

2016 SPLOST NORTH MAINLAND PH-II PUMP STATION IMPROVEMENTS - 8/22/19



2016 SPLOST NORTH MAINLAND PH-II PUMP STATION IMPROVEMENTS BRUNSWICK, GA



PREPARED FOR:
BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
1703 GLOUCESTER ST, BRUNSWICK, GA 31520

COMMISSION MEMBERS

<u>CHAIRMAN</u>	<u>VICE CHAIRMAN</u>
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MR. BOB DUNCAN	MR. TRIPP STEPHENS
MR. CORNELL L. HARVEY	MR. DONALD M. ELLIOT
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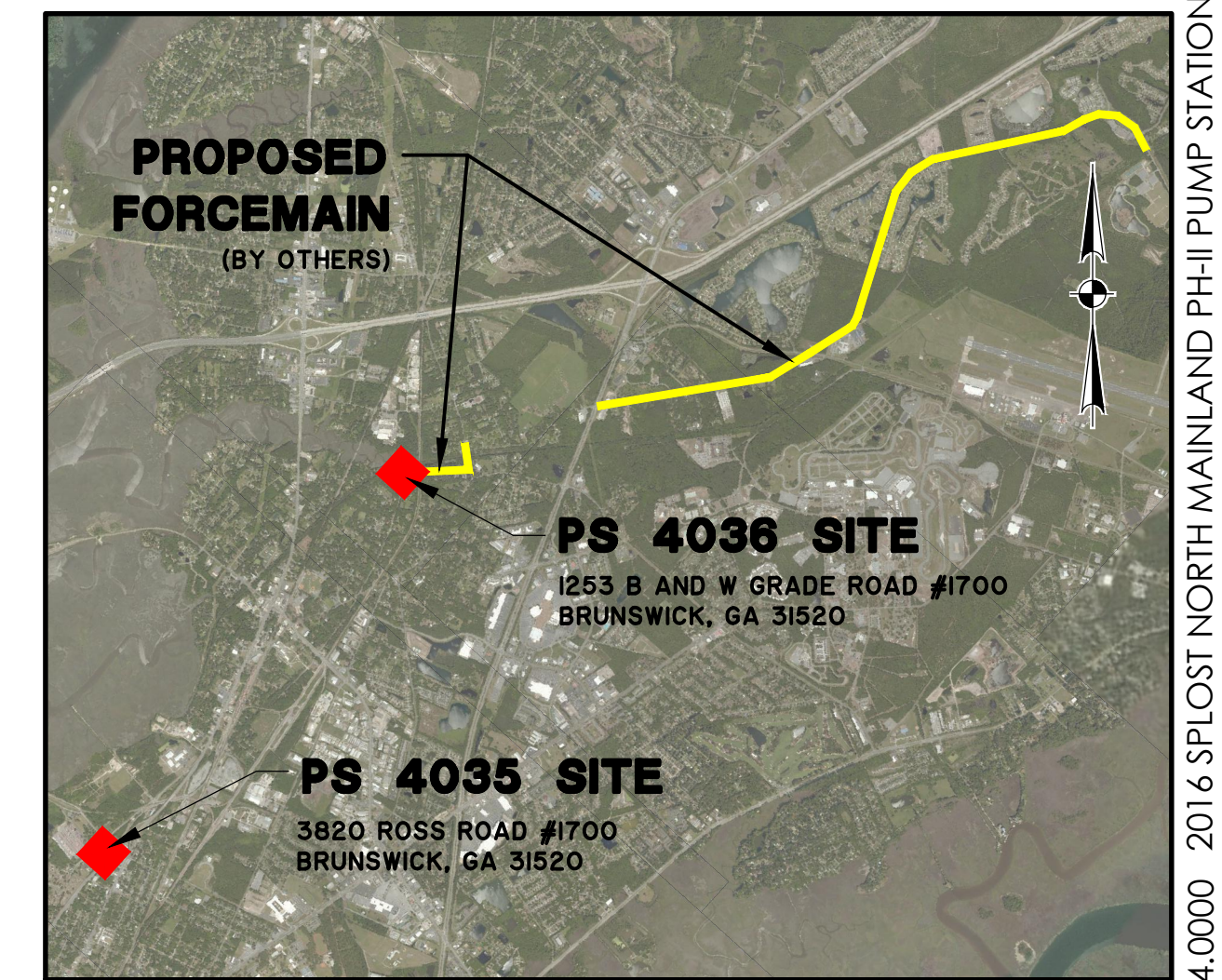
EXECUTIVE DIRECTOR
MR. ANDREW BURROUGHS, PE

DIRECTOR OF ENGINEERING
MR. TODD KLINE, PE

JANUARY 2020

J-27784.0000

PREPARED BY:



VICINITY MAP
SCALE: 1" = 5000'

J-27784.0000 2016 SPLOST NORTH MAINLAND PH-II PUMP STATION IMPROVEMENTS 8/22/19

Sheet List Table

Sheet Number	Sheet Title
G0.1	COVER SHEET
G1.1	GENERAL NOTES
G1.2	VICINITY MAP
C1.1	SITE PLAN - PS 4035 BYPASS PIPING
C1.2	PS 4035 - ENTRANCE FLOOR PLAN
C1.3	PS 4035 - INTERMEDIATE PLAN
C1.4	PS 4035 - BOTTOM PLAN
C1.5	PS 4035 - ELEVATION FACING EAST
C1.6	PS 4035 - ELEVATION FACING NORTH
C1.7	PS 4035 - ELEVATION FACING NORTH JOCKEY PUMP
C2.1	SITE PLAN - PS 4036 BYPASS PIPING
C2.2	PS 4036 - ENTRANCE FLOOR PLAN
C2.3	PS 4036 - INTERMEDIATE PLAN
C2.4	PS 4036 - BOTTOM PLAN
C2.5	PS 4036 - ELEVATION FACING SOUTHWEST
C2.6	PS 4036 - ELEVATION FACING SOUTHEAST
C2.7	PS 4036 - ELEVATION FACING SOUTHEAST JOCKEY PUMP
C2.8	PUMP STATION BUILDING DETAILS
C2.9	PUMP STATION BUILDING DOOR SCHEDULE
C2.10	PUMP STATION HANDRAIL DETAILS
C2.11	PUMP STATION HANDRAIL DETAILS
E0.1	LEGEND, NOTES, AND FIXTURE SCHEDULE
E1.1	P.S. 4035 LIGHTING AND POWER PLAN
E1.2	P.S. 4036 LIGHTING AND POWER PLAN
E2.1	P.S. 4035 ONE LINE AND PANEL SCHEDULE
E2.2	P.S. 4036 ONE LINE AND PANEL SCHEDULE
E3.1	SCADA SYSTEM DETAILS
M1.1	4035 & 4036 FLOOR PLAN - HVAC

REVISION HISTORY

REV. NO.	REVISION	BY	DATE

SUBMITTAL HISTORY

SUBMITTED TO	DATE



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GENERAL NOTES:

1. TOPOGRAPHIC INFORMATION FOR NORTH MAINLAND PHASE II AND III IMPROVEMENTS IS BASED ON SURVEY DATA PREPARED BY THOMAS & HUTTON. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND OTHER SALIENT FEATURES PRIOR TO BEGINNING CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTACT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES.
3. ALL ELEVATIONS REFER TO NAVD 88.
4. THE CONTRACTOR SHALL GRASS ALL AREAS DISTURBED BY CONSTRUCTION IMMEDIATELY AFTER THE DISTURBANCE.
5. THE CONTRACTOR SHALL PROTECT AND SAVE ALL SPECIMEN TREES AND/OR ANY TREE DESIGNATED ON THE PLANS OR BY THE OWNER. CONTRACTOR TO PROTECT AND SAVE TREES BY INSTALLING 4 FOOT HIGH TEMPORARY ORANGE CONSTRUCTION FENCE AROUND THE TREE.
6. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH LOCAL UTILITY COMPANIES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND ANY NECESSARY REPAIRS TO EXISTING UTILITY LINES AT NO COST TO THE UTILITY OWNER.
7. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS DISCOVERED PRIOR TO BEGINNING ANY REMOVAL OPERATION.
8. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY BRACING, SHEETING AND DEWATERING TO COMPLETE THE PROJECT, PROTECT THE CONSTRUCTION WORKERS AND ALL ADJACENT STRUCTURES, TREES, LANDSCAPING, AND IS RESPONSIBLE FOR ALL REPAIR AND COST TO RETURN AREA TO ORIGINAL CONDITION.
9. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE BEGINNING ANY CONSTRUCTION (1-800-282-7411 OR 811).
10. ALL UTILITY POLES ADJACENT TO PROPOSED CONSTRUCTION MUST BE SECURED PRIOR TO ANY ADJACENT DISTURBANCE AND THE CONSTRUCTION PROCEDURE MUST BE ACCEPTABLE TO THE UTILITY COMPANY.
11. CONTROL OF STORMWATER THROUGHOUT THE CONSTRUCTION PERIOD, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE EXISTING DRAINAGE CONVEYANCES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL PENALTIES, CLAIMS AND FEES IMPOSED ON THE OWNER AS A RESULT OF DAMAGE CAUSED BY ACTIONS OF THE CONTRACTOR, THEIR EMPLOYEES OR SUBCONTRACTORS SHALL BE BORNE IN FULL BY THE CONTRACTOR.
12. ALL SUITABLE MATERIAL EXCAVATED DURING UTILITY CONSTRUCTION SHALL BE USED ON SITE. ANY EXCESS MATERIAL SUITABLE OR UNSUITABLE SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE.
13. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES BEFORE WORK COMMENCES, VERIFY UTILITIES WITHIN THE PROJECT LIMITS AND NOTIFY THE ENGINEER OF CONFLICTS OR VARIANCES TO THE PLANS PRIOR TO BEGINNING WORK OR PURCHASE OF MATERIALS.
14. IT IS THE OBLIGATION OF THE CONTRACTOR TO MAKE THEIR OWN INTERPRETATION OF ALL SURFACE AND SUBSURFACE DATA AVAILABLE AS TO THE NATURE AND EXTENT OF THE MATERIALS TO BE EXCAVATED, WASTED, GRADED, AND COMPACTED. THE INFORMATION SHOWN ON THESE PLANS IN NO WAY GUARANTEES THE AMOUNT OR NATURE OF THE MATERIAL TO BE ENCOUNTERED.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DEVICES AND MEASURES AS NECESSARY TO MEET THE REQUIREMENTS OF THE GEORGIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (GA MUTCD). CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO OWNER FOR REVIEW AND ACCEPTANCE PRIOR TO STARTING CONSTRUCTION.
16. ALL WORK SHALL CONFORM TO APPLICABLE STATE, COUNTY AND MUNICIPAL REQUIREMENTS AND CODES.
17. THE CONTRACTOR SHALL COORDINATE DEMOLITION AND IMPROVEMENTS TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF FACILITIES.
18. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN ACCEPTABLE WASTE DISPOSAL AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL CONSTRUCTION DEBRIS.
19. ALL STORM DRAIN JOINTS ARE TO BE WRAPPED IN FILTER FABRIC.
20. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION UNTIL THE PROPER PERMITS HAVE BEEN ISSUED.
21. ALL WATER MAINS, FORCE MAINS AND GRAVITY SEWER SHALL HAVE A MINIMUM OF 3 FEET OF COVER MEASURED FROM FINISHED GRADE EXCEPT WHERE OTHERWISE NOTED ON THE PLANS.
22. MAINTAIN A 10' HORIZONTAL SEPARATION BETWEEN ALL SANITARY SEWERS AND ALL WATER MAINS. WHERE THIS SEPARATION CANNOT BE MAINTAINED, OR WHERE LINES CROSS, PROVIDE A 18" MINIMUM VERTICAL SEPARATION BETWEEN THE OUTSIDE OF THE PIPES. IF THESE REQUIREMENTS CANNOT BE MET, PROPOSED WATERLINE WILL BE INSTALLED IN CASING PER JWSC SPECIFICATIONS.
23. ALL MANHOLE TOPS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND SET MANHOLE TOPS RELATIVE TO FINISHED GRADES AS SHOWN ON THE PLANS.
24. ANY DEFECTIVE, DAMAGED, OR UNSOUND PIPE SHALL BE REJECTED. ALL FOREIGN MATTER OR DIRT SHALL BE REMOVED FROM INSIDE OF PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND SHALL BE KEPT CLEAN BY ACCEPTED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT DIRT FROM ENTERING THE JOINT SPACE. AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS THE ENDS OF THE PIPE SHALL BE CLOSED BY ACCEPTED MEANS AND NO TRENCH WATER SHALL BE PERMITTED IN THE PIPE.
25. ALL PVC SANITARY SEWER PIPE AND PVC FORCE MAIN PIPE SHALL BE GREEN IN COLOR. ALL PVC WATER MAIN PIPE SHALL BE BLUE IN COLOR. ALL PVC RECLAIMED WATER PIPE SHALL BE PURPLE IN COLOR.

26. TREE PROTECTION BARRICADES, IF REQUIRED, SHALL BE INSTALLED PRIOR TO ANY CLEARING ACTIVITY AND MAINTAINED UNTIL INSTRUCTED BY THE OWNER OR ENGINEER TO REMOVE THEM.
27. DURING INSTALLATION, WHEN PIPE LAYING IS NOT IN PROGRESS, A MECHANICAL JOINT PLUG OR CAP, OR ACCEPTED EQUIVALENT WILL BE USED TO FORM A WATERTIGHT SEAL AT BOTH ENDS OF THE LINE BEING LAID.
28. A #12 GAUGE INSULATED SINGLE STRAND COPPER WIRE SHALL BE STRAPPED TO ALL WATER AND SEWER PIPES. FOR RECLAIMED WATER PIPE USE #12 GAUGE INSULATED SINGLE STRAND COPPER WIRE, PURPLE IN COLOR.
29. DISCHARGE OF HIGHLY CHLORINATED WATER INTO SURROUNDING AREAS OR STORM DRAINAGE SYSTEM IS PROHIBITED. DISPOSAL OF HIGHLY CHLORINATED WATER SHALL COMPLY WITH THE REQUIREMENTS OF GEORGIA E.P.D. AND AWWA STANDARD C651, LATEST REVISION. IF REQUIRED BY THE ENGINEER, A REDUCING AGENT SHALL BE USED TO NEUTRALIZE THE CHLORINE.
30. ALL SIGNS, MAIL BOXES, SHRUBBERY, FENCES, LANDSCAPING OR EXISTING STRUCTURES INTERFERING WITH CONSTRUCTING SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
31. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY EXISTING WATER AND SEWER UTILITIES DAMAGED DURING CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
32. "AS-BUILT" DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR BASED ON A "RECORD SURVEY" OF CONSTRUCTED UTILITIES AND APPURTENANCES. THE RECORD SURVEY MUST BE COMPLETED AND SIGNED BY A REGISTERED LAND SURVEYOR. THE CONTRACTOR SHALL PROVIDE A SET OF "MARKED UP" AS BUILT DRAWINGS AS WELL AS A CD ROM CONTAINING THE AS BUILT INFORMATION IN ELECTRONIC FORM. AT A MINIMUM THE AS BUILT INFORMATION AND RECORD SURVEY SHALL INCLUDE VALVE AND BOX LOCATIONS, FRAME AND INVERT ELEVATIONS. THE LOCATIONS OF WATER PIPE, FITTINGS, RIP-RAP, SLEEVES, PAVING AND GRAVEL REPLACEMENT, STORM SEWER REPLACEMENT AND ALL OTHER CONSTRUCTION INSTALLATIONS.
33. ALL MATERIALS USED AND COME INTO CONTACT WITH DRINKING WATER DURING ITS DISTRIBUTION SHALL NOT ADVERSELY AFFECT DRINKING WATER QUALITY AND PUBLIC HEALTH AND MUST BE CERTIFIED FOR CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION STANDARD 61 (ANSI/NSF STANDARD 61).
34. UNDERGROUND UTILITIES ARE SHOWN ON PLANS ONLY WHERE THEY MAY BE CLOSE TO CONSTRUCTION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION ACTIVITIES.
35. ALL CONSTRUCTION WATER SHALL BE METERED THROUGH AN ACCEPTABLE HYDRANT METER AND BACKFLOW DEVICE OBTAINED FROM THE BGJWSC.
36. THE PROPERTY LINES AND RIGHT-OF-WAY LINES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE FOR INFORMATION ONLY. THEY HAVE NOT BEEN VERIFIED BY A PROPERTY SURVEY OR THOMAS & HUTTON.
37. ALL DISTURBED AREAS SHALL BE GRASSED WITH TEMPORARY SEEDING AND MULCHED IMMEDIATELY AFTER GRADING IS COMPLETE. THESE AREAS SHALL BE REGASSED WITH PERMANENT SEEDING AFTER CONSTRUCTION IS COMPLETE.
38. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE CONSTRUCTED SIMULTANEOUSLY WITH THE DISTURBANCE OF THE LAND AND SHALL REMAIN FUNCTIONAL UNTIL THE CONTRIBUTING DISTURBED AREAS ARE STABILIZED.
39. THE CONTRACTOR SHALL IMMEDIATELY REPAIR EXISTING WATER & SEWER SERVICES DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.
40. ALL CONNECTIONS TO THE EXISTING WATER AND SEWER SYSTEMS SHALL BE COORDINATED WITH THE BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION (BGJWSC). THE CONTRACTOR SHALL CONTACT BGJWSC AT (912) 261-7122 A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.
41. BYPASS PUMPING UNIT SHALL BE PRESENT AND READY TO OPERATE ON-SITE AT ALL TIMES WHILE IMPROVEMENT WORK IS IN PROGRESS. ALL TEMPORARY BYPASS PUMPING REQUIRED FOR REHAB WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THESE PUMPING REQUIREMENTS. ALL LABOR, DESIGN, EQUIPMENT, MATERIALS, RENTAL FEES, TEMPORARY PIPING AND INCIDENTALS SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION TO THE CONTRACT.
42. THE BGJWSC RESERVES FIRST RIGHT OF SALVAGE FOR ALL EQUIPMENT REMOVAL AT EACH SITE.
43. THE BGJWSC WILL RETAIN SALVAGE RIGHTS TO ALL MATERIALS AND EQUIPMENT RETAINED BY THE BGJWSC SHALL BE DELIVERED TO A PLACE DESIGNATED BY THE BGJWSC REPRESENTATIVE. ANY MATERIALS OR EQUIPMENT NOT RETAINED BY THE BGJWSC SHALL BE REMOVED FROM SITE AND DISPOSED OFF SITE BY THE CONTRACTOR IN ACCORDANCE WITH APPLICABLE REGULATION.
44. CONTRACTOR MUST PROVIDE ASSET INFORMATION IN A SPREADSHEET FOR ASSETS PURCHASED ON A SINGLE LINE ITEM COSTING \$500 OR MORE. THE SPREADSHEET WILL BE USED TO UPDATE THE RECORDS IN THE BGJWSC ASSET MANAGEMENT DATABASE TO REFLECT EQUIPMENT IN THE PLANT.
45. CONTRACTOR SHALL NOTIFY THE RESPONSIBLE BGJWSC, PLANNING AND CONSTRUCTION DIVISION, 48 HOURS PRIOR TO BEGINNING CONSTRUCTION ON PROJECT.

LEGEND:

- BENCHMARK
- BUSH
- COMPUTED POINT (NO MONUMENT)
- CONC. MONUMENT FOUND
- CURB INLET MANHOLE
- EVERGREEN TREE
- ELECTRIC METER
- FIRE HYDRANT
- FLOOD LIGHT
- GRATE INLET
- GUY WIRE
- IRON REBAR FOUND
- IRON PIPE FOUND
- IRON REBAR SET 5/8"
- LIGHT POLE
- MAIL BOX
- POST
- OAK TREE
- PALM TREE
- POWER POLE
- STORM DRAINAGE MANHOLE
- SIGN
- SANITARY MANHOLE
- TELEPHONE BOX
- TRAFFIC SWITCH BOX
- WATER MANHOLE
- WATER METER
- WATER VALVE
- LAO LAUREL OAK (SIZE AS NOTED)
- LO LIVE OAK (SIZE AS NOTED)
- PM PALM (SIZE AS NOTED)
- PN PINE (SIZE AS NOTED)
- WETLANDS



NO.	REVISIONS	BY	DATE

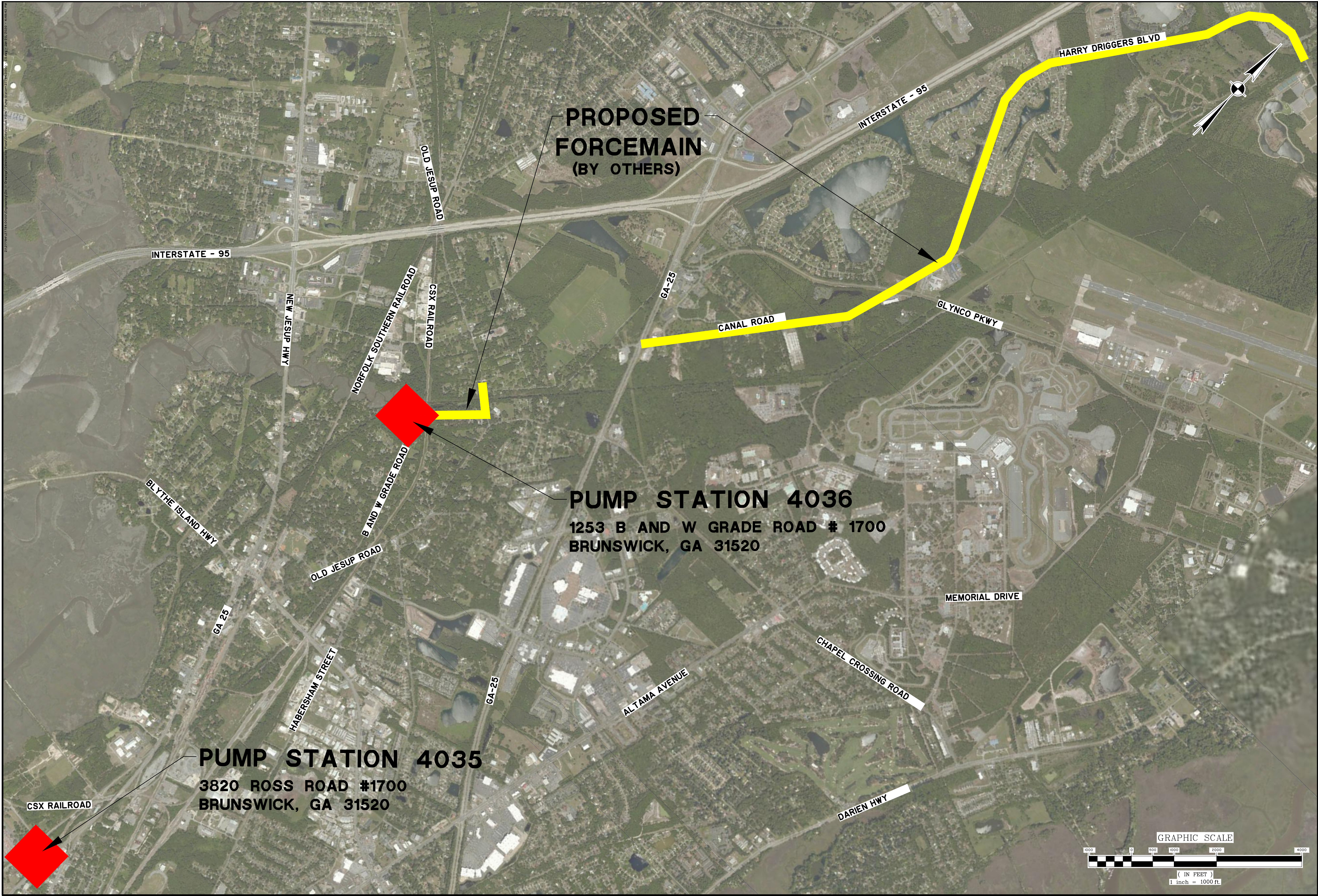
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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 206 SPLOST NORTH MAINLAND PH-II PUMP STATION IMPROVEMENTS
GENERAL NOTES

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	NONE

24-HOUR CONTACT:
 JASON VO, PE
 CAPITAL PROJECTS MANAGER
 PHONE: 912-324-9905
 BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION
 PLANNING & CONSTRUCTION DIVISION
 PHONE: 912-261-7126

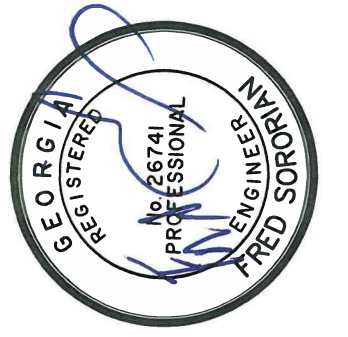
811
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**PROPOSED
FORCEMAIN
(BY OTHERS)**

PUMP STATION 4036
1253 B AND W GRADE ROAD # 1700
BRUNSWICK, GA 31520

PUMP STATION 4035
3820 ROSS ROAD #1700
BRUNSWICK, GA 31520



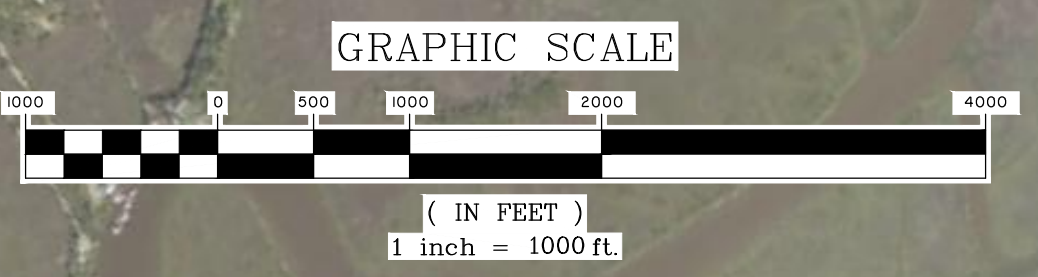
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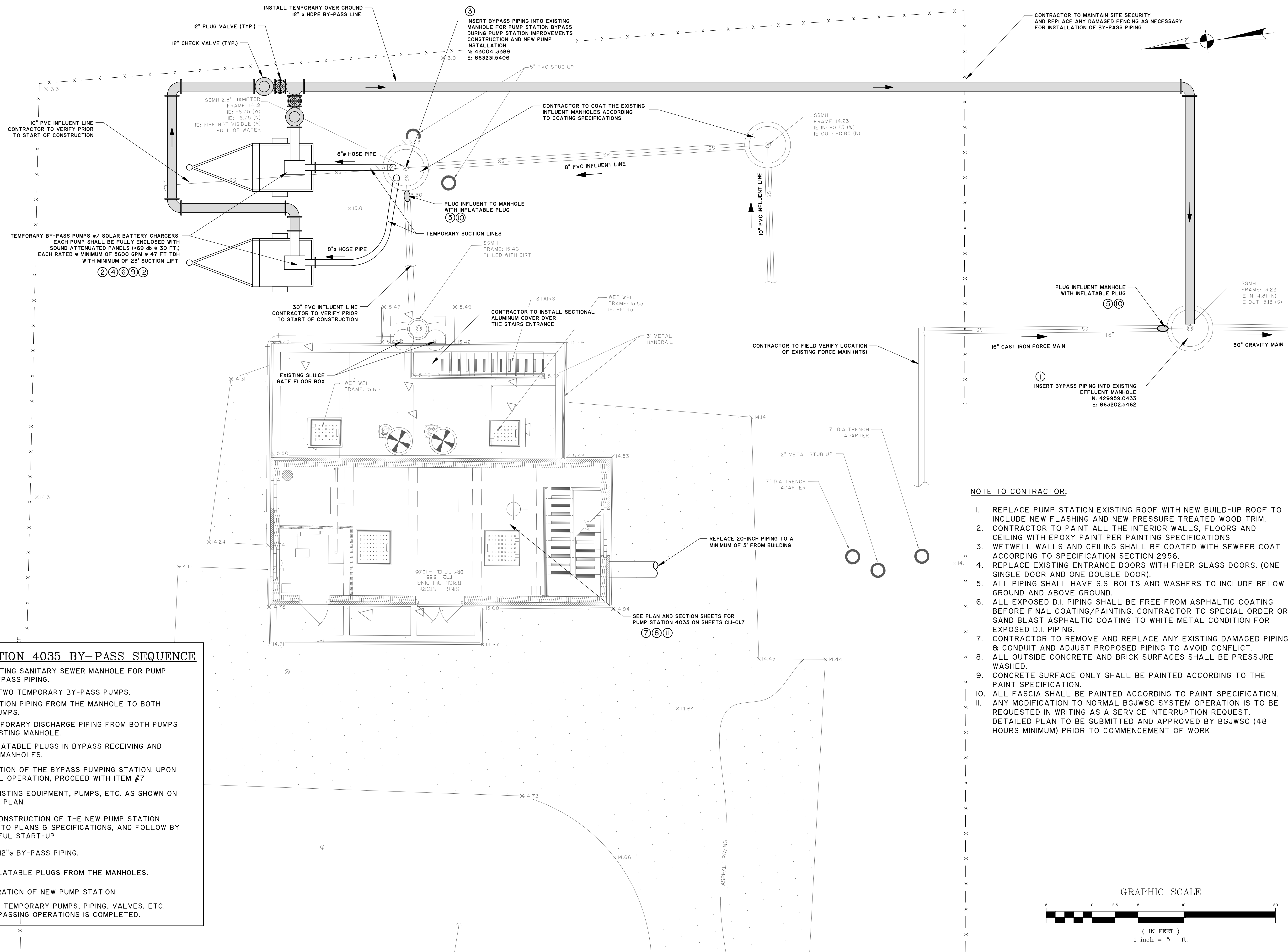
**BRUNSWICK-GLYNN JOINT WATER
AND SEWER COMMISSION**
BRUNSWICK, GA
206 SPLOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
VICINITY MAP

JOB NO: J-27784.0000
DATE: 8/22/19
DRAWN: CDR
DESIGNED: CDR
REVIEWED: FS
APPROVED: FS
SCALE: 1" = 1000'

G1.2

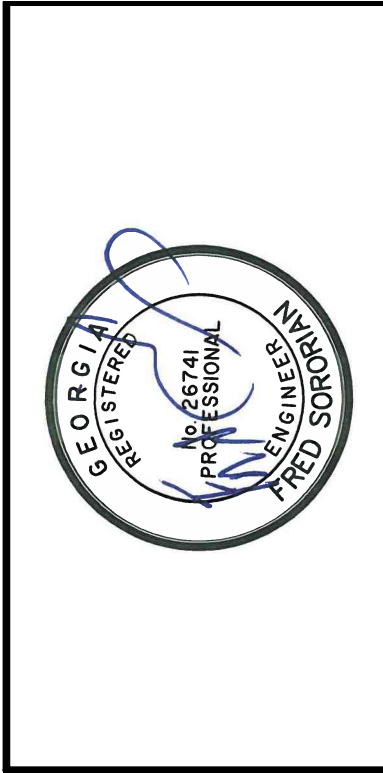
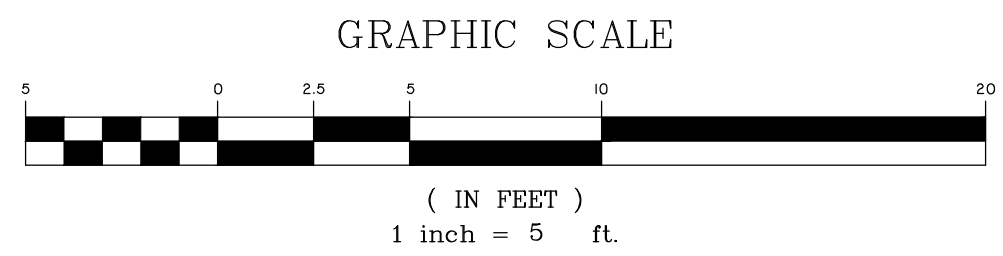


2017/04/27/18:00:00/Engineering/04-1 - Brunswick-Glynn Joint Water and Sewer Commission Pump Station 4035 - PS 4035 - Rev. 1.0000 - 180517.dwg



- PUMP STATION 4035 BY-PASS SEQUENCE**
- ① LOCATE EXISTING SANITARY SEWER MANHOLE FOR PUMP STATION BYPASS PIPING.
 - ② INSTALL (2) TWO TEMPORARY BY-PASS PUMPS.
 - ③ INSTALL SUCTION PIPING FROM THE MANHOLE TO BOTH BY-PASS PUMPS.
 - ④ INSTALL TEMPORARY DISCHARGE PIPING FROM BOTH PUMPS TO THE EXISTING MANHOLE.
 - ⑤ INSTALL INFLATABLE PLUGS IN BYPASS RECEIVING AND DISCHARGE MANHOLES.
 - ⑥ BEGIN OPERATION OF THE BYPASS PUMPING STATION. UPON SUCCESSFUL OPERATION, PROCEED WITH ITEM #7
 - ⑦ DEMOLISH EXISTING EQUIPMENT, PUMPS, ETC. AS SHOWN ON DEMOLITION PLAN.
 - ⑧ COMPLETE CONSTRUCTION OF THE NEW PUMP STATION ACCORDING TO PLANS & SPECIFICATIONS, AND FOLLOW BY A SUCCESSFUL START-UP.
 - ⑨ DISCONNECT 12" BY-PASS PIPING.
 - ⑩ REMOVE INFLATABLE PLUGS FROM THE MANHOLES.
 - ⑪ RESUME OPERATION OF NEW PUMP STATION.
 - ⑫ REMOVE ALL TEMPORARY PUMPS, PIPING, VALVES, ETC. AFTER BY-PASSING OPERATIONS IS COMPLETED.

- NOTE TO CONTRACTOR:**
1. REPLACE PUMP STATION EXISTING ROOF WITH NEW BUILD-UP ROOF TO INCLUDE NEW FLASHING AND NEW PRESSURE TREATED WOOD TRIM.
 2. CONTRACTOR TO PAINT ALL THE INTERIOR WALLS, FLOORS AND CEILING WITH EPOXY PAINT PER PAINTING SPECIFICATIONS.
 3. WETWELL WALLS AND CEILING SHALL BE COATED WITH SEWPER COAT ACCORDING TO SPECIFICATION SECTION 2956.
 4. REPLACE EXISTING ENTRANCE DOORS WITH FIBER GLASS DOORS. (ONE SINGLE DOOR AND ONE DOUBLE DOOR).
 5. ALL PIPING SHALL HAVE S.S. BOLTS AND WASHERS TO INCLUDE BELOW GROUND AND ABOVE GROUND.
 6. ALL EXPOSED D.I. PIPING SHALL BE FREE FROM ASPHALTIC COATING BEFORE FINAL COATING/PAINTING. CONTRACTOR TO SPECIAL ORDER OR SAND BLAST ASPHALTIC COATING TO WHITE METAL CONDITION FOR EXPOSED D.I. PIPING.
 7. CONTRACTOR TO REMOVE AND REPLACE ANY EXISTING DAMAGED PIPING & CONDUIT AND ADJUST PROPOSED PIPING TO AVOID CONFLICT.
 8. ALL OUTSIDE CONCRETE AND BRICK SURFACES SHALL BE PRESSURE WASHED.
 9. CONCRETE SURFACE ONLY SHALL BE PAINTED ACCORDING TO THE PAINT SPECIFICATION.
 10. ALL FASCIA SHALL BE PAINTED ACCORDING TO PAINT SPECIFICATION.
- ANY MODIFICATION TO NORMAL BGJWSC SYSTEM OPERATION IS TO BE REQUESTED IN WRITING AS A SERVICE INTERRUPTION REQUEST. DETAILED PLAN TO BE SUBMITTED AND APPROVED BY BGJWSC (48 HOURS MINIMUM) PRIOR TO COMMENCEMENT OF WORK.



NO.	REVISIONS	BY	DATE

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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 206 SP. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
SITE PLAN - PS 4035 BYPASS PIPING

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1" = 5'

C1.1



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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 206 SP. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
PS 4035 - ENTRANCE FLOOR PLAN

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

C1.2

NOTE TO CONTRACTOR:

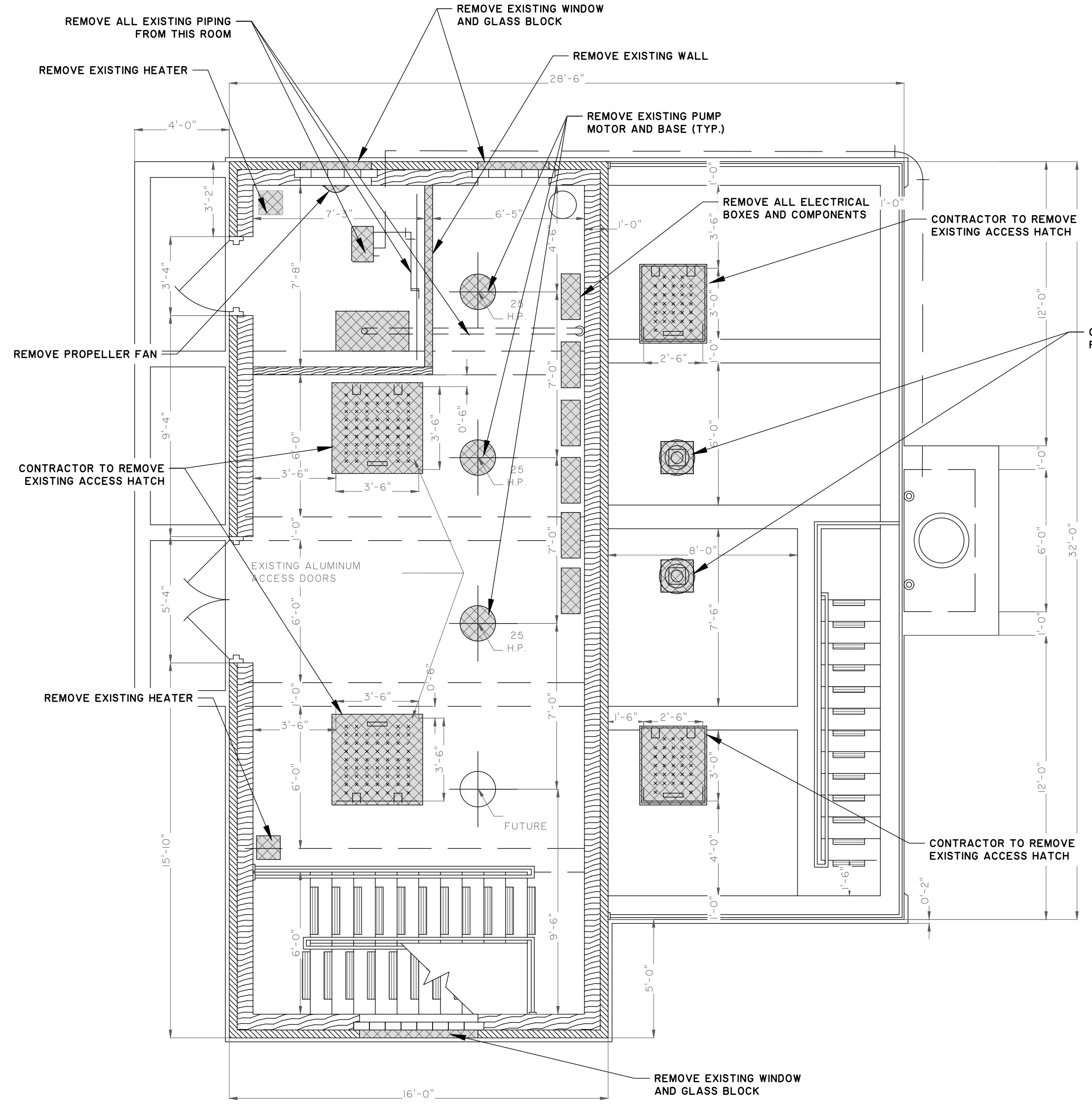
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LEGEND

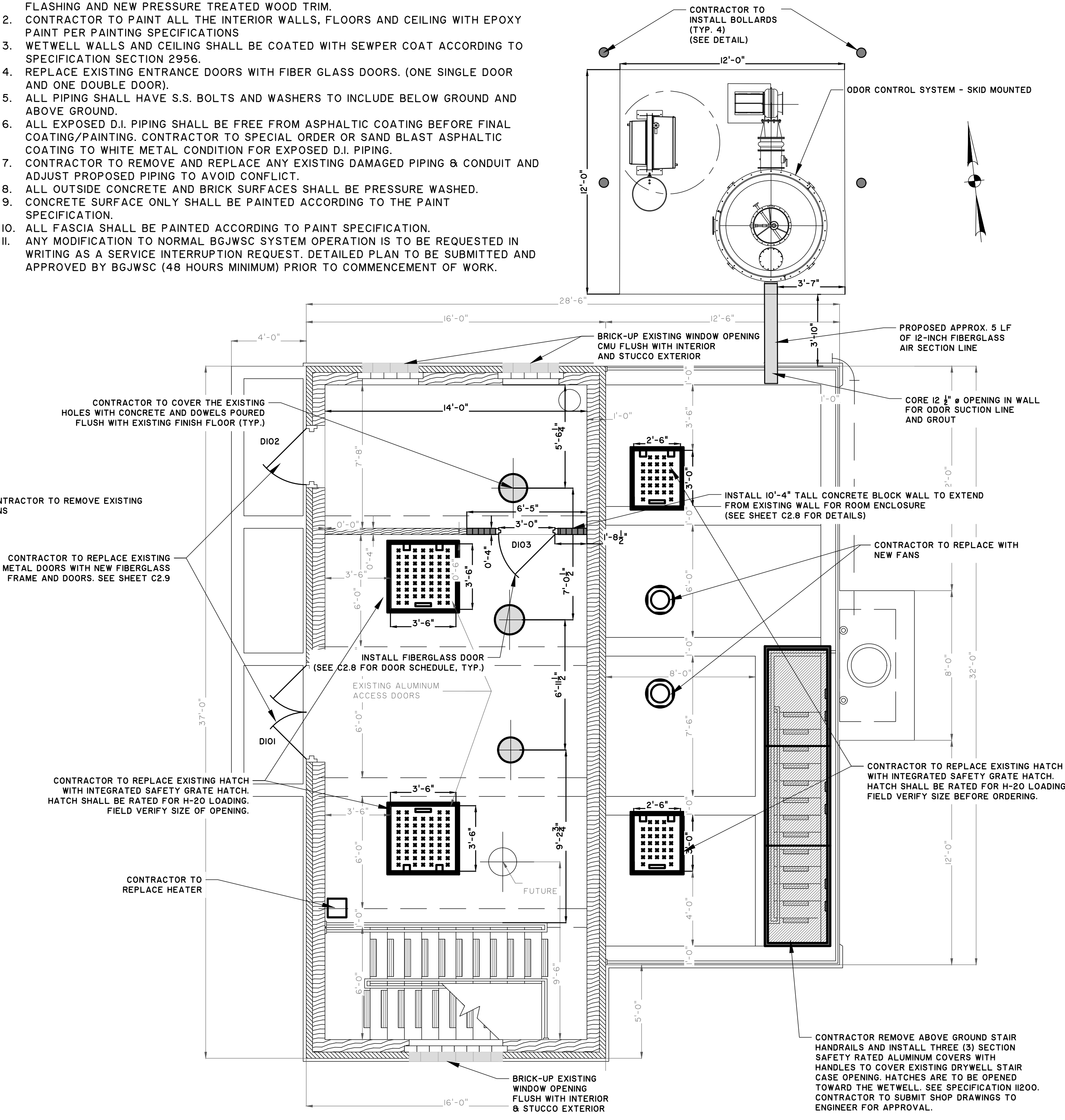
TO BE REMOVED AND DISPOSED OFFSITE*

PROPOSED NEW INSTALLATION

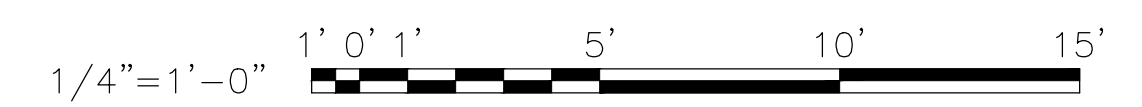
*CONSULT WITH OWNER BEFORE DISPOSAL



1 EXISTING PUMP STATION DEMOLITION ENTRANCE FLOORPLAN
 SCALE: 1/4" = 1'-0"



2 MODIFICATION TO PUMP STATION ENTRANCE FLOORPLAN
 SCALE: 1/4" = 1'-0"





NO.	REVISIONS	BY	DATE

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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 206 SP. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
PS 4035 - INTERMEDIATE PLAN

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

C1.3

NOTE TO CONTRACTOR:

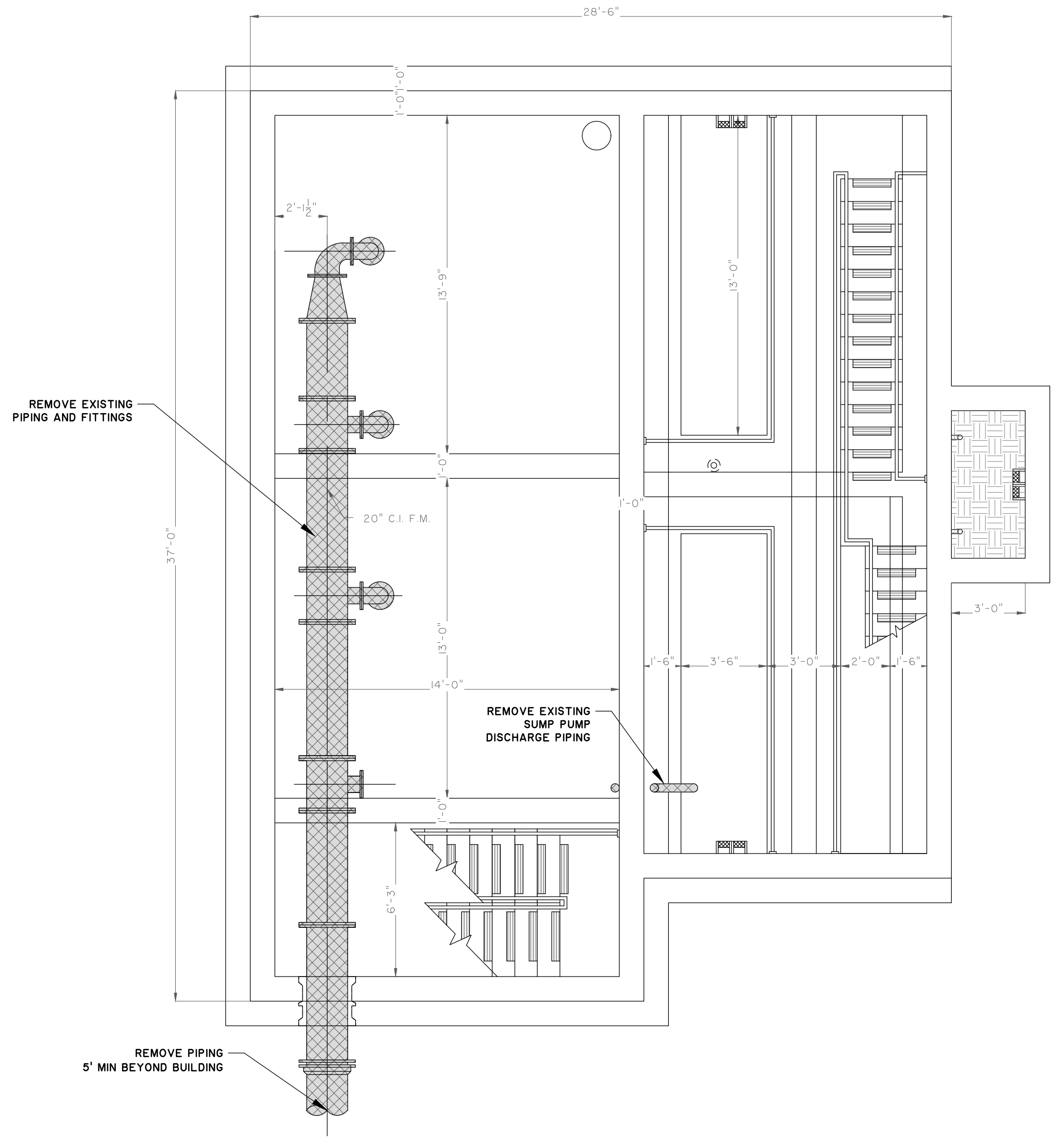
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4. REPLACE EXISTING ENTRANCE DOORS WITH FIBER GLASS DOORS. (ONE SINGLE DOOR AND ONE DOUBLE DOOR).
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LEGEND

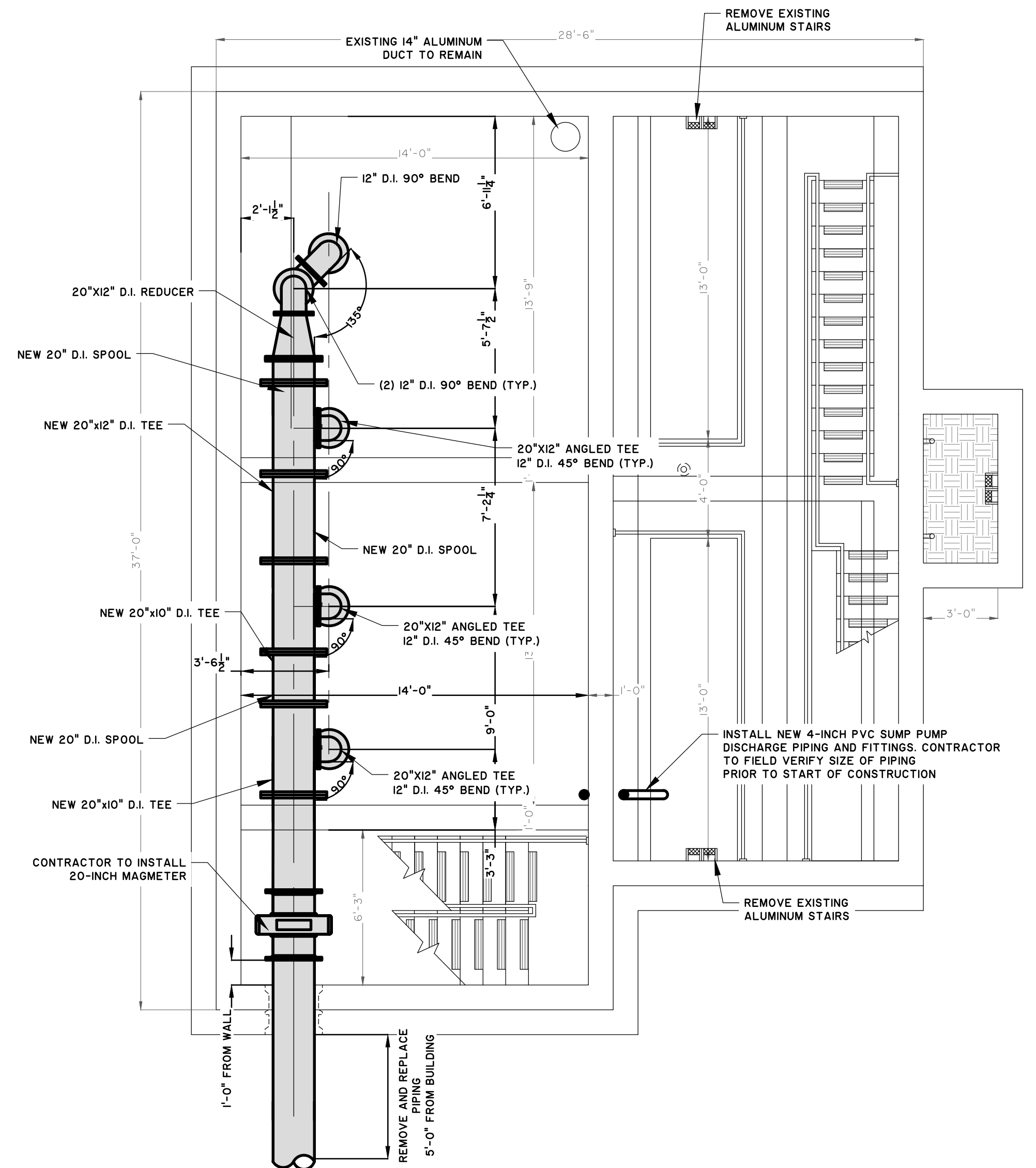
TO BE REMOVED AND DISPOSED OFFSITE*

PROPOSED NEW INSTALLATION

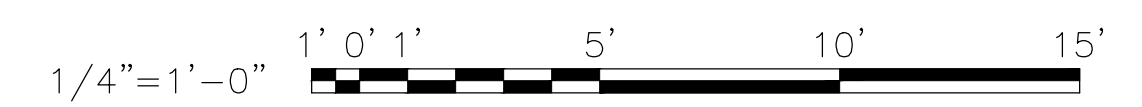
*CONSULT WITH OWNER BEFORE DISPOSAL



1 EXISTING PUMP STATION DEMOLITION INTERMEDIATE PLAN
 SCALE: 1/4" = 1'-0"



2 MODIFICATION TO PUMP STATION INTERMEDIATE PLAN
 SCALE: 1/4" = 1'-0"

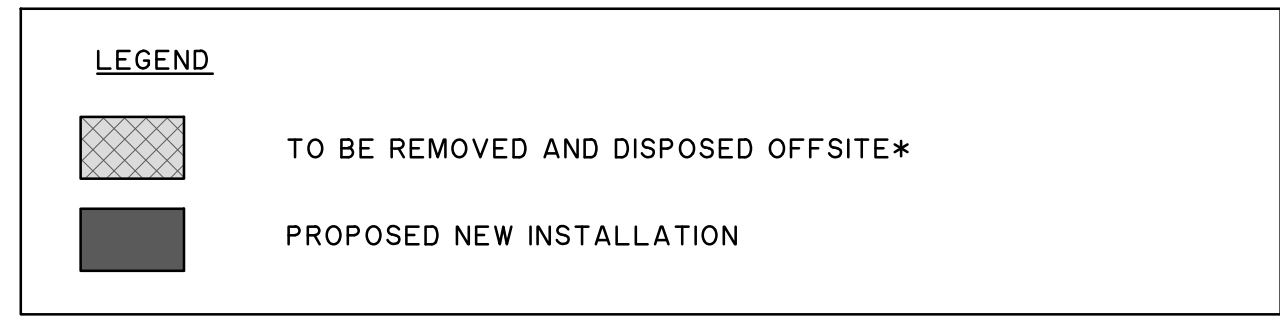


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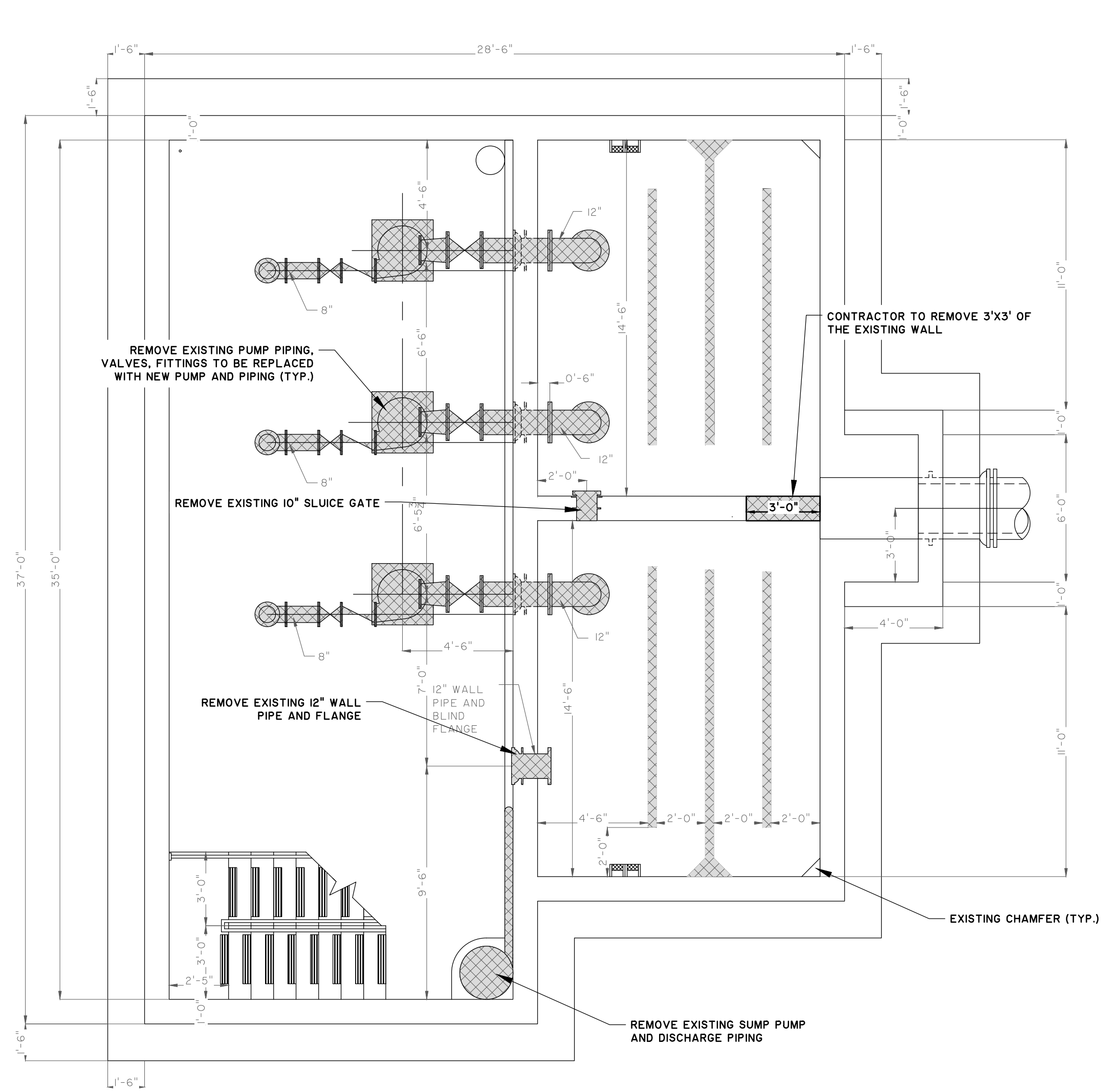
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23/27842784.0000/Engineering/04_11_Brunswick/JointWater/PumpStation/PS 4035 PL 1 SET Rev. Date 06/20/19 - 8/22/19



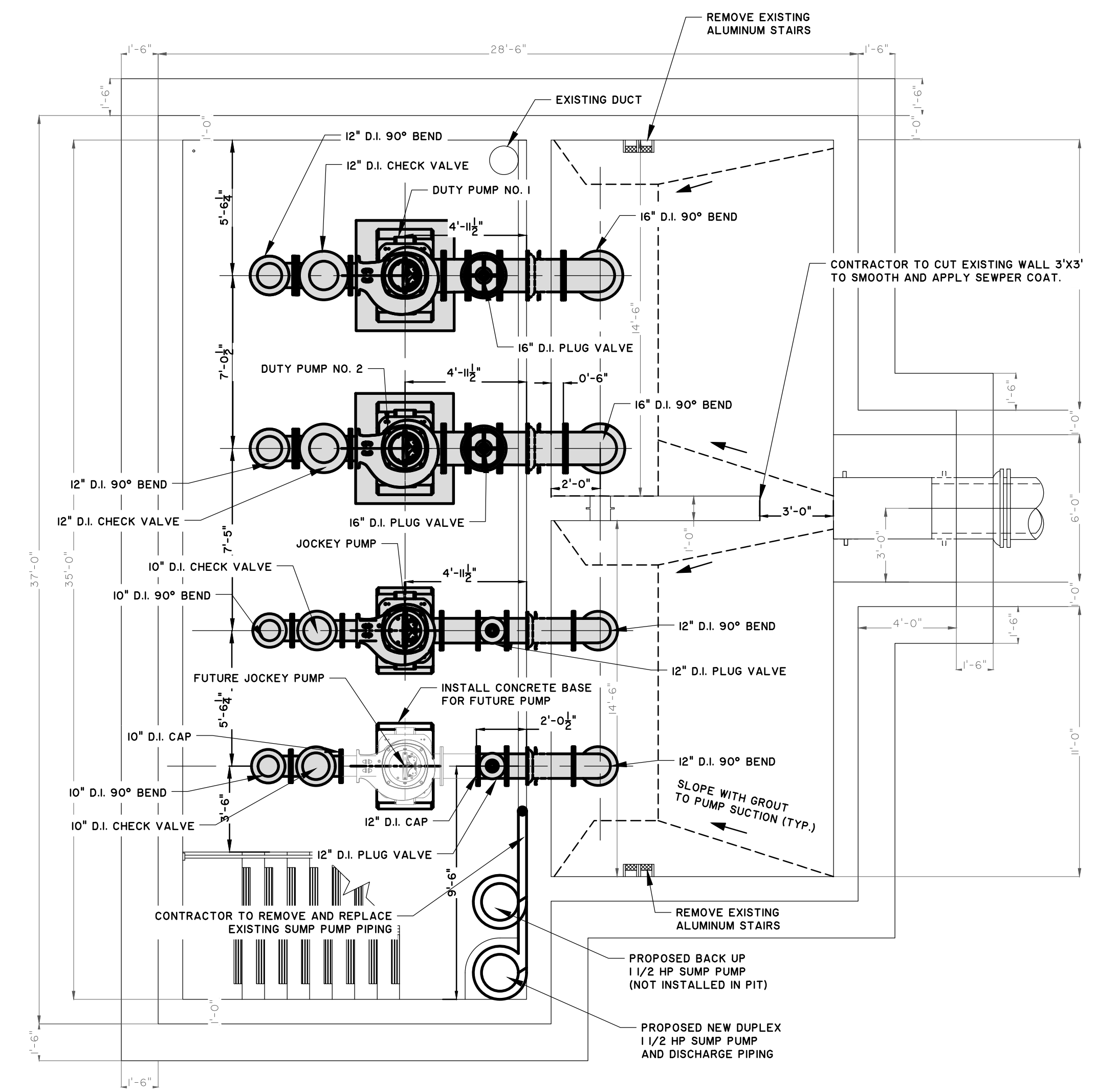
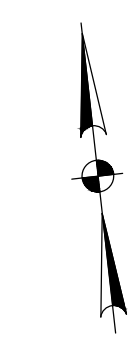
*CONSULT WITH OWNER BEFORE DISPOSAL



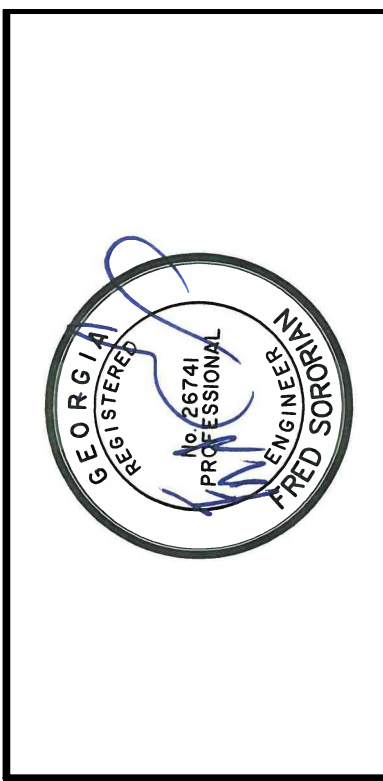
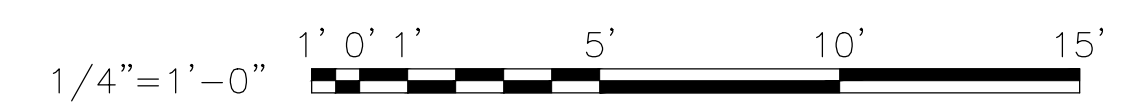
1 EXISTING PUMP STATION DEMOLITION BOTTOM PLAN
SCALE: 1/4" = 1'-0"

NOTE TO CONTRACTOR:

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2 MODIFICATION TO PUMP STATION BOTTOM PLAN
SCALE: 1/4" = 1'-0"



NO.	REVISIONS	BY	DATE

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50 Park of Commerce Way
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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
BRUNSWICK, GA

2016 SPLUST NORTH MAIN AND PH-I PUMP STATION IMPROVEMENTS

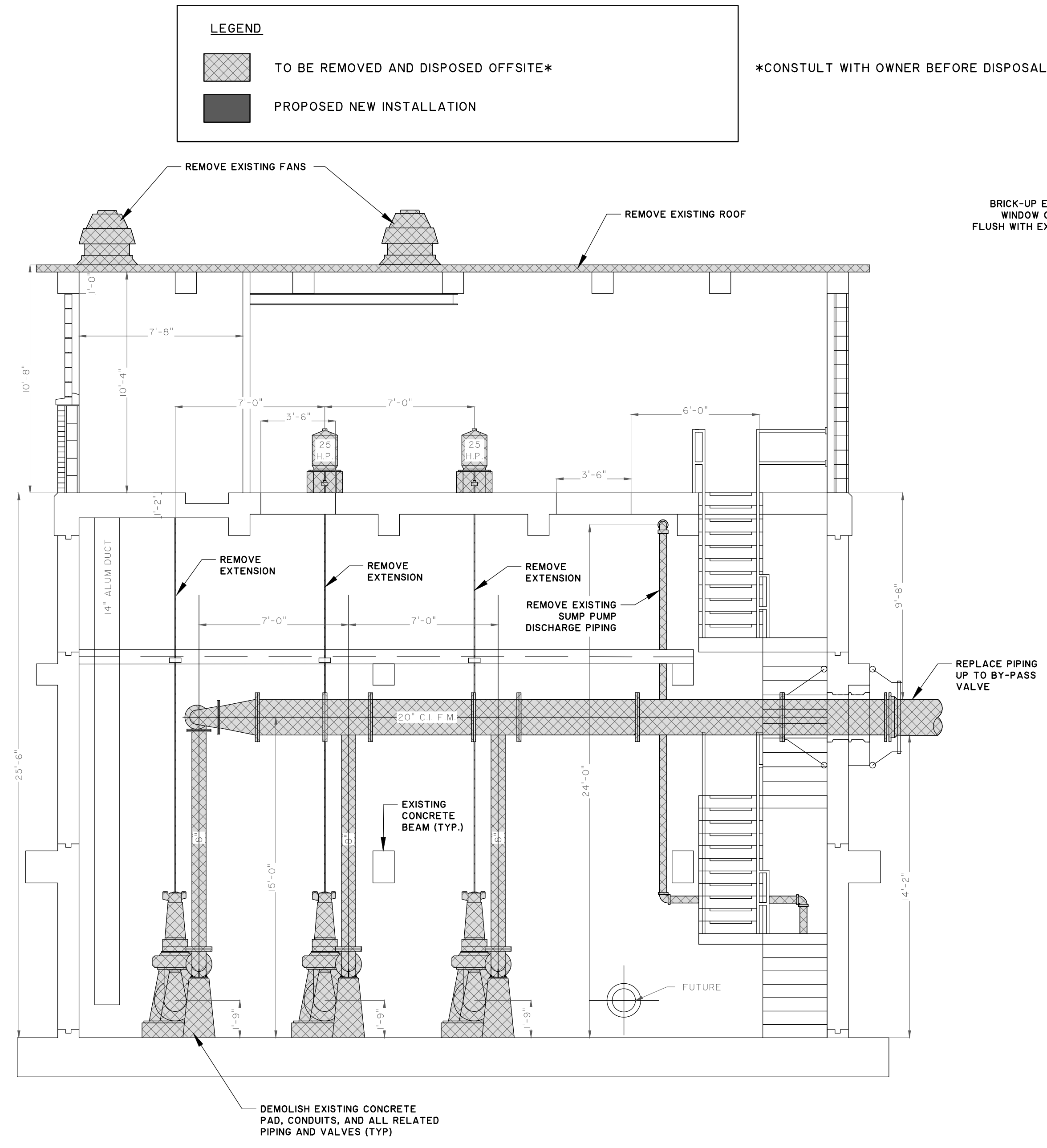
PS 4035 - BOTTOM PLAN

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

C1.4

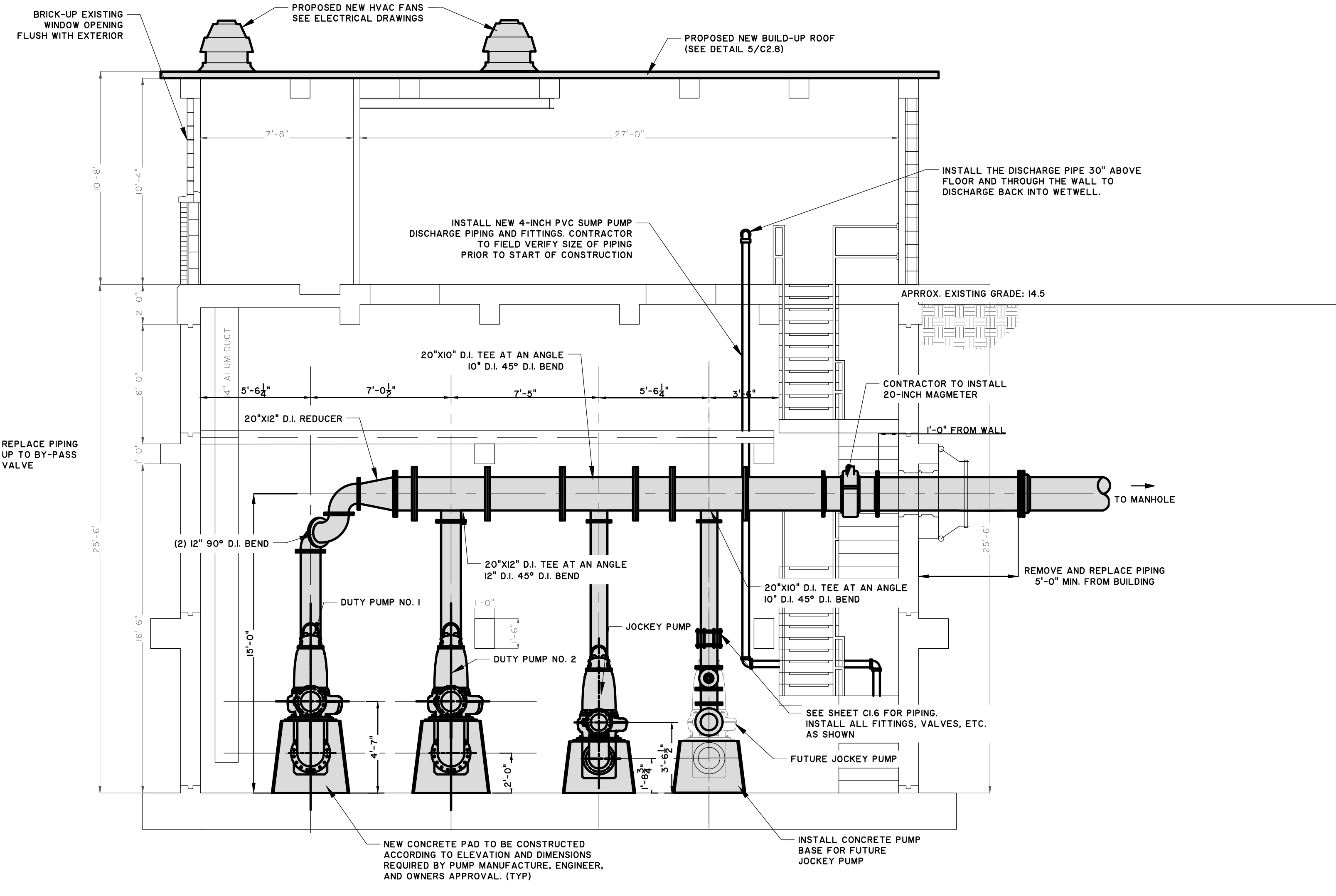


23/77842784.0000/Engineering/001 - Brunswick-Glynn Joint Water and Sewer Commission Pump Station - Pump Station Construction Plans - Pump Station Construction Plans - Date: 08/22/19 - 8:30:00 PM



1 EXISTING PUMP STATION DEMOLITION ELEVATION FACING EAST
 C1.5 SCALE: 1/4" = 1'-0"

- NOTE TO CONTRACTOR:**
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2 MODIFICATION TO PUMP STATION ELEVATION FACING EAST
 C1.5 SCALE: 1/4" = 1'-0"

LEGEND

TO BE REMOVED AND DISPOSED OFFSITE* *CONSTULT WITH OWNER BEFORE DISPOSAL

PROPOSED NEW INSTALLATION

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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 206 SP. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
PS 4035 -ELEVATION FACING EAST

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'



C1.5

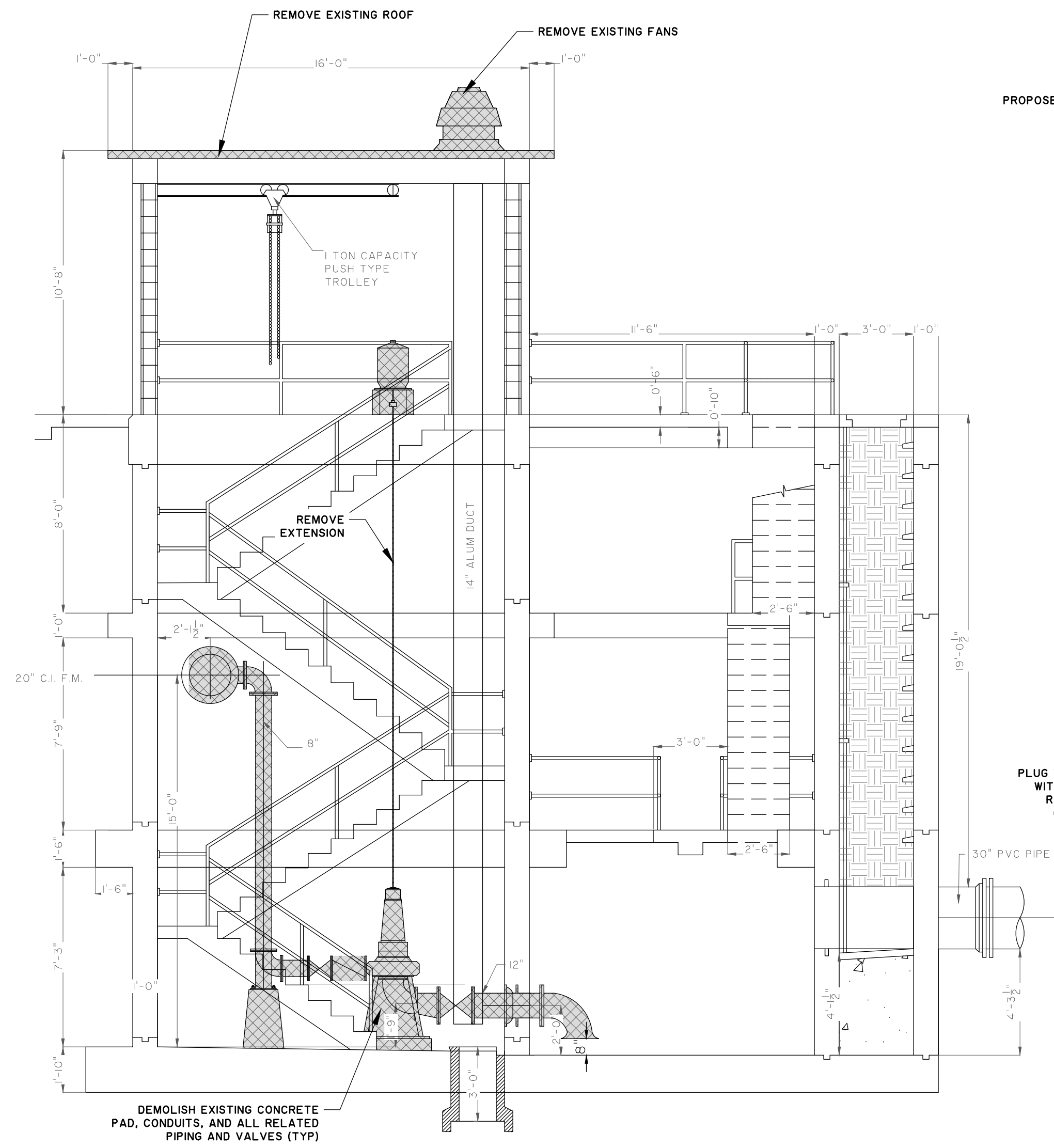
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LEGEND

 TO BE REMOVED AND DISPOSED OFFSITE*

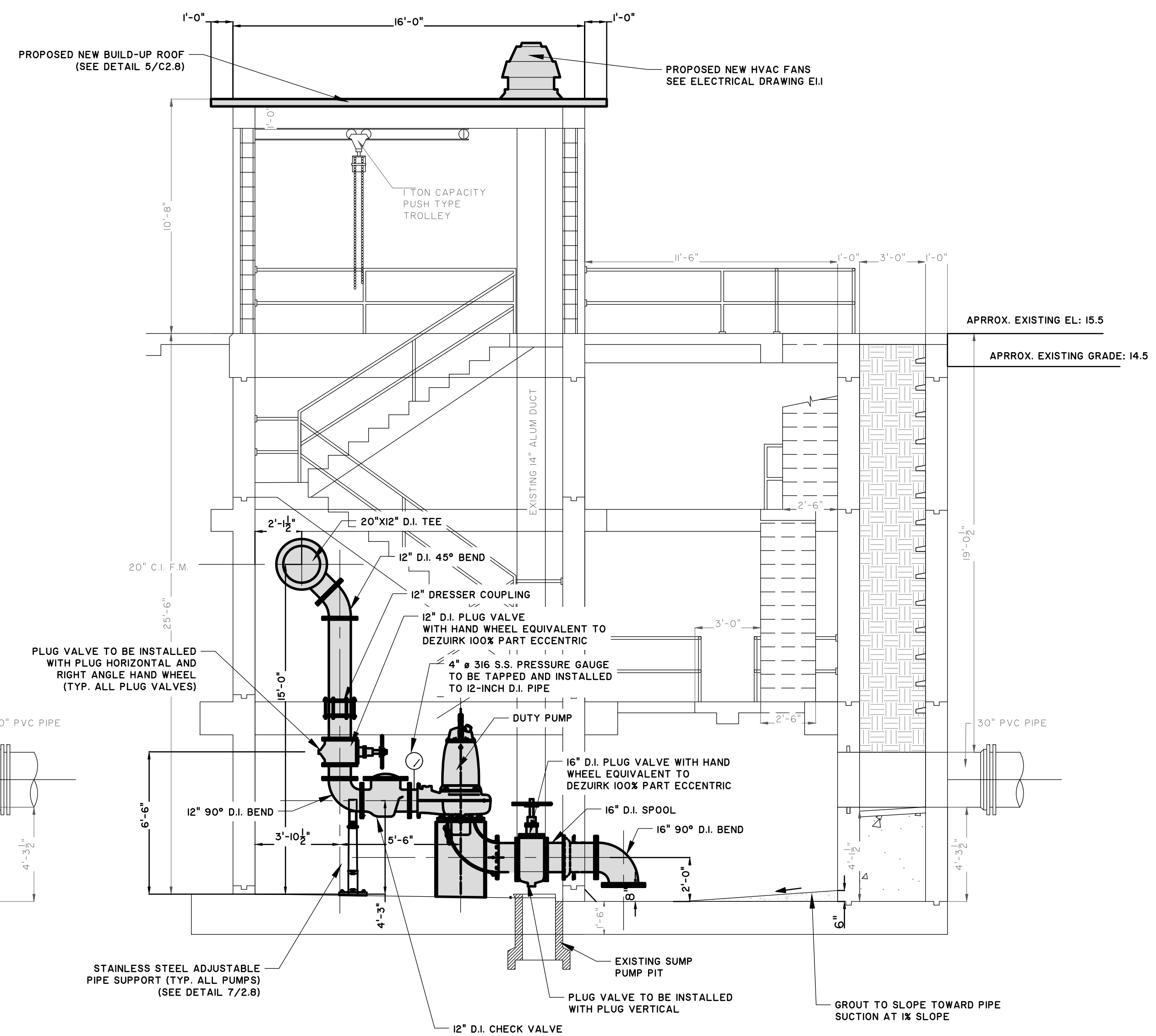
 PROPOSED NEW INSTALLATION

*CONSULT WITH OWNER BEFORE DISPOSAL



1 EXISTING PUMP STATION DEMOLITION ELEVATION FACING NORTH
 C1.6 SCALE: 1/4" = 1'-0"

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2 MODIFICATION TO PUMP STATION ELEVATION FACING NORTH
 C1.6 SCALE: 1/4" = 1'-0"



NO.	REVISIONS	BY	DATE

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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA

2016 SP. LOST NORTH MAIN AND PH-I PUMP STATION IMPROVEMENTS

PS 4035 - ELEVATION FACING NORTH

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

C1.6



NO.	REVISIONS	BY	DATE

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 Savannah, GA 31405 • 912.234.5300
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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 2016 SP. LOST NORTH MAIN AND PH-I PUMP STATION IMPROVEMENTS
PS 4035 - ELEVATION FACING NORTH JOCKEY PUMP

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

C1.7

LEGEND

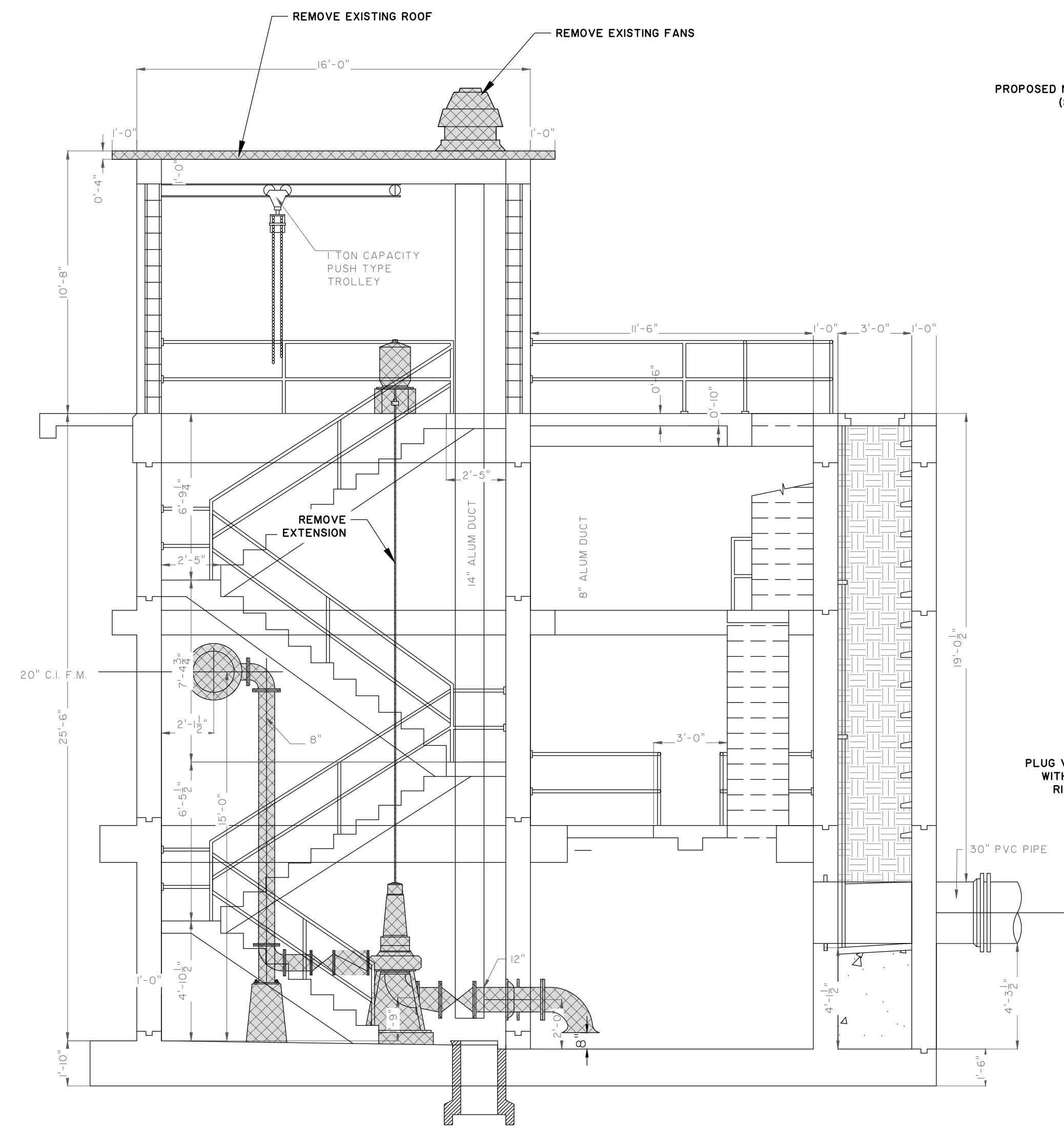
TO BE REMOVED AND DISPOSED OFFSITE*

PROPOSED NEW INSTALLATION

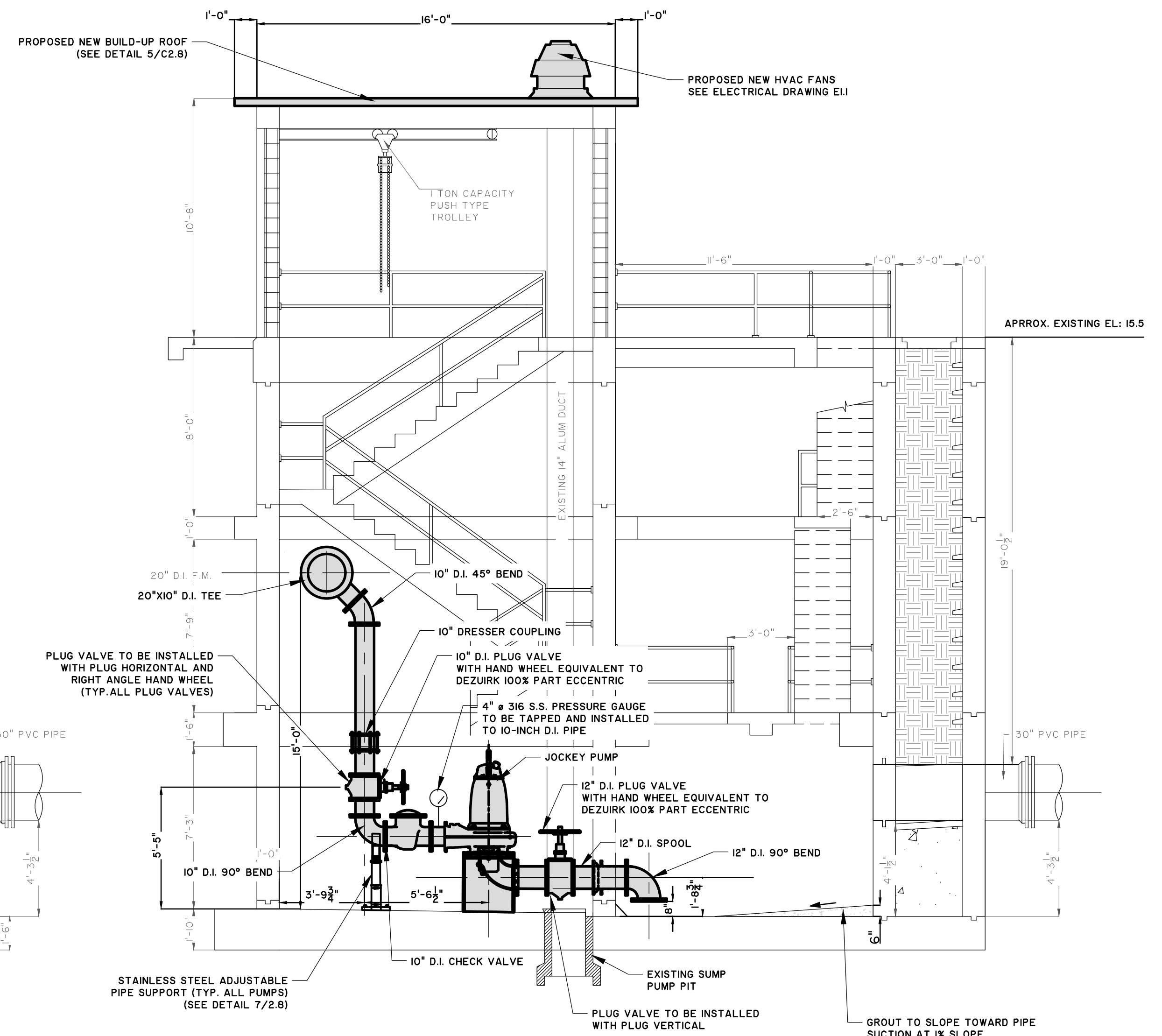
*CONSULT WITH OWNER BEFORE DISPOSAL

NOTE TO CONTRACTOR:

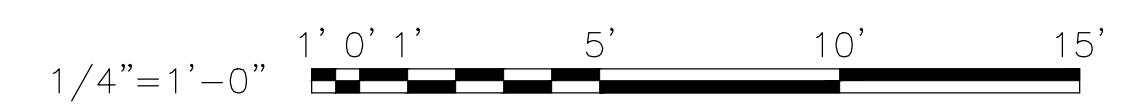
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1 EXISTING PUMP STATION DEMOLITION ELEVATION FACING NORTH JOCKEY PUMP
 SCALE: 1/4" = 1'-0"



2 MODIFICATION TO PUMP STATION ELEVATION FACING NORTH JOCKEY PUMP
 SCALE: 1/4" = 1'-0"

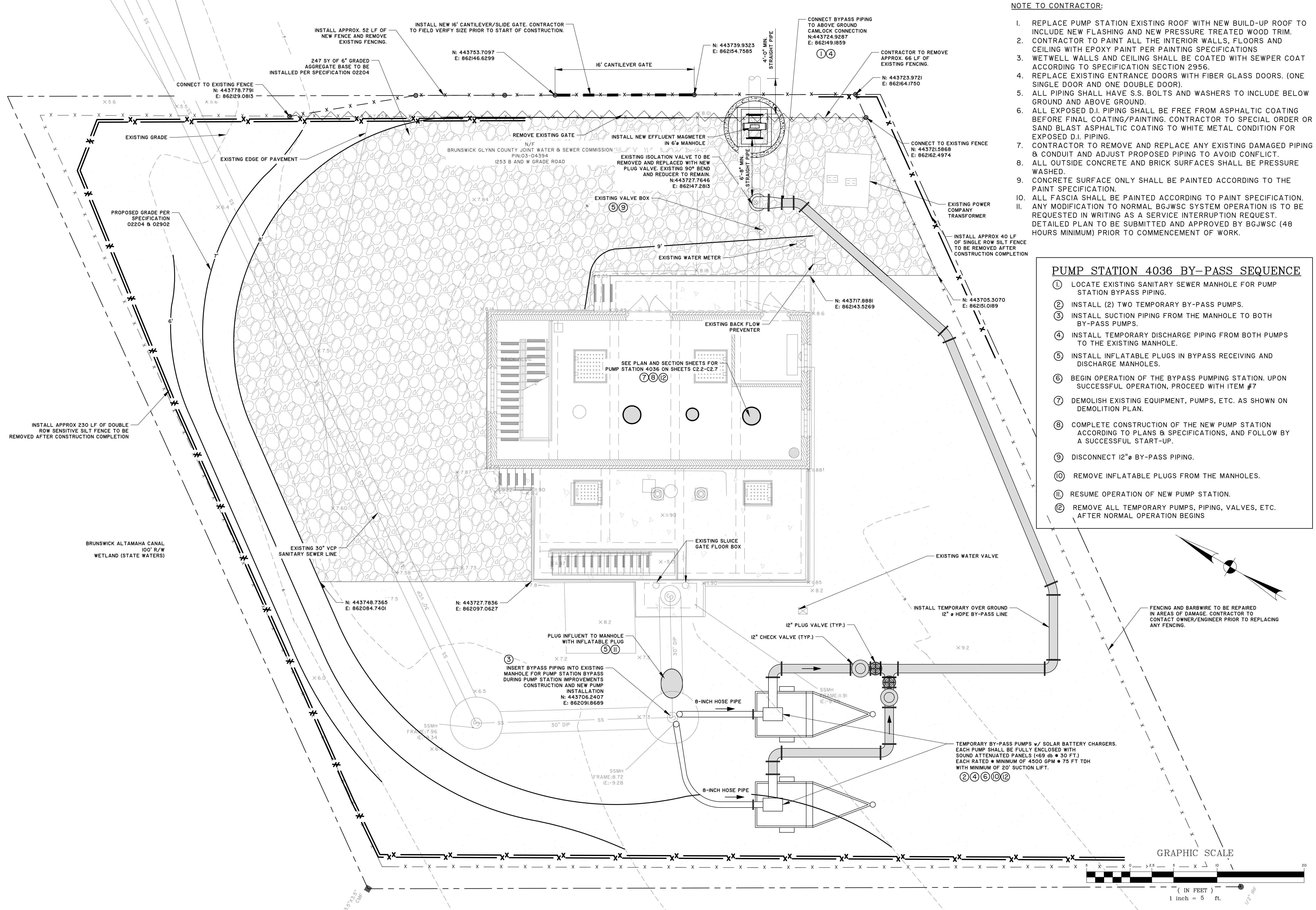


2017/08/27 10:00 AM (Drawing Date) - 1 - Drawing Computer: P:\Projects\2017\20170827\20170827.dwg - Plot Date: 8/22/19 - Plot Scale: 1" = 5' - Plot Size: 24" x 36"

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PUMP STATION 4036 BY-PASS SEQUENCE

- LOCATE EXISTING SANITARY SEWER MANHOLE FOR PUMP STATION BY-PASS PIPING.
- INSTALL (2) TWO TEMPORARY BY-PASS PUMPS.
- INSTALL SUCTION PIPING FROM THE MANHOLE TO BOTH BY-PASS PUMPS.
- INSTALL TEMPORARY DISCHARGE PIPING FROM BOTH PUMPS TO THE EXISTING MANHOLE.
- INSTALL INFLATABLE PLUGS IN BY-PASS RECEIVING AND DISCHARGE MANHOLES.
- BEGIN OPERATION OF THE BY-PASS PUMPING STATION. UPON SUCCESSFUL OPERATION, PROCEED WITH ITEM #7
- DEMOLISH EXISTING EQUIPMENT, PUMPS, ETC. AS SHOWN ON DEMOLITION PLAN.
- COMPLETE CONSTRUCTION OF THE NEW PUMP STATION ACCORDING TO PLANS & SPECIFICATIONS, AND FOLLOW BY A SUCCESSFUL START-UP.
- DISCONNECT 12" BY-PASS PIPING.
- REMOVE INFLATABLE PLUGS FROM THE MANHOLES.
- RESUME OPERATION OF NEW PUMP STATION.
- REMOVE ALL TEMPORARY PUMPS, PIPING, VALVES, ETC. AFTER NORMAL OPERATION BEGINS



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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 206 S. LOST NORTH MAINLAND PH-II PUMP STATION IMPROVEMENTS
SITE PLAN - PS 4036 BY-PASS PIPING

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1" = 5'

C2.1



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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 206 SP. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
PS 4036 - ENTRANCE FLOORPLAN

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

C2.2

NOTE TO CONTRACTOR:

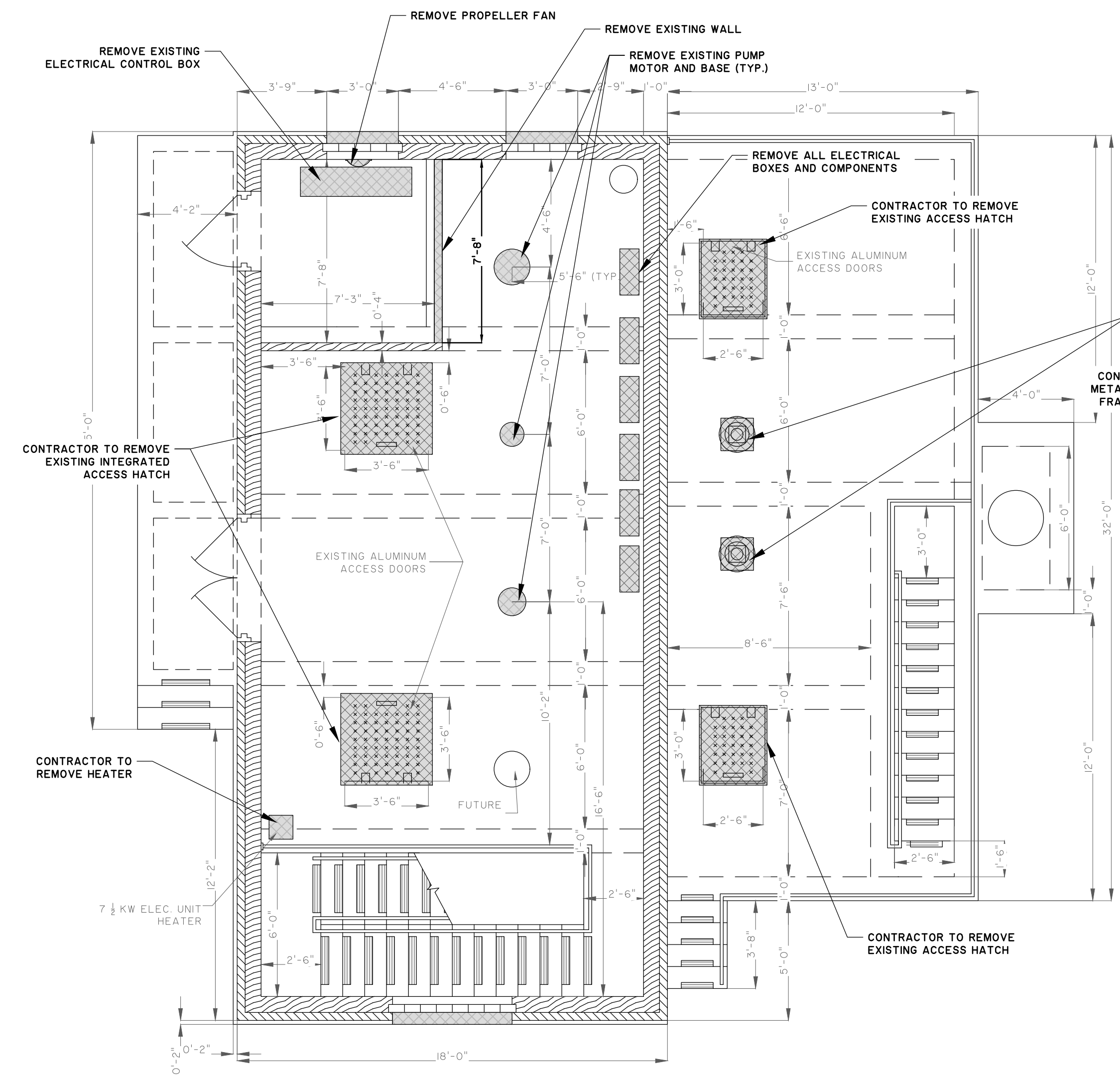
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LEGEND

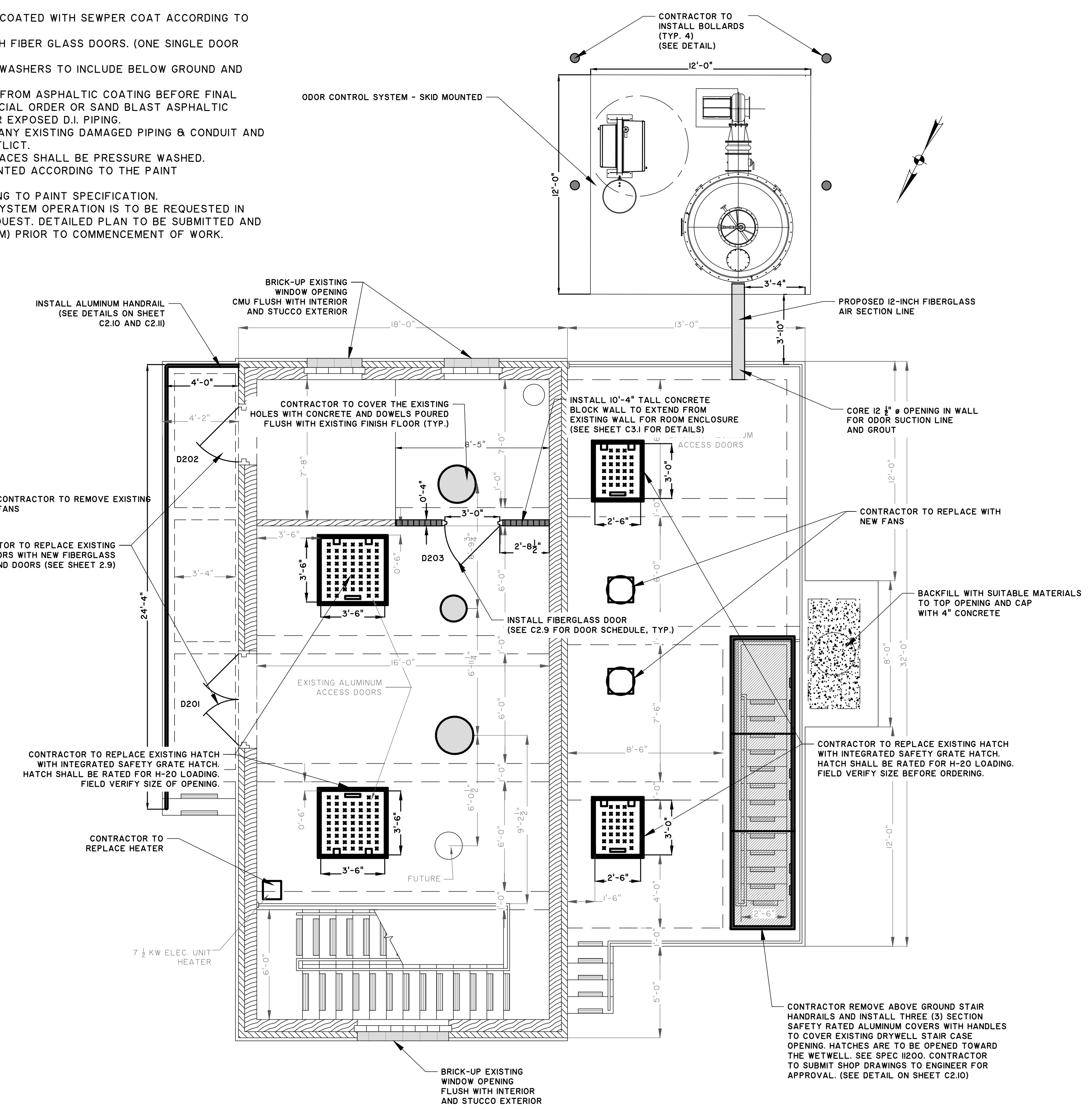
TO BE REMOVED AND DISPOSED OFFSITE*

PROPOSED NEW INSTALLATION

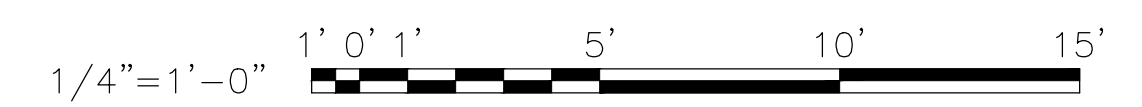
*CONSULT WITH OWNER BEFORE DISPOSAL



1 EXISTING PUMP STATION DEMOLITION ENTRANCE FLOORPLAN
 SCALE: 1/4" = 1'-0"

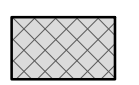



2 MODIFICATION TO PUMP STATION ENTRANCE FLOORPLAN
 SCALE: 1/4" = 1'-0"



J:\27784\27784-0000\Engineering\DWG - 1\Drawings\Construction Plan\Construction Plans - Pump Station\27784-0000 - PS 4036 - 15E Plan - Rev 06.dwg - 8/22/19

LEGEND

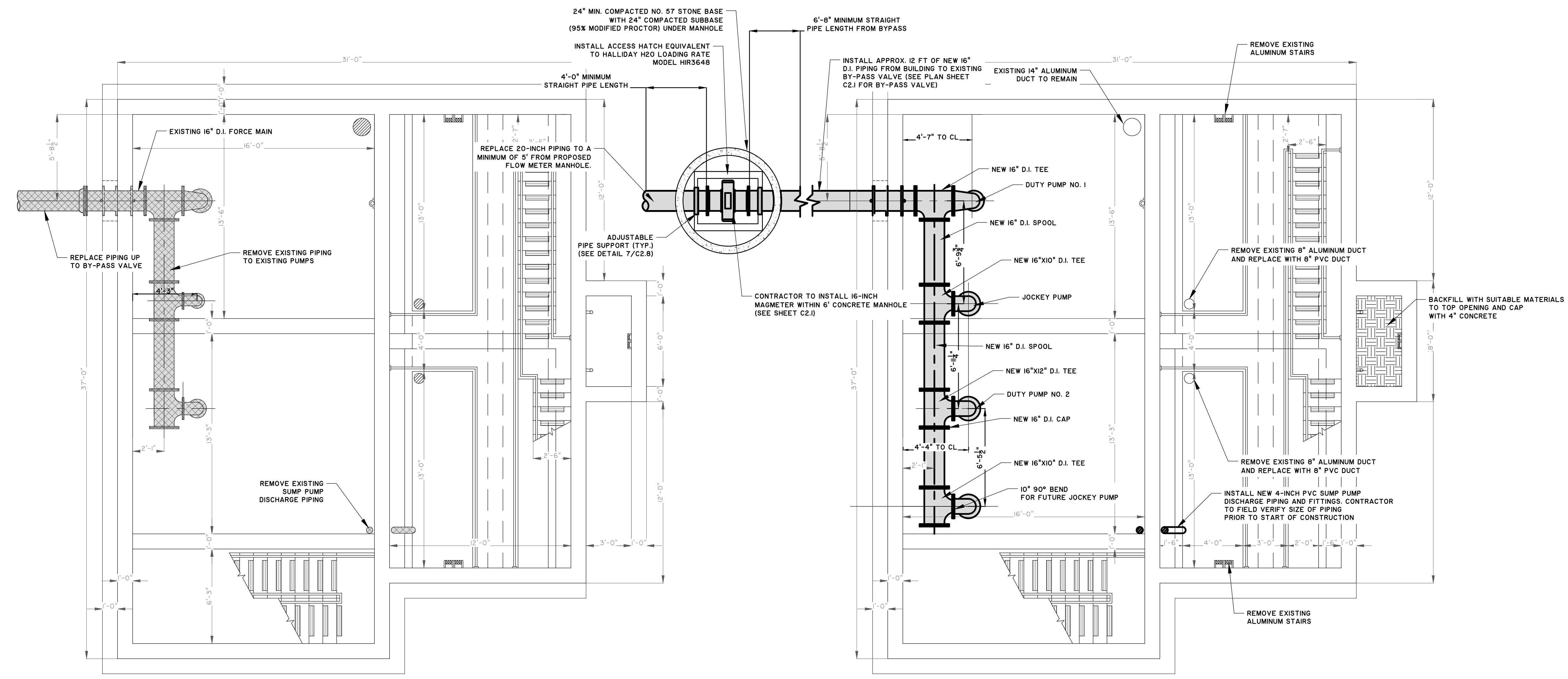
 TO BE REMOVED AND DISPOSED OFFSITE*

 PROPOSED NEW INSTALLATION

*CONSULT WITH OWNER BEFORE DISPOSAL

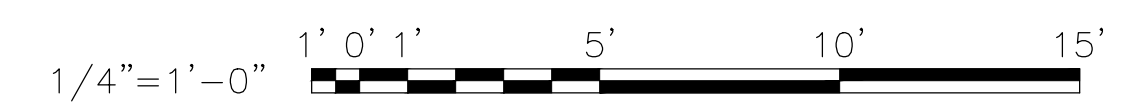
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1 EXISTING PUMP STATION DEMOLITION INTERMEDIATE PLAN
SCALE: 1/4" = 1'-0"

2 MODIFICATION TO PUMP STATION INTERMEDIATE PLAN
SCALE: 1/4" = 1'-0"



NO.	REVISIONS	BY	DATE

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50 Park of Commerce Way
Savannah, GA 311405 • 912.234.5300
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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
BRUNSWICK, GA
206 SPLOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
PS 4036 - INTERMEDIATE PLAN

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

C2.3



NO.	REVISIONS	BY	DATE

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 Savannah, GA 31405 • 912.234.5300
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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 206 SP. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
PS 4036 - BOTTOM PLAN

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

C2.4

NOTE TO CONTRACTOR:

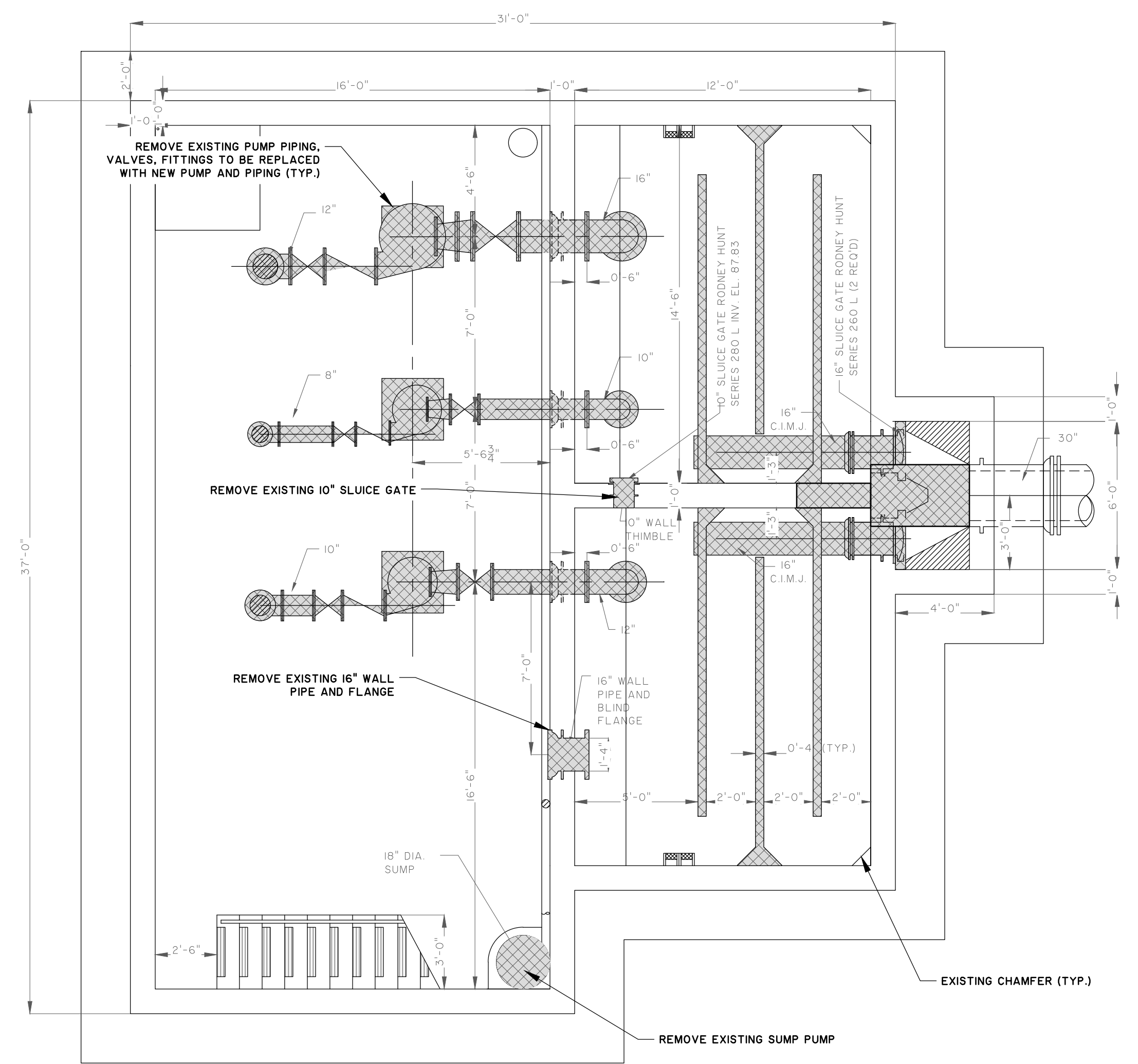
1. REPLACE PUMP STATION EXISTING ROOF WITH NEW BUILD-UP ROOF TO INCLUDE NEW FLASHING AND NEW PRESSURE TREATED WOOD TRIM.
2. CONTRACTOR TO PAINT ALL THE INTERIOR WALLS, FLOORS AND CEILING WITH EPOXY PAINT PER PAINTING SPECIFICATIONS
3. WETWELL WALLS AND CEILING SHALL BE COATED WITH SEWER COAT ACCORDING TO SPECIFICATION SECTION 2956.
4. REPLACE EXISTING ENTRANCE DOORS WITH FIBER GLASS DOORS. (ONE SINGLE DOOR AND ONE DOUBLE DOOR).
5. ALL PIPING SHALL HAVE S.S. BOLTS AND WASHERS TO INCLUDE BELOW GROUND AND ABOVE GROUND.
6. ALL EXPOSED D.I. PIPING SHALL BE FREE FROM ASPHALTIC COATING BEFORE FINAL COATING/PAINTING. CONTRACTOR TO SPECIAL ORDER OR SAND BLAST ASPHALTIC COATING TO WHITE METAL CONDITION FOR EXPOSED D.I. PIPING.
7. CONTRACTOR TO REMOVE AND REPLACE ANY EXISTING DAMAGED PIPING & CONDUIT AND ADJUST PROPOSED PIPING TO AVOID CONFLICT.
8. ALL OUTSIDE CONCRETE AND BRICK SURFACES SHALL BE PRESSURE WASHED.
9. CONCRETE SURFACE ONLY SHALL BE PAINTED ACCORDING TO THE PAINT SPECIFICATION.
10. ALL FASCIA SHALL BE PAINTED ACCORDING TO PAINT SPECIFICATION.
11. ANY MODIFICATION TO NORMAL BGJWSC SYSTEM OPERATION IS TO BE REQUESTED IN WRITING AS A SERVICE INTERRUPTION REQUEST. DETAILED PLAN TO BE SUBMITTED AND APPROVED BY BGJWSC (48 HOURS MINIMUM) PRIOR TO COMMENCEMENT OF WORK.

LEGEND

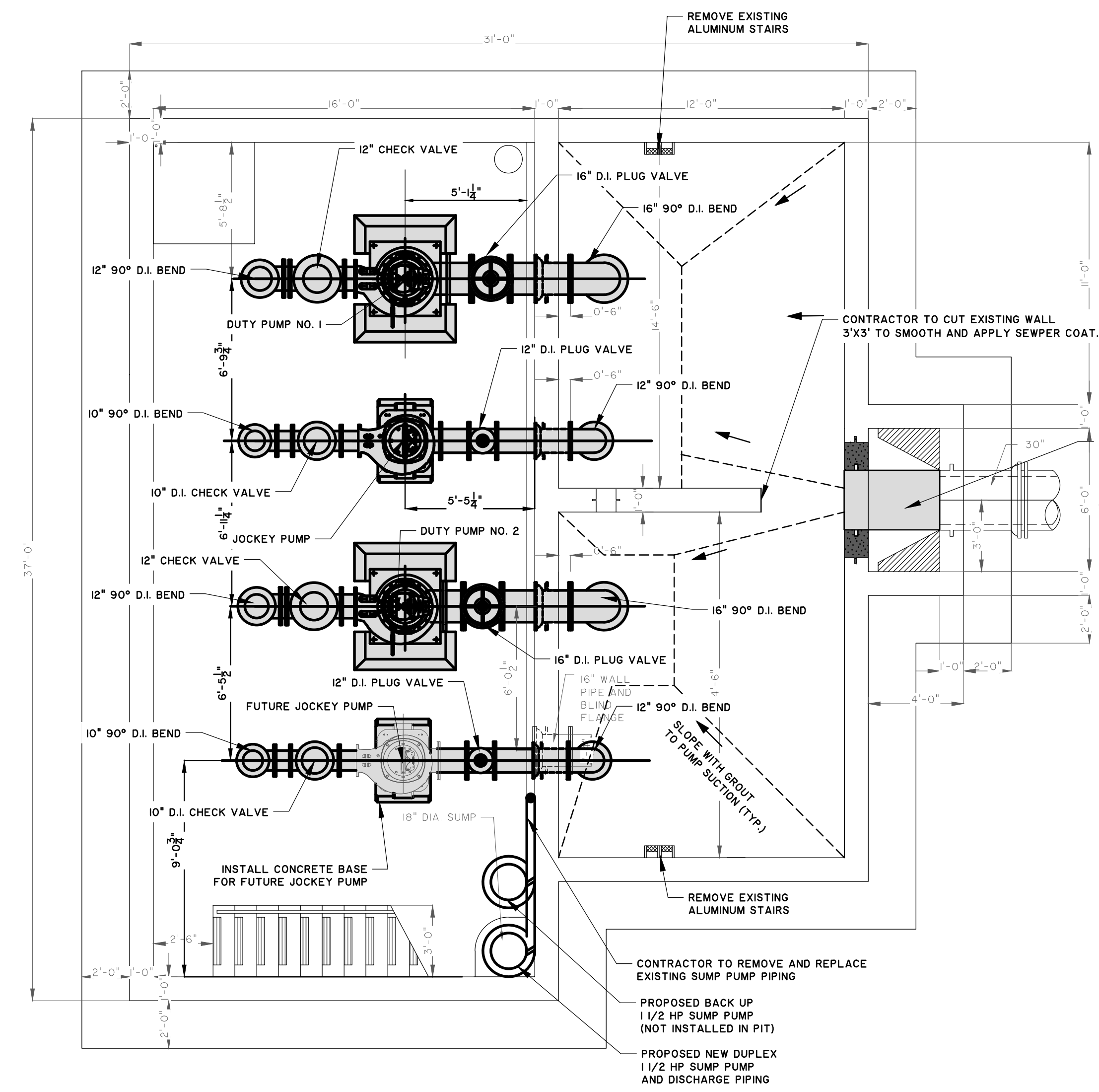
TO BE REMOVED AND DISPOSED OFFSITE*

PROPOSED NEW INSTALLATION

*CONSTULT WITH OWNER BEFORE DISPOSAL



1 EXISTING PUMP STATION DEMOLITION BOTTOM PLAN
 SCALE: 1/4" = 1'-0"



2 MODIFICATION TO PUMP STATION BOTTOM PLAN
 SCALE: 1/4" = 1'-0"



Z:\27784\37784-0000\Engineering\01 - Drawings\Construction Plans\Construction Plans - Pump Station\27784-0000 - PS4036 - P-161 Plan - Rev 06.dwg - 8/22/19



LEGEND

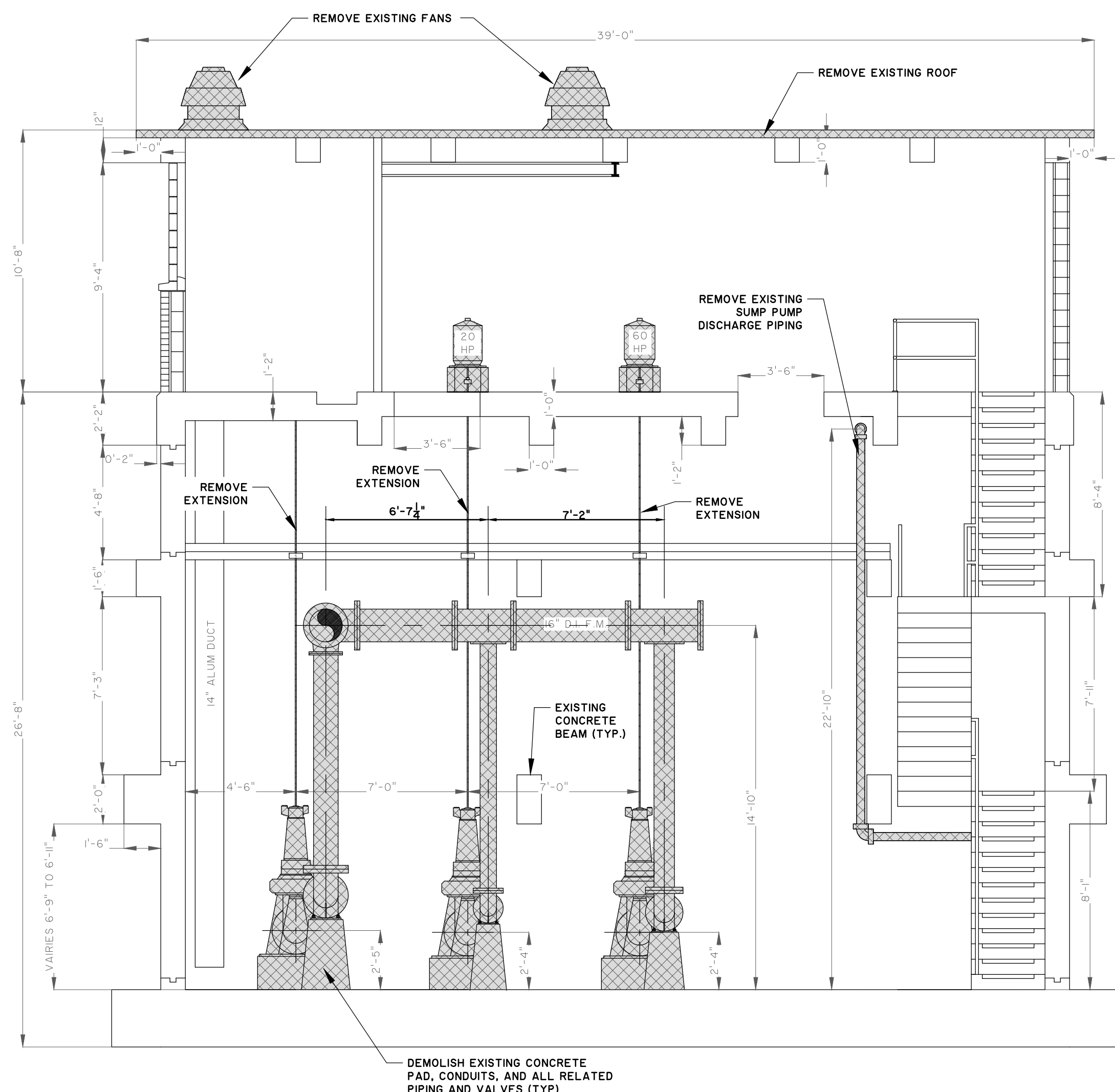
TO BE REMOVED AND DISPOSED OFFSITE*

PROPOSED NEW INSTALLATION

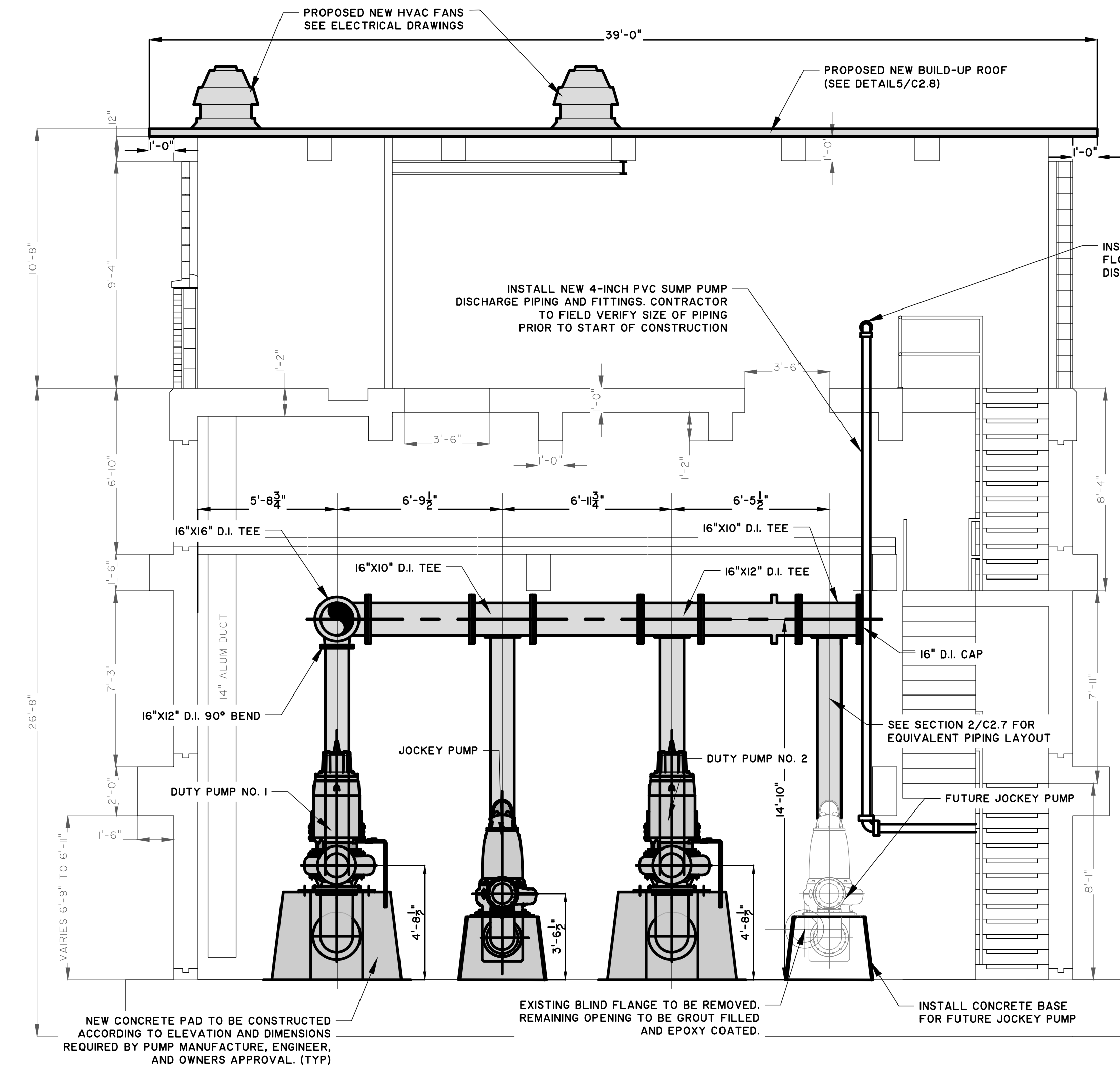
*CONSTULT WITH OWNER BEFORE DISPOSAL

NOTE TO CONTRACTOR:

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1 EXISTING PUMP STATION DEMOLITION ELEVATION FACING SOUTHWEST
SCALE: 1/4" = 1'



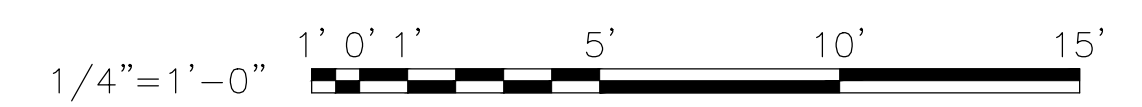
2 MODIFICATION TO PUMP STATION ELEVATION FACING SOUTHWEST
SCALE: 1/4" = 1'

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BRUNSWICK, GA
206 SP. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
PS 4036 - ELEVATION FACING SOUTHWEST

JOB NO:	J-27784.0000
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APPROVED:	FS
SCALE:	1/4" = 1'



C2.5

Z:\27784\37784-0000\Engineering\DWG - 1 - Drawings\Construction Plans\Construction Plans - Pump Station\27784-0000 - PS4036 PPH-PUMP STATION IMPROVEMENTS - PS 4036 - ELEVATION FACING SOUTHWEST.dwg



LEGEND

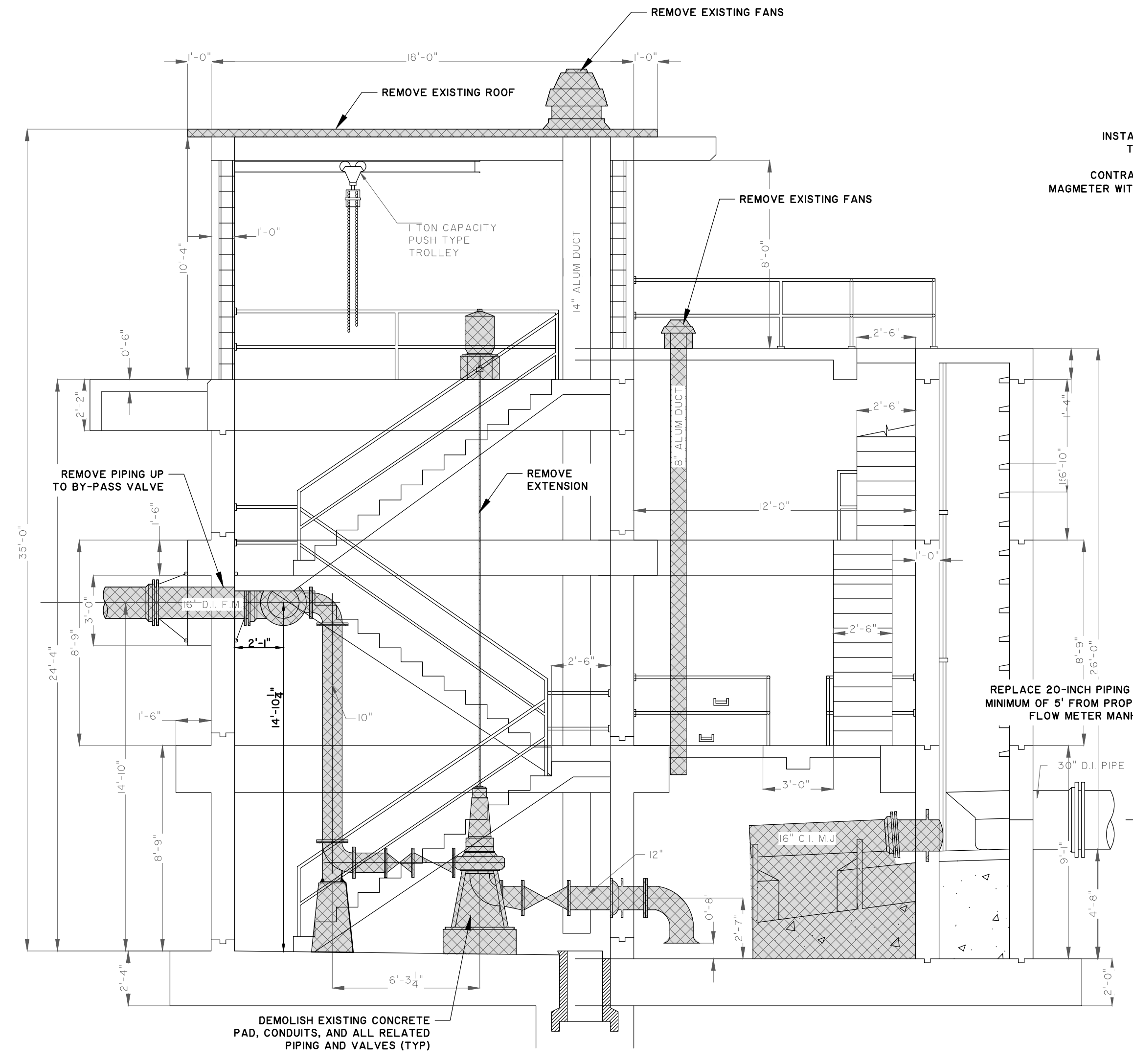
TO BE REMOVED AND DISPOSED OFFSITE*

PROPOSED NEW INSTALLATION

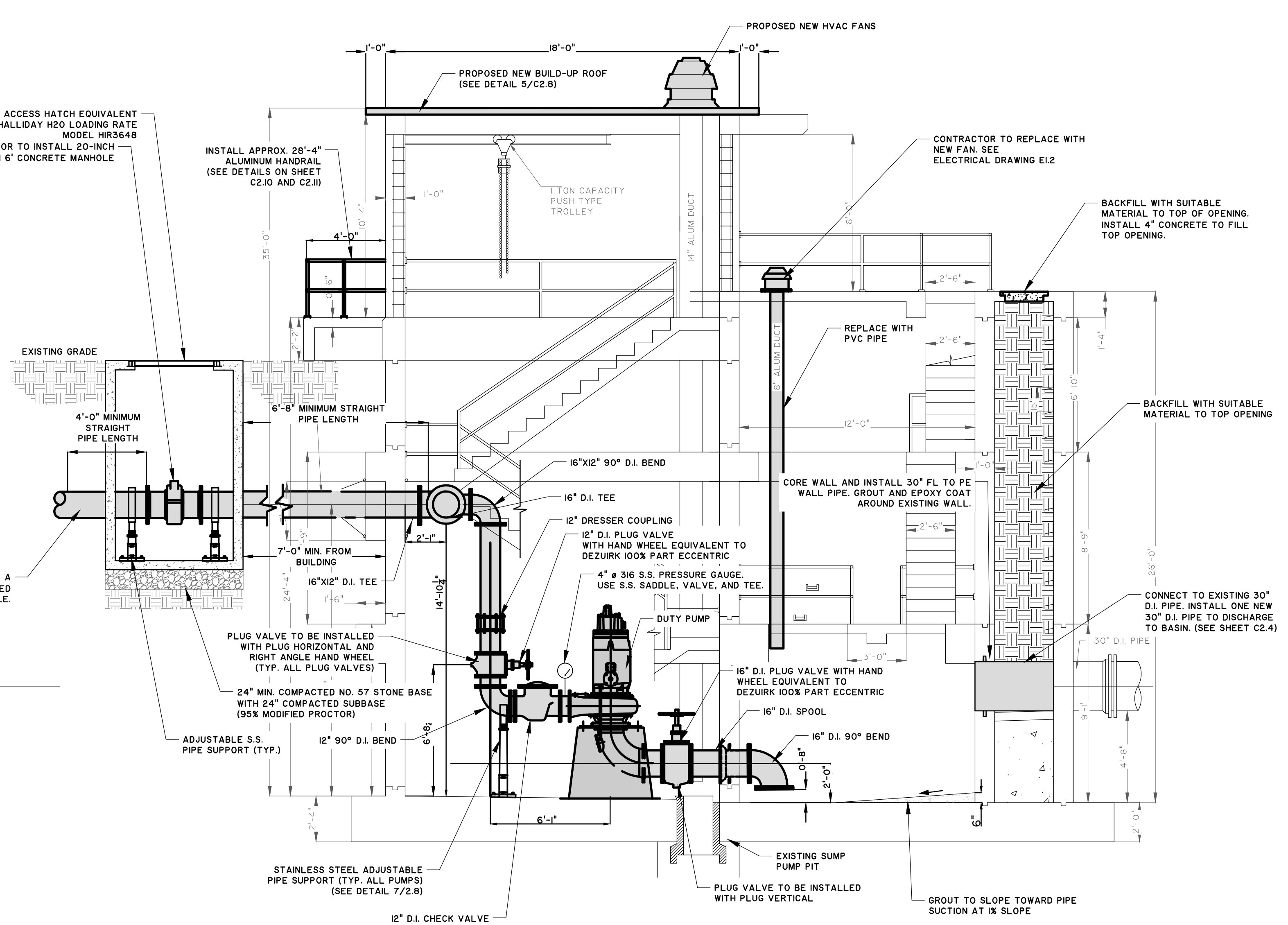
*CONSULT WITH OWNER BEFORE DISPOSAL

NOTE TO CONTRACTOR:

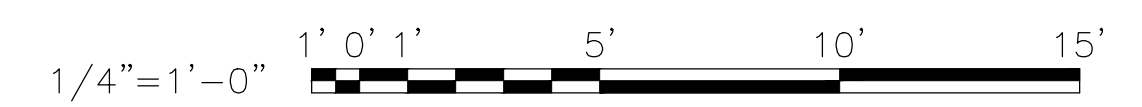
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1 EXISTING PUMP STATION DEMOLITION ELEVATION FACING SOUTHEAST
SCALE: 1/4" = 1'-0"



2 MODIFICATION TO PUMP STATION ELEVATION FACING SOUTHEAST
SCALE: 1/4" = 1'-0"



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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
BRUNSWICK, GA
206 SP. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
PS 4036 - ELEVATION FACING SOUTHEAST

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

C2.6



LEGEND

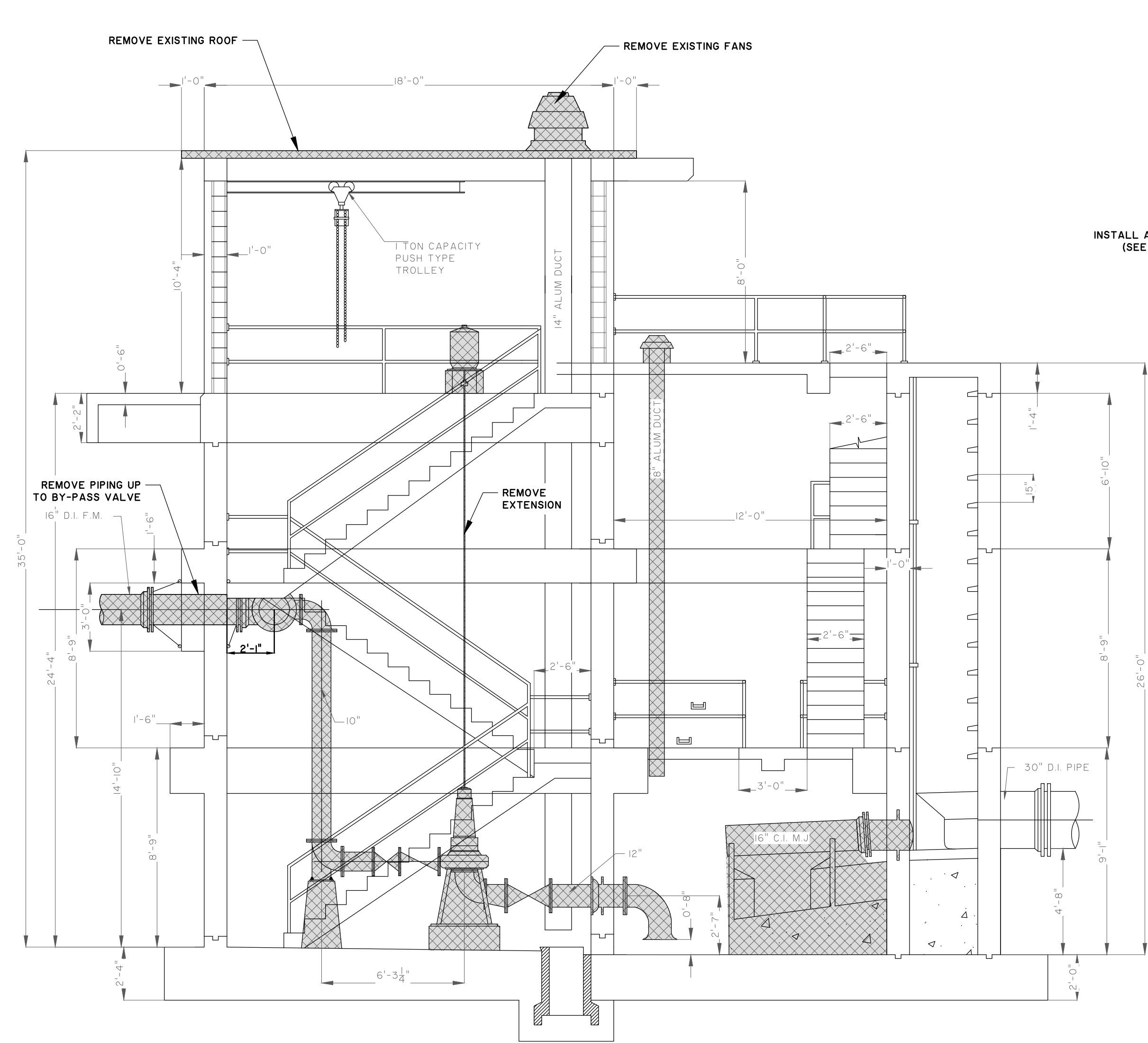
TO BE REMOVED AND DISPOSED OFFSITE*

PROPOSED NEW INSTALLATION

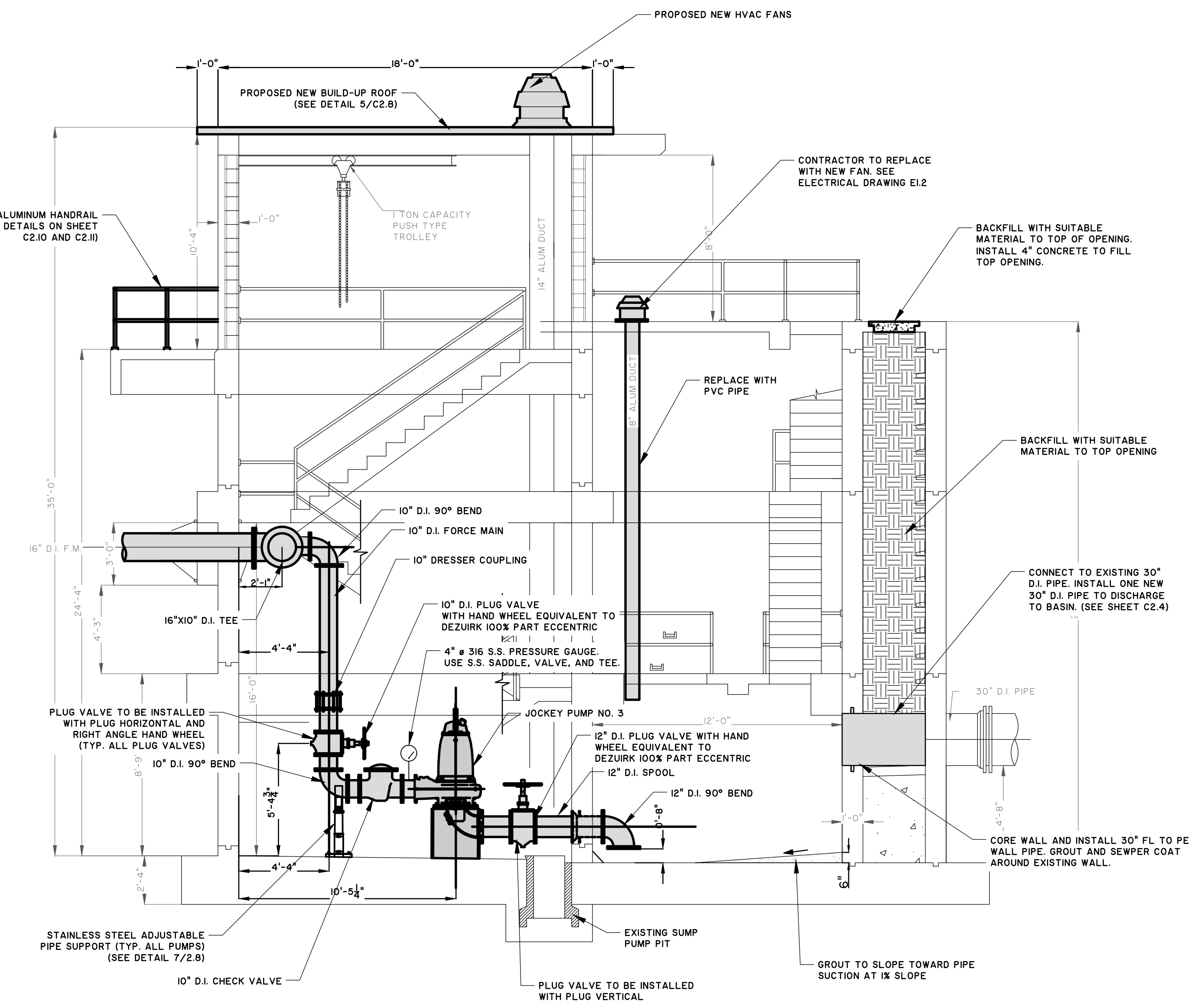
*CONSULT WITH OWNER BEFORE DISPOSAL

NOTE TO CONTRACTOR:

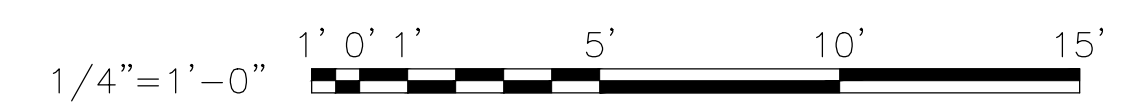
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1 EXISTING PUMP STATION DEMOLITION ELEVATION FACING SOUTHEAST JOCKEY PUMP
SCALE: 1/4" = 1'



2 MODIFICATION TO PUMP STATION ELEVATION FACING SOUTHEAST JOCKEY PUMP
SCALE: 1/4" = 1'



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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
BRUNSWICK, GA
206 SPLOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
PS 4036 - ELEVATION FACING SOUTHEAST JOCKEY PUMP

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

C2.7



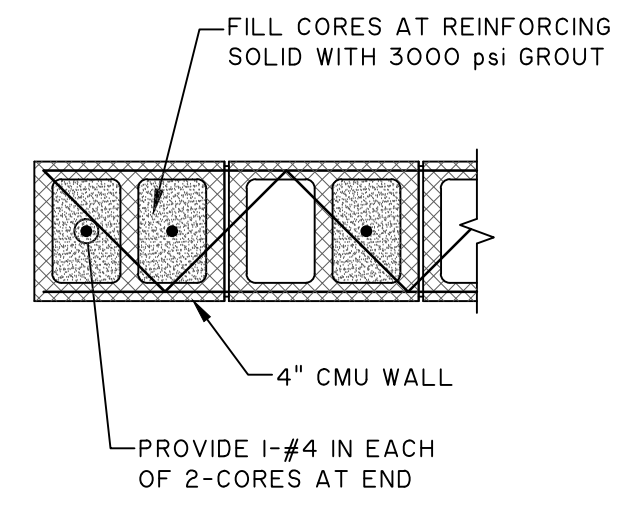
NO.	REVISIONS	BY	DATE

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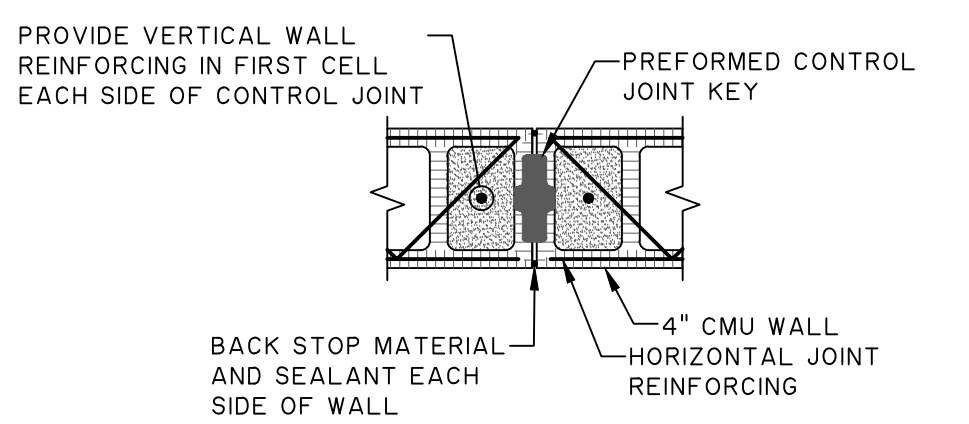
BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 206 SP. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS
PUMP STATION BUILDING DETAILS

JOB NO: J-27784.0000
 DATE: 8/22/19
 DRAWN: CDR
 DESIGNED: CDR
 REVIEWED: FS
 APPROVED: FS
 SCALE: NONE

C2.8

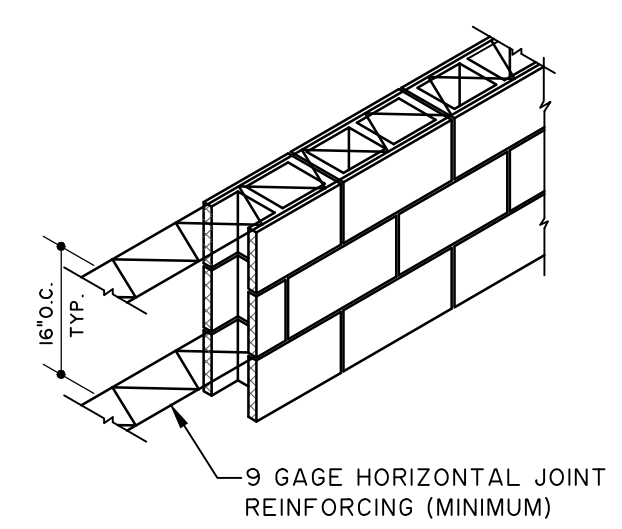


1 CMU REINFORCING FOR WALL
 SCALE: N.T.S.



NOTE:
 GROUT, CONCRETE, REINF. BARS, JOINT REINF., AND BOND BEAMS SHALL BE DISCONTINUOUS DOWN TO TOP OF FOOTING AT CONTROL JOINTS EXCEPT AT ROOF AND FLOOR LEVELS AND TOP OF WALLS. DO NOT LOCATE CONTROL JOINTS WITHIN 2'-0" OF OPENINGS.

2 TYP. CMU CONTROL JOINT
 SCALE: N.T.S.



3 TYP. CMU HORIZ. R/F DETAIL
 SCALE: N.T.S.

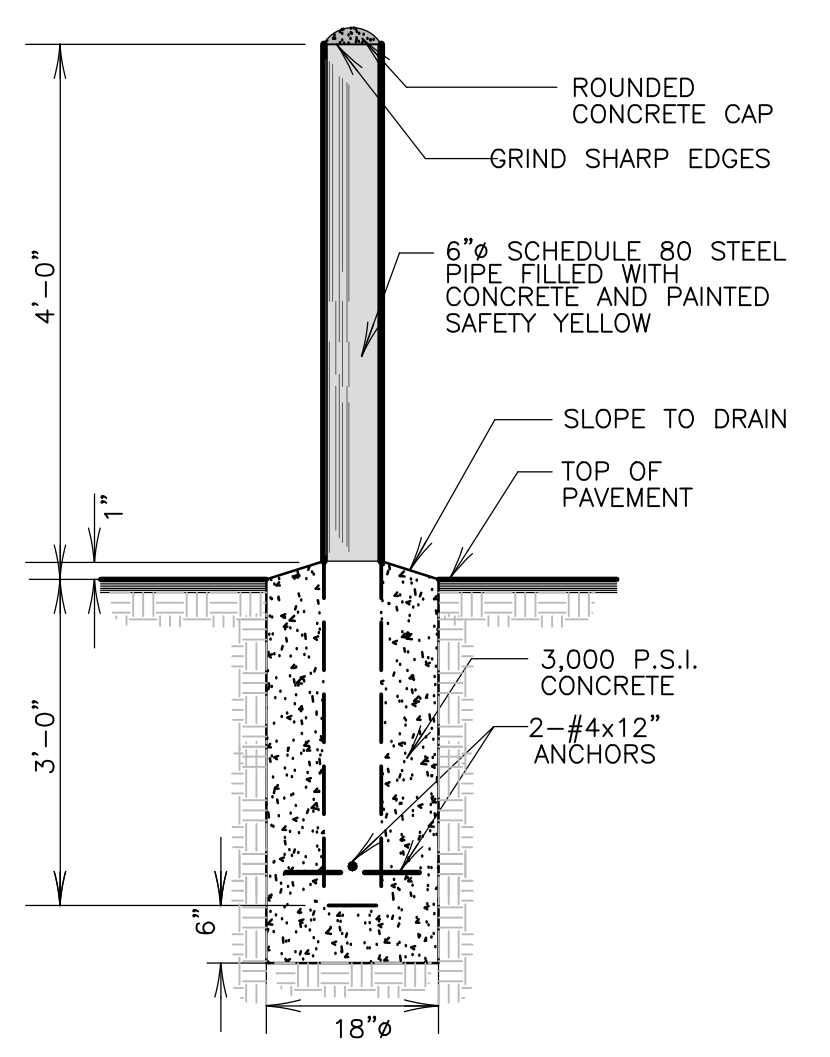
NOTES:
 1. UNDER VALVES, METERS, OR OTHER SPECIAL APPURTENANCES, A FABRICATED SUPPORT PIECE MAY BE UTILIZED AS ACCEPTABLE TO ENGINEER.

ADJUSTABLE PIPE SUPPORT APPROXIMATE DIMENSIONS (INCHES)

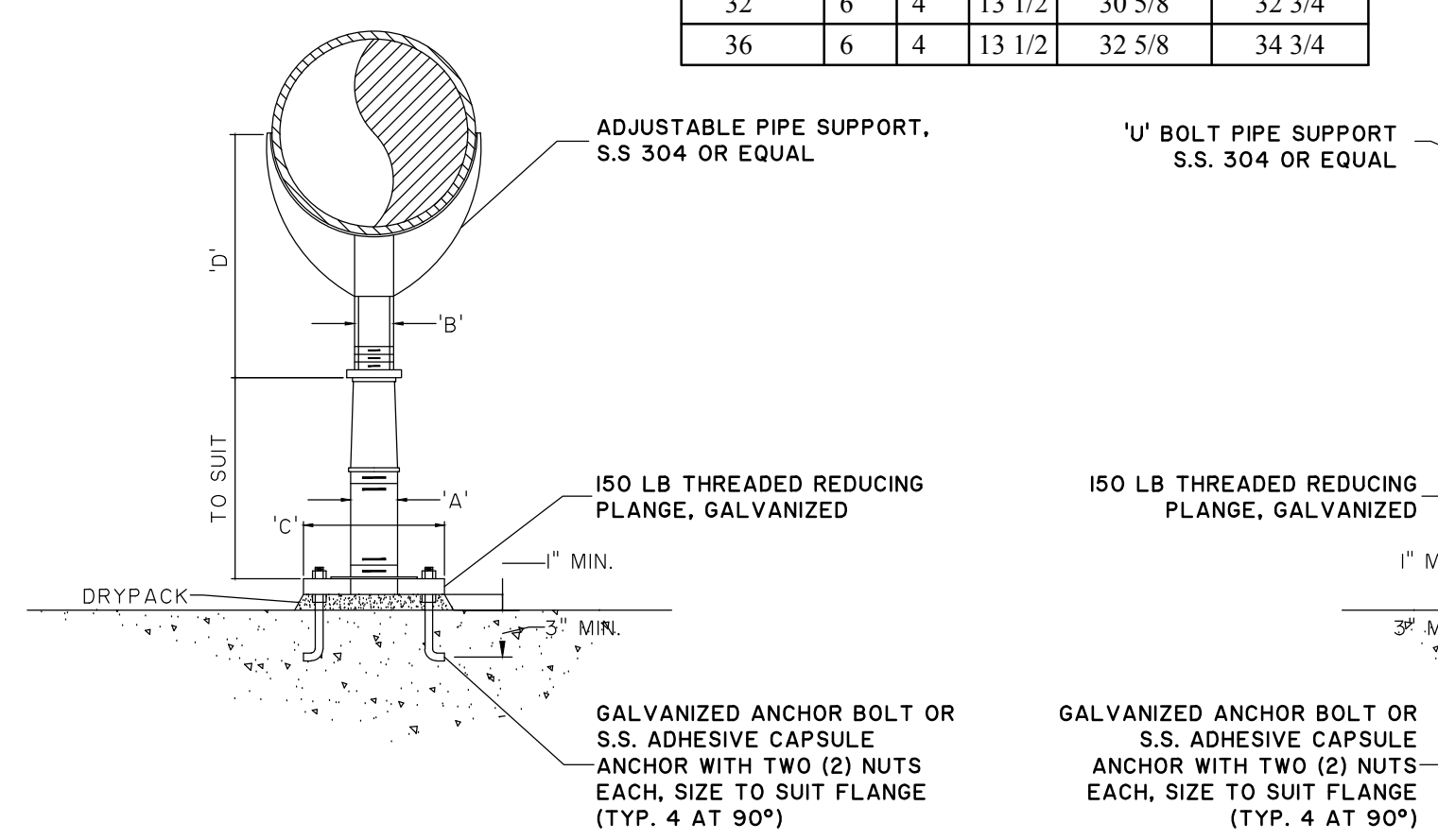
PIPE SIZE	A	B	C	D	MIN D	MAX
2 1/2	2 1/2	1 1/2	9	8	11 1/2	
3	2 1/2	1 1/2	9	8 1/4	11 3/4	
3 1/2	2 1/2	1 1/2	9	8 1/2	12	
4	3	2 1/2	9	10 1/4	14	
6	3	2 1/2	9	11 5/8	15 1/4	
8	3	2 1/2	9	13 5/8	16 1/2	
10	3	2 1/2	9	14 5/8	18 1/4	
12	3	2 1/2	9	15 5/8	19 3/4	
14	4	3	11	18 5/8	20 3/4	
16	4	3	11	19 7/8	22 1/4	
18	6	3 1/2	13 1/2	21 1/4	24	
20	6	3 1/2	13 1/2	23 1/4	25 1/2	
24	6	4	13 1/2	26 1/2	28 1/4	
30	6	4	13 1/2	29 5/8	31 1/2	
32	6	4	13 1/2	30 5/8	32 3/4	
36	6	4	13 1/2	32 5/8	34 3/4	

4 TYP. CMU WALL SECTION
 SCALE: N.T.S.

NOTES:
 1. THE END OF EACH HORIZ BAR SHALL BE ANCHORED TO VERTICAL BARS WITH HOOKS PER ACI.
 2. BOND BEAM FOR INTERIOR 4" CMU WALLS SHALL HAVE (2) #4 CONT. FOR HORIZ. R/F.

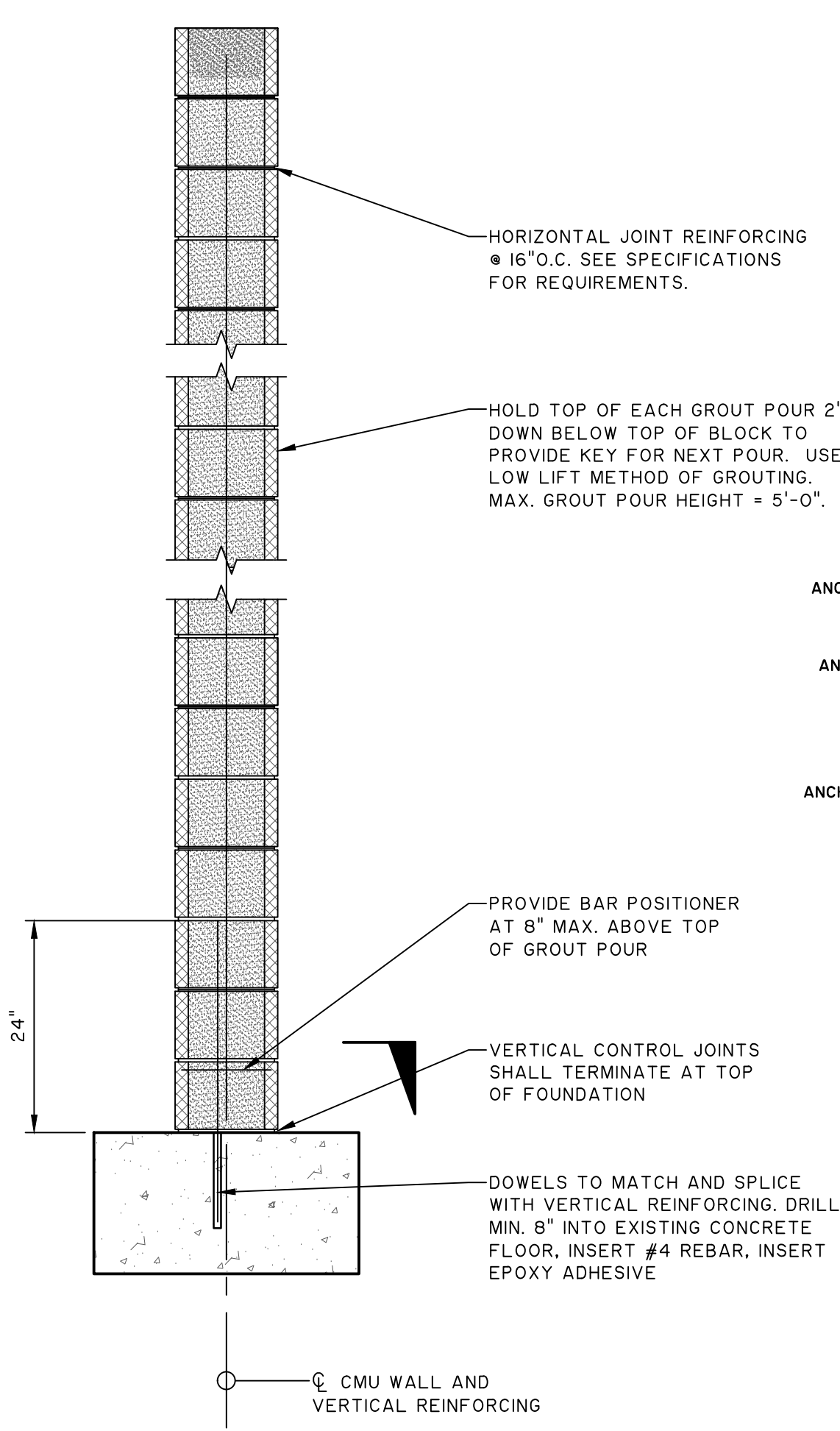


STEEL BOLLARD DETAIL
 SCALE: NONE

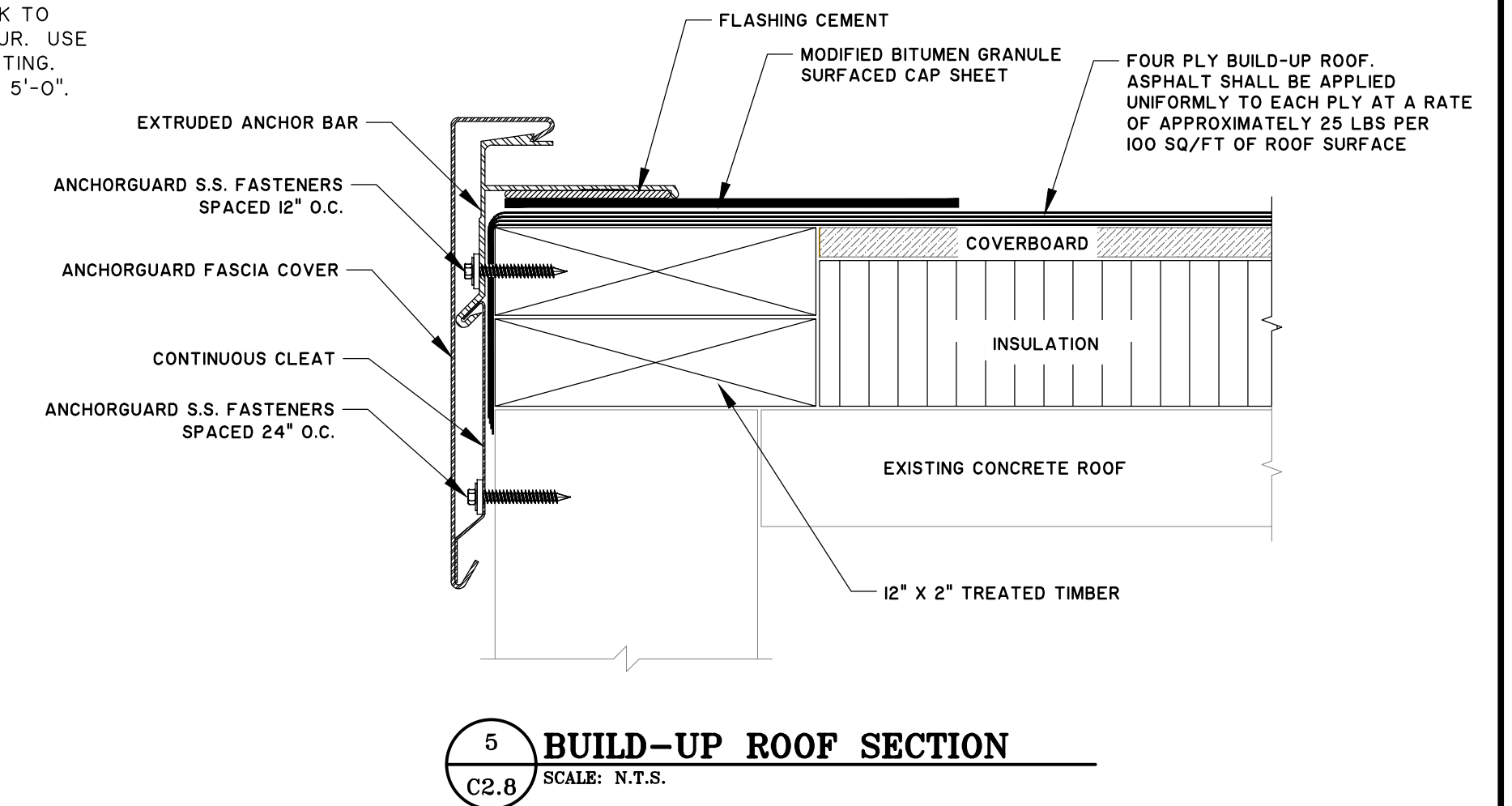


7 ADJUSTABLE S.S. PIPE SUPPORT DETAIL
 SCALE: N.T.S.

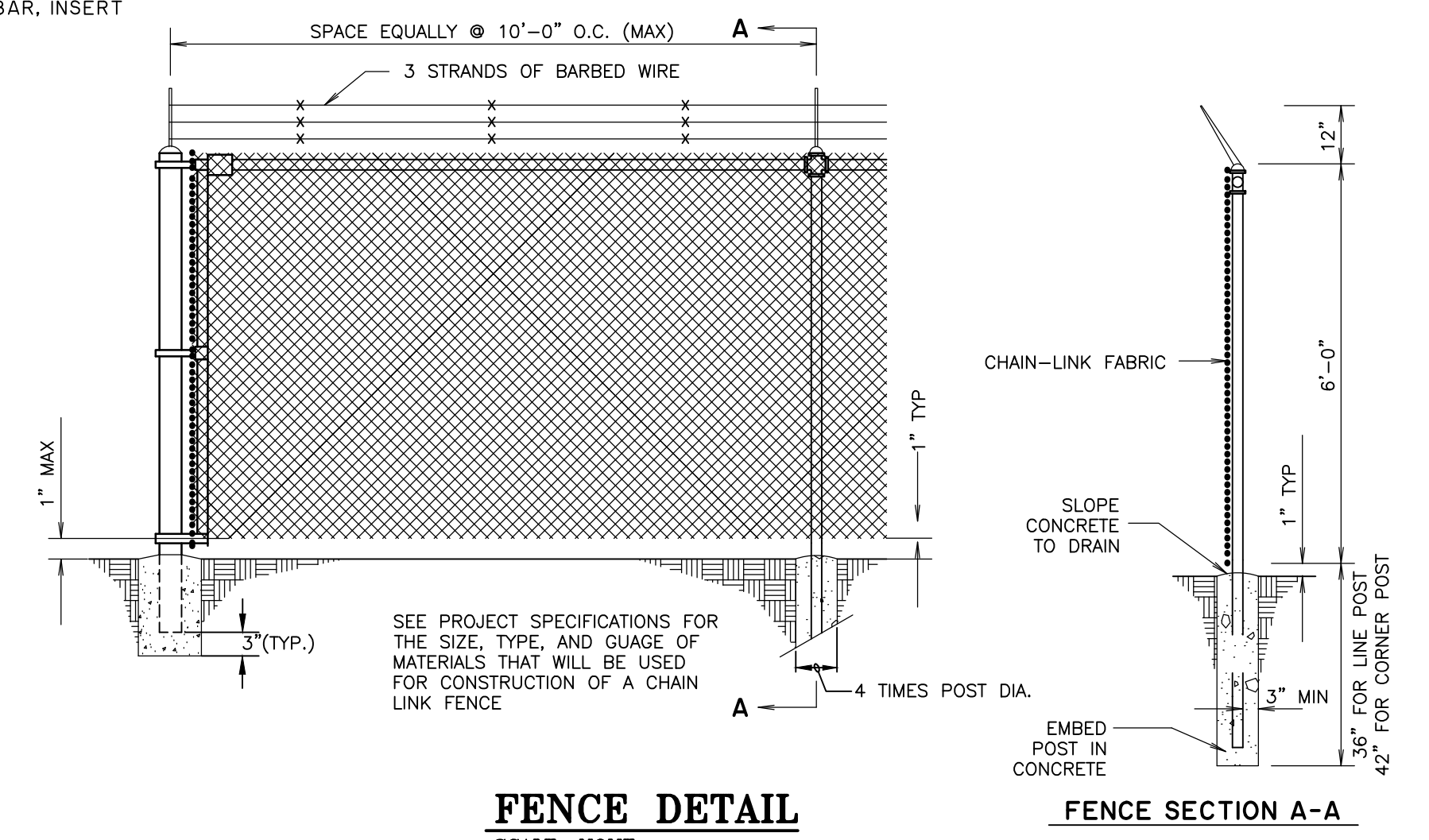
NOTES:
 ANCHOR BOLT SHOULD BE THE STAINLESS STEEL SIMPSON 1/2" X 3" EMBEDMENT (ASSUMING 4" MIN. SLAB) STRONG-TIE STRONG-BOLT 2 WEDGE ANCHOR OR EQUIVALENT.



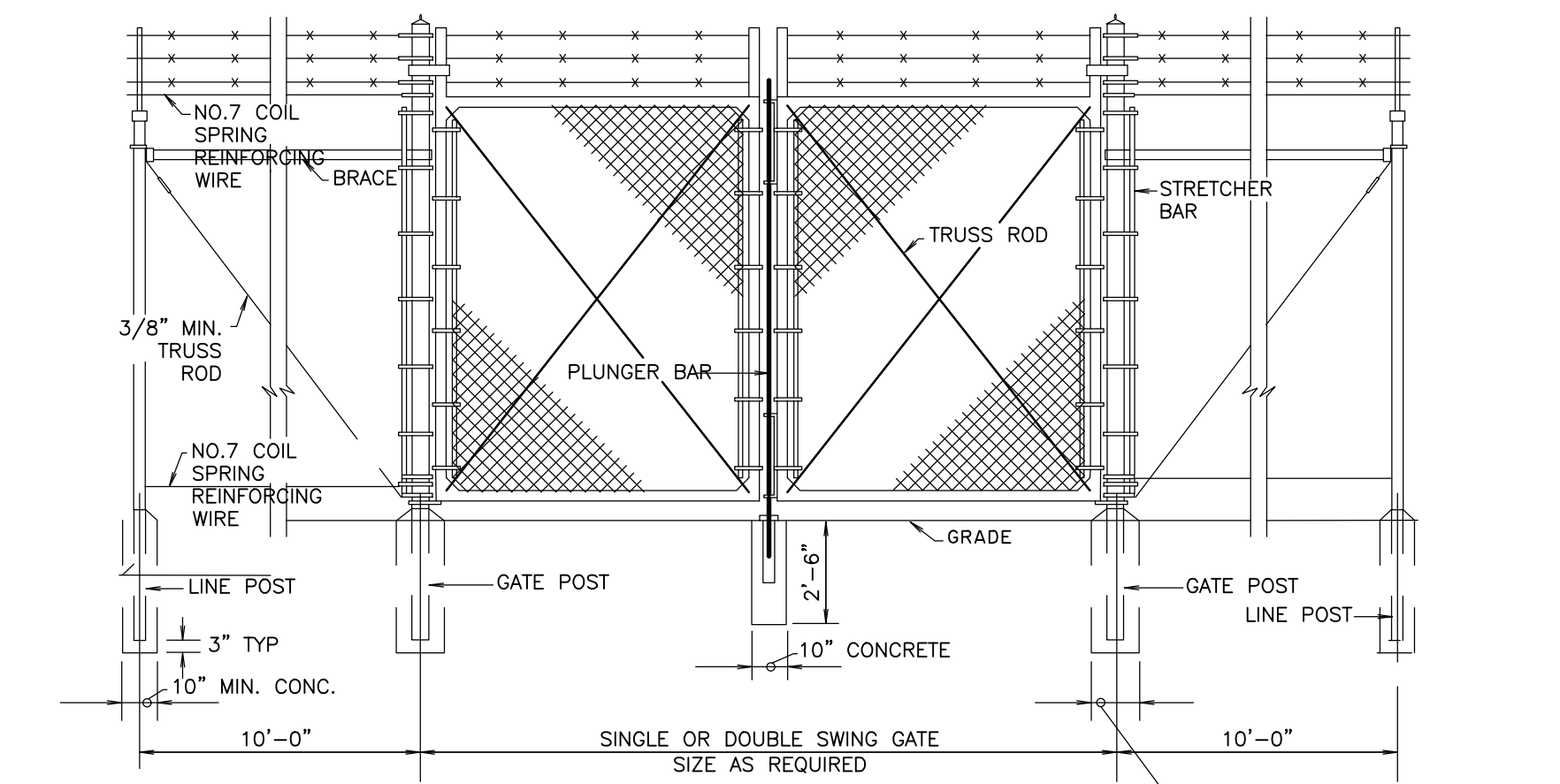
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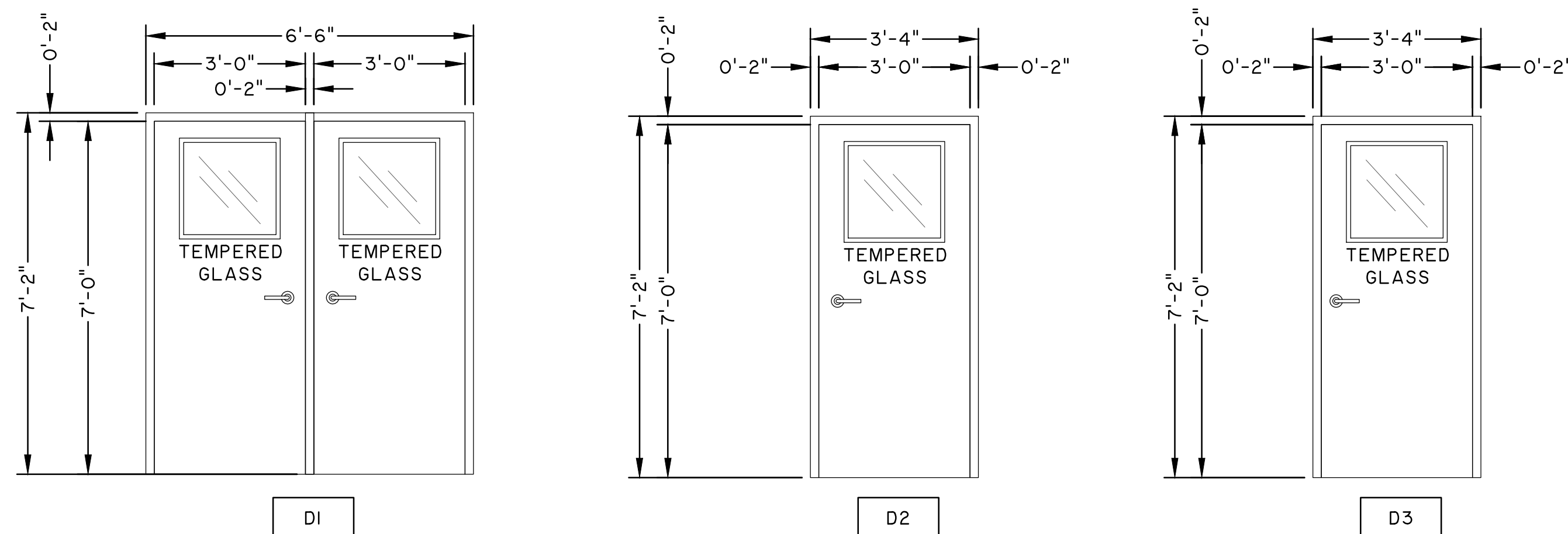
5 BUILD-UP ROOF SECTION
 SCALE: N.T.S.



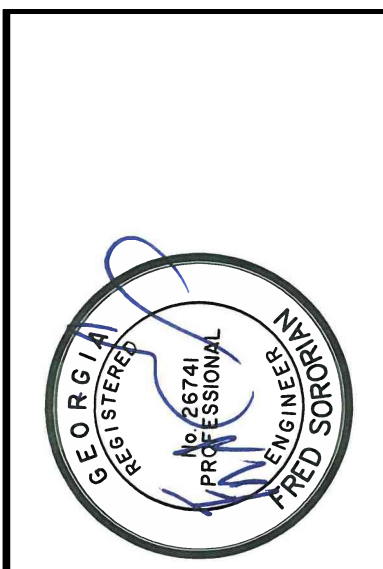
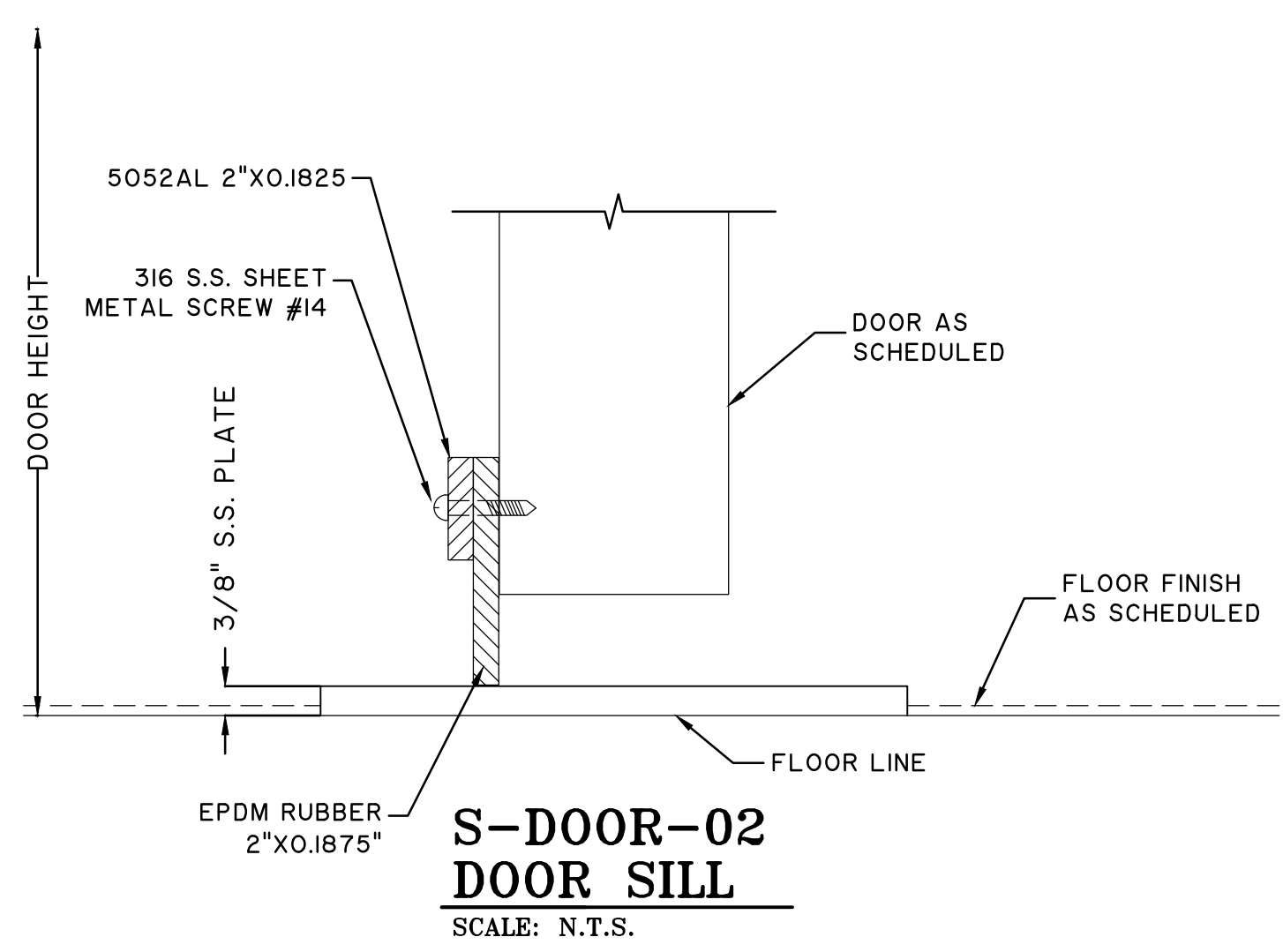
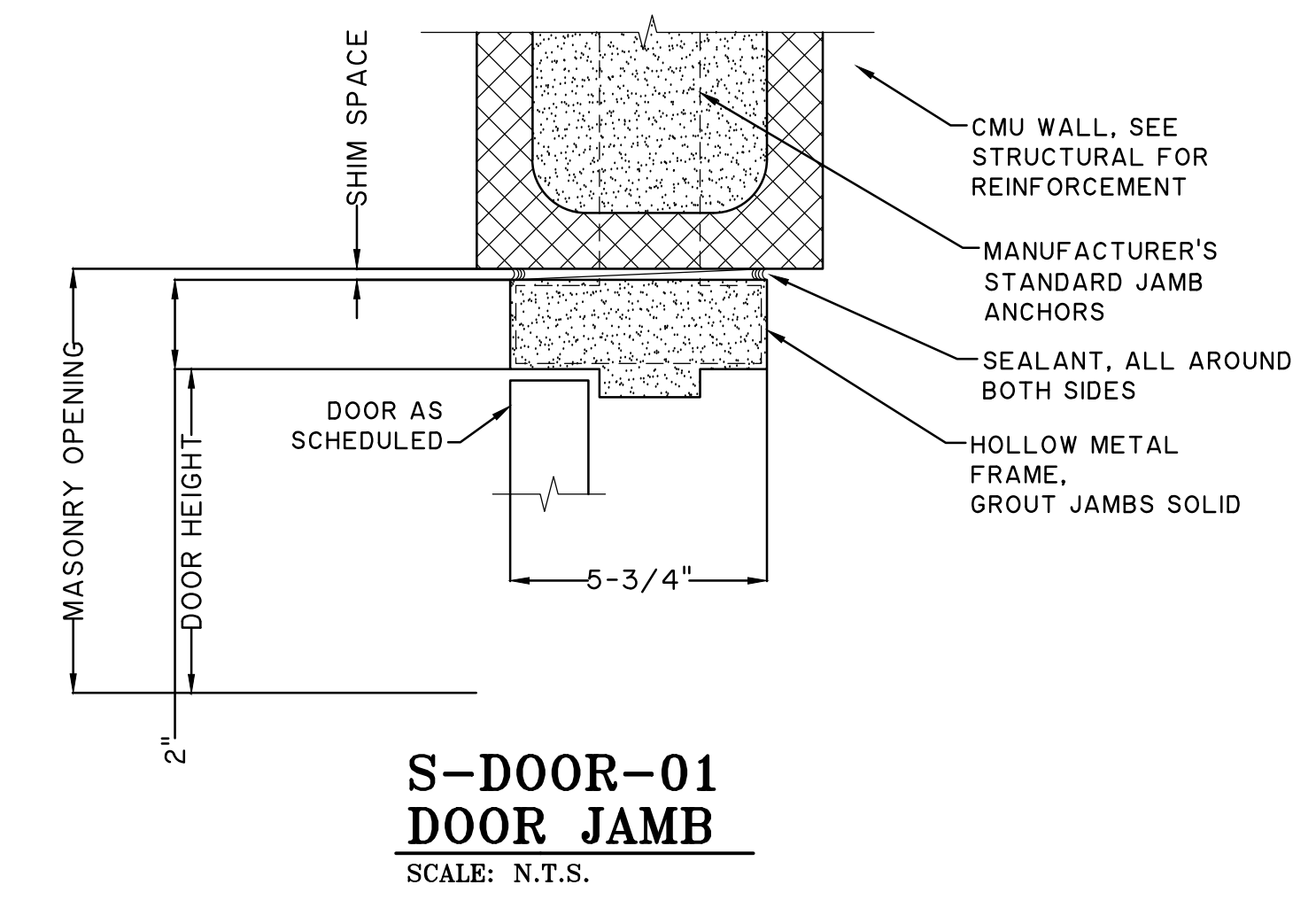
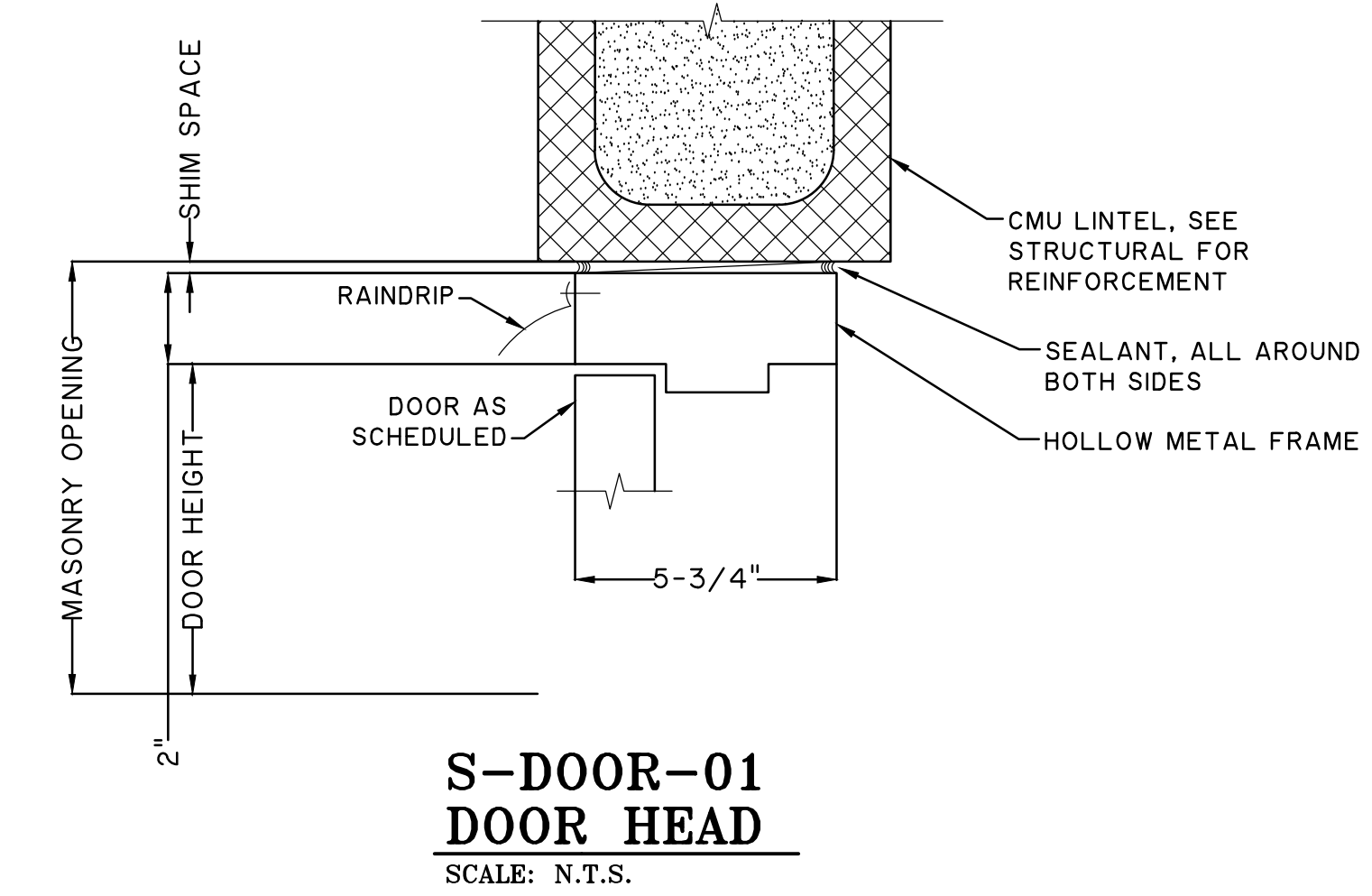
FENCE DETAIL
 SCALE: NONE



GATE DETAIL
 SCALE: NONE



DOOR SCHEDULE															
PUMP STATION.	DOOR NO.	DOOR TYPE	DIMENSIONS			DOOR				FRAME		DOOR DETAILS			
			WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	GLASS	FIRE LABEL	MATERIAL	FINISH	HEAD	JAMB	SILL	MISC.
PS 4035	D101	D1	6'-2"	7'-0"	1-3/4"	FIBERGLASS	PAINT	IMPACT RESISTANT	—	FIBERGLASS	PAINT	S-DOOR-1	S-DOOR-1	S-DOOR-2	CLOSER
PS 4035	D102	D2	3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	IMPACT RESISTANT	—	FIBERGLASS	PAINT	S-DOOR-1	S-DOOR-1	S-DOOR-2	CLOSER
PS 4035	D103	D3	3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	IMPACT RESISTANT	—	FIBERGLASS	PAINT	S-DOOR-1	S-DOOR-1	S-DOOR-2	—
PS 4036	D201	D1	6'-2"	7'-0"	1-3/4"	FIBERGLASS	PAINT	IMPACT RESISTANT	—	FIBERGLASS	PAINT	S-DOOR-1	S-DOOR-1	S-DOOR-2	CLOSER
PS 4036	D202	D2	3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	IMPACT RESISTANT	—	FIBERGLASS	PAINT	S-DOOR-1	S-DOOR-1	S-DOOR-2	CLOSER
PS 4036	D203	D3	3'-0"	7'-0"	1-3/4"	FIBERGLASS	PAINT	IMPACT RESISTANT	—	FIBERGLASS	PAINT	S-DOOR-1	S-DOOR-1	S-DOOR-2	—



NO.	REVISIONS	BY	DATE

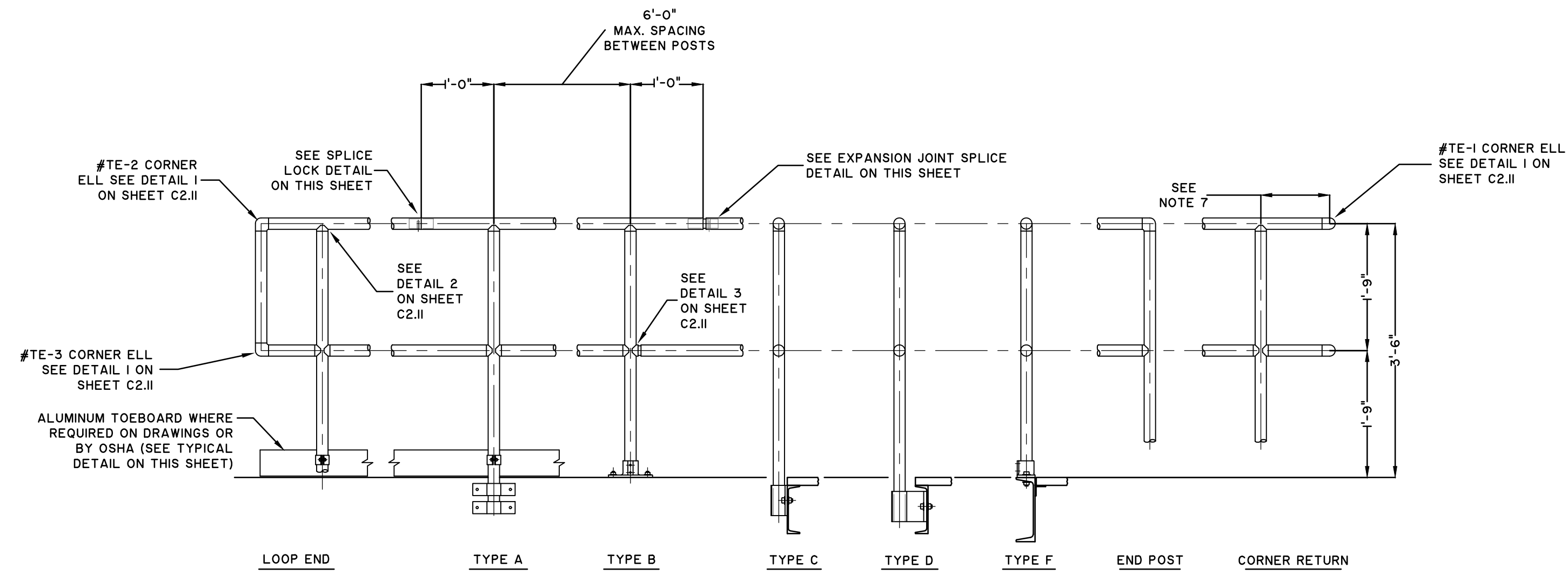
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BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 2016 SPLOST NORTH MAIN AND PH-II PUMP STATION IMPROVEMENTS
 PUMP STATION BUILDING DOOR SCHEDULE

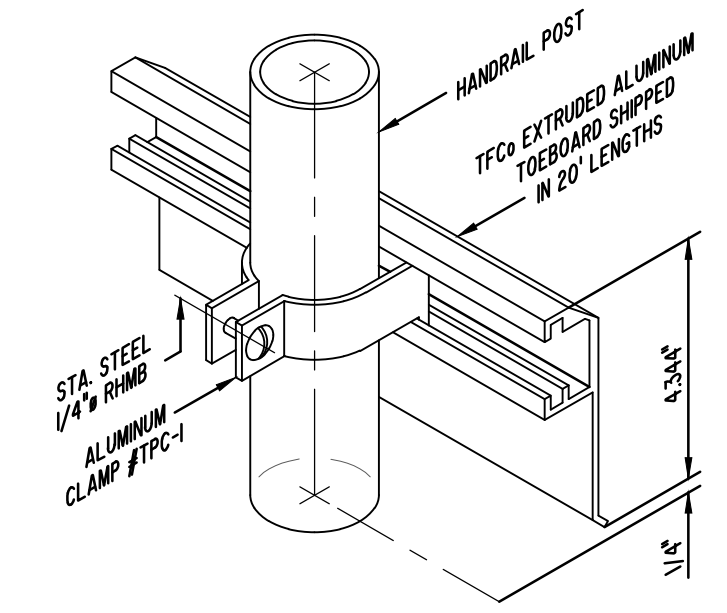
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APPROVED:	FS
SCALE:	N.T.S.

C2.9

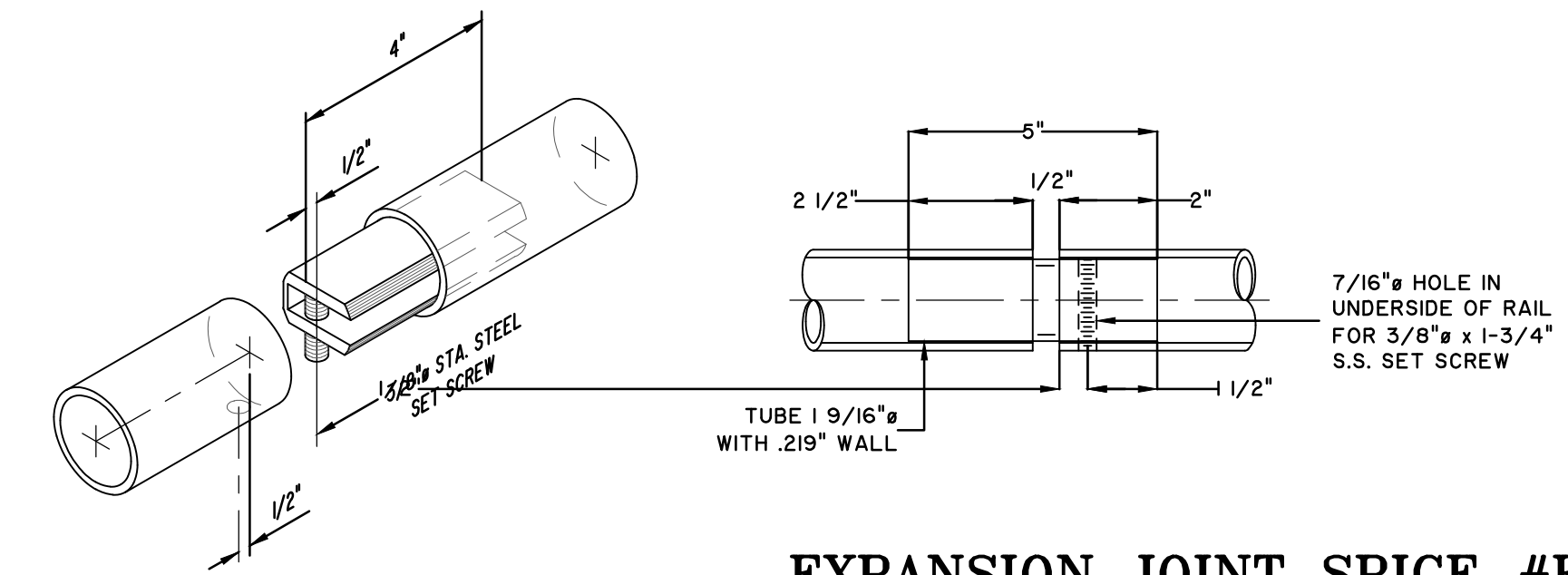
C:\Users\jph\appdata\local\temp\110110\Documents\Drawing.dwg - Aug 12, 2019 - 10:58:18 PM



TYPICAL HANDRAIL
SCALE: NTS



TOEBOARD DETAILS
SCALE: NTS



EXPANSION JOINT SPLICE #ES-1 (LOCATED AT 60'-0" MAXIMUM INTERVALS)
SCALE: NTS

2-LINE COMPONENT HANDRAIL IN COMPLIANCE WITH OSHA
SCALE: NOT TO SCALE

1
C2.10

- OSHA DESIGN SPECIFICATIONS**
- HANDRAIL SHALL BE THE PRODUCT OF A COMPANY NORMALLY ENGAGED IN THE MANUFACTURE OF PIPE RAILING. RAILING SHALL BE SHOP ASSEMBLED IN LENGTHS NOT TO EXCEED 24 FEET FOR FIELD ERECTION.
 - HANDRAILS SHALL BE DESIGNED TO WITHSTAND 200# CONCENTRATED LOAD APPLIED IN ANY DIRECTION TO THE TOP RAIL.
 - THE MANUFACTURER SHALL SUBMIT CALCULATIONS TO THE ENGINEER FOR APPROVAL. TESTING OF BASE CASTINGS OR BASE EXTRUSIONS BY AN INDEPENDENT LAB OR MANUFACTURER'S LAB (IF MANUFACTURER'S LAB MEETS THE REQUIREMENTS OF THE ALUMINUM ASSOCIATION) WILL BE AN ACCEPTABLE SUBSTITUTE FOR CALCULATIONS. CALCULATIONS WILL BE REQUIRED FOR APPROVAL OF ALL OTHER DESIGN ASPECTS.
 - POST SPACING SHALL BE A MAXIMUM OF 6'-0". POSTS AND RAILINGS SHALL BE A MINIMUM OF 1-1/2" SCHEDULE 40 ALUMINUM PIPE ALLOY 6061-T5, ASTM-B-429 OR ASTM-B-221. THE HANDRAIL MANUFACTURER SHALL SHOW THAT THEIR POSTS ARE OF ADEQUATE STRENGTH TO MEET THE LOADING REQUIREMENTS. IF THE MANUFACTURER'S POSTS ARE NOT OF ADEQUATE STRENGTH, THE MANUFACTURER MAY REDUCE THE POST SPACING OR ADD REINFORCING DOWELS OR MAY DO BOTH IN ORDER TO MEET THE LOADING REQUIREMENTS.
 - THE HANDRAIL SHALL BE MADE OF PIPES JOINED TOGETHER WITH COMPONENT FITTINGS. SAMPLES OF ALL COMPONENTS, BASES, TOE PLATE AND PIPE MUST BE SUBMITTED FOR APPROVAL. COMPONENTS THAT ARE POP-RIVETED OR GLUED AT THE JOINTS WILL NOT BE ACCEPTABLE. ALL COMPONENTS MUST BE MECHANICALLY FASTENED WITH STAINLESS STEEL HARDWARE. HANDRAIL AND COMPONENTS SHALL BE TUF RAIL, AS MANUFACTURED BY THOMPSON FABRICATING COMPANY (BIRMINGHAM, ALABAMA) OR AN APPROVED EQUAL.
 - POSTS SHALL NOT INTERRUPT THE CONTINUATION OF THE TOP RAIL AT ANY POINT ALONG THE RAILING. INCLUDING CORNERS AND END TERMINATIONS (OSHA 1910.23), THE TOP SURFACE OF THE TOP RAILING SHALL BE SMOOTH AND SHALL NOT BE INTERRUPTED BY PROJECTED FITTINGS.
 - THE MIDRAIL AT A CORNER RETURN SHALL BE ABLE TO WITHSTAND A 200# LOAD WITHOUT LOOSENING. THE MANUFACTURER IS TO DETERMINE THIS DIMENSION FOR THEIR SYSTEM. PROVIDE PHYSICAL TESTS FROM A LABORATORY TO CONFIRM COMPLIANCE.
 - EXPANSION BOLTS SHALL BE SPACED 10D APART AND 5D EDGE DISTANCE FOR NO REDUCTION IN PULLOUT STRENGTH. A SAFETY FACTOR OF 4 SHALL BE USED ON EXPANSION BOLT PULLOUT VALUES PUBLISHED BY THE MANUFACTURER. EXPANSION BOLTS SHALL BE STAINLESS STEEL TYPE 18-8 WEDGE BOLTS AND SHALL BE FURNISHED BY THE HANDRAIL MANUFACTURER.
 - TOE PLATE SHALL CONFORM TO OSHA STANDARDS. TOE PLATE SHALL BE A MINIMUM OF 4" HIGH AND SHALL BE AN EXTRUSION THAT ATTACHES TO THE POSTS WITH CLAMPS WHICH WILL ALLOW FOR EXPANSION AND CONTRACTION BETWEEN POSTS. TOE PLATES SHALL BE SET 1/4" ABOVE THE WALKING SURFACE. TOE PLATES SHALL BE PROVIDED ON HANDRAILS AS REQUIRED BY OSHA AND/OR AS SHOWN ON DRAWINGS. TOE PLATES SHALL BE SHIPPED LOOSE IN STOCK LENGTHS WITH PRE-MANUFACTURED CORNERS FOR FIELD INSTALLATION.
 - OPENINGS IN THE RAILING SHALL BE GUARDED BY A SELF-CLOSING GATE (OSHA 1910.23). SAFETY CHAINS SHALL NOT BE USED UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS.
 - FINISH SHALL BE ALUMINUM ASSOCIATION M10-C22-A41 (215-RI). THE PIPE SHALL BE PLASTIC-WRAPPED. THE PLASTIC WRAP IS TO BE REMOVED AFTER ERECTION.
 - ALUMINUM SURFACES IN CONTACT WITH CONCRETE, GROUT OR DISSIMILAR METALS WILL BE PROTECTED WITH A COAT OF BITUMINOUS PAINT, MYLAR ISOLATORS OR OTHER APPROVED MATERIAL.



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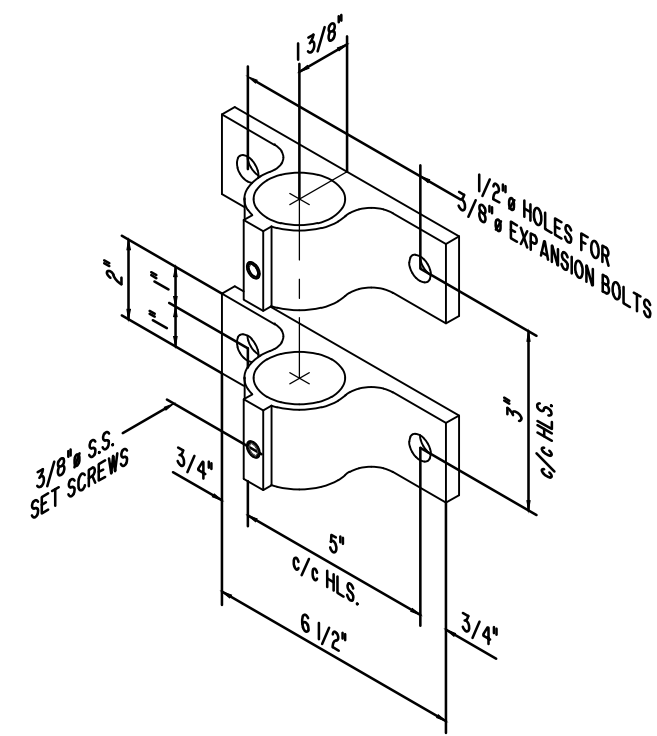
BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION
BRUNSWICK, GA
2016 SPOST NORTH MAINLAND PH-II PUMP STATION IMPROVEMENTS
PUMP STATION HANDRAIL DETAILS

JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1" = 1'

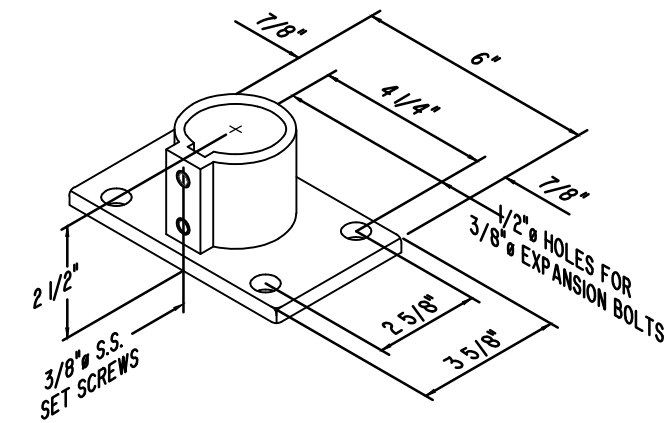
C2.10



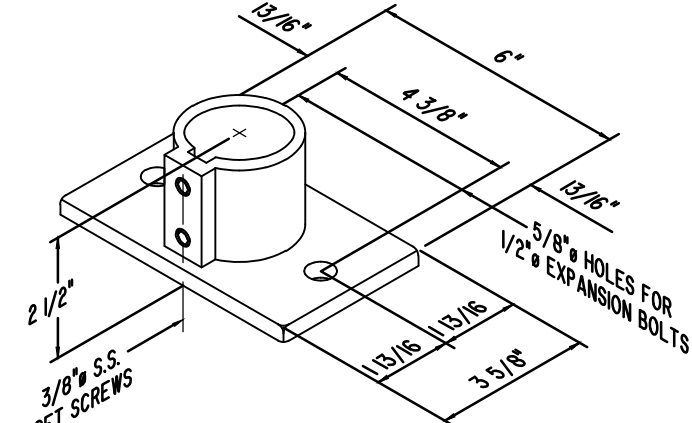
**2-LINE COMPONENT HANDRAIL
IN COMPLIANCE WITH OSHA**



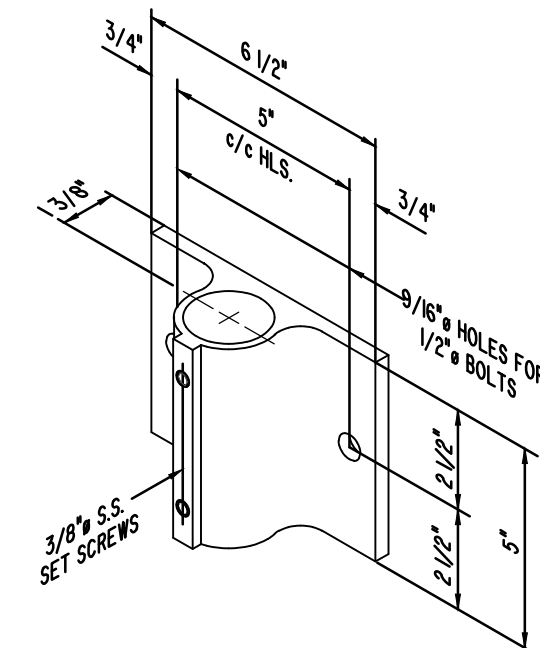
**SIDE-MT. BRACKET #TSM-1.50
TYPE A**
SCALE: N.T.S.



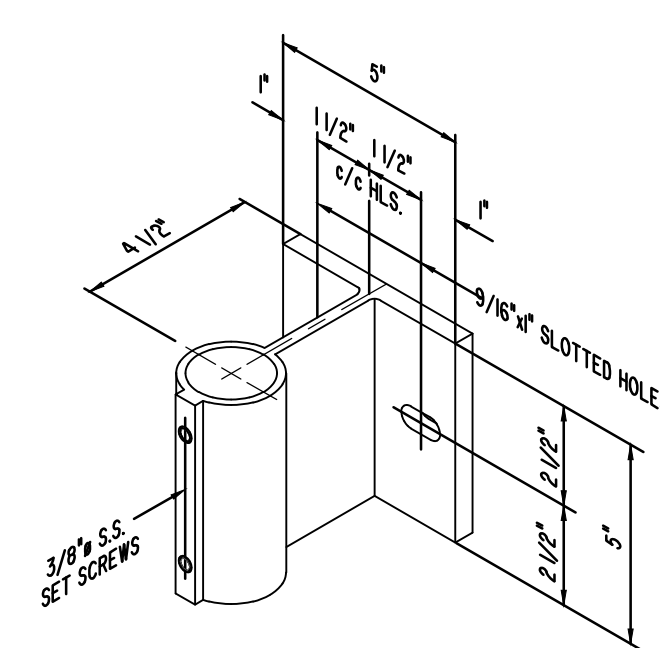
**BASE FLANGE #TBF-1.4
TYPE B (4-HOLE)**
SCALE: N.T.S.



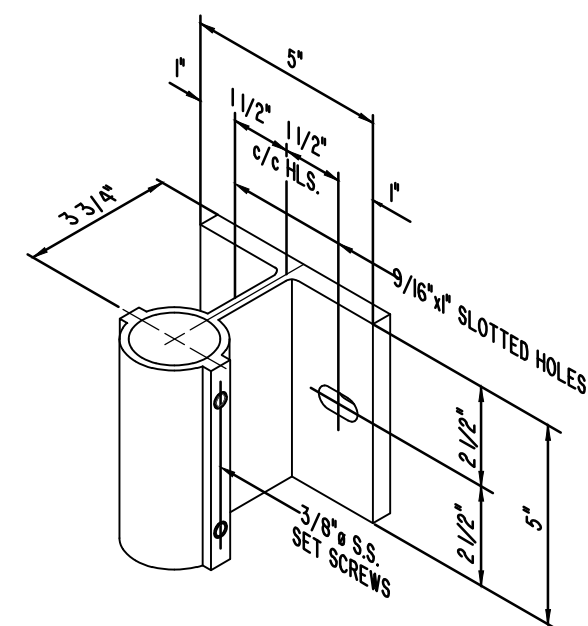
**BASE FLANGE #TBF-1.2
TYPE B (2-HOLE)**
SCALE: N.T.S.



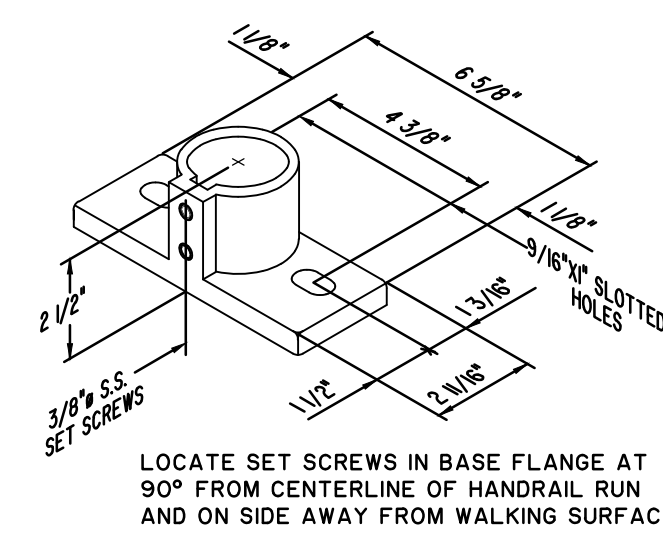
**SIDE-MT. BRACKET #TSM-1.50
TYPE C**
SCALE: N.T.S.



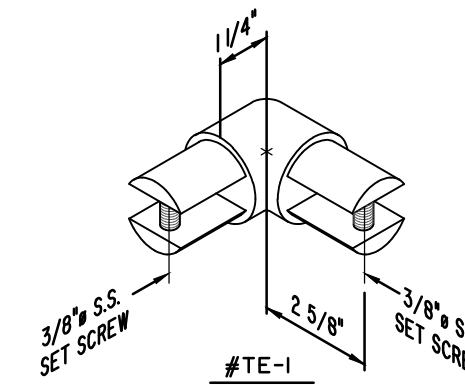
**SIDE-MT. BRACKET #SMB-2
TYPE D**
SCALE: N.T.S.



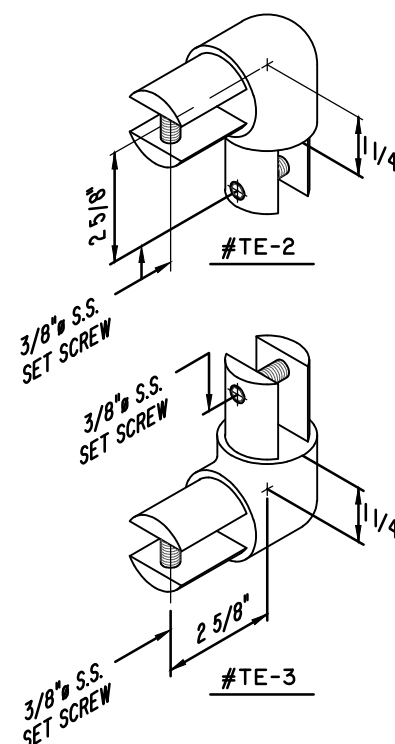
**SIDE-MT. BRACKET #SMB-3
TYPE E**
SCALE: N.T.S.



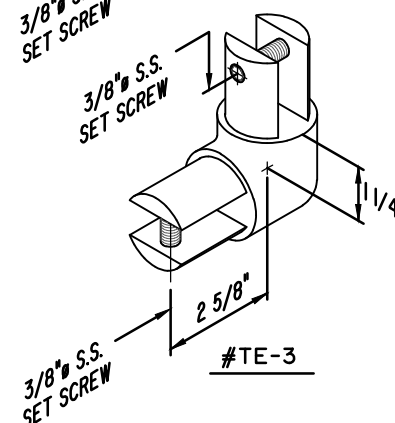
**BASE FLANGE #TBF-2
TYPE F**
SCALE: N.T.S.



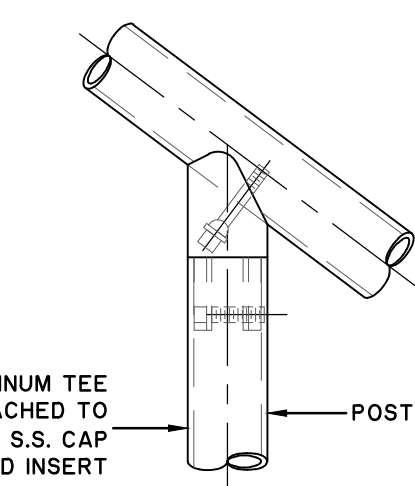
DETAIL 1
SCALE: N.T.S.



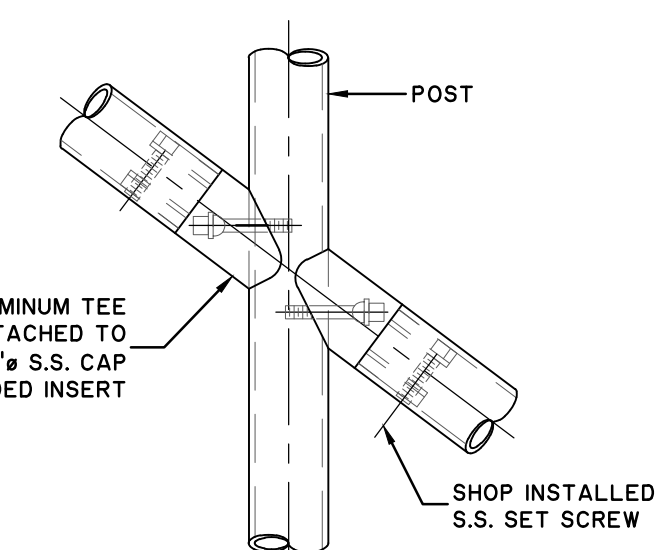
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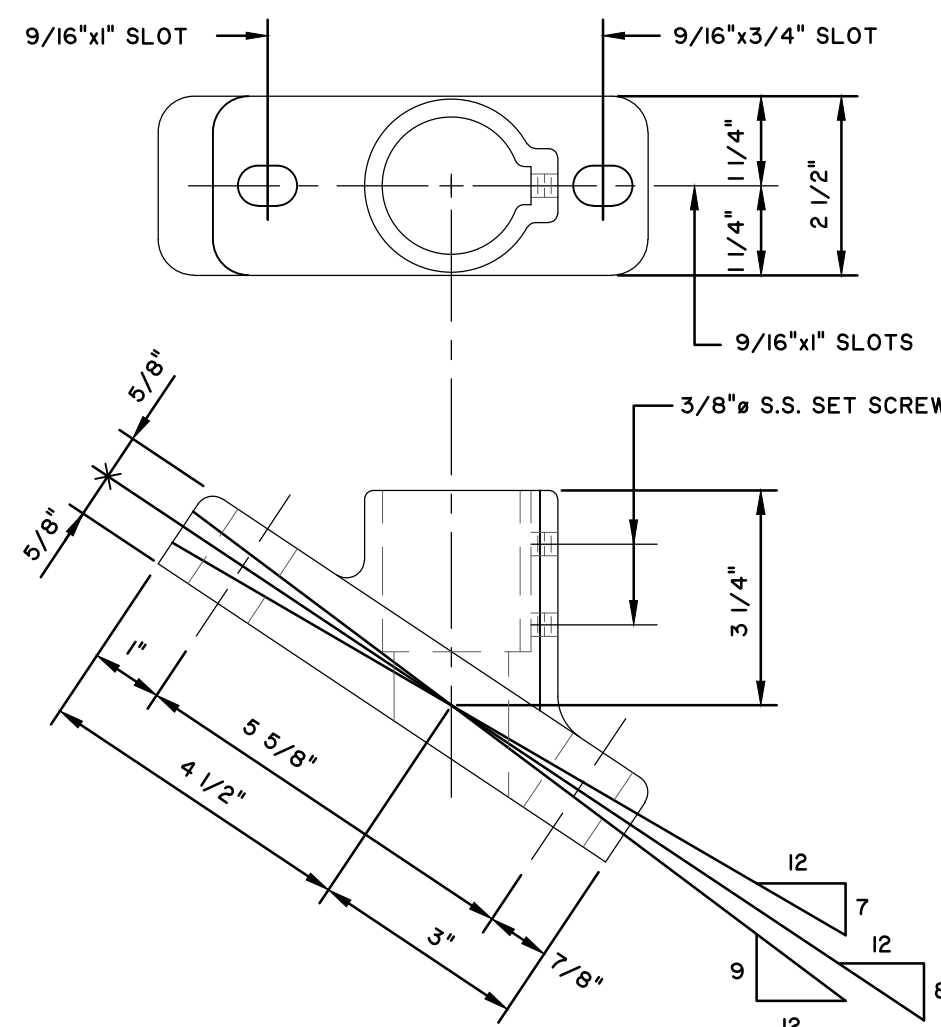
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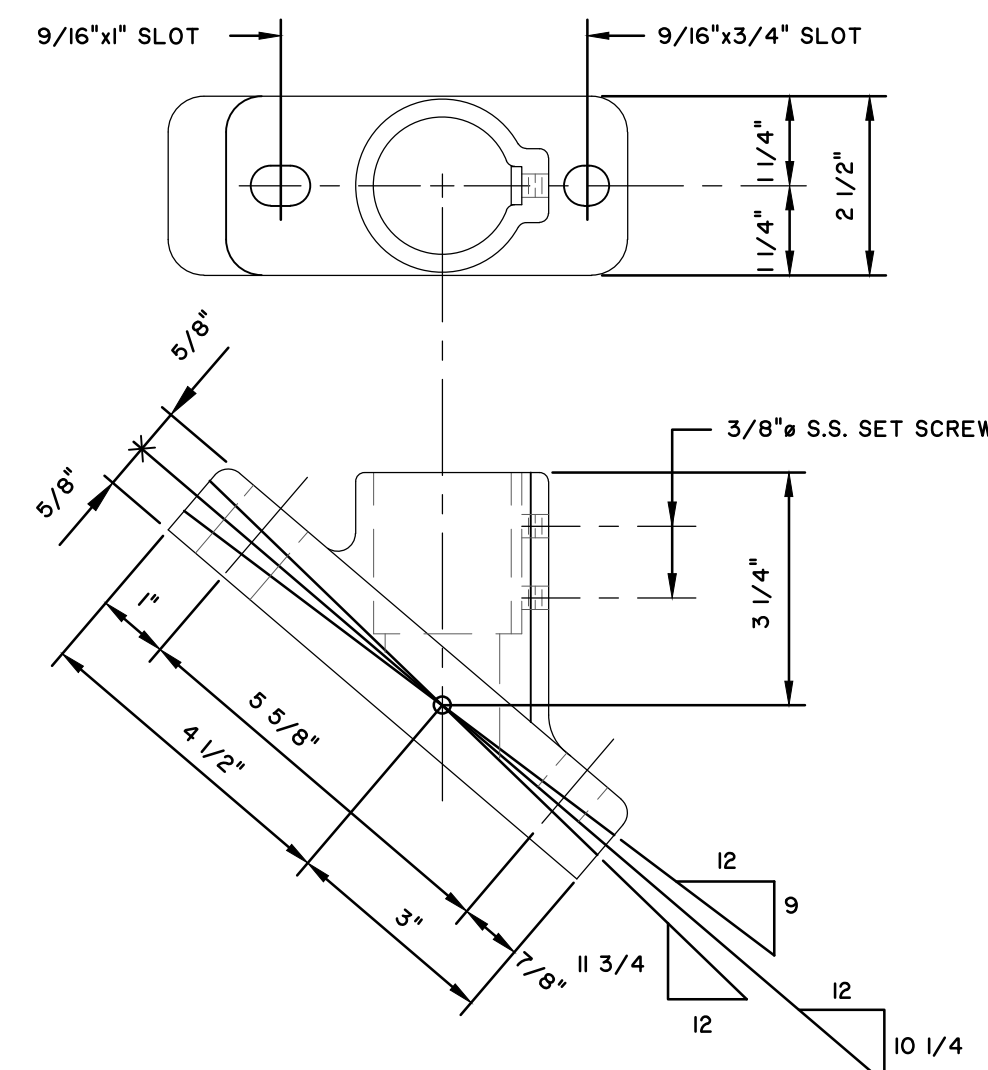
DETAIL 4
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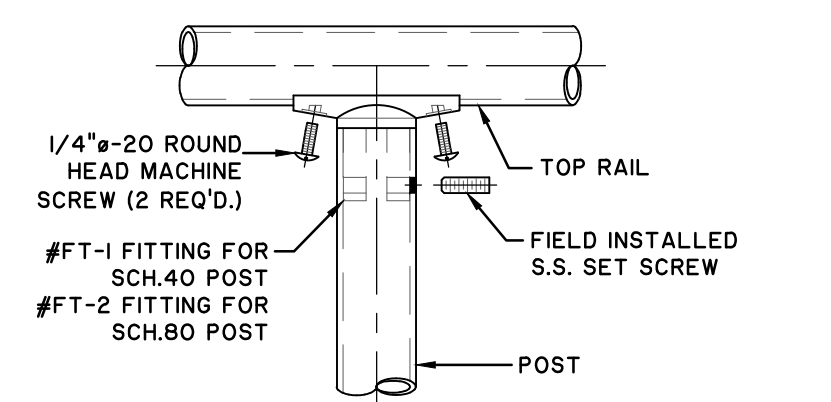
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SCALE: N.T.S.



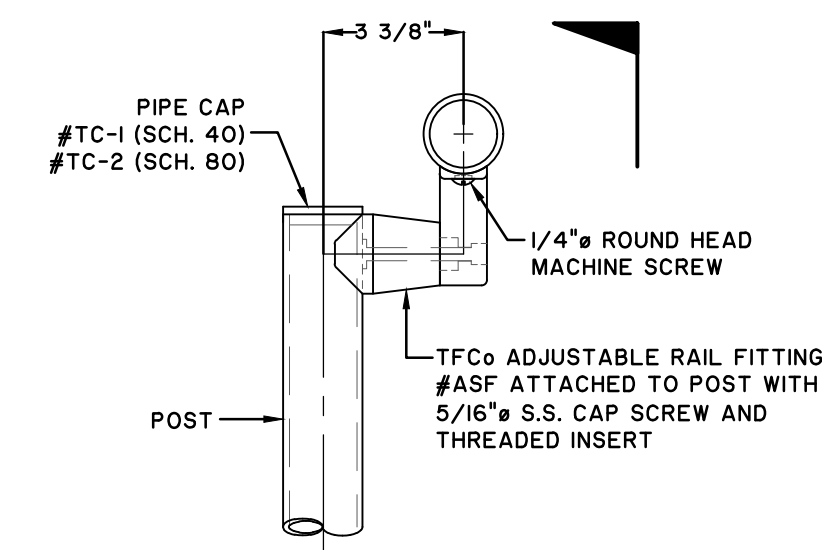
**BASE FLANGE #ABF-1
TYPE G
RANGES FROM 30° TO 37°**
SCALE: N.T.S.



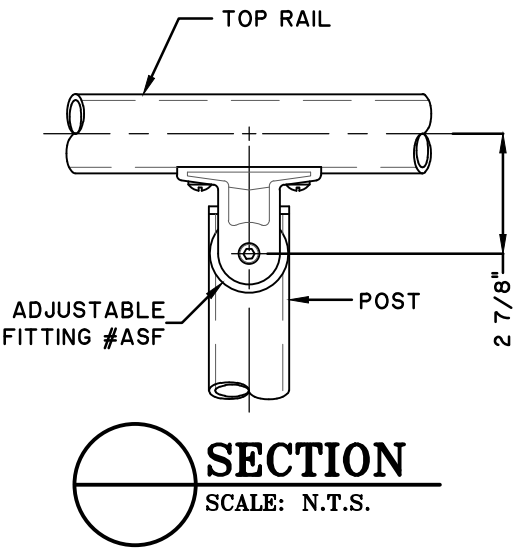
**BASE FLANGE #ABF-2
TYPE G
RANGES FROM 37° TO 44°**
SCALE: N.T.S.



**DETAIL 8
FOR FIELD ASSEMBLED HANDRAIL**
SCALE: N.T.S.



DETAIL 9
SCALE: N.T.S.



SECTION
SCALE: N.T.S.

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BRUNSWICK, GA
2016 SPOST NORTH MAINLAND PH-II PUMP STATION IMPROVEMENTS
PUMP STATION HANDRAIL DETAILS

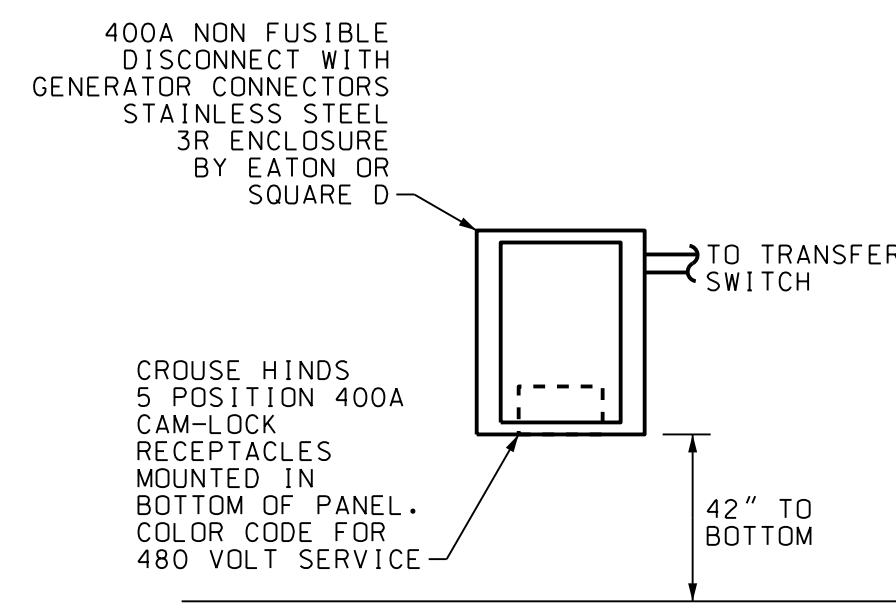
JOB NO:	J-27784.0000
DATE:	8/22/19
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1" = 1'

LEGEND:

- HOME RUN
- EQUIPMENT AS NOTED
- CIRCUIT BREAKER
- 20A DUPLEX RECEPTACLE, NEMA 5-20R, TYPE WR
- WP WEATHERPROOF
- GROUND TO GROUND ROD SYSTEM
- GF GROUND FAULT CIRCUIT INTERRUPTER PROTECTION
- AIC INTERRUPTING CAPACITY IN AMPS
- CONDUIT SYSTEM CONCEALED BELOW GRADE
- EXPOSED CONDUIT
- PUMP MOTOR, HORSEPOWER INDICATED
- N.T.S. NOT TO SCALE
- SP SURGE PROTECTION DEVICE
- DRIVEN GROUND ROD LOCATION
- SERVICE POLE WITH DOWN GUY
- S SWITCH, 48" UP
- S₃ THREE WAY SWITCH, 48" AFF
- S^{3P} 20A 120/277V 3-WAY TOGGLE SWITCH WITH PILOT LIGHT, 48" AFF
- NEMA 4X STAINLESS STEEL DISCONNECT SWITCH MOUNTED ON EQUIPMENT FRAME, RATINGS AS NOTED ON ONE-LINE
- ALARM HORN, MOUNT 12' AFF ON BUILDING - NOTE G6
- RED ALARM LIGHT, MOUNT 12' AFF ON BUILDING - NOTE G7
- MULTI-COLOR ALARM LIGHT ON BUILDING - NOTE G6.
- PC PHOTO CELL: TORK MODEL 2107: 120/277V, 2000W/1800W/600W TUNGSTON/BALLAST/LED RATED
- WALL MOUNTED LED EMERGENCY BATTERY PACK
- EXP EXPLOSION PROOF: CLASS 1, DIV. 1
- GENERATOR RECEPTACLE - SEE 3/E0.1

GENERAL NOTES (APPLICABLE TO ALL DRAWINGS)

- G1. FIELD COORDINATE THE ELECTRICAL SERVICE WITH LEAH HALL, GEORGIA POWER ACCOUNT MANAGER, 912-267-5155.
- G2. INSTALL GROUNDING DELTA IN THIS AREA. REFER TO SECONDARY GROUNDING DETAIL, SHEET E0.1, FOR INSTALLATION REQUIREMENTS.
- G3. PROVIDE A TRANS-SOCKET, METER SYSTEM. EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE GEORGIA POWER BLUE BOOK, 2017 EDITION.
- G4. ALL CONDUIT TERMINATIONS TO ELECTRICAL ENCLOSURES SHALL UTILIZE THREADED HUBS; LOCK NUTS AND BUSHINGS ARE NOT ACCEPTABLE. SEE SPECIFICATIONS FOR CONDUIT REQUIREMENTS.
- G5. EXTEND UNSWITCHED AND ENERGIZED CONDUCTOR TO ALL EXIT SIGNS AND EMERGENCY BATTERY PACKS.
- G6. PROVIDE MULTI-COLOR ALARM LIGHT AND RED LIGHT ON OUTSIDE OF EACH STATION. REFER TO SCADA SPEC ON SHEET E3.1. PROVIDE PLASTIC ENGRAVED SIGN WITH 1 1/2" LETTERING ADJACENT TO FRONT DOOR IDENTIFYING LIGHT STATUS.
- G7. IF EITHER ALARM OCCURS, HORN TO SOUND UNTIL SILENCE SWITCH IS PUSHED.
- G8. ANY CONDUIT WITHOUT DESIGNATION CONTAINS 3 #10, #12 GND IN 1" CONDUIT. CONDUITS IMBEDDED IN STRUCTURAL CONCRETE (FLOOR SLABS, ETC) SHALL BE SO LOCATED AS NOT TO UNDULY IMPAIR THE STRENGTH OF THE CONSTRUCTION AND SHALL BE SPACED NOT LESS THAN TWO TIMES THE CONDUIT OD BETWEEN ADJACENT CONDUITS EXCEPT WHERE CROSSING OR OTHERWISE APPROVED BY THE ENGINEER. WIRING FOR LIGHTING, RECEPTACLES AND OTHER MISCELLANEOUS CIRCUITS SHALL CONFORM TO THE CIRCUITING INDICATED ON THE DRAWINGS WITH FIELD ARRANGEMENT AND ROUTING AS REQUIRED. THE WIRING SHALL BE SO ARRANGED THAT NO MORE THAN 3 CURRENT CONDUCTORS SHALL BE INSTALLED PER CONDUIT AND CIRCUITS OF DIFFERENT PANELS SHALL BE INSTALLED IN SEPARATE RACEWAYS.
- G9. CONNECT TO AIR FLOW SWITCH PROVIDED BY MECHANICAL EXTEND CIRCUIT TO SCADA PANEL.



3 GENERATOR RECEPTACLE DETAIL
E0.1 NOT TO SCALE

DEMOLITION NOTES

- D1. THE EXISTING MCC, TRANSFER SWITCH, LIGHTING SYSTEM, RECEPTACLES, VFDS, AND OTHER ELECTRICAL EQUIPMENT INCLUDING ALL CONDUITS AND CONDUCTORS SHALL BE DEMOLISHED AND REMOVED FROM THE PROJECT SITE AS PART OF THIS CONTRACT. THE CONTRACTOR SHALL DISPOSE OF THE MATERIAL OFF-SITE AS PART OF THE CONTRACT. COORDINATE WITH OWNER FOR ANY MATERIALS TO BE RETAINED BY THE OWNER.
- D2. THE CONTRACTOR SHALL COORDINATE WITH GEORGIA POWER FOR MODIFICATIONS AND/OR REMOVAL OF THE EXISTING SERVICES TO THE EXISTING PUMP STATION BUILDINGS.

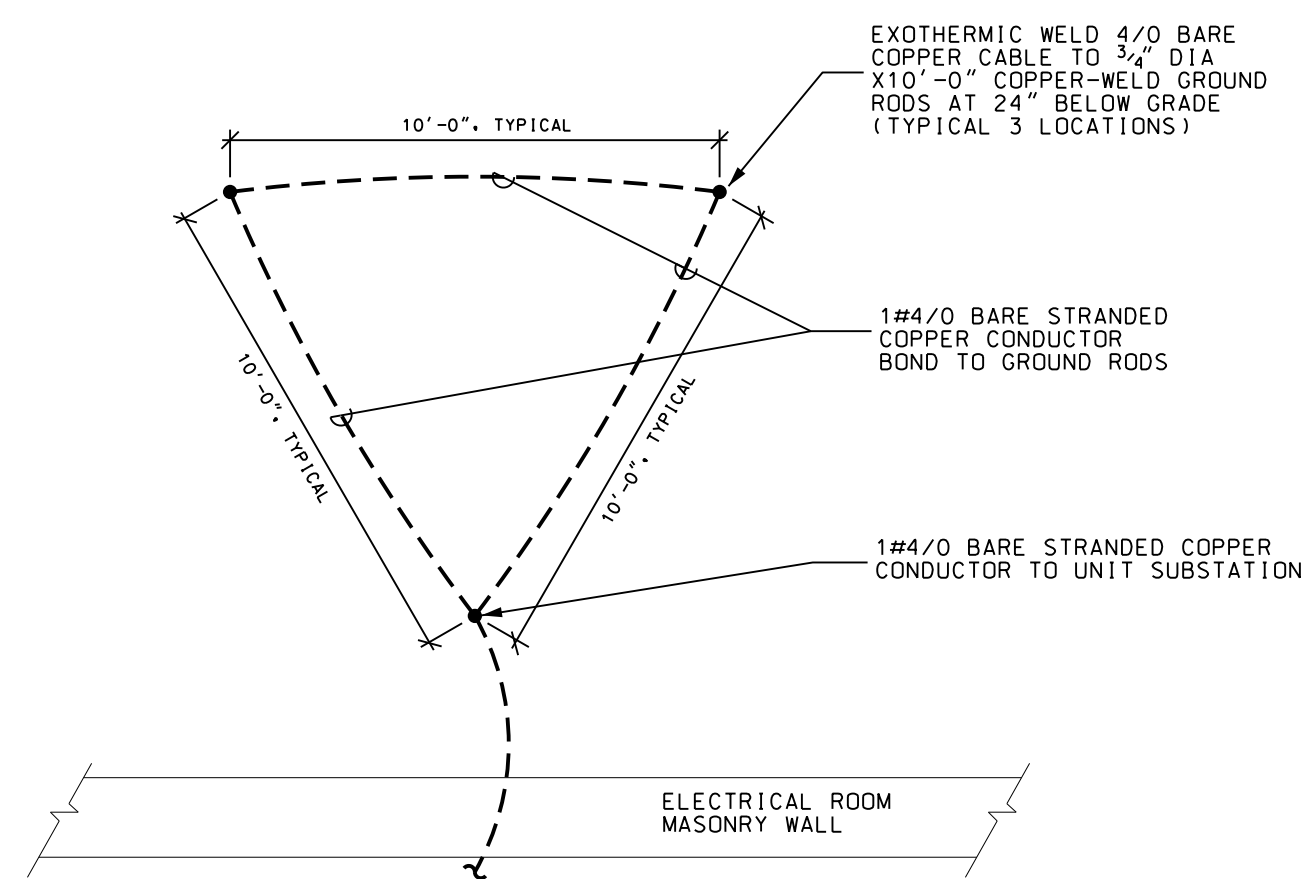


NO.	REVISIONS	BY	DATE

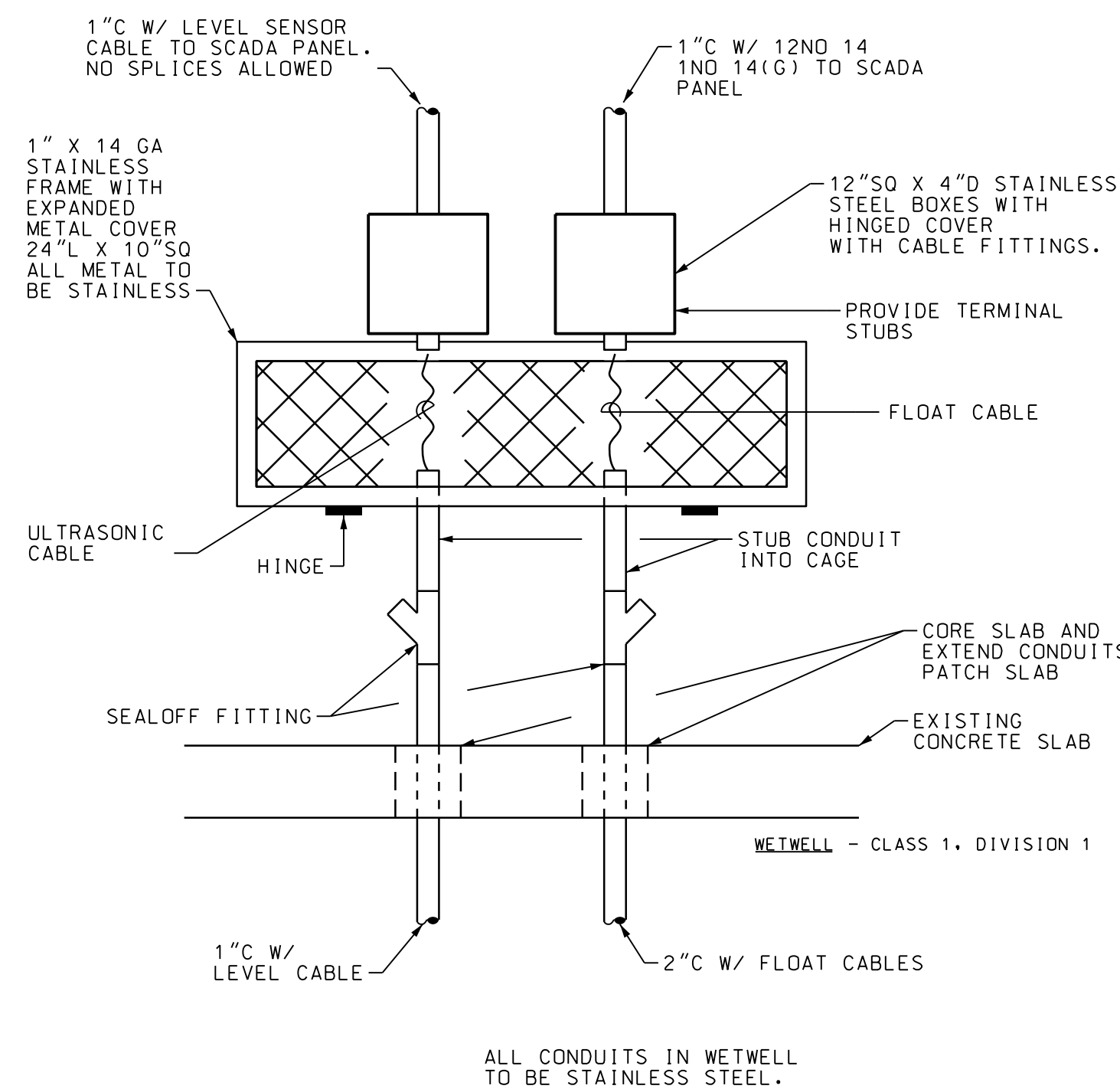
TYPE	DESCRIPTION	LAMP	MOUNTING	NOTES
A	LED ENCLOSED/GASKETED INDUSTRIAL LITHONIA FEM-L48-6000-LM-LPPCL-MD-MVOLT-GZ10- 40K-80CRI-DPMB-STSL	LED INCLUDED	PENDANT	LF-2
B	LED ENCLOSED/GASKETED INDUSTRIAL WALL MTD LITHONIA FEM-L48-6000-LM-LPPCL-MD-MVOLT-GZ10- 40K-80CRI-DPMB-STSL	LED INCLUDED	WALL	10' AFF
C	LED EXTERIOR WALL SCONCE LITHONIA WSTLED-P3-40K-VW-MVOLT-E20WH-DDBXD WITH WSTVCPBBW DDBXD U SURFACE MTD BACKBOX	LED INCLUDED	WALL	12' AFF
D	LED HAZARDOUS LOCATION CEILING FIXTURE APPLETON AAL-C-L2-2-C-BU-AAP-75	LED INCLUDED	SURFACE	LF-3
XA	LED EXIT SIGN LITHONIA LHOM-LED-R-SD	LED INCLUDED	WALL	8' AFF
ELU	LED EMERGENCY LIGHT ELM2-LED-SD	LED INCLUDED	WALL	8' AFF

NOTES - LIGHTING FIXTURE SCHEDULE

- LF-1. FIXTURES SHOWN INDICATE QUALITY OF FIXTURES DESIRED. OTHER MANUFACTURERS OF EQUAL FIXTURES ARE ACCEPTABLE UPON REVIEW AND APPROVAL OF THE ENGINEER. PRIOR APPROVAL NOT REQUIRED.
- LF-2. MOUNT FIXTURE WITH BOTTOM OF LENS AT SAME ELEVATION AS BOTTOM OF CONCRETE STRUCTURE.
- LF-3. PROVIDE CLASS 1, DIV 1 RATED FIXTURE.



1 SECONDARY ELECTRICAL GROUNDING
E0.1 NOT TO SCALE



2 JUNCTION BOX DETAIL
E0.1 NOT TO SCALE

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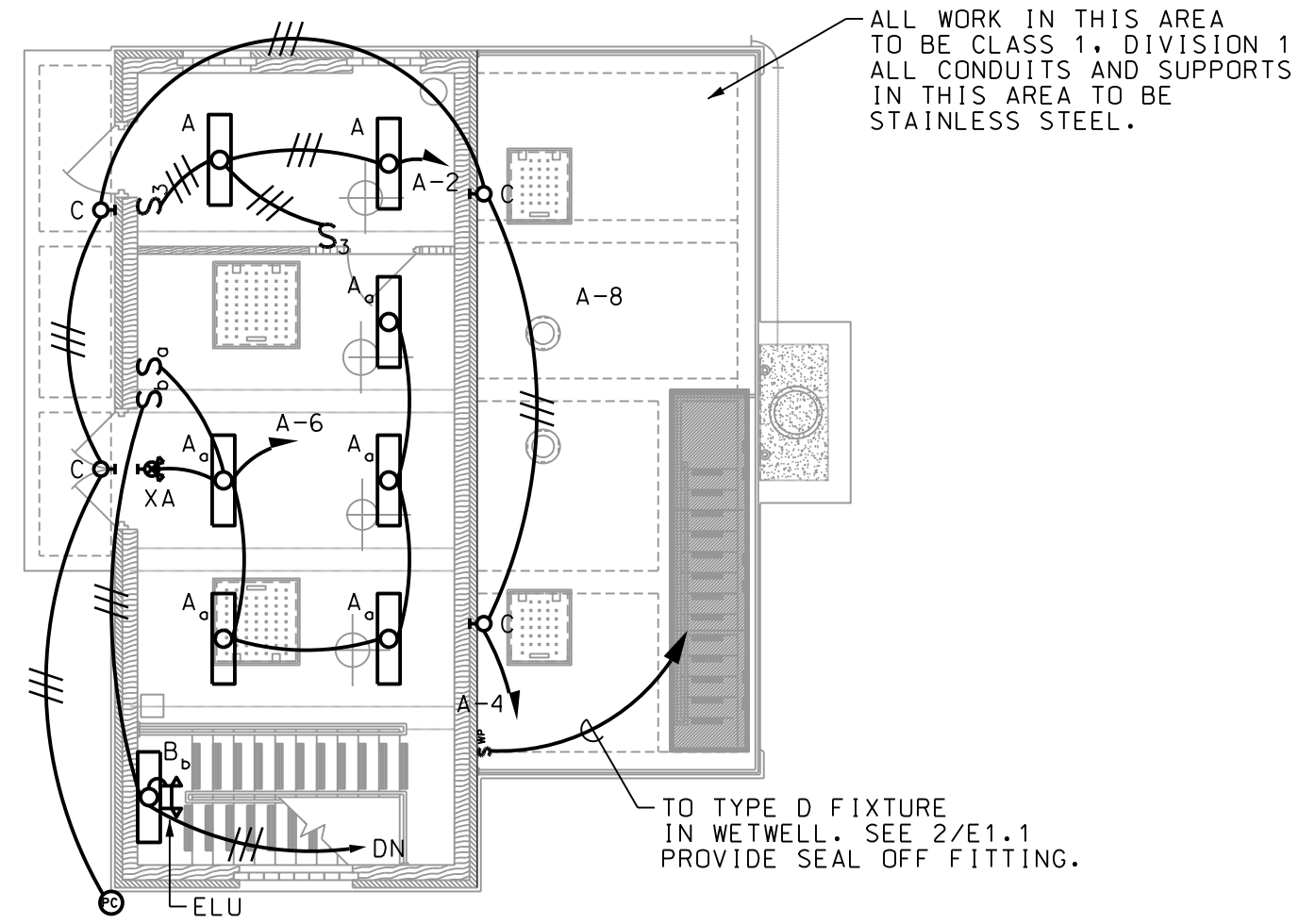
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BRUNSWICK, GA

BGJWSC NORTH MAINLAND PHASE II 8, III

LEGEND, NOTES, AND FIXTURE SCHEDULE

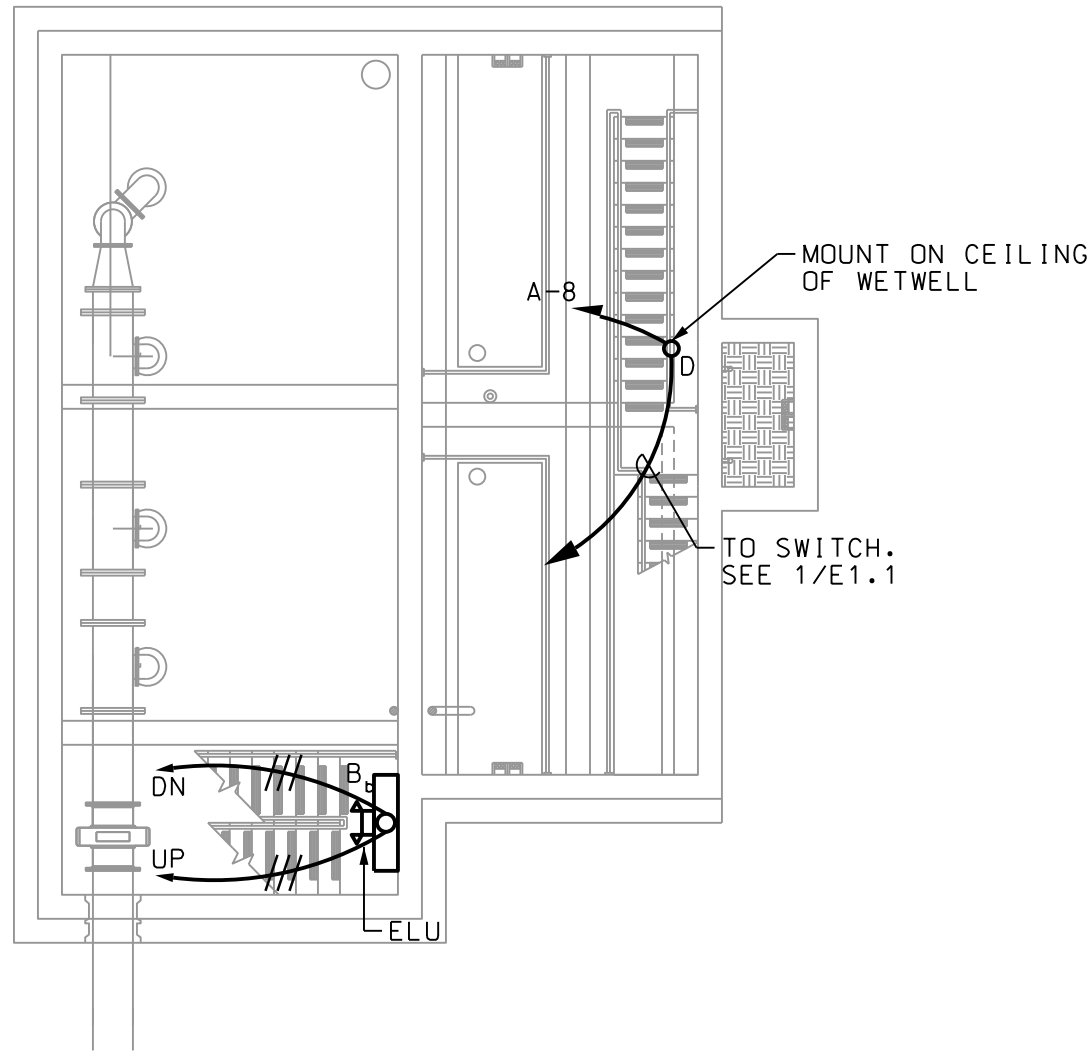
JOB NO:	J-27784 0000
DATE:	01/07/2020
DRAWN:	A.L.
DESIGNED:	A.L.
REVIEWED:	P.M.
APPROVED:	P.M.
SCALE:	NO SCALE

E0.1



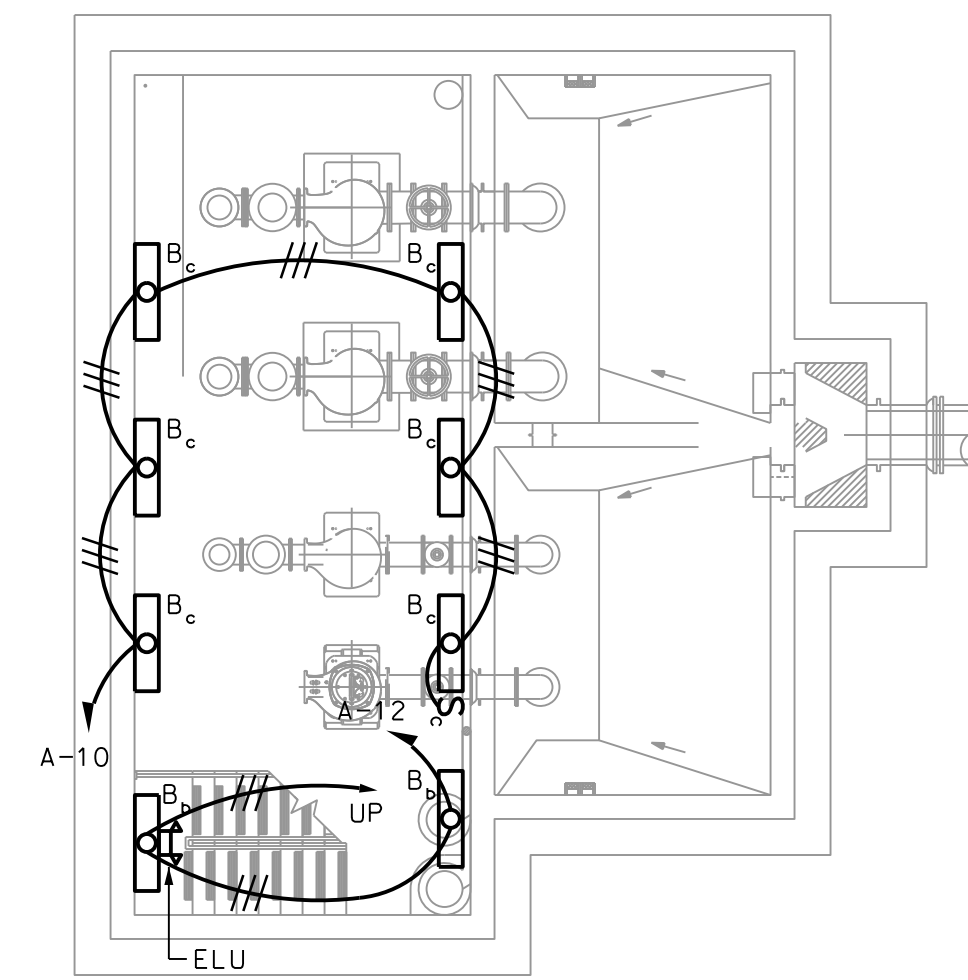
1 LIGHTING ENTRANCE LEVEL FLOOR PLAN

E1.1 SCALE: 1/8" = 1'-0"



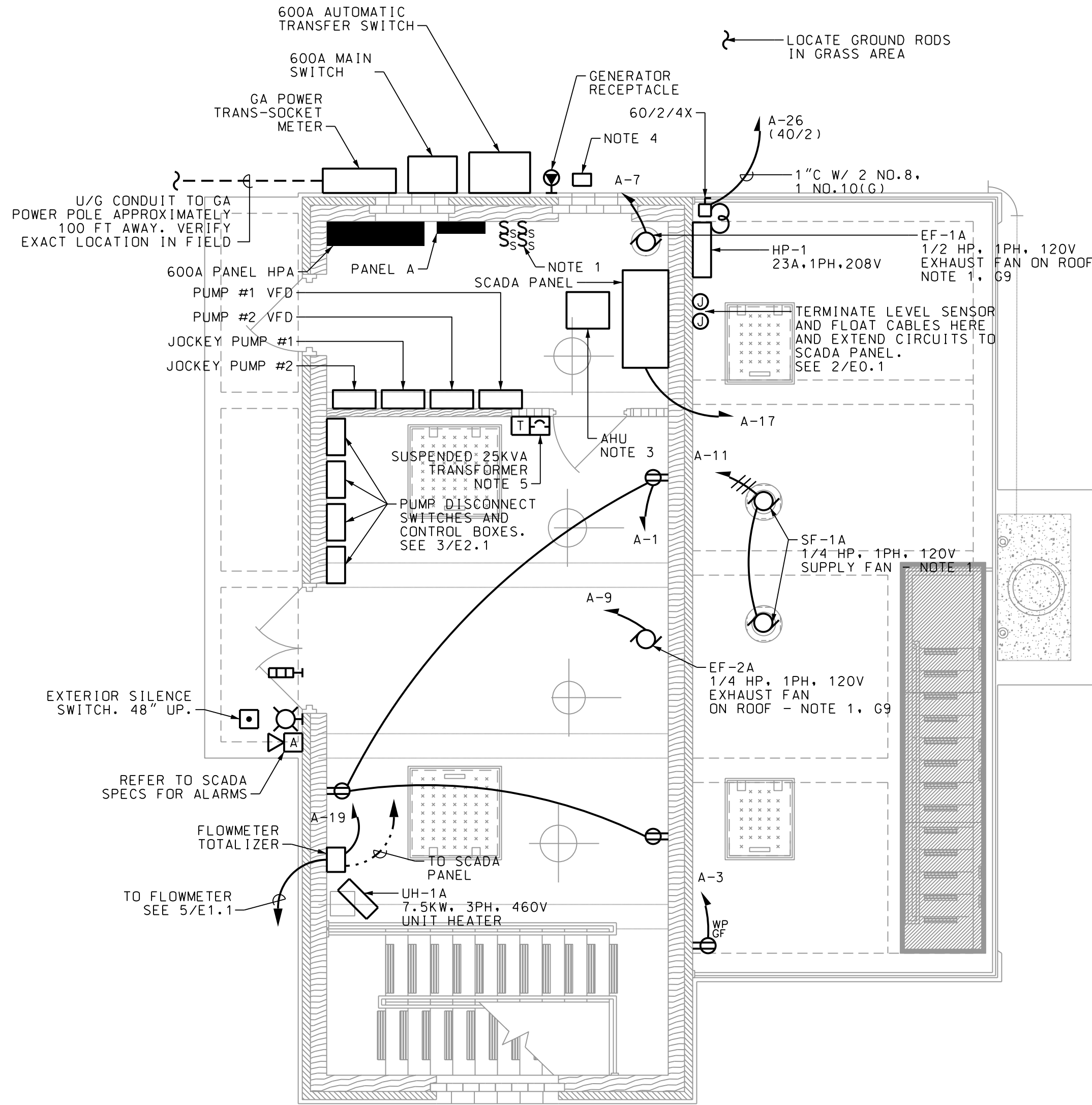
2 LIGHTING INTERMEDIATE LEVEL FLOOR PLAN

E1.1 SCALE: 1/8" = 1'-0"



3 LIGHTING BOTTOM LEVEL FLOOR PLAN

E1.1 SCALE: 1/8" = 1'-0"

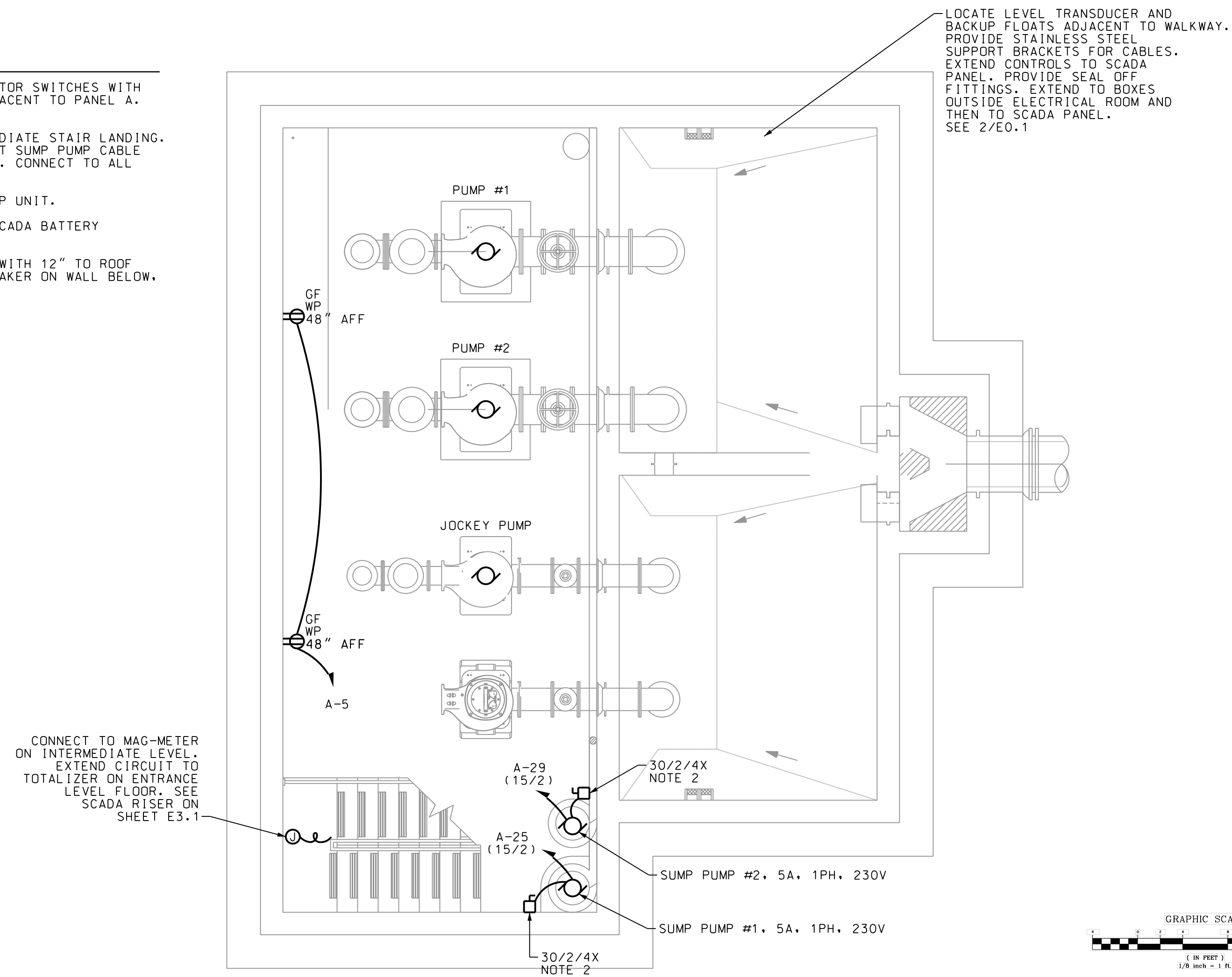


4 POWER ENTRANCE LEVEL FLOOR PLAN

E1.1 SCALE: 1/4" = 1'-0"

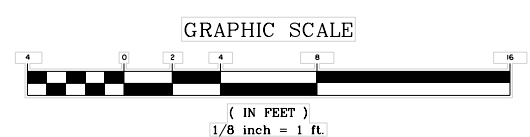
NOTES:

1. EXTEND CIRCUIT THROUGH MOTOR SWITCHES WITH OL PROTECTION LOCATED ADJACENT TO PANEL A. LABEL EACH SWITCH.
2. MOUNT SWITCHES ON INTERMEDIATE STAIR LANDING. LABEL EACH SWITCH. SUPPORT SUMP PUMP CABLE AND PROVIDE CABLE FITTING. CONNECT TO ALL CONTROLS AS REQUIRED.
3. AHU IS FED FROM OUTDOOR HP UNIT.
4. PROVIDE SOLAR PANEL FOR SCADA BATTERY CHARGER AS SPECIFIED.
5. MOUNT TOP OF TRANSFORMER WITH 12" TO ROOF DECK. MOUNT SECONDARY BREAKER ON WALL BELOW. 48" UP.

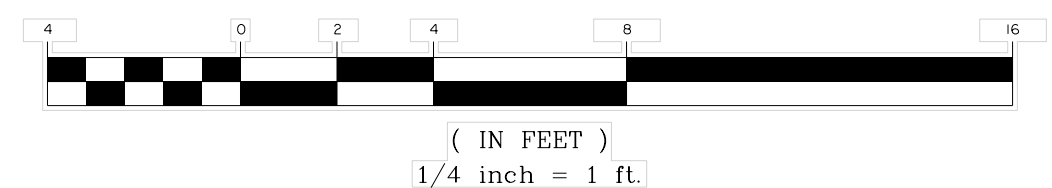


5 POWER BOTTOM LEVEL FLOOR PLAN

E1.1 SCALE: 1/4" = 1'-0"



GRAPHIC SCALE



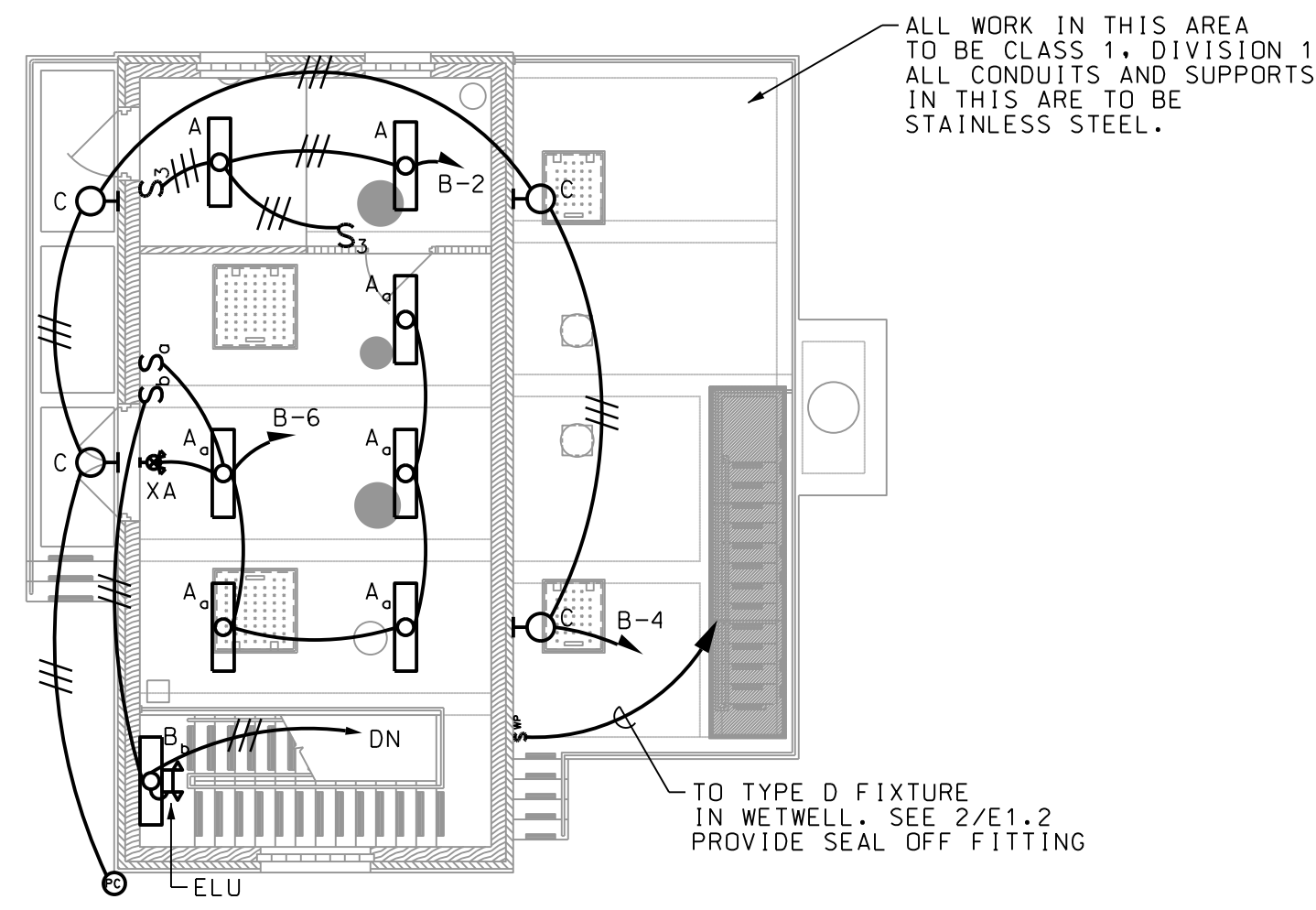
(IN FEET)
1/4 inch = 1 ft

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BRUNSWICK, GA
BGJWSC NORTH MAINLAND PHASE II & III
P.S. 4035 LIGHTING AND POWER PLAN

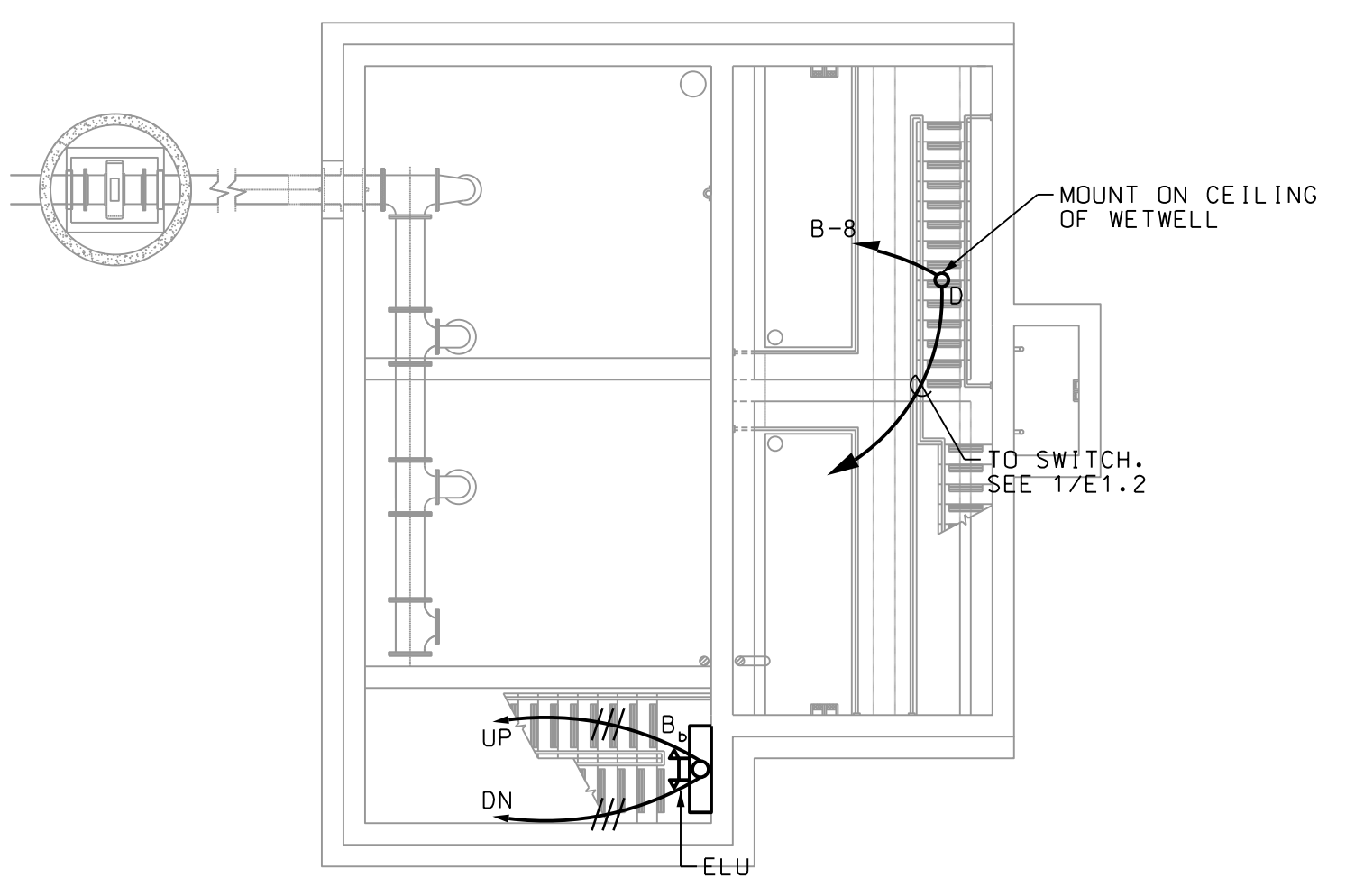
JOB NO: J-27784.0000
DATE: 01/07/2020
DRAWN: A.L.
DESIGNED: A.L.
REVIEWED: P.M.
APPROVED: P.M.
SCALE: AS NOTED

E1.1

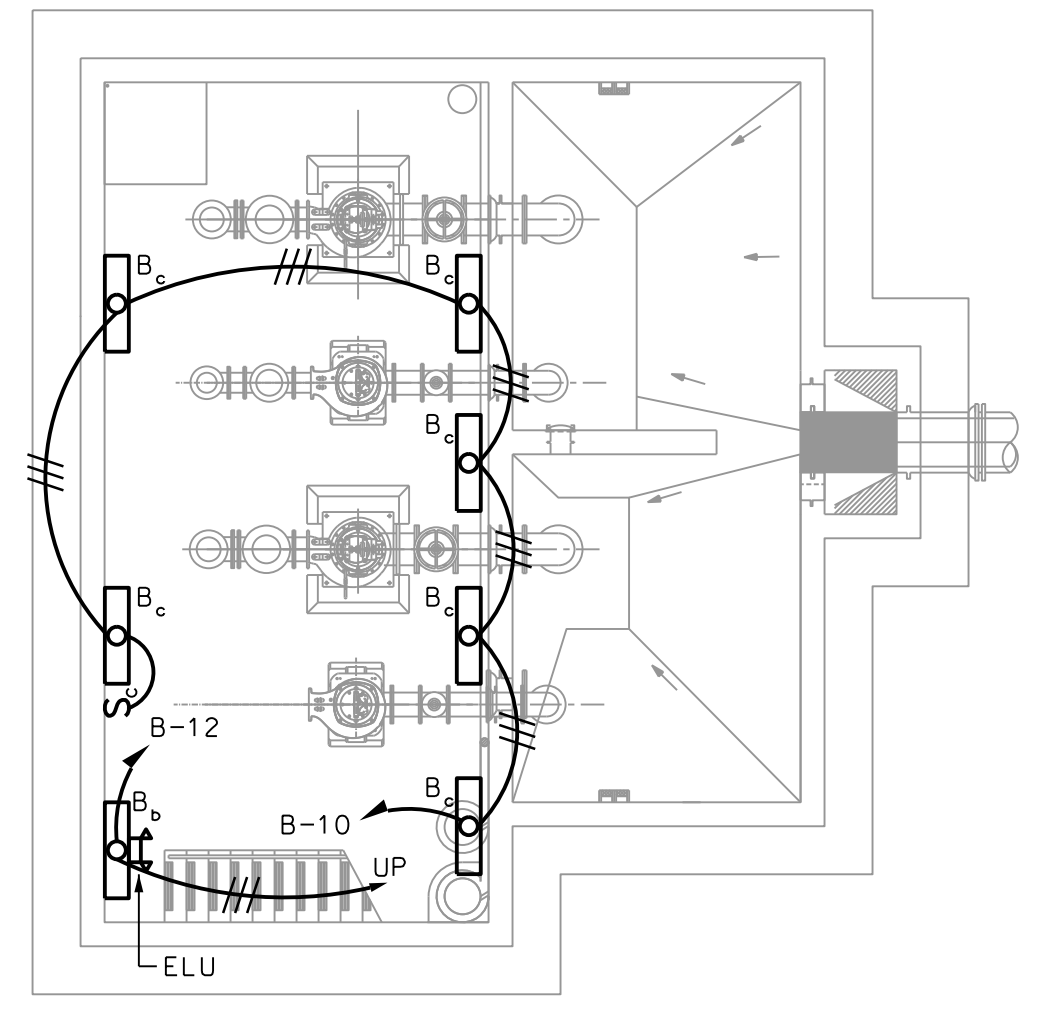


ALL WORK IN THIS AREA TO BE CLASS 1, DIVISION 1 ALL CONDUITS AND SUPPORTS IN THIS AREA TO BE STAINLESS STEEL.

TO TYPE D FIXTURE IN WETWELL. SEE 2/E1.2 PROVIDE SEAL OFF FITTING



MOUNT ON CEILING OF WETWELL
TO SWITCH, SEE 1/E1.2



1 LIGHTING ENTRANCE FLOOR PLAN

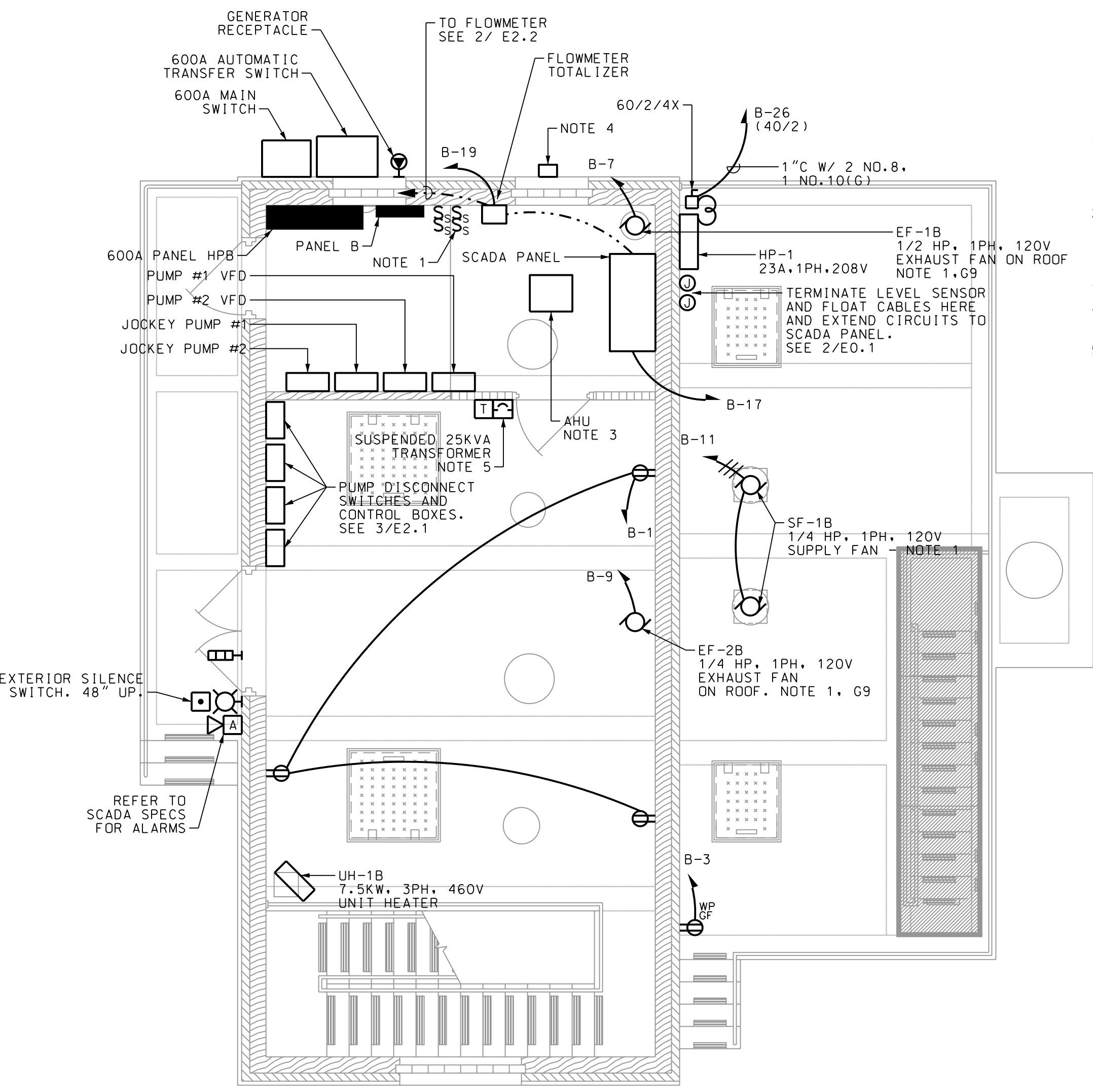
E1.2 SCALE: 1/8" = 1'-0"

2 LIGHTING INTERMEDIATE FLOOR PLAN

E1.2 SCALE: 1/8" = 1'-0"

3 LIGHTING BOTTOM FLOOR PLAN

E1.2 SCALE: 1/8" = 1'-0"

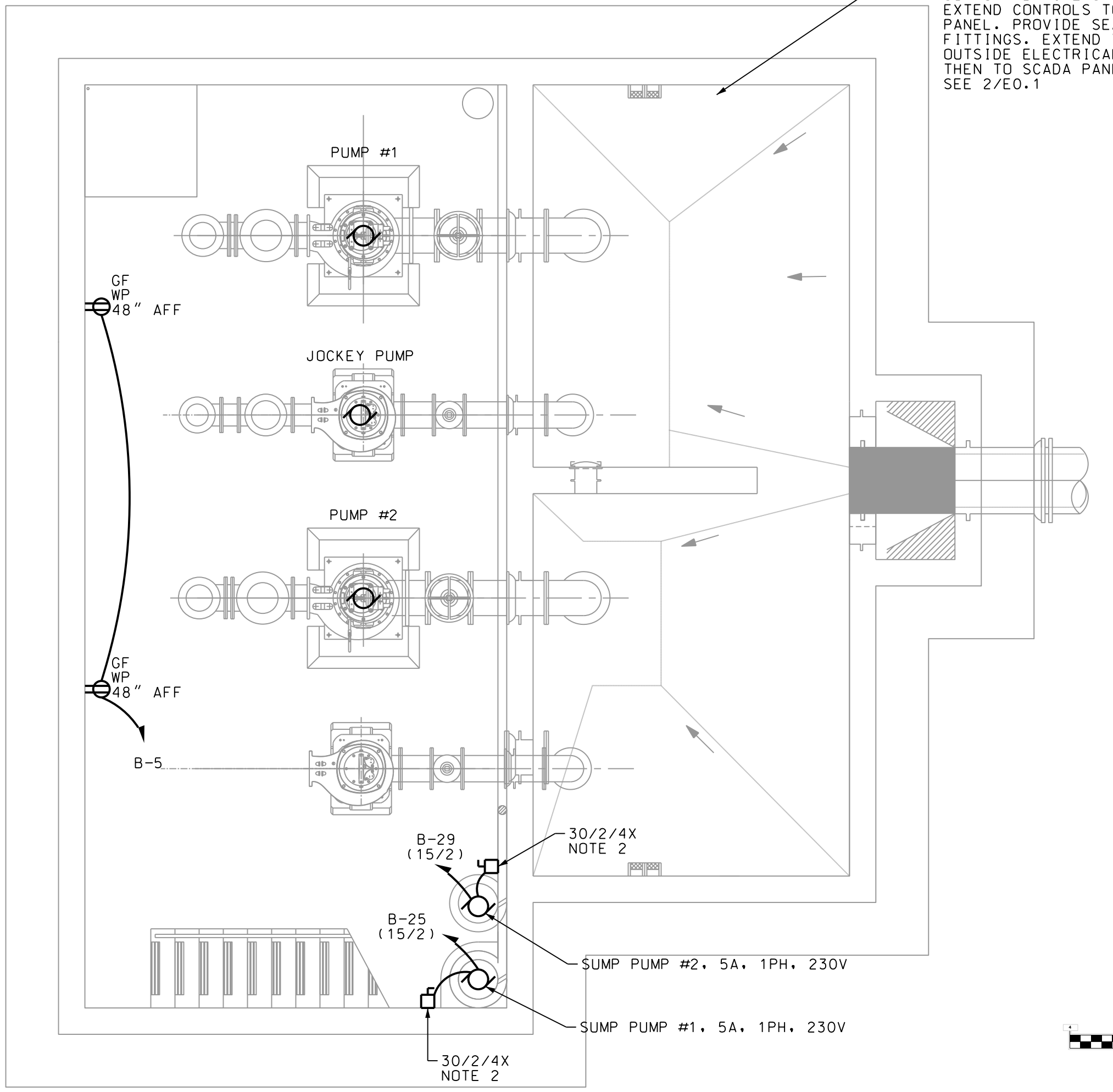


4 POWER ENTRANCE FLOOR PLAN

E1.2 SCALE: 1/4" = 1'-0"

NOTES:

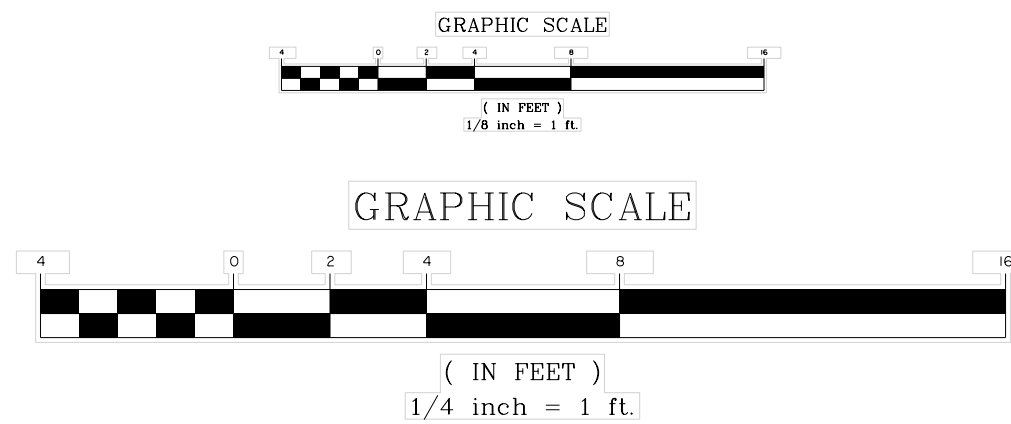
1. EXTEND CIRCUIT THROUGH MOTOR SWITCHES WITH OL PROTECTION LOCATED ADJACENT TO PANEL A. LABEL EACH SWITCH.
2. MOUNT SWITCHES ON INTERMEDIATE STAIR LANDING. LABEL EACH SWITCH. SUPPORT SUMP PUMP CABLE AND PROVIDE CABLE FITTING. CONNECT TO ALL CONTROLS AS REQUIRED.
3. AHU IS FED FROM OUTDOOR HP UNIT.
4. PROVIDE SOLAR PANEL FOR SCADA BATTERY CHARGER AS SPECIFIED.
5. MOUNT TOP OF TRANSFORMER WITH 12" TO ROOF DECK. MOUNT SECONDARY BREAKER ON WALL BELOW, 48" UP.



LOCATE LEVEL TRANSDUCER AND BACKUP FLOATS ADJACENT TO WALKWAY. PROVIDE STAINLESS STEEL SUPPORT BRACKETS FOR CABLES. EXTEND CONTROLS TO SCADA PANEL. PROVIDE SEAL OFF FITTINGS. EXTEND TO BOXES OUTSIDE ELECTRICAL ROOM AND THEN TO SCADA PANEL. SEE 2/E0.1

5 POWER BOTTOM FLOOR PLAN

E1.2 SCALE: 1/4" = 1'-0"

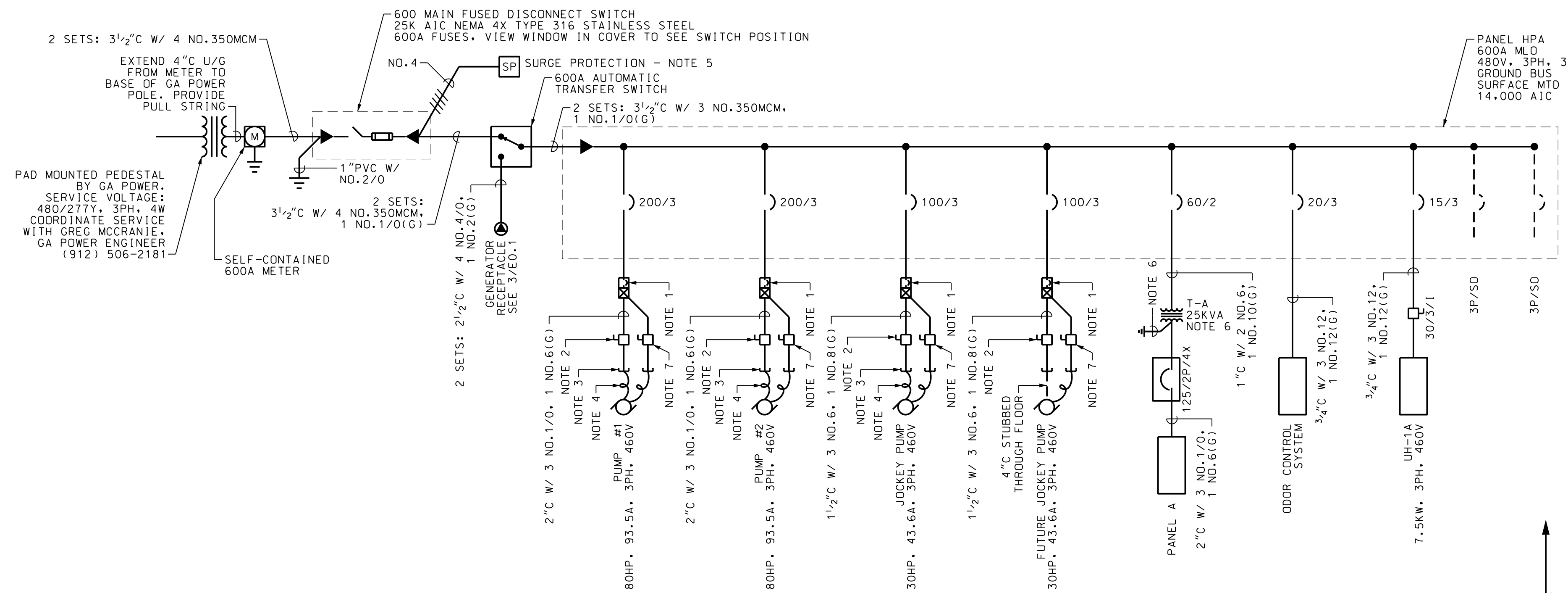


NO.	REVISIONS	BY	DATE

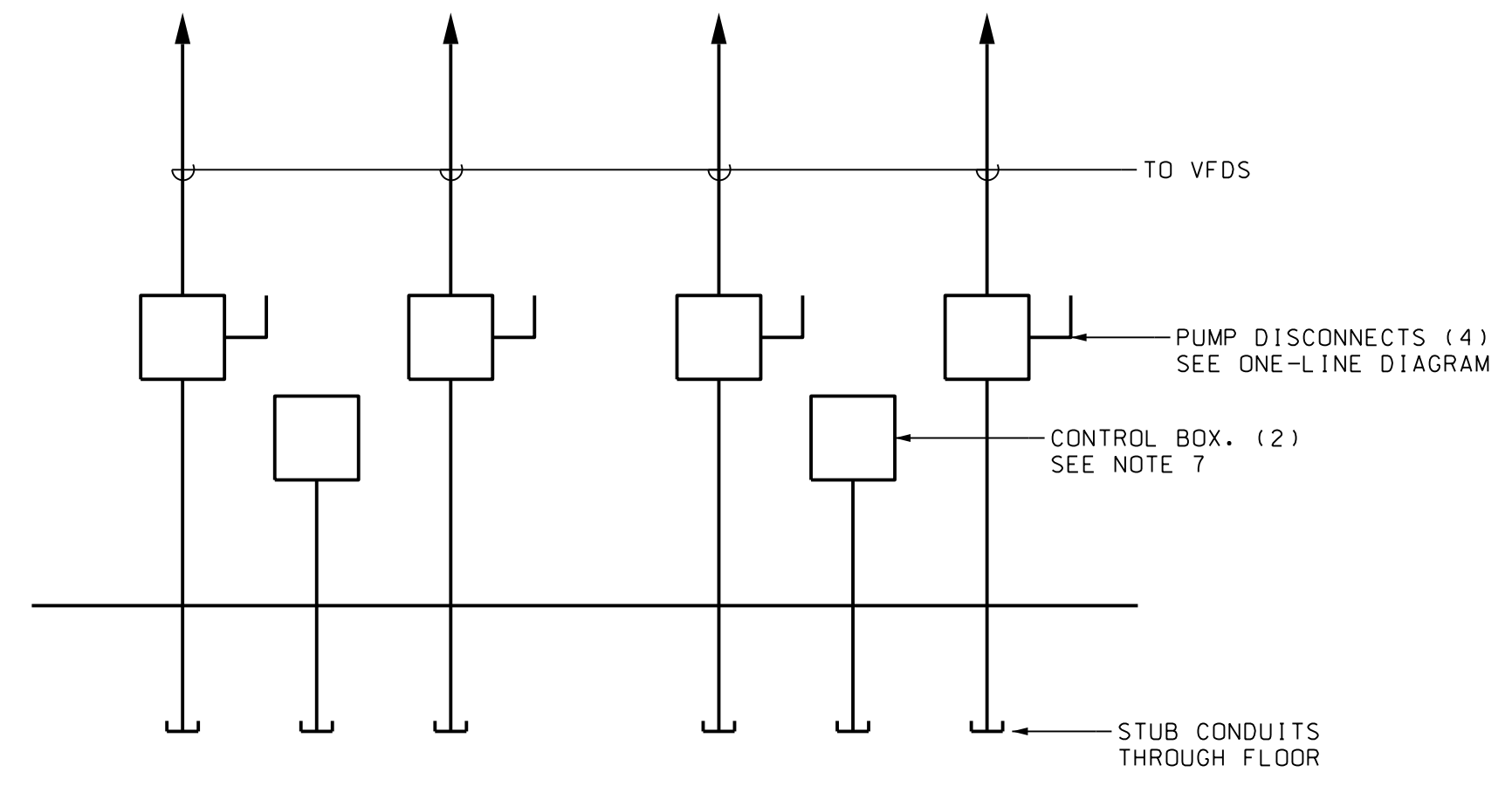
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 BRUNSWICK, GA
 BGJWSC NORTH MAINLAND PHASE II 8, III
 P.S. 4036 LIGHTING AND POWER PLAN

JOB NO:	J-27784-0000
DATE:	01/07/2020
DRAWN:	A.L.
DESIGNED:	A.L.
REVIEWED:	P.M.
APPROVED:	P.M.
SCALE:	AS NOTED

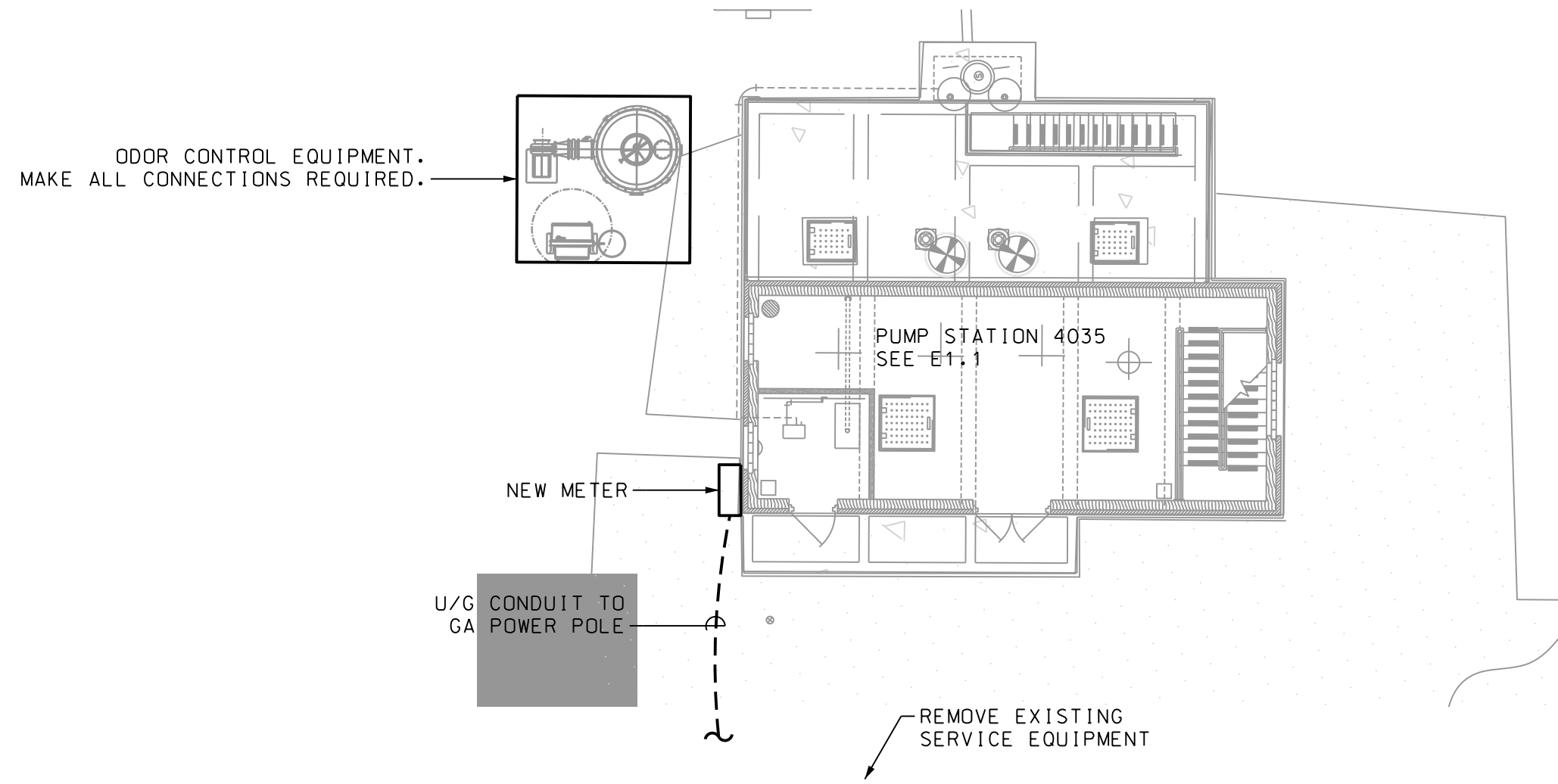


1 ONE LINE DIAGRAM - PUMP STATION 4035
E2.1 SCALE: NONE

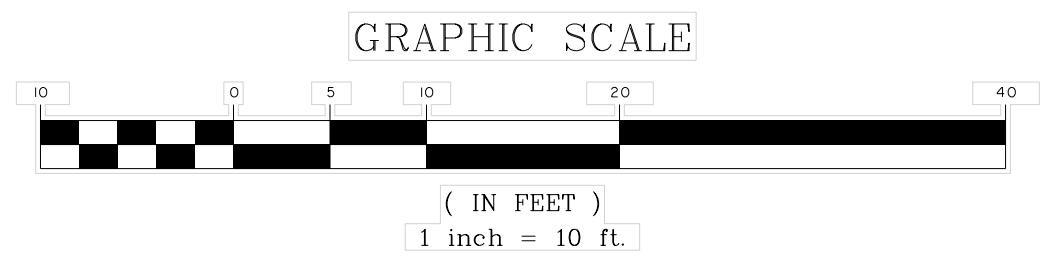


3 EQUIPMENT ELEVATION
E2.1 SCALE: NOT TO SCALE

SCHEDULE PANELBOARD A									
	MAINS		VOLTAGE	PHASE	WIRE	MOUNTING			
	125A	MLO	120/240	1	3	SURFACE			
CIR.	TRIP/POLE	KVA	DESCRIPTION	PH. A	PH. B	DESCRIPTION	KVA	POLE	#
1	20/1	0.60	RECEPTACLES	0.7		LIGHTING	0.10	20/1	2
3	20/1	0.20	RECEPTACLE		0.4	LIGHTING	0.20	20/1	4
5	20/1	0.40	RECEPTACLES	0.7		LIGHTING	0.25	20/1	6
7	20/1	1.20	EF-1A		1.2	LIGHTING	0.03	20/1	8
9	20/1	0.70	EF-2A	1.0		LIGHTING	0.25	20/1	10
11	20/1	1.40	SF-1A		1.7	LIGHTING	0.30	20/1	12
13	20/1		SPARE	0.0		SPARE		20/1	14
15	20/1		SPARE		0.0	SPARE		20/1	16
17	20/1	0.50	SCADA PANEL	0.5		SPARE		20/1	18
19	20/1	0.10	MAG-METER		0.1	SPARE		20/1	20
21	20/1		SPARE	0.0		SPARE		20/1	22
23	20/1		SPARE		0.0	SPARE		20/1	24
25	15/2	0.60	SUMP PUMP 1	3.3		HPAHU	2.70	40/2	26
27	-	0.60	SUMP PUMP 1		3.3	HPAHU	2.70	-	28
29	15/2	0.60	SUMP PUMP 2	0.6		SPACE		/1	30
31	-	0.60	SUMP PUMP 2		0.6	SPACE		/1	32
33	/1		SPACE	0.0		SPACE		/1	34
35	/1		SPACE		0.0	SPACE		/1	36
37	/1		SPACE	0.0		SPACE		/1	38
39	/1		SPACE		0.0	SPACE		/1	40
41	/1		SPACE	0.0		SPACE		/1	42
MIN. BREAKER AIC:			10,000 AIC	6.7	7.3	TOTAL CONNECTED LOAD	14.03		
NOTES:				6.7	7.3	TOTAL DEMAND LOAD	14.03		



2 ELECTRICAL SITE PLAN
E2.1 SCALE: 1" = 10'-0"



- NOTES:**
- ALL STATERS TO BE VFDS AS SPECIFIED.
 - PROVIDE NON-FUSIBLE DISCONNECT SWITCH IN NEMA 4X SS ENCLOSURE WITH WINDOW TO OBSERVE SWITCH POSITION. SEAL CONDUIT TO STARTER WITH DUCT SEAL. DISCONNECTS FOR PUMP #1 AND #2 TO BE 200A/3P, AND 100A/3P FOR JOCKEY PUMPS.
 - STUB 4" CONDUITS THROUGH FLOOR AND PROVIDE STAINLESS STEEL CABLE SUPPORT WITH STRAIN RELIEFS FOR PUMP CABLE LOCATED ADJACENT TO ACCESS HATCH BELOW ENTRANCE LEVEL.
 - PUMP CABLE PROVIDED WITH PUMP. EXTEND EXPOSED BELOW ENTRANCE LEVEL.
 - SURGE PROTECTION SHALL BE EQUIVALENT TO APT TE-04-XAL-15-4X-D WITH INTEGRAL DISCONNECT IN NEMA 4X NON-METALLIC BOX, RATED 150KAIC PER PHASE.
 - PROVIDE STAINLESS STEEL HOUSING. TRANSFORMER RATED 480V-230/115V 1PH.
 - PROVIDE 24" SO X 4" SS BOX FOR 2 PUMPS BELOW DISCONNECT SWITCHES. STUB 2" C THRU FLOOR FOR PUMP CONTROL CABLE. SUPPORT WITH STRAIN RELIEFS. SEAL CONDUIT AT BOX EXTEND CABLE TO BOX WITH IDENTIFIED TERMINAL STRIPS. EXTEND 1 1/2" C W/ 20 NO.12, 1 NO.12(G) TO VFD.



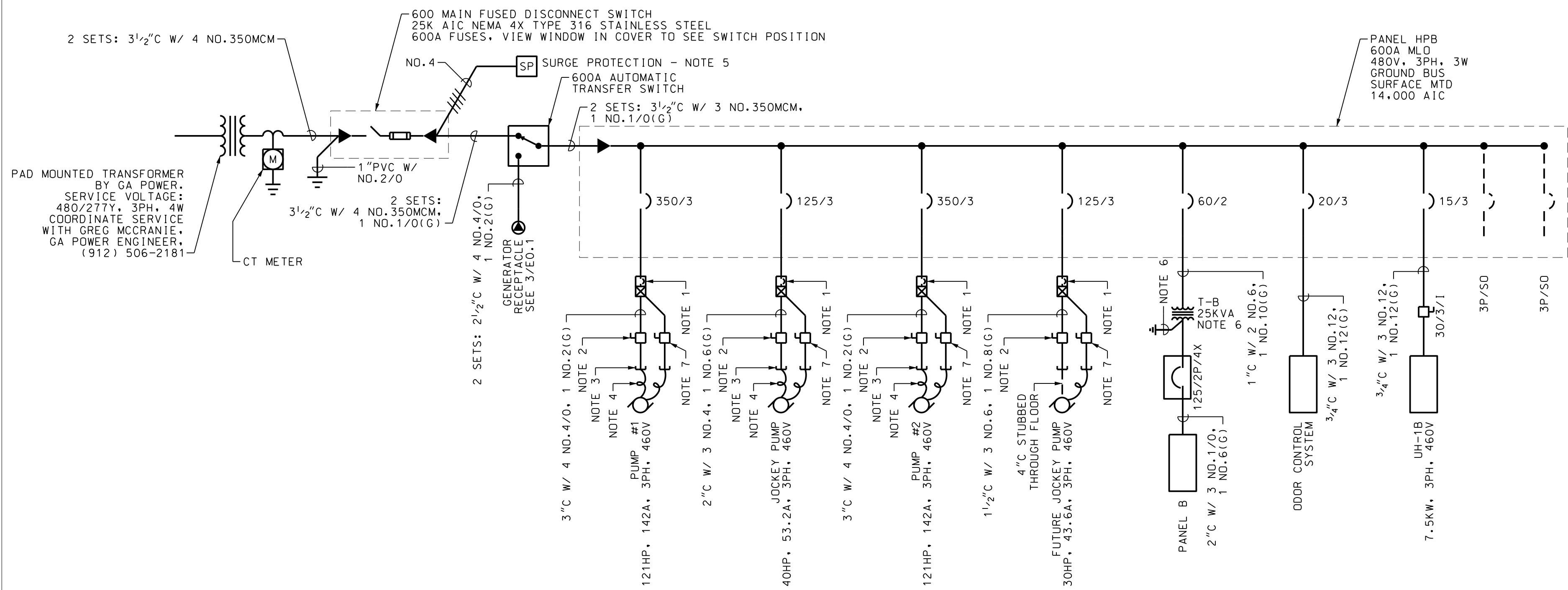
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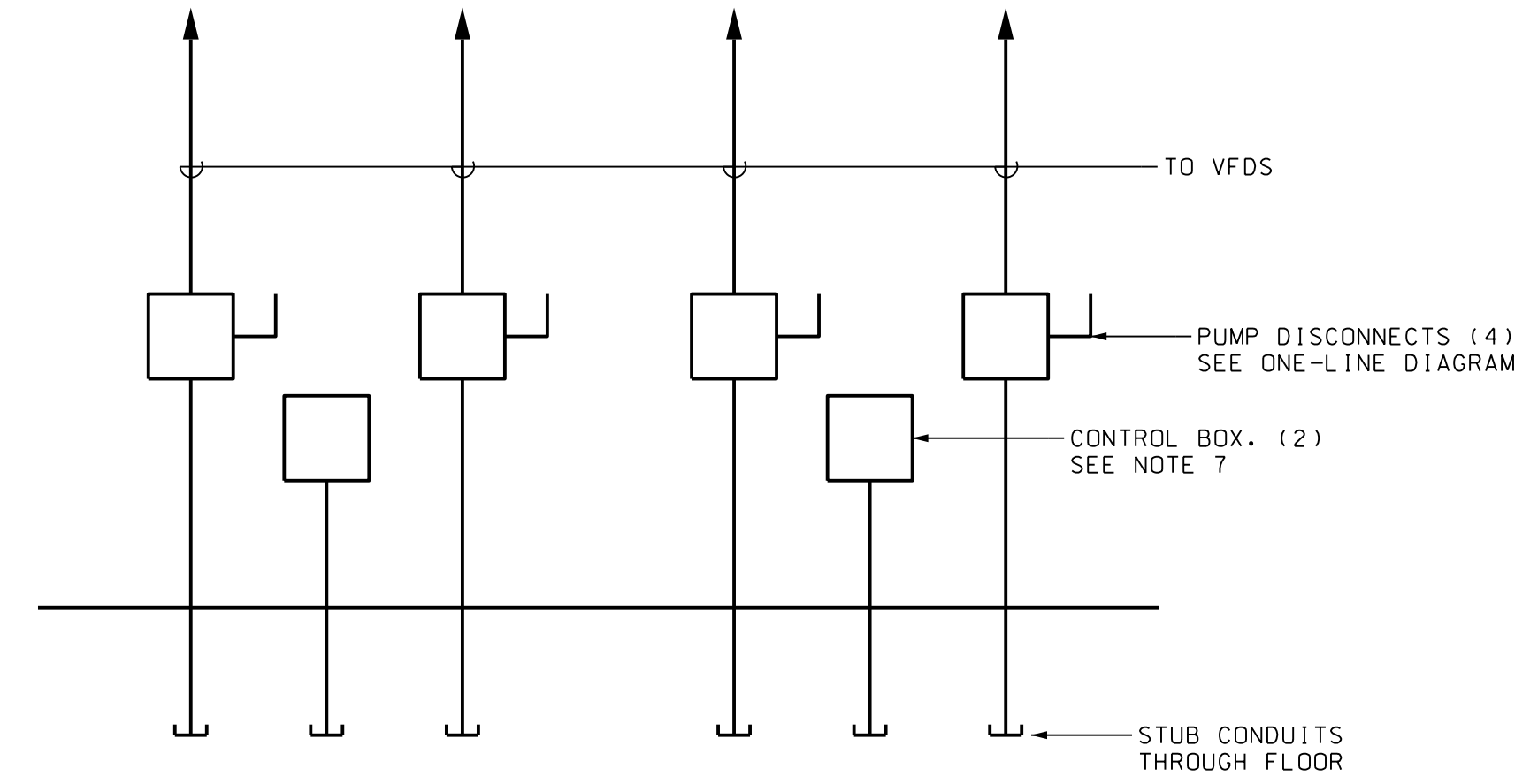
BRUNSWICK GLYNN JOINT WATER AND SEWER COMMISSION
BRUNSWICK, GA
BGJWSC NORTH MAINLAND PHASE II & III
P.S. 4035 ONE LINE AND PANEL SCHEDULE

JOB NO:	J-27784-0000
DATE:	01/07/2020
DRAWN:	A.L.
DESIGNED:	A.L.
REVIEWED:	P.M.
APPROVED:	P.M.
SCALE:	AS NOTED

E2.1

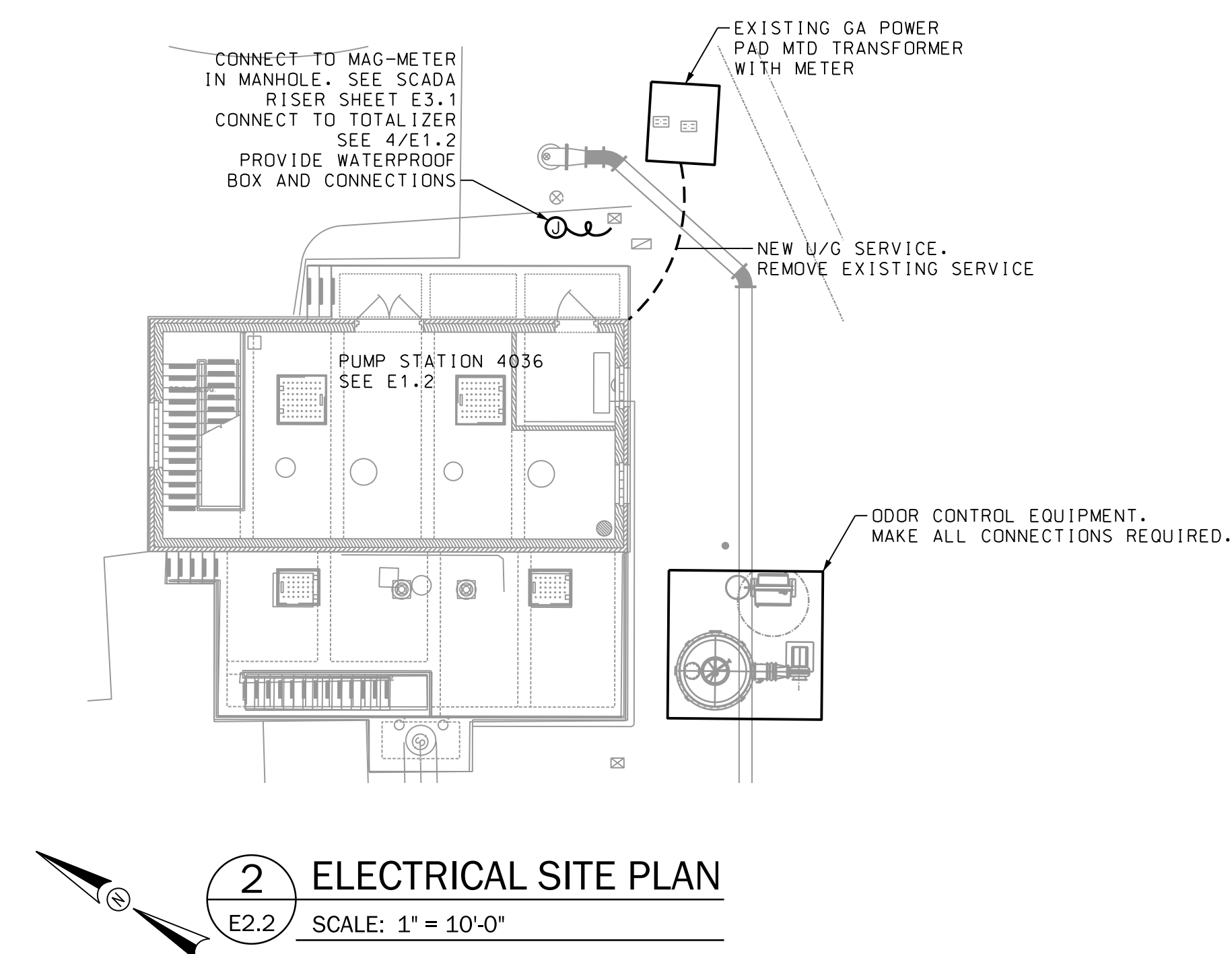


1 ONE LINE DIAGRAM - PUMP STATION 4036
E2.2 SCALE: NONE



3 EQUIPMENT ELEVATION
E2.2 SCALE: NOT TO SCALE

SCHEDULE PANELBOARD B									
	MAINS		VOLTAGE	PHASE	WIRE	MOUNTING			
	125A	MB	120/240	1	3	SURFACE			
CIR.	TRIP/				CONNECTED LOAD KVA			TRIP/	CIR.
#	POLE	KVA	DESCRIPTION	PH. A	PH. B	DESCRIPTION	KVA	POLE	#
1	20/1	0.60	RECEPTACLES	0.7		LIGHTING	0.10	20/1	2
3	20/1	0.20	RECEPTACLE		0.4	LIGHTING	0.20	20/1	4
5	20/1	0.40	RECEPTACLES	0.7		LIGHTING	0.25	20/1	6
7	20/1	1.20	EF-1B		1.2	LIGHTING	0.03	20/1	8
9	20/1	0.70	EF-2B	1.0		LIGHTING	0.25	20/1	10
11	20/1	1.40	SF-1B		1.7	LIGHTING	0.25	20/1	12
13	20/1		SPARE	0.0		SPARE		20/1	14
15	20/1		SPARE		0.0	SPARE		20/1	16
17	20/1	0.50	SCADA PANEL	0.5		SPARE		20/1	18
19	20/1	0.10	MAG METER		0.1	SPARE		20/1	20
21	20/1		SPARE	0.0		SPARE		20/1	22
23	20/1		SPARE		0.0	SPARE		20/1	24
25	15/2	0.60	SUMP PUMP 1	3.3		HPAHU	2.70	40/2	26
27	-	0.60	SUMP PUMP 1		3.3	HPAHU	2.70	-	28
29	15/2	0.60	SUMP PUMP 2	0.6		SPACE		/1	30
31	-	0.60	SUMP PUMP 2		0.6	SPACE		/1	32
33	/1		SPACE	0.0		SPACE		/1	34
35	/1		SPACE		0.0	SPACE		/1	36
37	/1		SPACE	0.0		SPACE		/1	38
39	/1		SPACE		0.0	SPACE		/1	40
41	/1		SPACE	0.0		SPACE		/1	42
MIN. BREAKER AIC:			10,000 AIC	6.7	7.3	TOTAL CONNECTED LOAD	13.98		
NOTES:				6.7	7.3	TOTAL DEMAND LOAD	13.98		



- NOTES:**
- ALL STATERS TO BE VFDS AS SPECIFIED.
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 - PUMP CABLE PROVIDED WITH PUMP. EXTEND EXPOSED BELOW ENTRANCE LEVEL.
 - SURGE PROTECTION SHALL BE EQUIVALENT TO APT TE-04-XAL-15-4X-D WITH INTEGRAL DISCONNECT IN NEMA 4X NON-METALLIC BOX, RATED 150KAIC PER PHASE.
 - PROVIDE STAINLESS STEEL HOUSING. TRANSFORMER RATED 480V-230/115V 1PH.
 - PROVIDE 24" SO X 4" SS BOX FOR 2 PUMPS BELOW DISCONNECT SWITCHES. STUB 2" C THRU FLOOR FOR PUMP CONTROL CABLE. SUPPORT WITH STRAIN RELIEFS. SEAL CONDUIT AT BOX EXTEND CABLE TO BOX WITH IDENTIFIED TERMINAL STRIPS. EXTEND 1 1/2" C W/ 20 NO. 12, 1 NO. 12(G) TO VFD.



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BRUNSWICK GLYNN JOINT WATER AND SEWER COMMISSION
BRUNSWICK, GA

BGJWSC NORTH MAINLAND PHASE II & III
P.S. 4036 ONE LINE AND PANEL SCHEDULE

JOB NO:	J-27784 0000
DATE:	01/07/2020
DRAWN:	A.L.
DESIGNED:	A.L.
REVIEWED:	P.M.
APPROVED:	P.M.
SCALE:	NO SCALE

E2.2

SCADA SYSTEM - TYPICAL OF EACH PUMP STATION

I. SYSTEM REQUIREMENTS

- A. PROVIDE SCADA SYSTEM THAT MEETS OWNER'S STANDARDS INCLUDING ALL HARDWARE, SOFTWARE, PROGRAMMING, INSTALLATION, TESTING, DEMONSTRATING OPERATION AND WARRANTY.
- B. THE SYSTEM SHALL BE PROVIDED BY ELECTRIC MACHINE CONTROL, INC. (EMC). CONTACT JAMES DENTON (205) 661-3998, CELL (205) 910-8348. EMC SHALL ALSO PROVIDE ALL INSTRUMENTATION, AUTOMATIC TRANSFER SWITCH, AND VFDS.
- C. PROVIDE ALL FIELD WIRING IN CONDUITS AS REQUIRED, COORDINATE ALL CONNECTIONS, ALARMS AND CONTROL WITH EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS. ALL CONTROL WIRING TO BE TIN COATED.

II. PRODUCTS

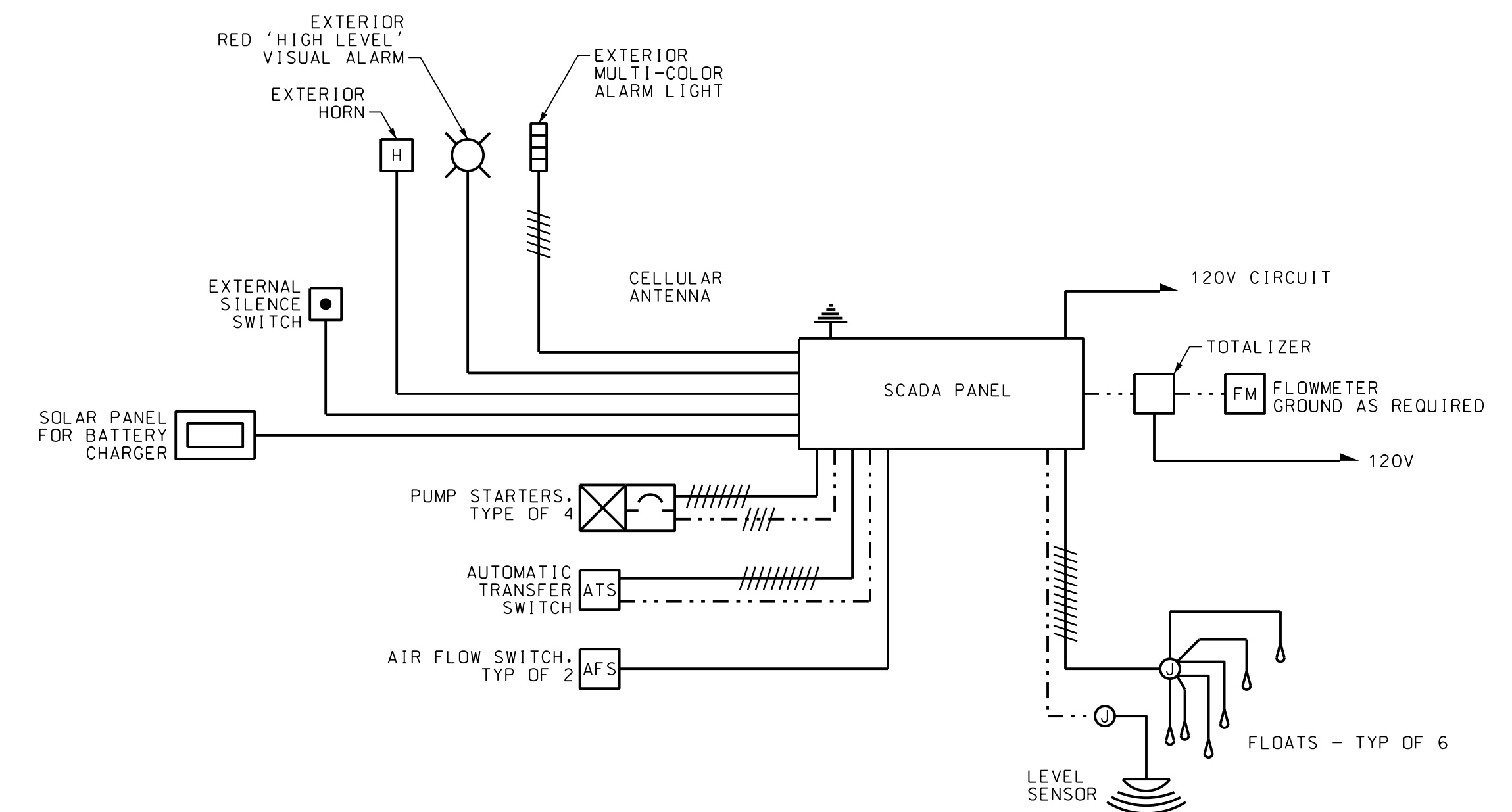
- A. THE SCADA PANEL SHALL BE PROVIDED IN A NEMA 4X SS ENCLOSURE, PREWIRED OFF-SITE AND TESTED BEFORE INSTALLATION. ALL CONDUCTORS SHALL BE TERMINATED ON IDENTIFIED TERMINAL STRIPS. ALL WIRING AND COMPONENTS SHALL BE IDENTIFIED AND MATCHED TO AS BUILT DRAWING. LABEL ALL FIELD WIRING TO MATCH TERMINAL STRIP.
- B. SCADA PANEL SHALL BE POWERED FROM A 120 VOLT CIRCUIT WITH INTEGRAL SURGE PROTECTION, UPS WITH SOLAR PANEL TO POWER BACKUP BATTERIES, INTEGRAL RECEPTACLE, 24 VDC POWER SUPPLY, MODEM WITH CELLULAR ALARM SYSTEM, AXIOM SEL PLC AND RTAC WITH ALL I/O REQUIRED, DATA SWITCH, SIGNAL ISOLATORS AND CONTROL RELAYS. PROVIDE CONTROL DEVICES ON COVER OF PANEL TO INCLUDE HOA SWITCH, ETM FOR EACH PUMP, HMI PANEL IDENTIFYING STATUS AND ALARMS, FLOAT MODE STATUS LIGHT AND RESET BUTTON AND SILENCE SWITCH.
- C. SCADA PANEL TO BE HOFFMAN 36" X 30" X 12" WITH SUBPANEL, DRAWING POCKET, INTERNAL WIRE DUCT, SQUARE D CONTROL DEVICES, FUSES, TERMINAL BLOCKS, GROUND BUS, LISTED FOR UL 508, AND ALL INTERNAL WIRING.
- D. WETWELL LEVEL SENSOR TO BE RADAR SENSOR RATED FOR CLASS I, DIV I LOCATION VEGAPULS 61 WITH SENSOR CABLE EXTENDING CONTINUOUS TO SCADA PANEL. MOUNT SENSOR ON STAINLESS STEEL BRACKET. CALIBRATE IN FIELD.
- E. FLOATS TO BE MERCURY TYPE WITH CABLES EXTENDING CONTINUOUS TO FIELD JUNCTION BOX. RATED FOR CLASS I, DIV I LOCATION. MOUNT FLOATS ON STAINLESS STEEL BRACKET. SET ELEVATION IN FIELD.
- F. REMOTE ALARM LIGHTS SHALL BE PATLITE, 24 VDC, RATED FOR EXTERIOR LOCATION. MULTI-LIGHT TOWER TO BE GREEN/RED/YELLOW AND HIGH LEVEL ALARM TO BE RED. PROVIDE 24 VDC EXTERIOR RATED ALARM HORN SIMILAR TO FEDERAL SIGNAL 450E SERIES.
- G. DUPLEX PUMP BACKUP CONTROLLER TO BE PRIMEX PC-240 SERIES.
- H. MODEM TO BE SEL #3061 #JBCB FOR VERIZON NETWORK.

III. SYSTEM OPERATION

- A. PUMP CONTROL SHALL BE AS FOLLOWS: THE JOCKEY PUMP SHALL RUN WHEN CALLED UPON AND WITH A CONTROL SCHEME TO MATCH INFLUENT FLOW. (FLOW MATCHING). THE PRIMARY PUMPS WILL BE CALLED UPON ONCE THE JOCKEY PUMP IS AT FULL SPEED AND THE RATE OF RISE OF THE WATER LEVEL EXCEEDS THE PUMPING CAPACITY OF THE JOCKEY. THE JOCKEY SHALL DECELERATE TO STOP PRIOR TO THE FIRST PRIMARY PUMP START UP. TO CURB ANY INSTANCE OF THE JOCKEY PUMP BEING DEAD HEADED AGAINST THE LARGER PUMP, AND TO REDUCE THE POSSIBILITY OF WATER HAMMER, THE FIRST PRIMARY PUMP WILL BE IN ALTERNATION WITH THE OTHER PRIMARY PUMP SO NOT TO ALWAYS HAVE THE SAME PRIMARY AS LEAD IN SEQUENCE. THE SECONDARY PUMP SHALL COME ON AFTER THE PRIMARY PUMP FLOW MATCHES WITH INFLUENT FLOW AND THE PUMP HAS RAMPED TO FULL SPEED BUT THE RATE OF RISE EXCEEDS THE POSSIBLE FLOW OF THE PRIMARY PUMP. THEN THE 2 PRIMARY PUMPS SHALL TRY TO FLOW MATCH UNTIL THE LEVEL HAS REACHED THE ALL OFF POINT. PROVIDE FOR ABILITY TO MODIFY CONTROLS FOR RATE AND FLOW GAIN AND TO AVOID PUMP SPEED CONSTANTLY CHANGING TO MATCH INSTANTANEOUS FLOW CHANGES. PROGRAM FOR ONE JOCKEY PUMP. WHEN SECOND JOCKEY PUMP IS ADDED, REPROGRAM. PROVIDE POINTS FOR JOCKEY PUMP NO.2.
- B. FLOAT MODE CONTROLLER TO BE PRIMEX DUPLEX CONTROLLER TO CONTROL ONLY THE 2 PRIMARY PUMPS. IF THE HIGH FLOAT HAS BECOME ACTIVE AND THE FLOAT CONTROLLER TO TAKE CONTROL OF THE STATION UNLESS OVERRIDDEN BY THE SCADA SYSTEM REMOTELY OR LOCAL HUMAN INTERACTION.
- C. PROVIDE AUDIBLE AND VISUAL ALARMS OUTSIDE STATION. MULTI LIGHT TO BE USED WITH A SEQUENCING FOR DIFFERENT ISSUES. MULTI LIGHT TOWER, GREEN, YELLOW, RED.
 - * MOTOR FAULT - YELLOW FLASH
 - * BIO-TOWER FAULT - YELLOW AND GREEN
 - * VENTILATION FAULT GREEN AND RED
 - * HIGH LEVEL - SEPARATE RED LIGHT STROBE WITH HORN, (CONTINUOUS STROBE WHILE ACTIVE ALARM AND CONSTANT ILLUMINATION ALARM ACKNOWLEDGED AND ALARM CONDITION PERSISTS).
 PROVIDE SILENCE SWITCH ON COVER OF SCADA PANEL. PROVIDE ENGRAVED SIGN BELOW ALARM LIGHTS IDENTIFYING ALARMS. SILENCE SWITCH TO BE SQUARE D 9001 SERIES.
- D. CONNECT TO OODR CONTROL STATION TO MONITOR POINTS AND ALARMS FOR THIS SYSTEM.
- E. CONNECT TO AUTOMATIC TRANSFER SWITCH TO MONITOR STATUS AND TO ALLOW REMOTE TRANSFER OF SWITCH TO NORMAL, INTERMEDIATE OR EMERGENCY POSITION AS LONG AS ATS CONTROLS ARE SATISFIED. PROVIDE CONTROLS TO GO TO INTERMEDIATE POSITION AND REMAIN THERE EVEN IF NO EMERGENCY POWER EXISTS. INFORMATION FROM TRANSFER SWITCH TO INCLUDE STATUS OF POWER AVAILABLE, SWITCH POSITION, VOLTAGES, CURRENT, POWER (KW).
- F. CONNECT TO FLOWMETER AIR FLOW SWITCHES FOR MONITORING AND ALARM.
- G. CONNECT TO LEVEL CONTROLLER AND FLOATS AS REQUIRED FOR CONTROLS SPECIFIED. PROVIDE 'FLOAT MODE' STATUS LIGHT IN SCADA PANEL COVER.
- H. CONNECT TO PUMP VFDS FOR ALL MONITOR AND CONTROL FUNCTIONS. CONNECT HOA SWITCH IN SCADA PANEL TO 'AUTO' POSITION OF VFD. CONNECT ELAPSED TIME METER TO RUN CONTACT IN VFD. CONNECT COMMON FAULT AND 'OVERTEMPERATURE' CONTACTS IN VFD TO SCADA.
- I. FOR VFDS, PROVIDE REMOTE MOUNT KIT TO PLACE DISPLAY IN COVER OF SCADA PANEL.
- J. FOR EACH VFDS, PROVIDE INTERFACE PROTECTION, MOTOR HOUSING MONITOR, SEAL LEAKAGE DETECTOR AND BEARING TEMPERATURE MONITORING.

LEGEND

- CONDUIT AND CONDUCTORS
- - - - - CONDUIT W/ DATA/ETHERNET CABLE



1 SCADA SYSTEM RISER DIAGRAM
E3.1 NOT TO SCALE



NO.	REVISIONS	BY	DATE

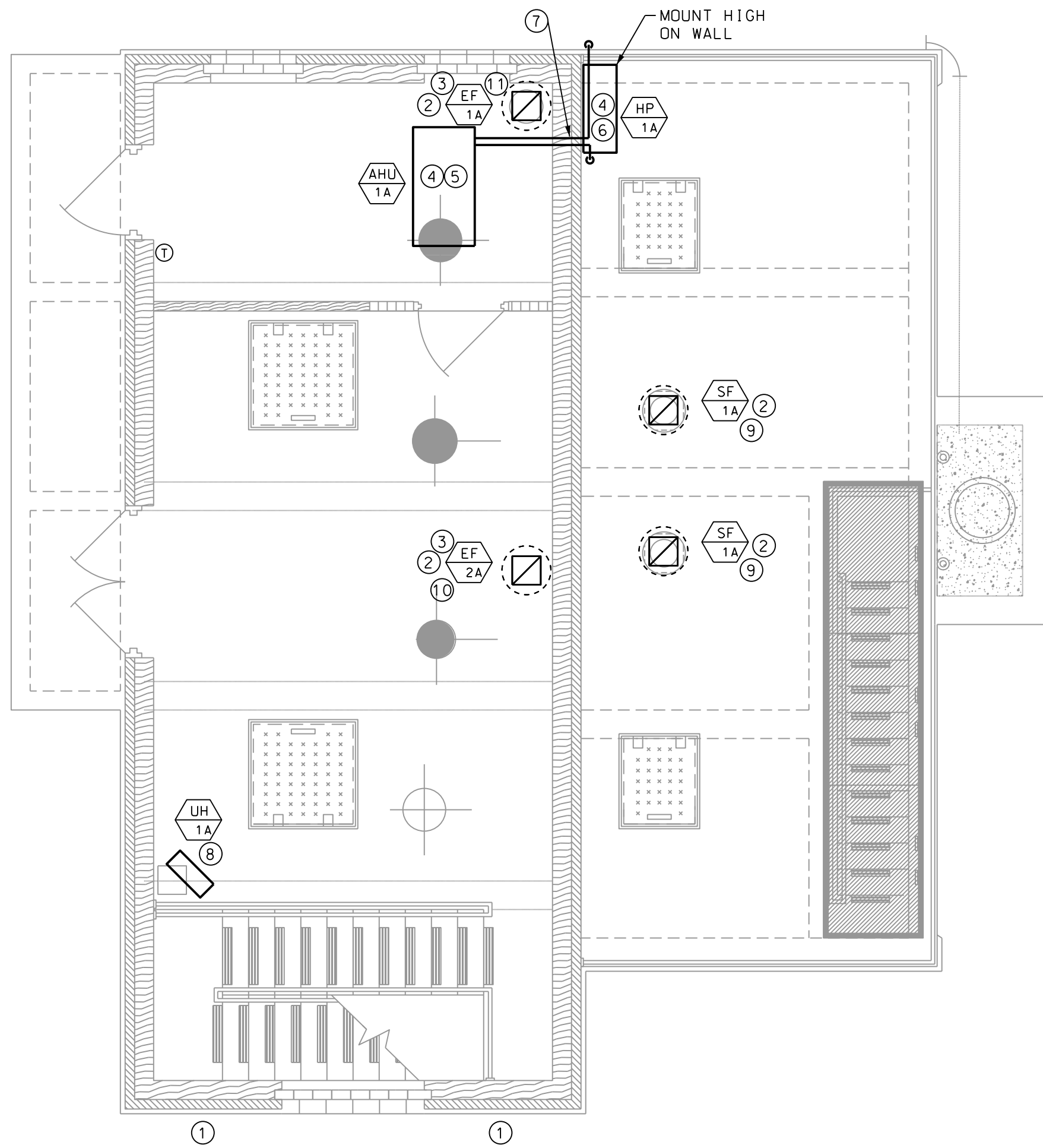
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BRUNSWICK GLYNN JOINT WATER AND SEWER COMMISSION
 BRUNSWICK, GA
 BGJWSC NORTH MAINLAND PHASE II 8, III
 SCADA SYSTEM DETAILS

JOB NO:	J-27784-0000
DATE:	01/07/2020
DRAWN:	LC
DESIGNED:	PM
REVIEWED:	PM
APPROVED:	PM
SCALE:	NOT TO SCALE

E3.1

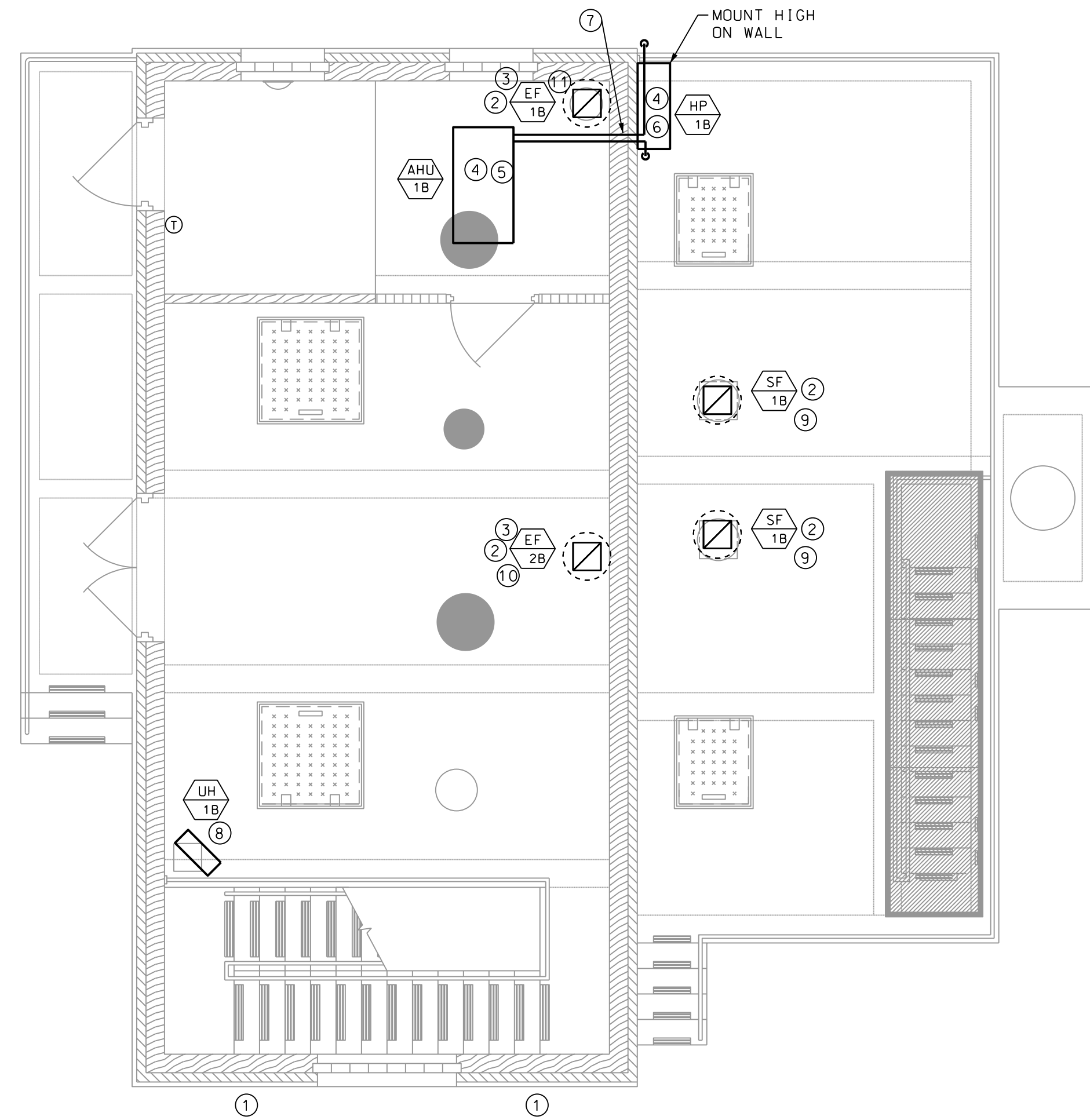
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20-JAN-2020
09:17
LC:lcw



1 MODIFICATION TO PUMP STATION 4035 ENTRANCE FLOORPLAN - HVAC
M1.1 SCALE: 1/4" = 1'

NOTES:

- 1 EXISTING LOUVERS TO REMAIN FOR INTAKE AIR
- 2 REMOVE EXISTING FAN AND REPLACE WITH NEW AS SHOWN. CONNECT TO EXISTING DUCT. FIELD COORDINATE CONNECTIONS.
- 3 FAN SHALL BE PROVIDED WITH AIR PROVING SAIL SWITCH TO ALARM WHEN THERE IS NO AIR FLOW. COORDINATE WITH ELECTRICAL.
- 4 AHU/HP SHALL BE MITSUBISHI MODEL PCA-A30KA6/PUZ-A30NHA6-BS (SEACAST COATING) OR APPROVED EQUAL. UNIT SHALL BE PROVIDED WITH DISCONNECT SWITCH, WALL MOUNTING BRACKET FOR OUTDOOR UNIT, AND WIRED THERMOSTAT.
- 5 MOUNT UNIT TIGHT TO STRUCTURE ABOVE
- 6 MOUNT UNIT ON WALL
- 7 CONDENSATE DRAIN LINE AND REFRIGERANT LINE SET. COORDINATE ROUTING WITH EXISTING CONDITIONS AND OTHER TRADES. CONDENSATE TO TURN DOWN AND DRIP ON GROUND.
- 8 UNIT HEATER SHALL BE QMARK MUH OR APPROVED EQUAL. HEATER SHALL BE SIZED FOR 7.5 KW WITH HORIZONTAL DISCHARGE. HEATER SHALL BE PROVIDED WITH MOUNTING BRACKETS, DISCONNECT SWITCH AND BUILT-IN THERMOSTAT.
- 9 SUPPLY FAN SHALL BE GREENHECK MODEL TCBRS-1-10 OR APPROVED EQUAL. FAN SHALL BE SPARK RESISTANT B WITH ALUMINUM WHEEL AND BELT DRIVEN MOTOR OUT OF THE AIR STREAM. FAN SHALL RUN CONTINUOUSLY. COORDINATE WITH EXISTING CONDITIONS AND ELECTRICAL. FAN SHALL BE SIZED FOR 350 CFM AT 0.25 ESP AND 1/4 HP.
- 10 EXHAUST FAN SHALL BE GREENHECK MODEL TCBRU-1-10 OR APPROVED EQUAL. FAN SHALL BE SPARK RESISTANT B WITH ALUMINUM WHEEL AND BELT DRIVEN MOTOR OUT OF THE AIR STREAM. FAN SHALL RUN CONTINUOUSLY. COORDINATE WITH EXISTING CONDITIONS AND ELECTRICAL. FAN SHALL BE SIZED FOR 600 CFM AT 0.25 ESP AND 1/4 HP.
- 11 EXHAUST FAN SHALL BE GREENHECK MODEL TCBRU-1-10 OR APPROVED EQUAL. FAN SHALL BE SPARK RESISTANT B WITH ALUMINUM WHEEL AND BELT DRIVEN MOTOR OUT OF THE AIR STREAM. FAN SHALL RUN CONTINUOUSLY. COORDINATE WITH EXISTING CONDITIONS AND ELECTRICAL. FAN SHALL BE SIZED FOR 1100 CFM AT 0.375 ESP AND 1/2 HP.



2 MODIFICATION TO PUMP STATION 4036 ENTRANCE FLOORPLAN - HVAC
M1.1 SCALE: 1/4" = 1'

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BRUNSWICK, GA

BGJWSC NORTH MAINLAND PHASE II 8, III
4035 & 4036 FLOOR PLAN HVAC

JOB NO:	J-27784 0000
DATE:	01/07/2020
DRAWN:	SMP
DESIGNED:	SMP
REVIEWED:	SMP
APPROVED:	SMP
SCALE:	AS SHOWN

M1.1

