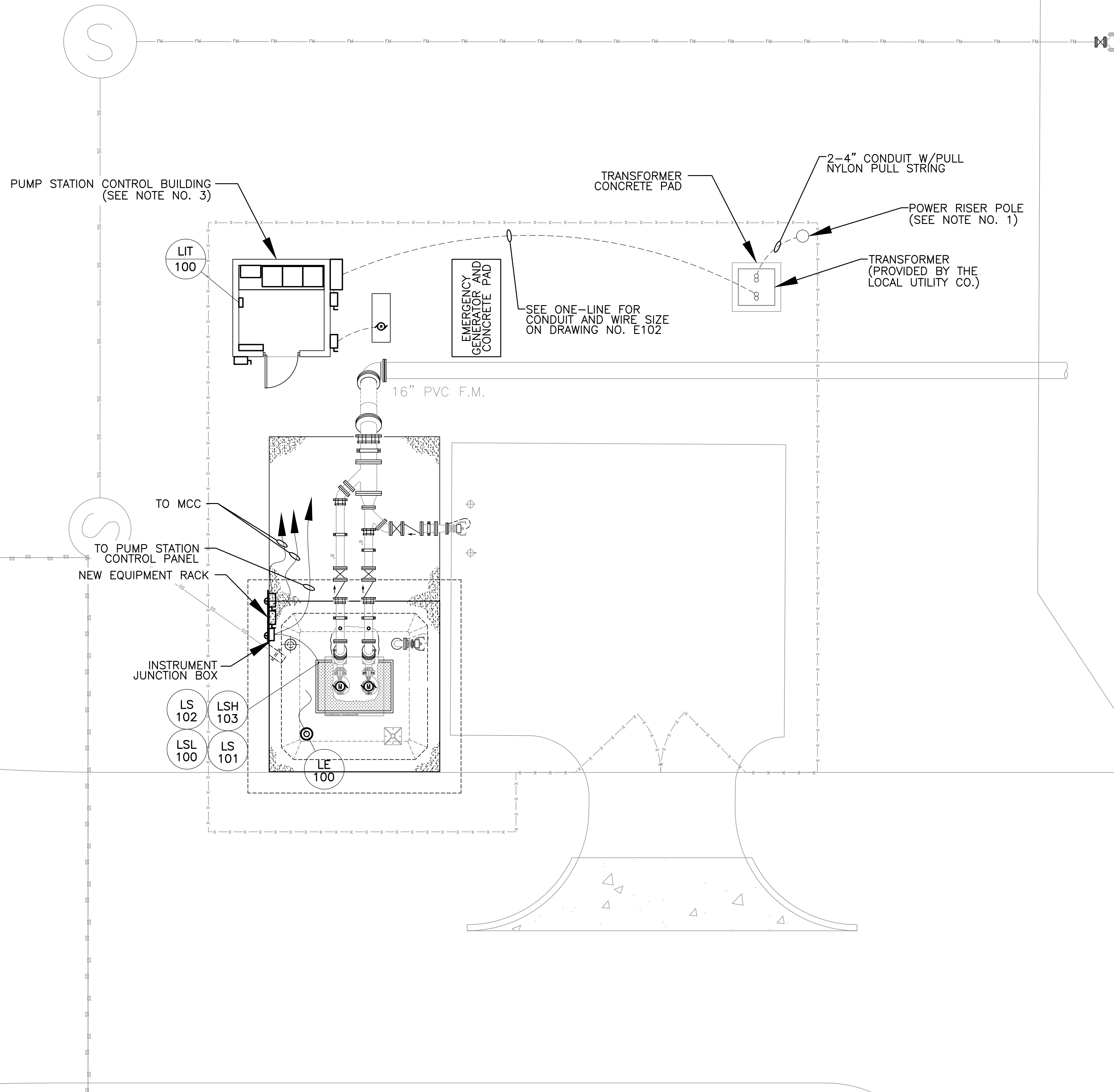
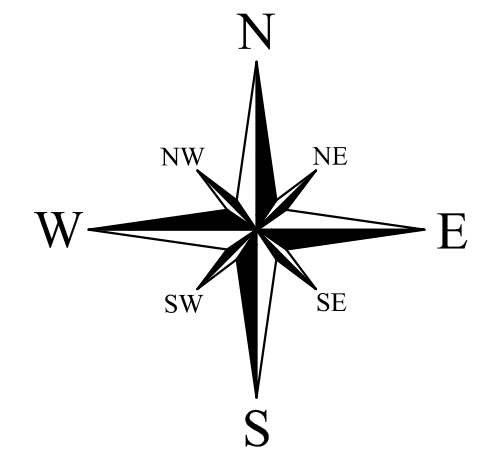
PLANTER'S POINTE LIFT STATION

MISCELLANEOUS DETAILS

JOB NO.: 21-1101-0257 DRAWING NO.: C607 REVISION NO.: A

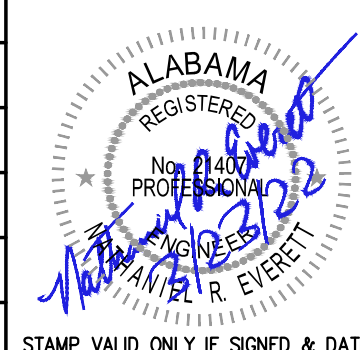
NOTES:

1. THE NEW RISER POLE SHALL BE INSTALLED AS REQUIRED BY THE LOCAL UTILITY COMPANY, ORDINANCES AND THE AUTHORITY HAVING JURISDICTION.
2. THE LOCAL UTILITY COMPANY SHALL PROVIDE THE OVERHEAD SERVICE POLES AND LINES FROM THE HIGHWAY ALONG THE ROAD TO THE NEW RISER POLE.
3. SEE DRAWING NO. E102 FOR CONTROL BUILDING FLOOR PLAN.
4. ALL INSTRUMENT TAG NUMBERS ARE ARBITRARILY ASSIGNED FOR CLARITY ONLY. IT SHALL BE THE CONTROL SYSTEM PROGRAMMER WHO SHALL BE RESPONSIBLE FOR ASCERTAINING THE ACTUAL EXISTING INSTRUMENT TAG NUMBERS AND THE AVAILABLE NUMBERS REQUIRED TO REPROGRAM THE EXISTING CONTROL SYSTEM TO PROVIDE A COMPLETE AND FULLY FUNCTIONAL EFFLUENT PUMP STATION CONTROL SYSTEM.



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REVISION NO.	DESCRIPTION	DATE	BY:
A	90% SUBMITTAL	12/20/21	NRE
B	ISSUED FOR CONSTRUCTION	2/9/22	NRE
C	REVISED SITE PLAN	3/23/22	NRE



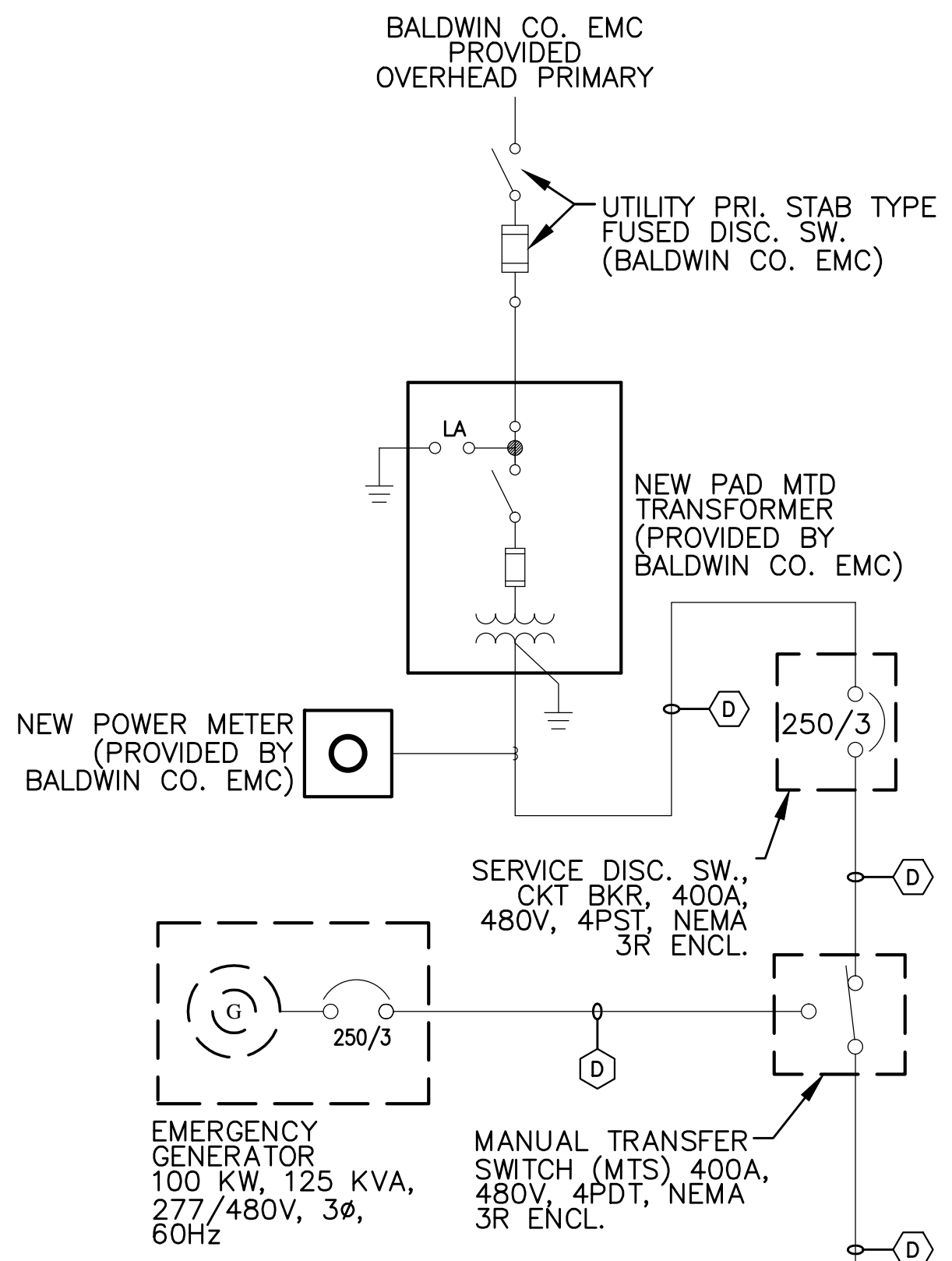
CITY OF FAIRHOPE UTILITIES
FAIRHOPE, ALABAMA

PUMP STATION AND FORCE MAIN IMPROVEMENTS

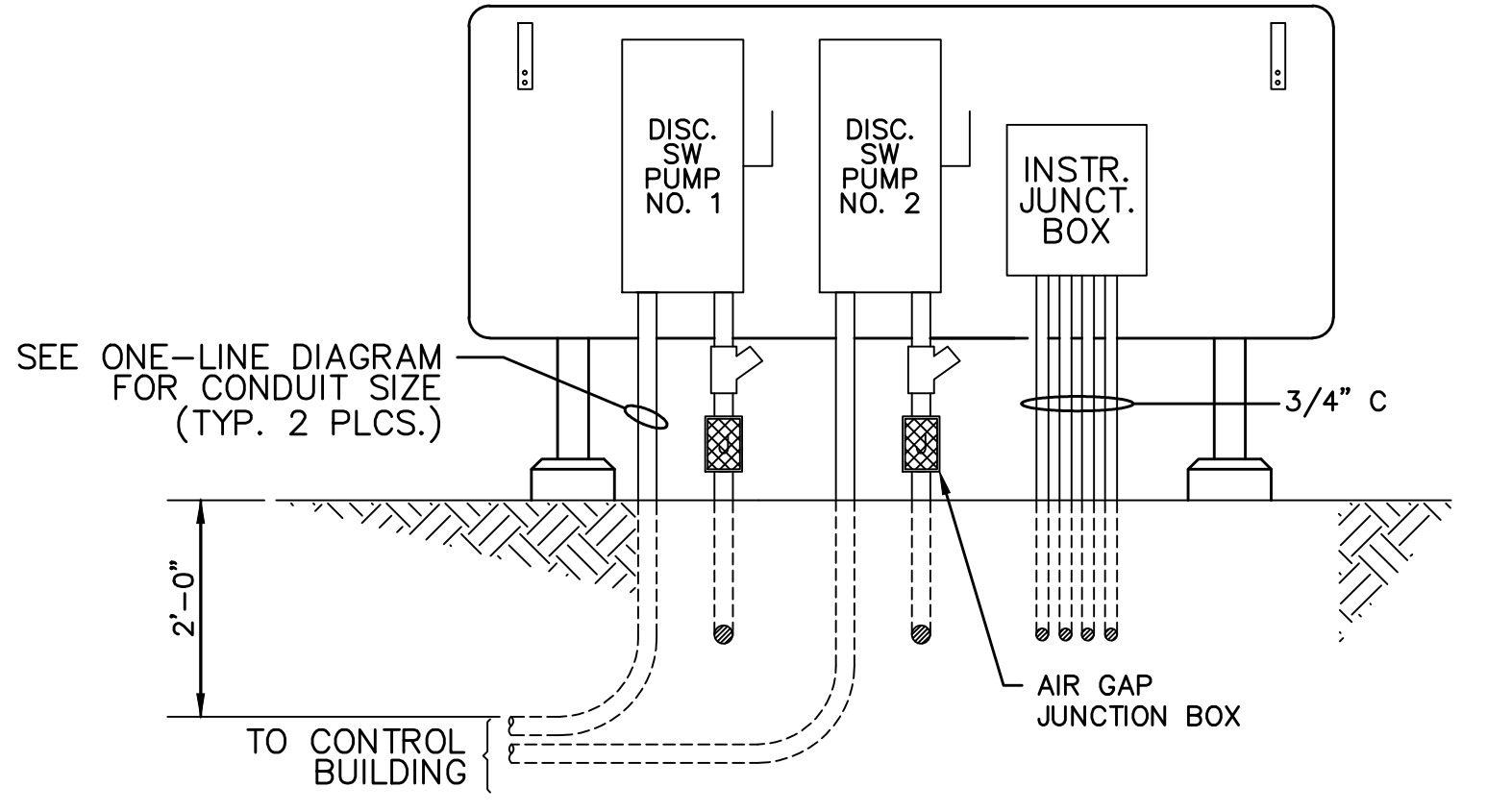


PUMP STATION SITE PLAN

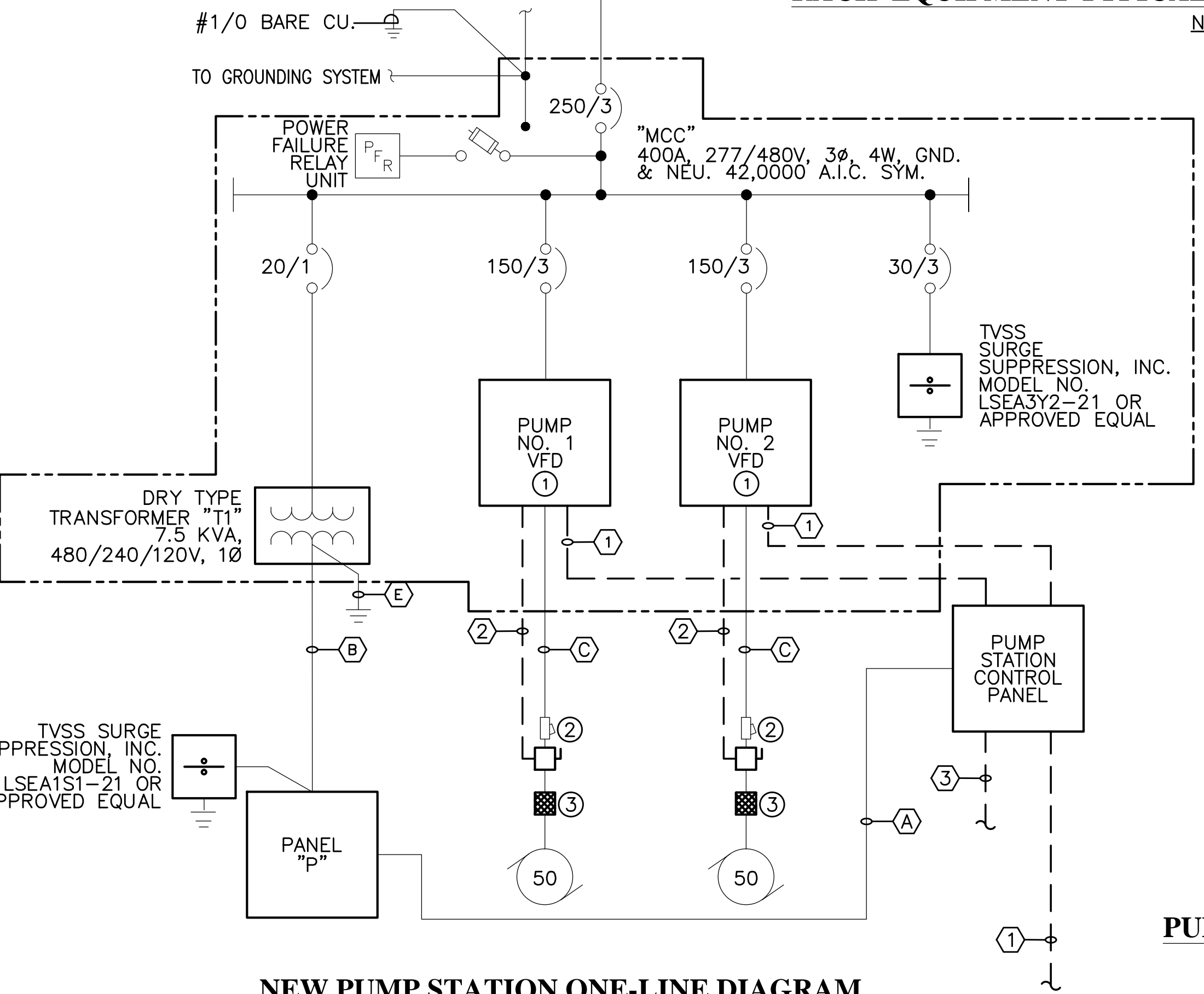
2970 COTTAGE HILL RD., STE. 190 MOBILE, ALABAMA 36606	SCALE: 1:1	PLLOT SCALE: 1:1	DRAWN BY: NRE	CHECKED BY: DLU	APPROVED BY: MCR	DATE: DECEMBER 2021	JOB NO.: 21-1101-0257	DRAWING NO.: E101	REVISION NO.: C
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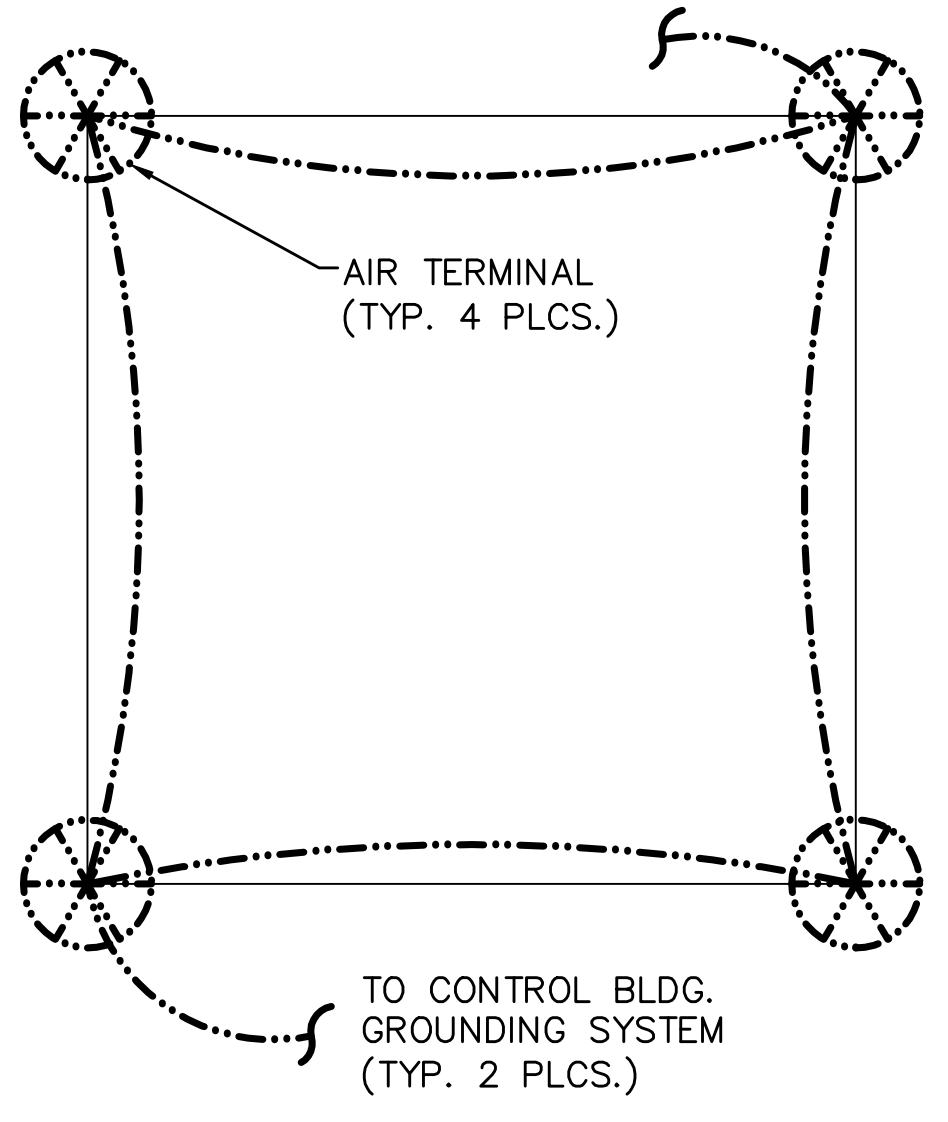
CABLE SCHEDULE NO. "CS-1"				
SYMBOL	DESCRIPTION	(A)	(B)	(C)
①	10 #14, 6 #14 SPARE, 2-1 PR #16 SHLD.	2 #12, 1 #12 GRND, 3/4" C	3 #8, 1 #10 GRND, 3/4" C	
②	FROM PUMP DISCONNECT SW. 2 #14, 2 #14 SPARE, 3/4" C	3 #2, 1 #6 GRND, 1 1/2" C		
③	FROM LIT-100 1 PR #16 SHLD, 3/4" C	4 #4/0, 1 #4 GND., 2 1/2" C		
		1 #10 BARE CU.		



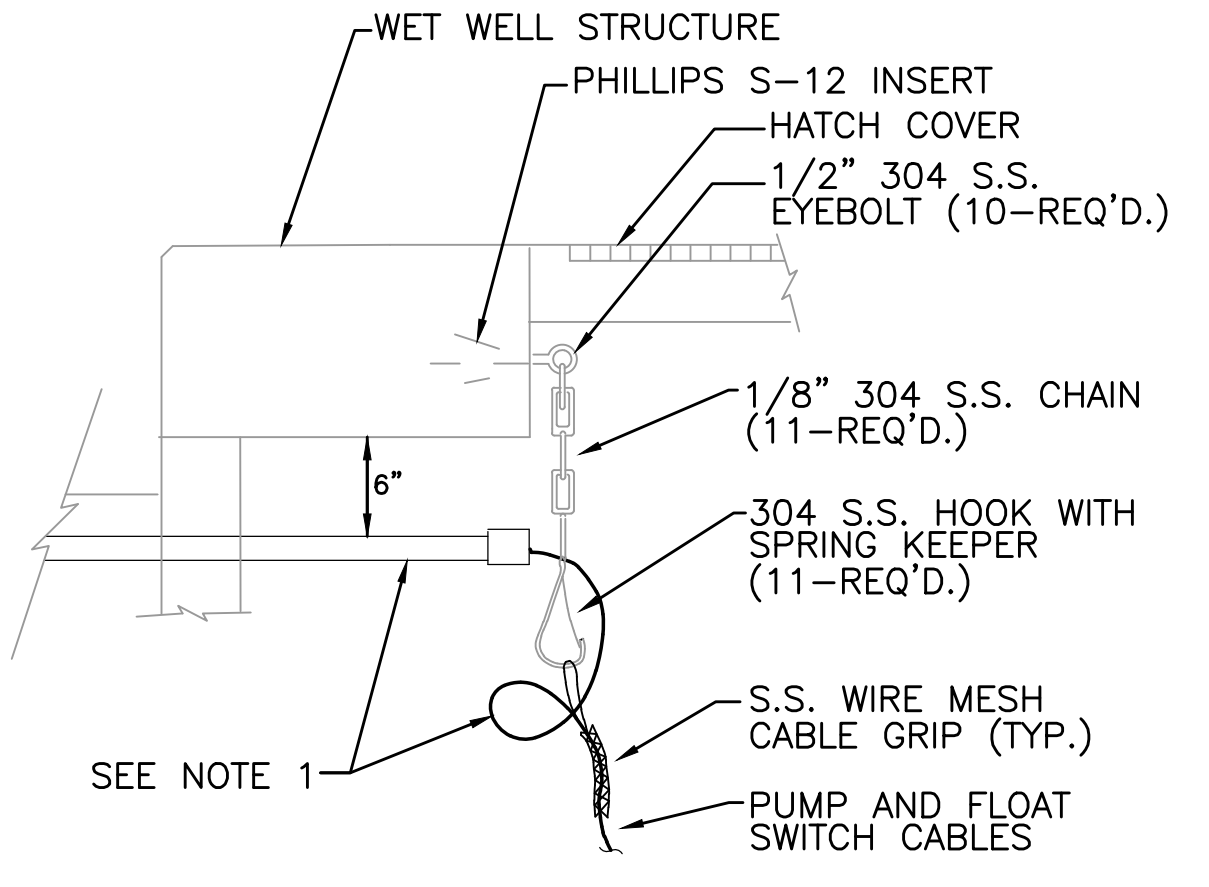
RACK EQUIPMENT TYPICAL MOUNTING CONFIGURATION
N.T.S.



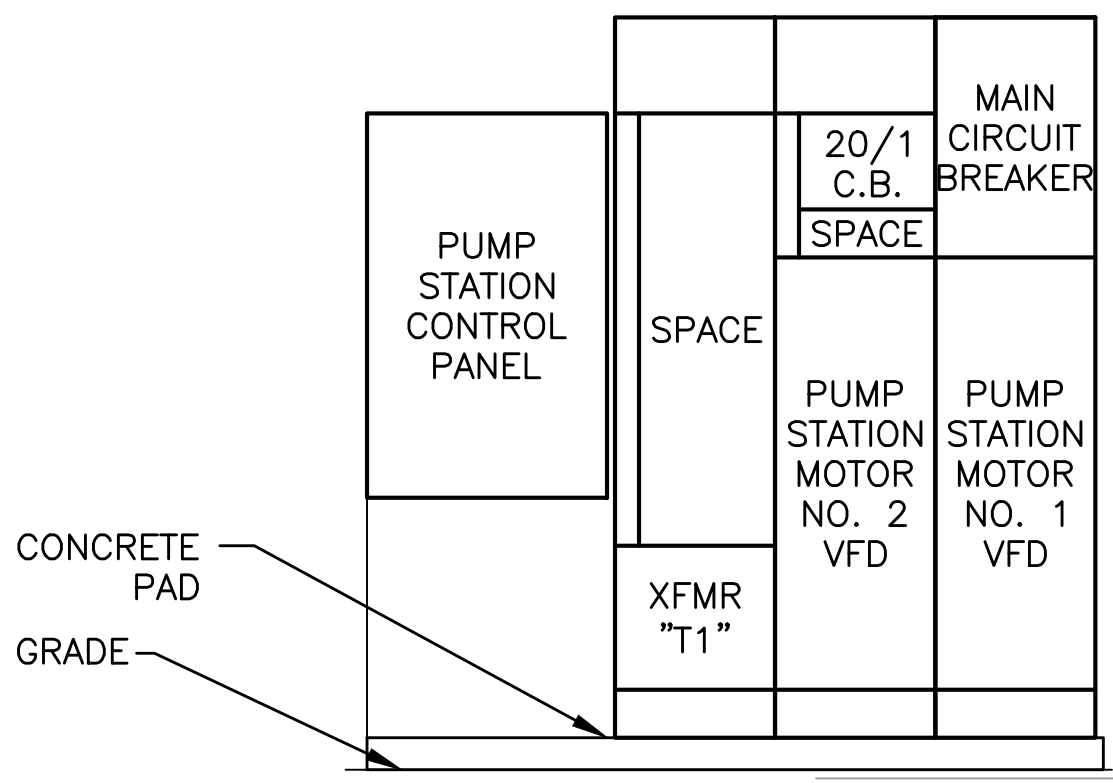
NEW PUMP STATION ONE-LINE DIAGRAM
NOT TO SCALE



PUMP STATION CONTROL BLDG. ROOF TOP
SCALE: NOT TO SCALE



WET WELL CONDUIT DETAIL
SCALE: NOT TO SCALE



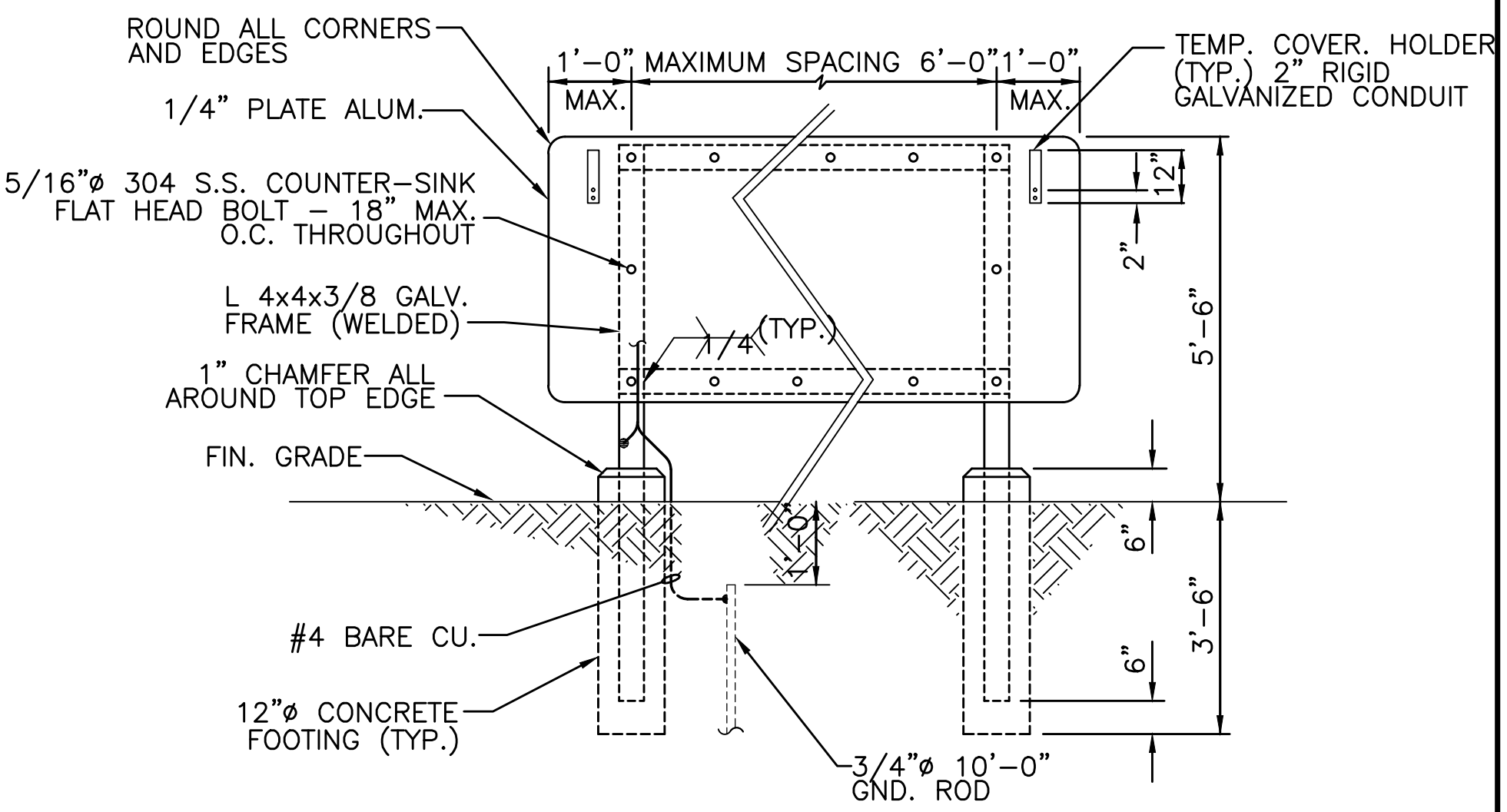
PUMP STATION CONTROL BLDG. MCC ELEVATION
SCALE: NOT TO SCALE

KEYNOTES:

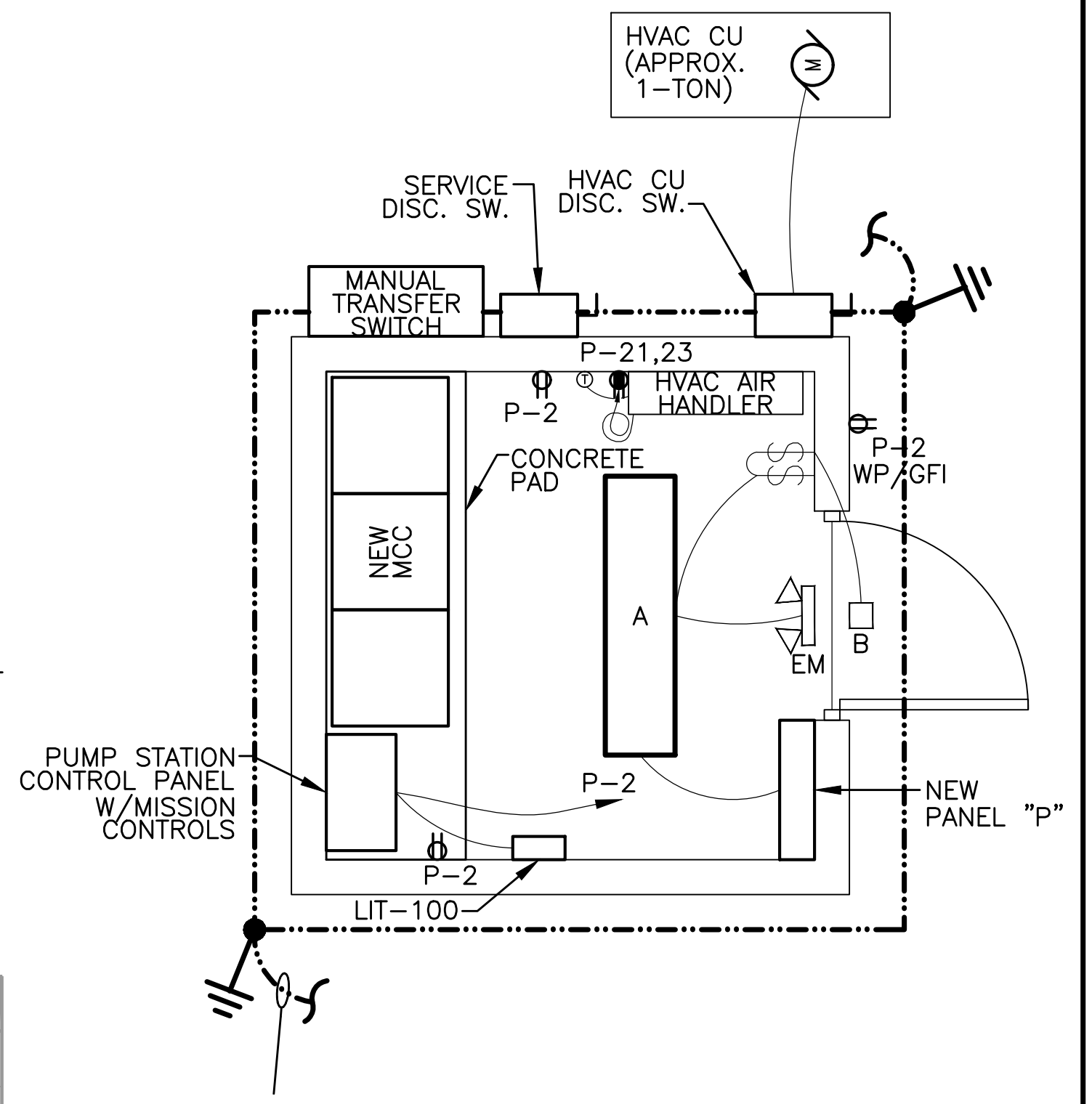
- THE VARIABLE FREQUENCY DRIVES, MCC AND CIRCUIT BREAKERS SHALL BE COORDINATED AS REQUIRED BY THE SPECIFICATIONS TO ENSURE THAT THE EQUIPMENT IS PROPERLY SIZED AND FULLY COMPATIBLE.
- THE CONDUIT SEALS SHALL BE INSTALLED ON THE CONDUIT BETWEEN THE DISCONNECT SWITCHES AND THE CONTROL BUILDING.
- AIR GAP JUNCTION BOX WITH A WIRE MESH FACE PLATE. THE JUNCTION AND WIRE MESH FACE PLATE SHALL BE ALUMINUM.

DISCONNECT SWITCH SCHEDULE					
SERVICE	AMPERE	VOLTAGE	NO. POLES	FUSE TYPE	ENCLOSURE TYPE
PUMP MOTOR NO. 1	200	480	3	NON	NEMA 3R
PUMP MOTOR NO. 2	200	480	3	NON	NEMA 3R

NOTE: CONTRACTOR SHALL COORDINATE EXACT SIZES WITH ACTUAL EQUIPMENT BEING INSTALLED.



TYPICAL EQUIPMENT MOUNTING RACK
SCALE: 1/2"=1'-0"±



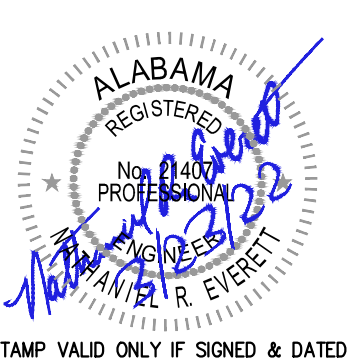
PUMP STATION CONTROL BLDG. FLOOR PLAN
SCALE: NOT TO SCALE

LIGHT FIXTURE SCHEDULE					
NEW TYPE	MANUFACTURER	CATALOG NUMBER	MOUNTING	LAMPS	
				NO.	TYPE
A	KENALL	S711DPPDB42P1DVEL	SURFACE	1	42W FLUORESCENT
B	KENALL	METELHC-48N-MW-2-12H-DT	SURFACE	2	12W INCANDESCENT
EM	KENALL	METELHC-48N-MW-2-12H-DT	SURFACE	2	12W INCANDESCENT

NOTE: ALL FIXTURES AND ACCESSORIES SHALL BE APPROVED BY THE ARCHITECT, ENGINEER AND OWNER.

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REVISION NO.	DESCRIPTION	DATE	BY:
A	90% SUBMITTAL	12/20/21	NRE
B	ISSUED FOR CONSTRUCTION	2/9/22	NRE
C	REVISED SITE PLAN	3/23/22	NRE



CITY OF FAIRHOPE UTILITIES
FAIRHOPE, ALABAMA

thompson ENGINEERING

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SCALE: 1:1

PLOT SCALE: 1:1

DRAWN BY: NRE

CHECKED BY: DLU

APPROVED BY: MCR

DATE: DECEMBER 2021

JOB NO.: 21-1101-0257

DRAWING NO.: E102

REVISION NO.: C

PUMP STATION AND FORCE MAIN IMPROVEMENTS

PUMP STATION DETAILS

