










**GENERAL NOTES:**

- 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.
- CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. CONTACT ENGINEER IMMEDIATELY WITH ANY DISCREPANCIES.
- ALL ELEVATIONS REFER TO NAVD 88.
- THE CONTRACTOR SHALL GRASS ALL AREAS DISTURBED BY CONSTRUCTION IMMEDIATELY AFTER THE DISTURBANCE.
- 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.
- 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.
- THE CONTRACTOR WILL NOTIFY THE ENGINEER IF UNSUITABLE MATERIAL IS DISCOVERED PRIOR TO BEGINNING ANY REMOVAL OPERATION.
- 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.
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE BEGINNING ANY CONSTRUCTION (1-800-282-7411 OR 811).
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL WORK SHALL CONFORM TO APPLICABLE STATE, COUNTY AND MUNICIPAL REQUIREMENTS AND CODES.
- THE CONTRACTOR SHALL COORDINATE DEMOLITION AND IMPROVEMENTS TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF FACILITIES.
- 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.
- ALL STORM DRAIN JOINTS ARE TO BE WRAPPED IN FILTER FABRIC.
- THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION UNTIL THE PROPER PERMITS HAVE BEEN ISSUED.
- 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.
- 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.
- ALL MANHOLE TOPS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND SET MANHOLE TOPS RELATIVE TO FINISHED GRADES AS SHOWN ON THE PLANS.
- 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.
- 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.

- 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.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL IMMEDIATELY REPAIR ANY EXISTING WATER AND SEWER UTILITIES DAMAGED DURING CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
- "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.
- 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).
- 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.
- ALL CONSTRUCTION WATER SHALL BE METERED THROUGH AN ACCEPTABLE HYDRANT METER AND BACKFLOW DEVICE OBTAINED FROM THE BGJWSC.
- 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.
- ALL DISTURBED AREAS SHALL BE GRASSED WITH TEMPORARY SEEDING AND MULCHED IMMEDIATELY AFTER GRADING IS COMPLETE. THESE AREAS SHALL BE REGRASSED WITH PERMANENT SEEDING AFTER CONSTRUCTION IS COMPLETE.
- 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.
- THE CONTRACTOR SHALL IMMEDIATELY REPAIR EXISTING WATER & SEWER SERVICES DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.
- 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.
- 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.
- THE BGJWSC RESERVES FIRST RIGHT OF SALVAGE FOR ALL EQUIPMENT REMOVAL AT EACH SITE.
- 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.
- 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 PUMP STATION.
- 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

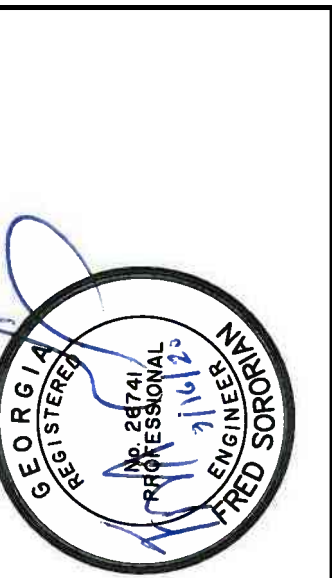
24-HOUR CONTACT:  
 JASON VO, PE  
 CAPITAL PROJECTS MANAGER  
 PHONE: 912-324-9905

BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION  
 PLANNING & CONSTRUCTION DIVISION  
 PHONE: 912-261-7126

STATE LAW REQUIRES  
 72 HRS. NOTICE  
 1-800-282-7411



Know what's below.  
 Call before you dig.



NO.	ISSUED FOR BID	REVISIONS	BY	DATE
0			CDR	10-19-2020

**THOMAS & HUTTON**  
 50 Park of Commerce Way  
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 www.thomasandhutton.com

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

JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	NONE

**G1.1**

BID SET - NOT FOR CONSTRUCTION



**DIVISION III  
PROPOSED FORCEMAIN  
AND/OR GRAVITY  
(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



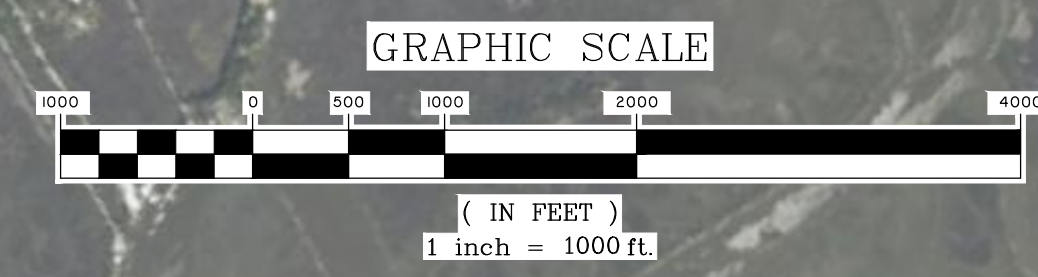
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**BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION**  
BRUNSWICK, GA  
206 SPLOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS  
VICINITY MAP

JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1" = 1000'

**G1.2**



BID SET - NOT FOR CONSTRUCTION



BID SET - NOT FOR CONSTRUCTION

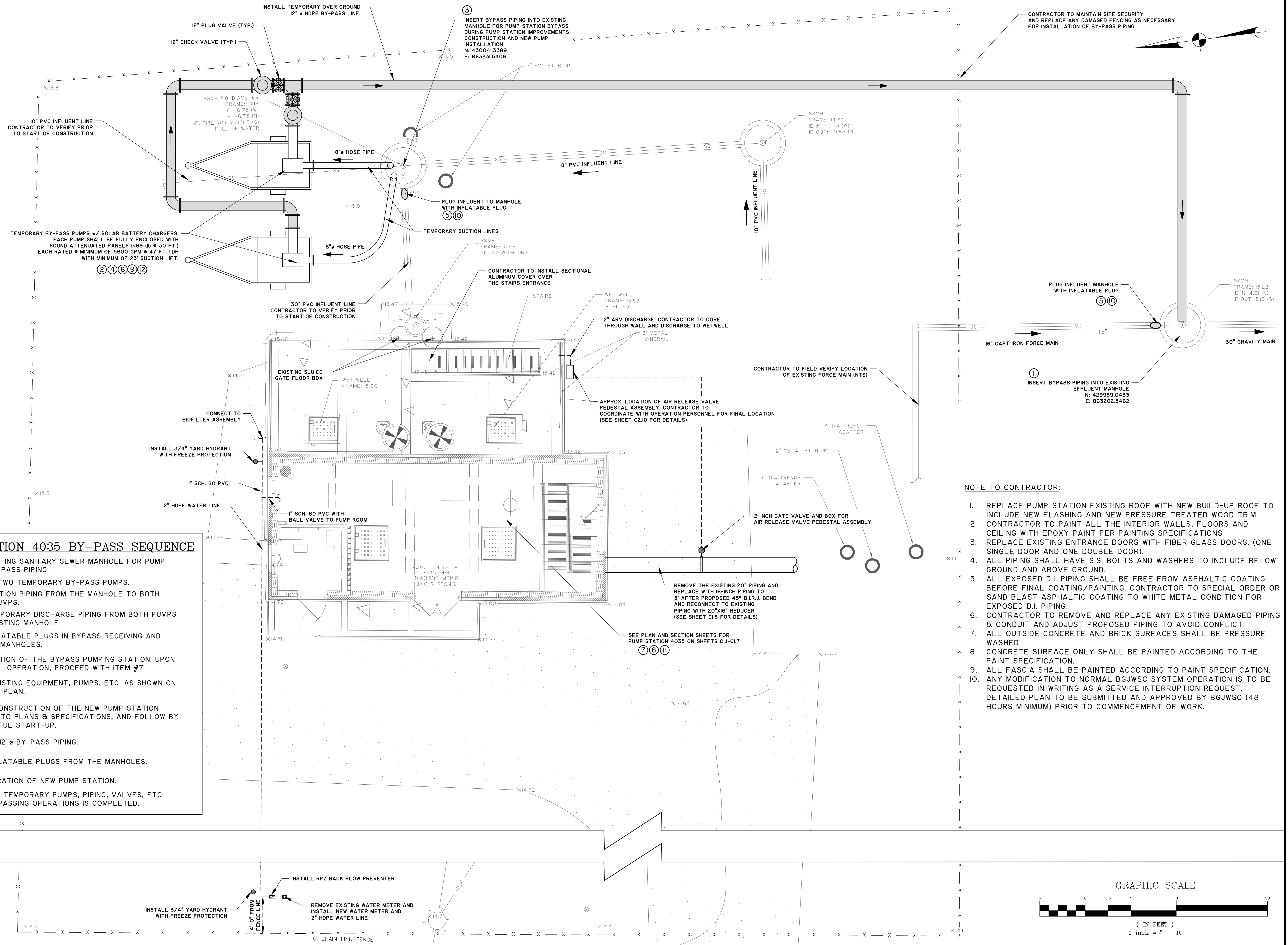
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**BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION**  
 BRUNSWICK, GA  
 206 SPLOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS  
**SITE PLAN - PS 4035 BYPASS PIPING**

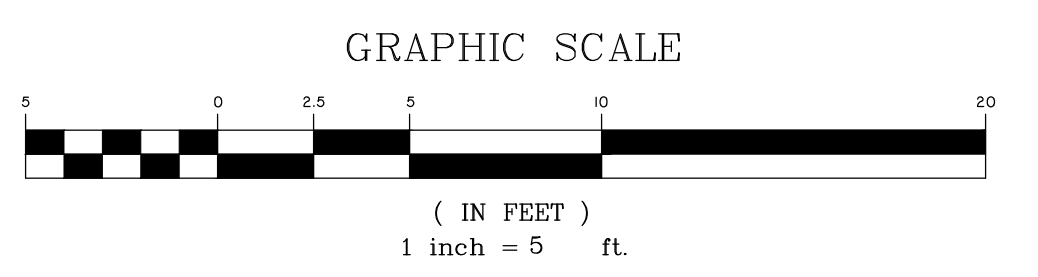
JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1" = 5'

C1.1



- 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" HDPE 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. REPLACE EXISTING ENTRANCE DOORS WITH FIBER GLASS DOORS. (ONE SINGLE DOOR AND ONE DOUBLE DOOR).
  4. ALL PIPING SHALL HAVE S.S. BOLTS AND WASHERS TO INCLUDE BELOW GROUND AND ABOVE GROUND.
  5. 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.
  6. CONTRACTOR TO REMOVE AND REPLACE ANY EXISTING DAMAGED PIPING & CONDUIT AND ADJUST PROPOSED PIPING TO AVOID CONFLICT.
  7. ALL OUTSIDE CONCRETE AND BRICK SURFACES SHALL BE PRESSURE WASHED.
  8. CONCRETE SURFACE ONLY SHALL BE PAINTED ACCORDING TO THE PAINT SPECIFICATION.
  9. ALL FASCIA SHALL BE PAINTED ACCORDING TO PAINT SPECIFICATION.
  10. 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**

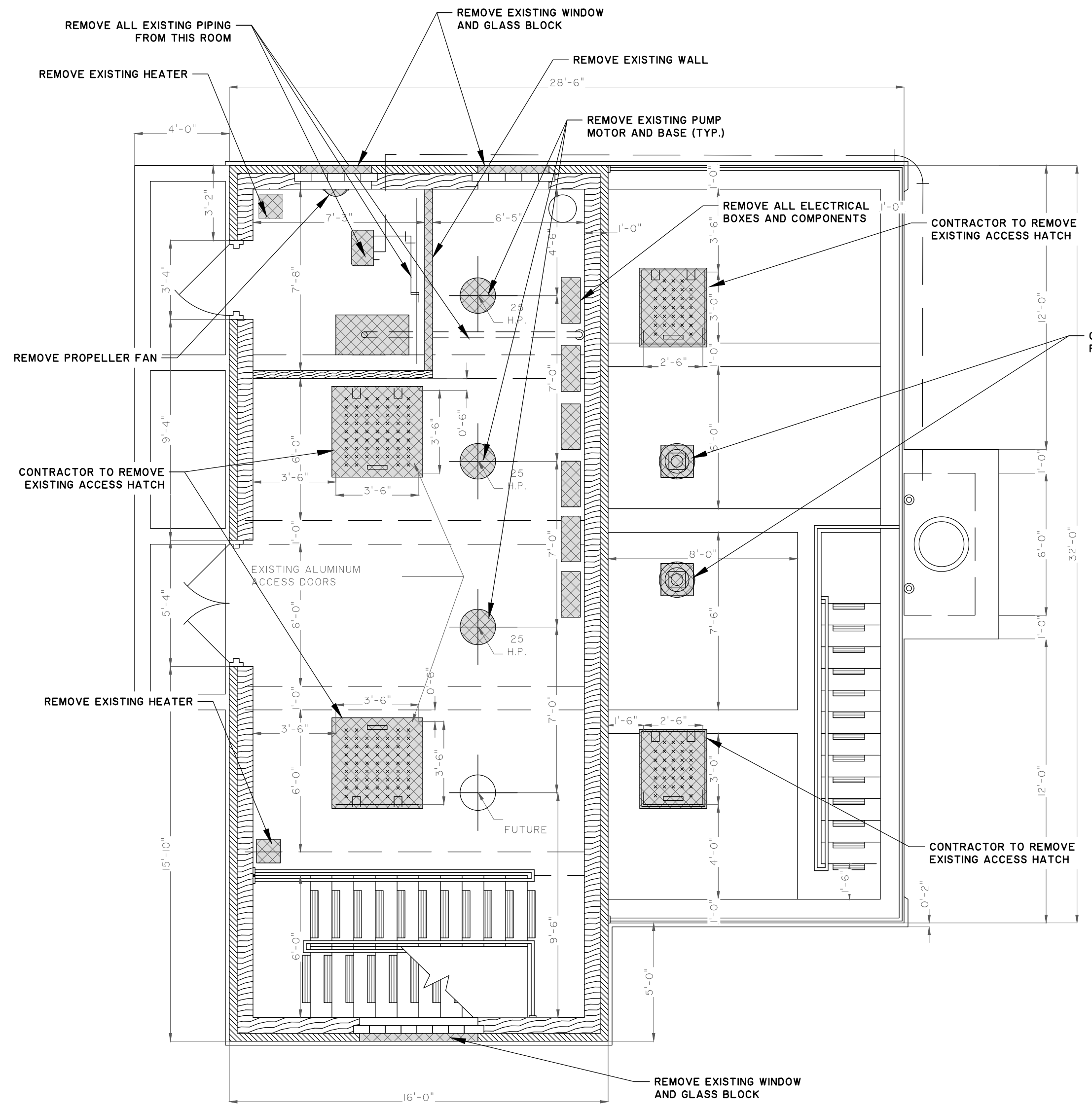
 TO BE REMOVED AND DISPOSED OFFSITE\*

 PROPOSED NEW INSTALLATION

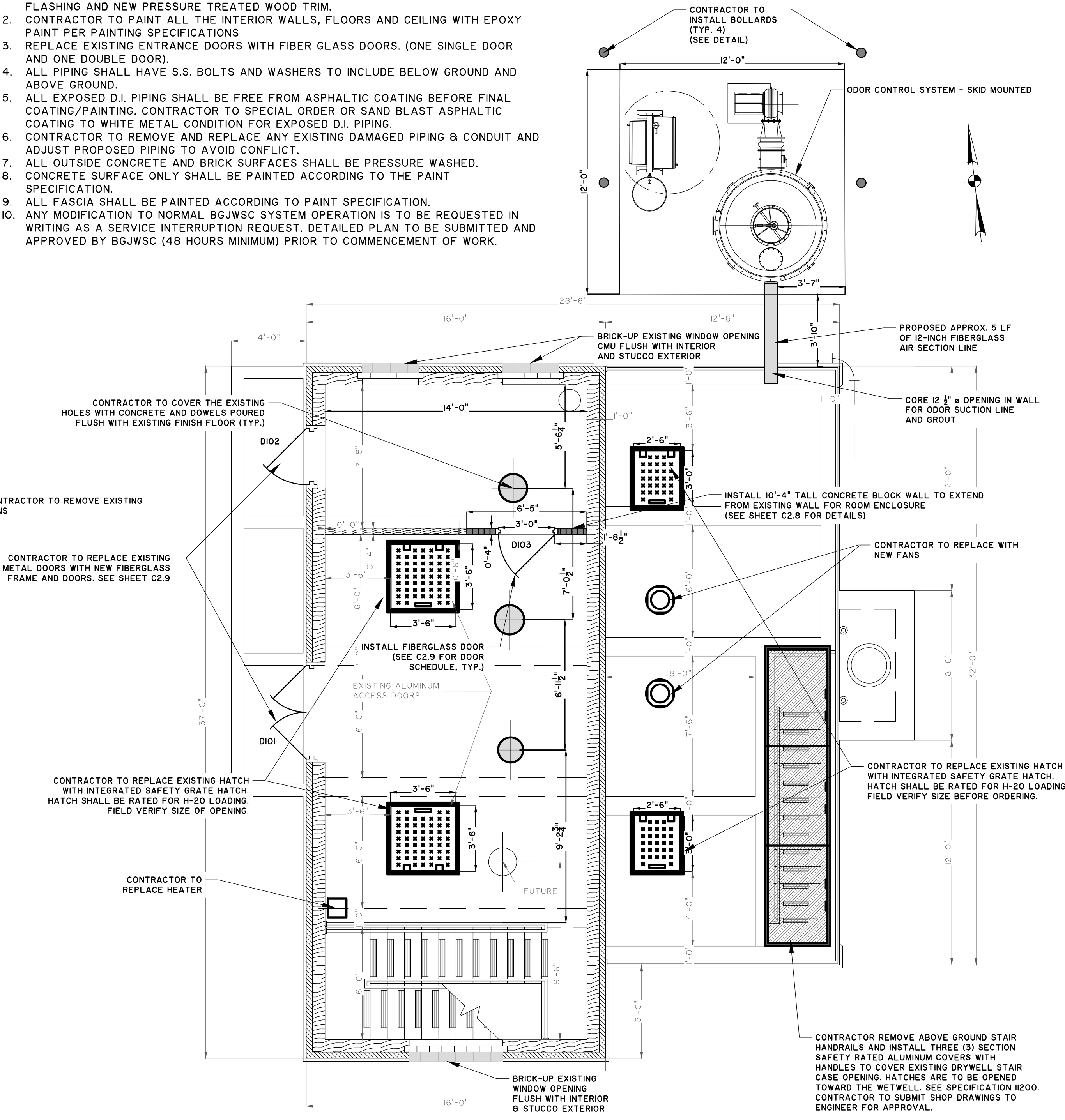
\*CONSULT WITH OWNER BEFORE DISPOSAL

**NOTE TO CONTRACTOR:**

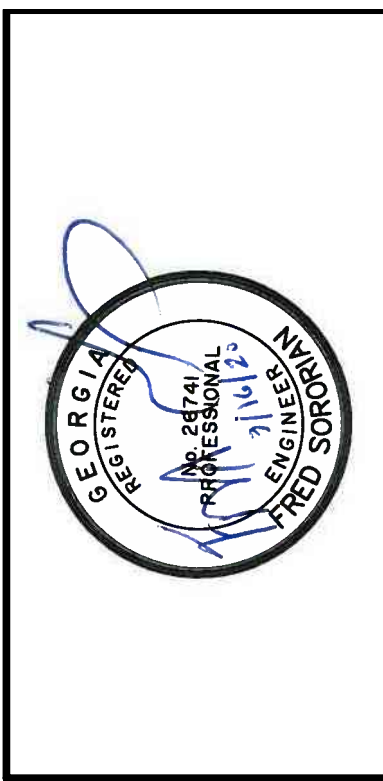
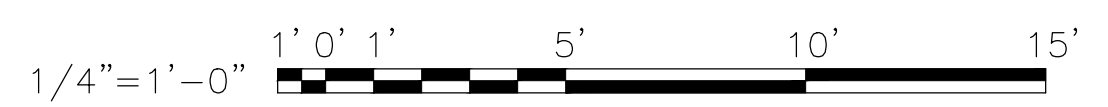
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**1 EXISTING PUMP STATION DEMOLITION ENTRANCE FLOORPLAN**  
SCALE: 1/4" = 1'-0"



**2 MODIFICATION TO PUMP STATION ENTRANCE FLOORPLAN**  
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 4035 - ENTRANCE FLOOR PLAN**

JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

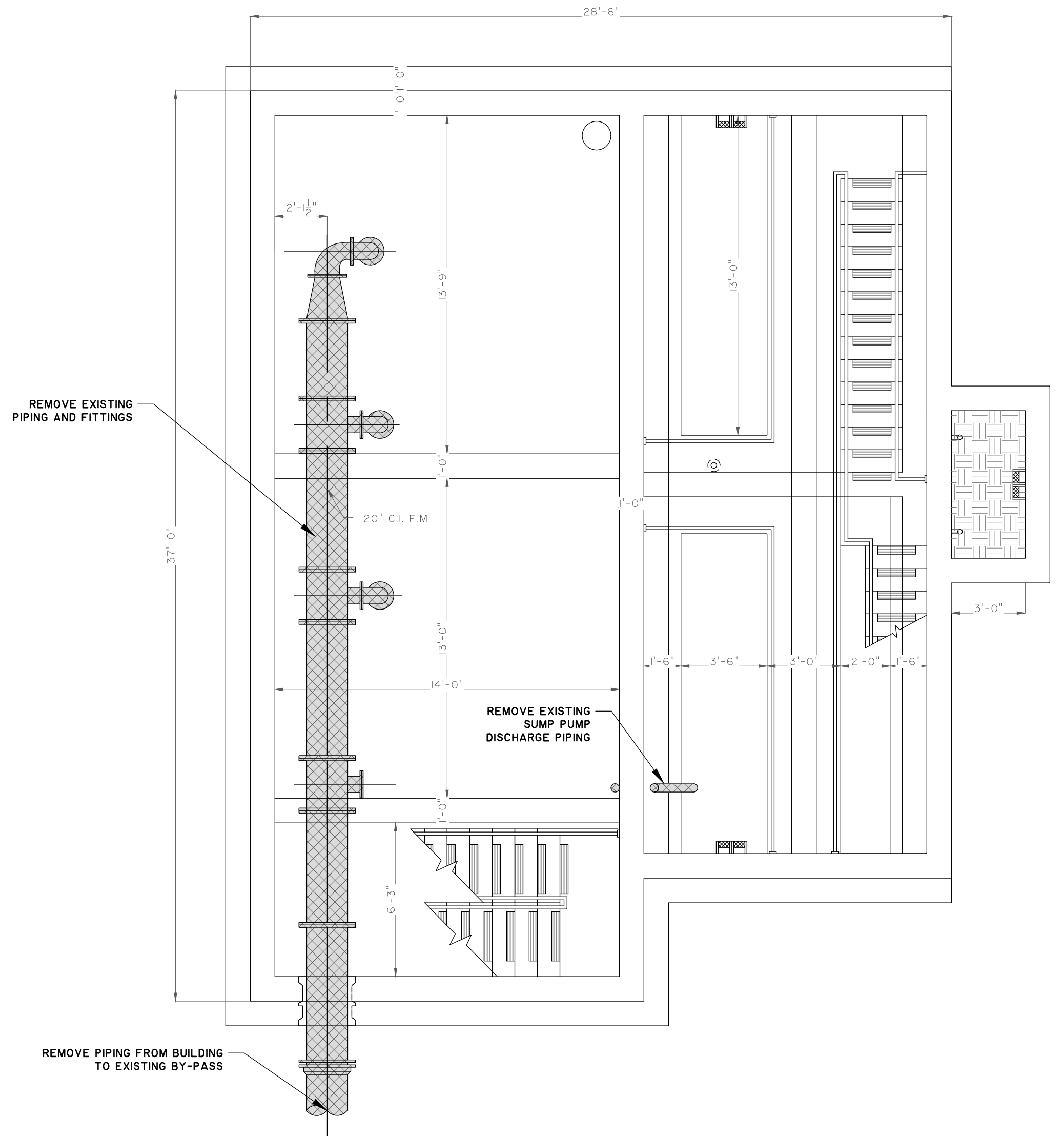
**C1.2**

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**LEGEND**

	TO BE REMOVED AND DISPOSED OFFSITE*
	PROPOSED NEW INSTALLATION

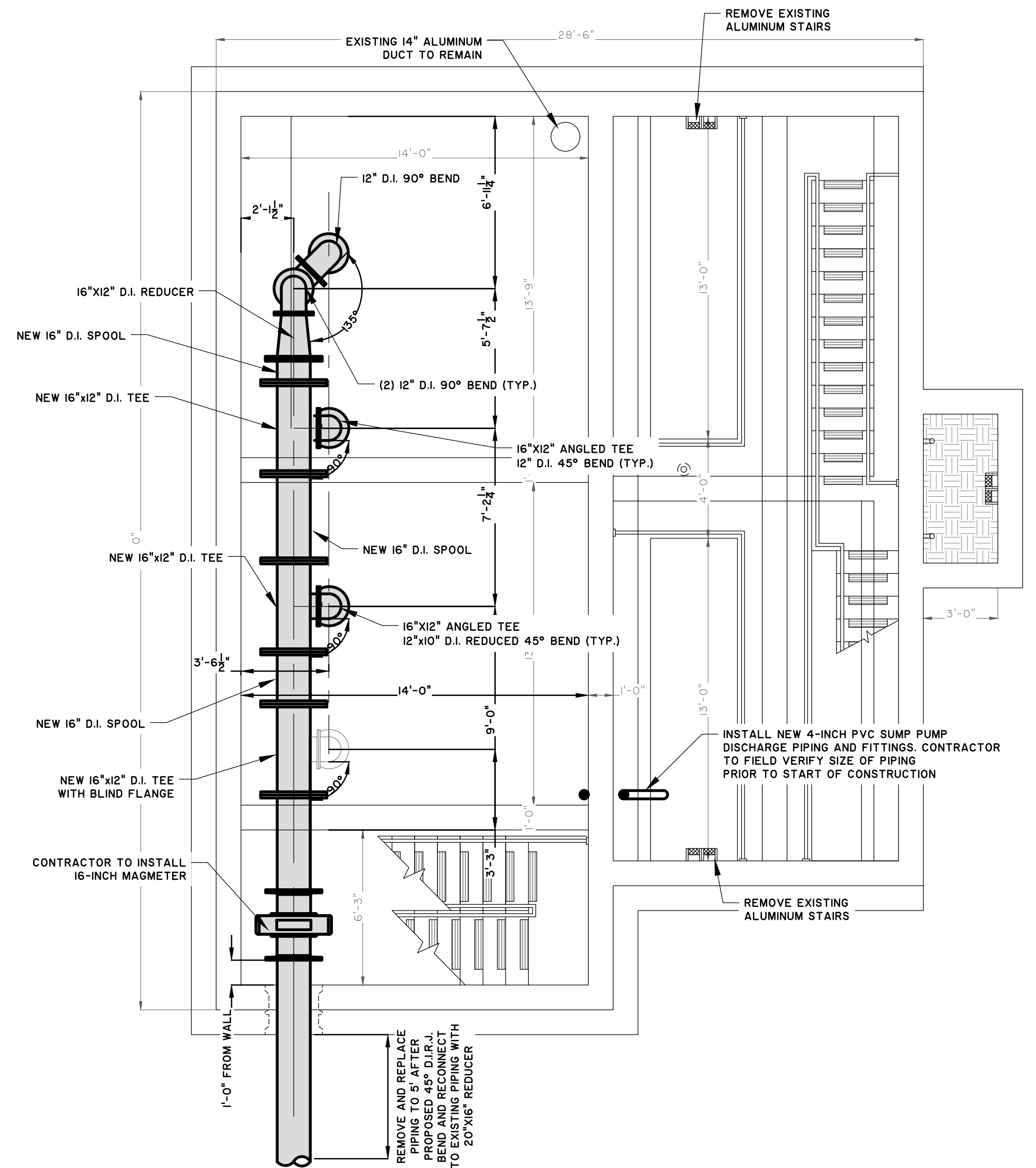
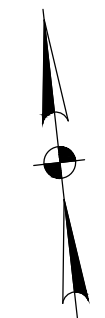
\*CONSULT WITH OWNER BEFORE DISPOSAL



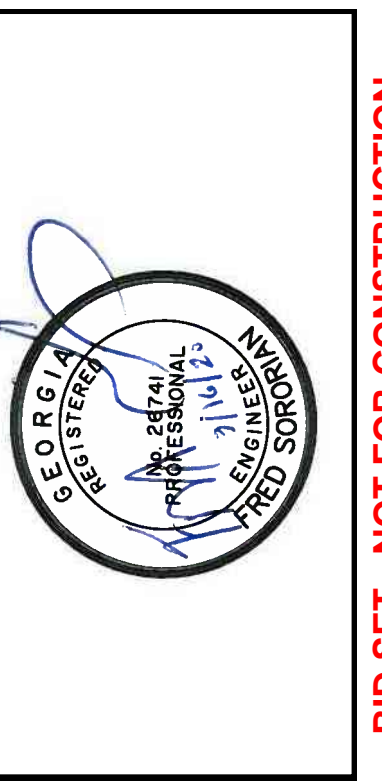
**1 EXISTING PUMP STATION DEMOLITION INTERMEDIATE PLAN**  
 C1.3 SCALE: 1/4" = 1'-0"

**NOTE TO CONTRACTOR:**

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**2 MODIFICATION TO PUMP STATION INTERMEDIATE PLAN**  
 C1.3 SCALE: 1/4" = 1'-0"



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 BRUNSWICK, GA  
 206 SP. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS  
**PS 4035 -INTERMEDIATE PLAN**


JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'


**C1.3**

**BID SET - NOT FOR CONSTRUCTION**

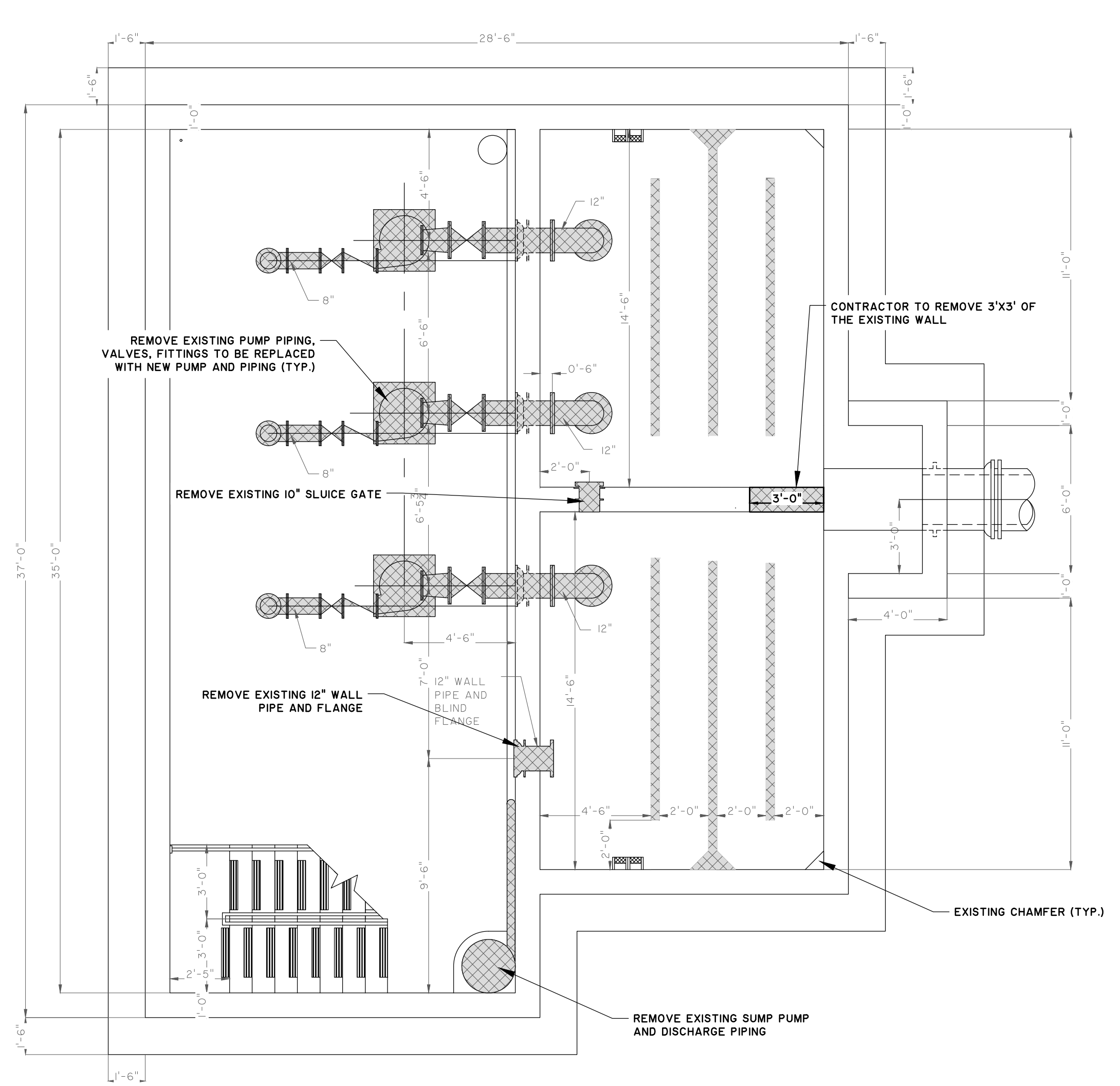
21277843.00000.Engineering\Job - Brunswick\Construction Plans - Pump Station\PS 4035 PL SET.dwg - Rev 9, 2020 - 10:29 AM

**LEGEND**

 TO BE REMOVED AND DISPOSED OFFSITE\*

 PROPOSED NEW INSTALLATION

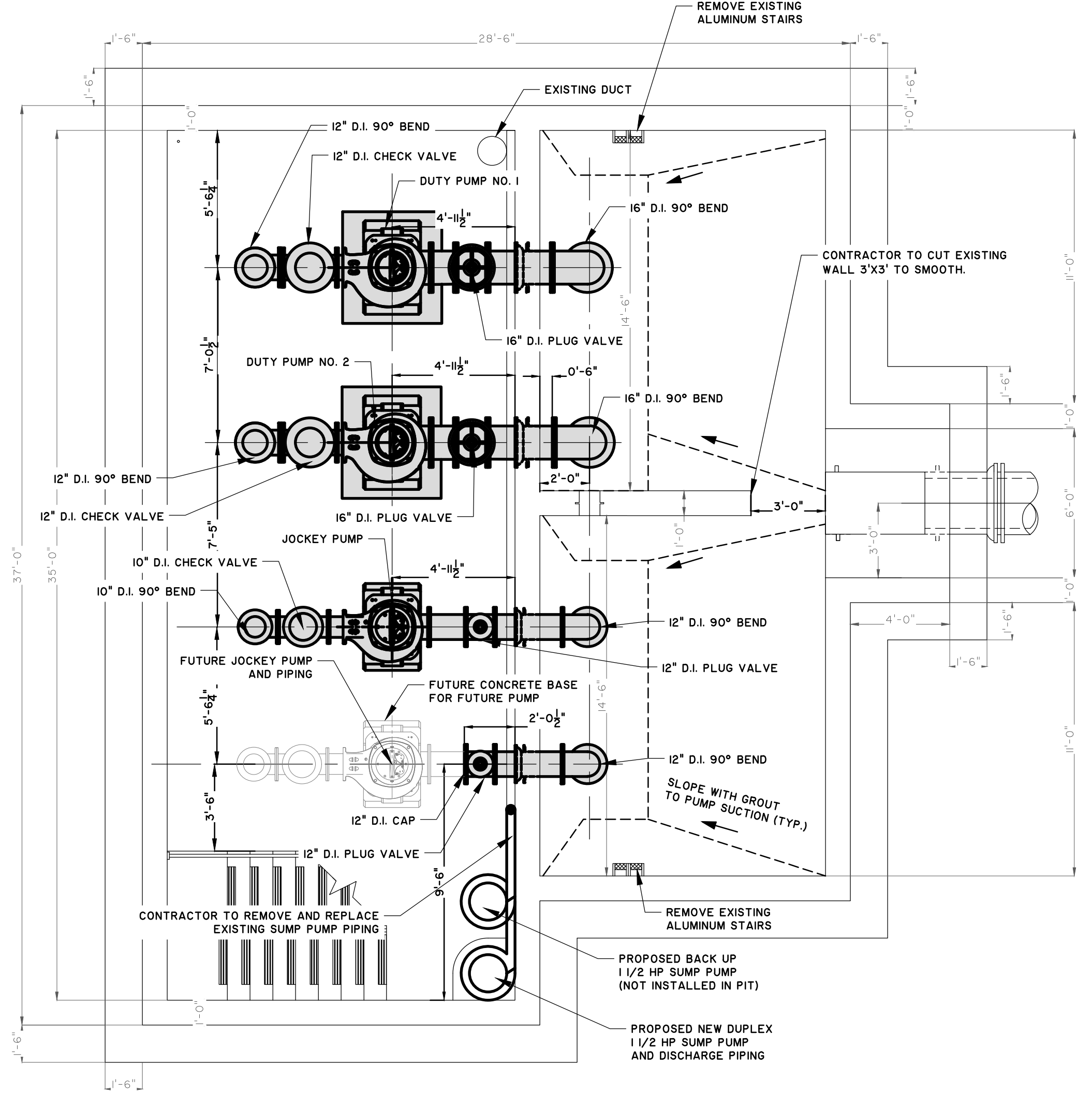
\*CONSULT WITH OWNER BEFORE DISPOSAL



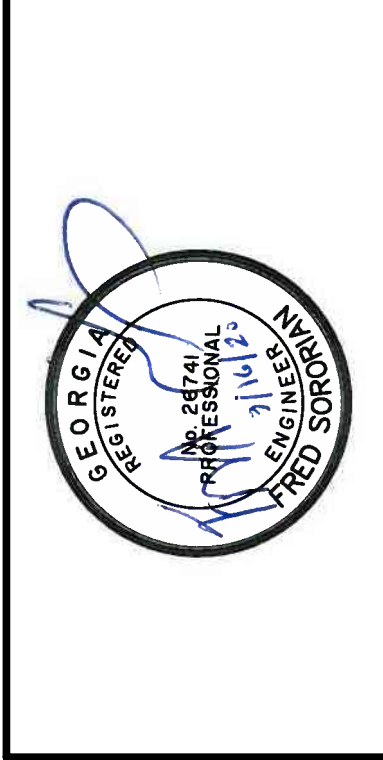
**1 EXISTING PUMP STATION DEMOLITION BOTTOM PLAN**  
SCALE: 1/4" = 1'-0"

**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. REPLACE EXISTING ENTRANCE DOORS WITH FIBER GLASS DOORS. (ONE SINGLE DOOR AND ONE DOUBLE DOOR).
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**2 MODIFICATION TO PUMP STATION BOTTOM PLAN**  
SCALE: 1/4" = 1'-0"



NO.	ISSUED FOR BID	REVISIONS	BY	DATE
0			CDR	10-19-2020

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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:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

**C1.4**

BID SET - NOT FOR CONSTRUCTION



BID SET - NOT FOR CONSTRUCTION

**NOTE TO CONTRACTOR:**

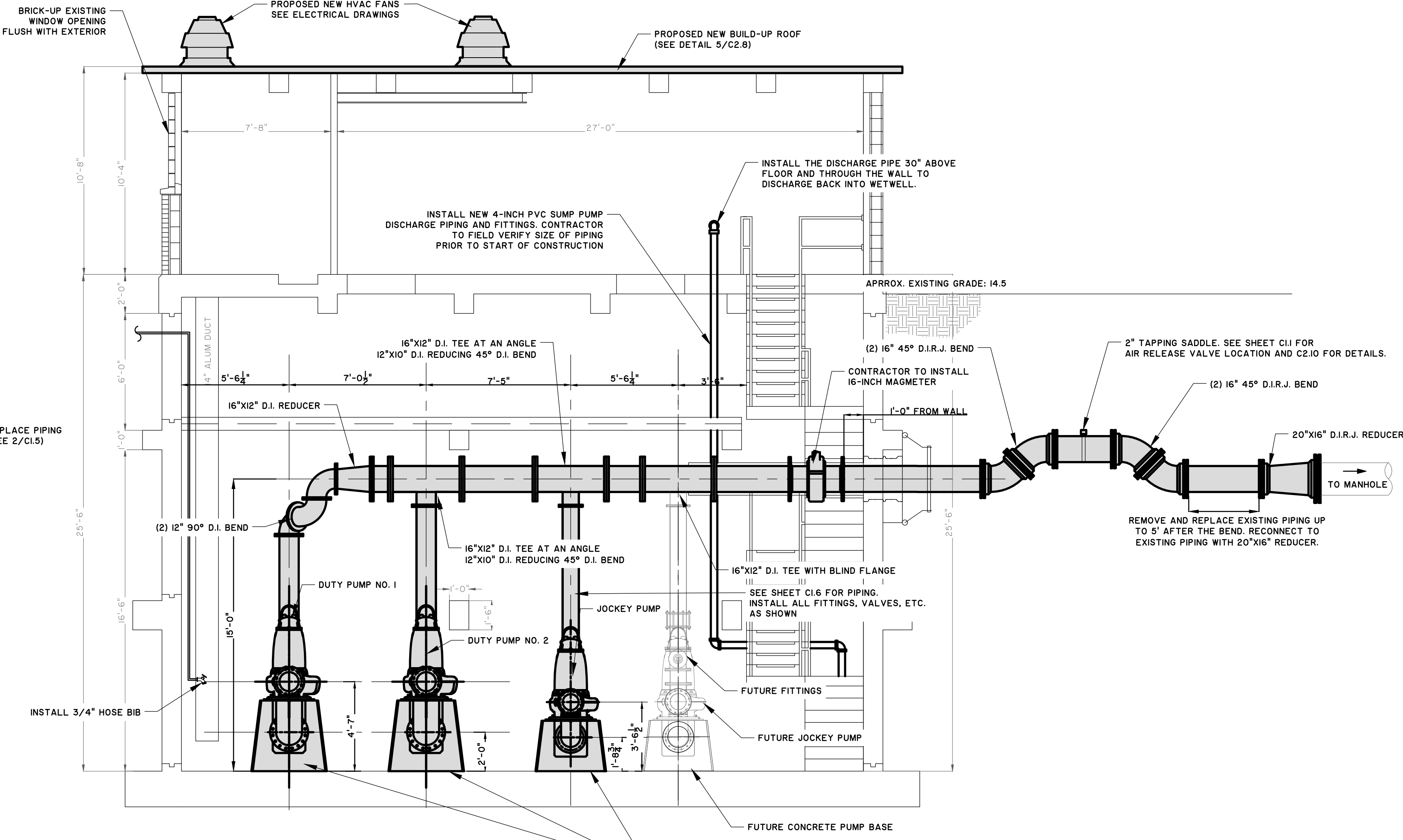
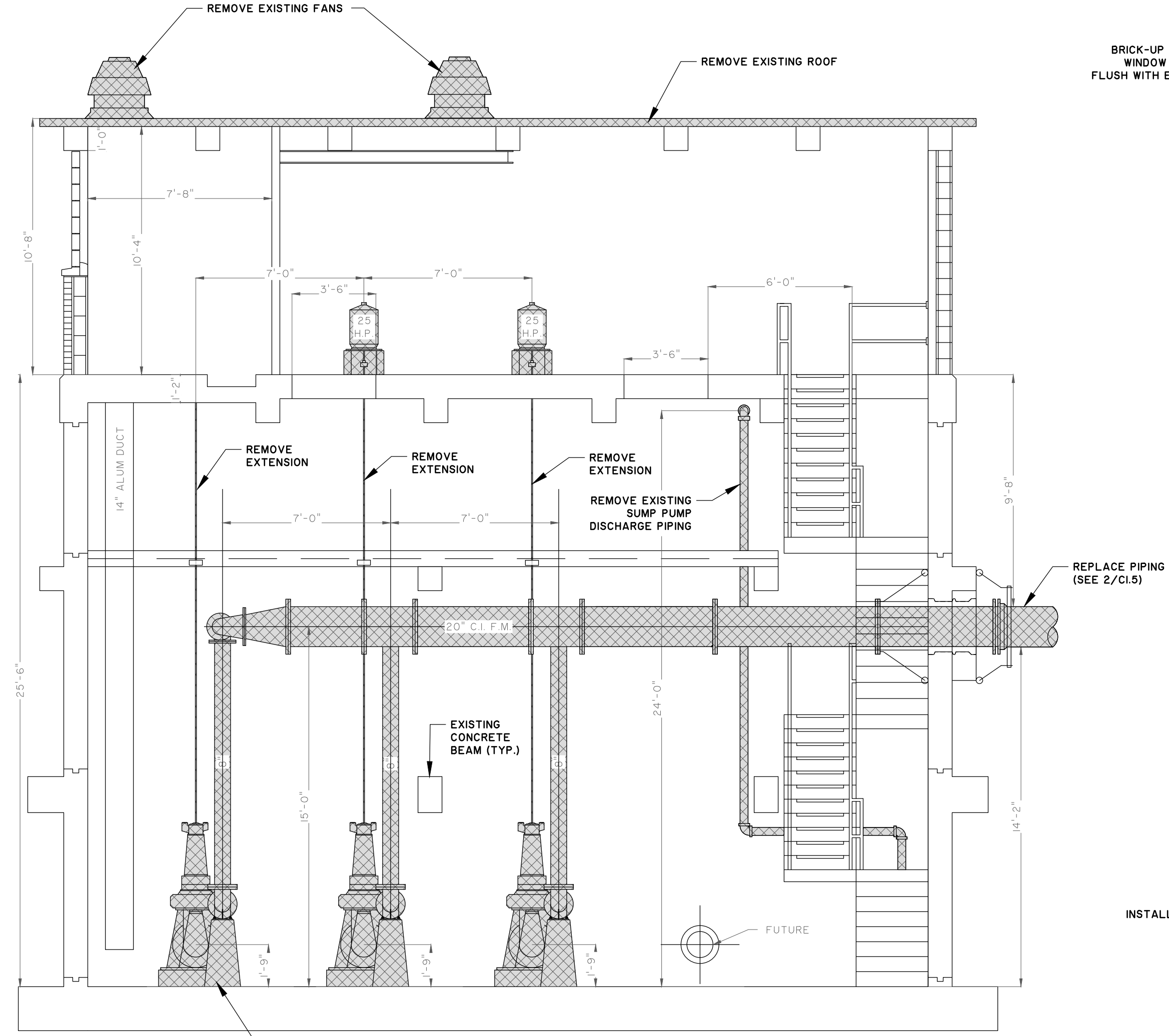
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**LEGEND**

TO BE REMOVED AND DISPOSED OFFSITE\*

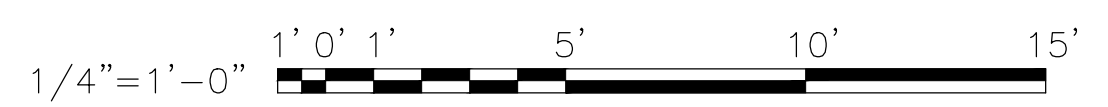
PROPOSED NEW INSTALLATION

\*CONSULT WITH OWNER BEFORE DISPOSAL



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

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



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


JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'


C1.5



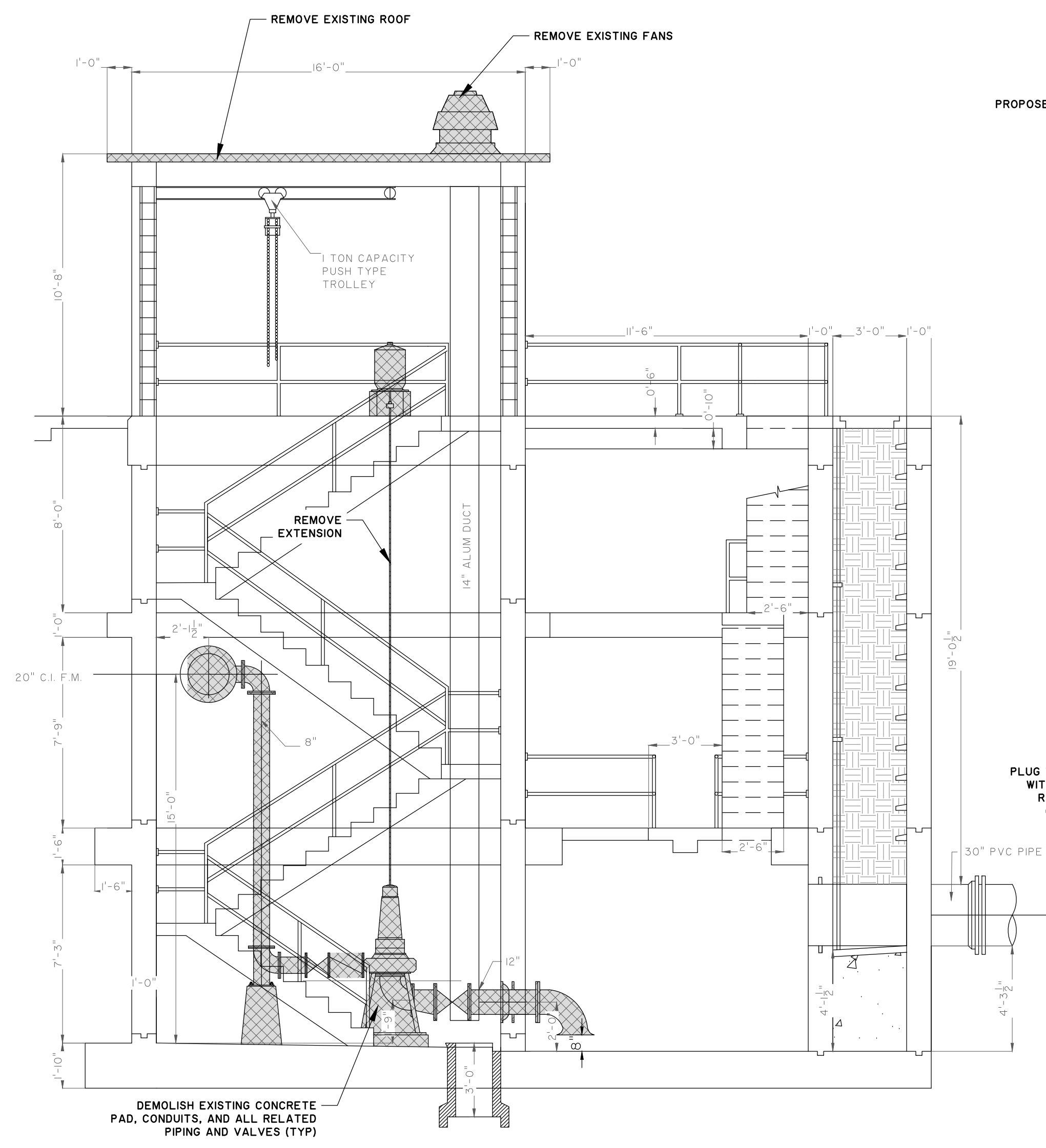
21277843.00000, Engineering, Inc. - Brunswick-Glynn Joint Water and Sewer Commission Plans - Pump Station Construction Plans - PS 4035 - 10/19/2020

**LEGEND**

 TO BE REMOVED AND DISPOSED OFFSITE\*

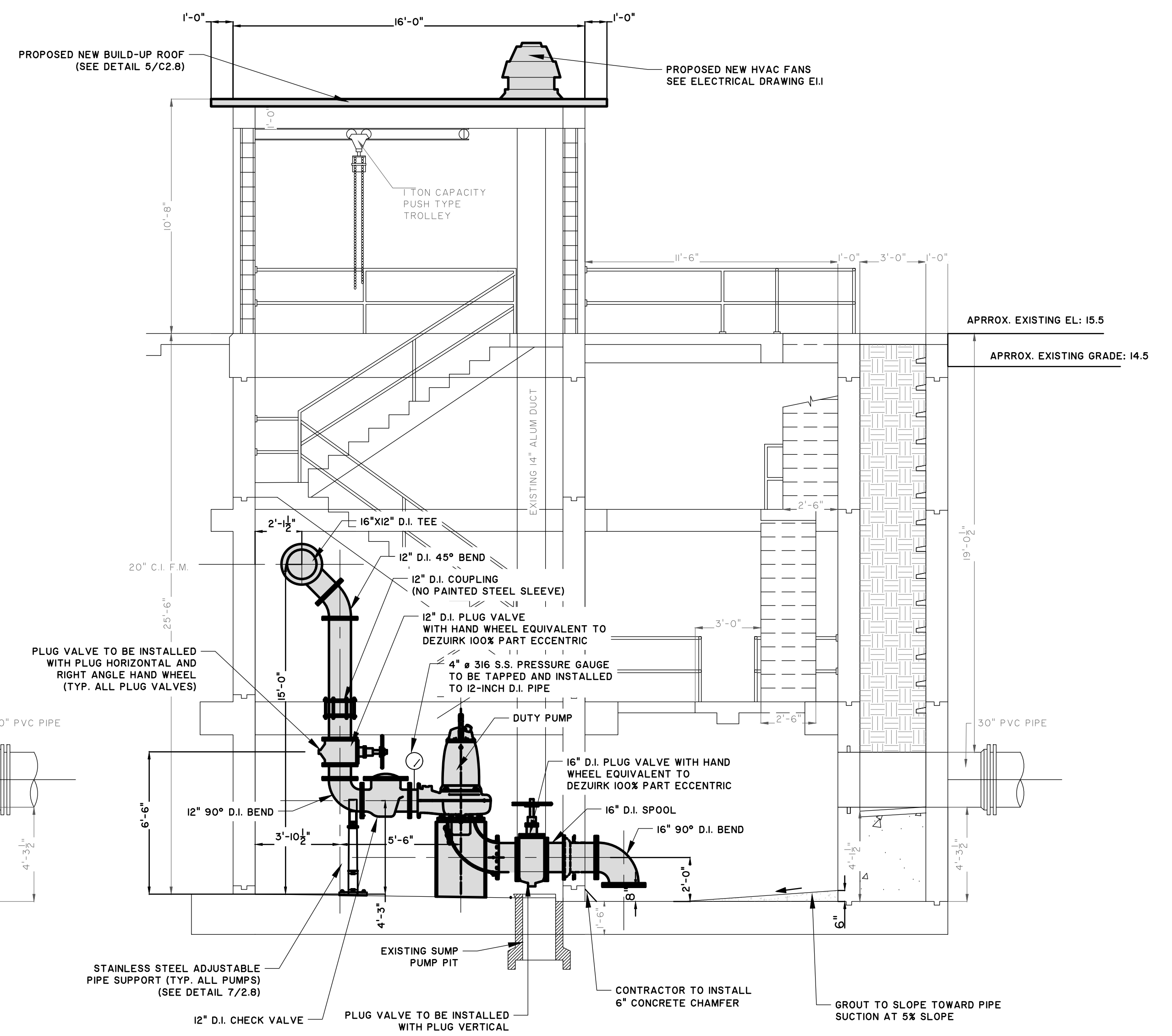
 PROPOSED NEW INSTALLATION

\*CONSULT WITH OWNER BEFORE DISPOSAL



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

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



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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:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'


**C1.6**

BID SET - NOT FOR CONSTRUCTION

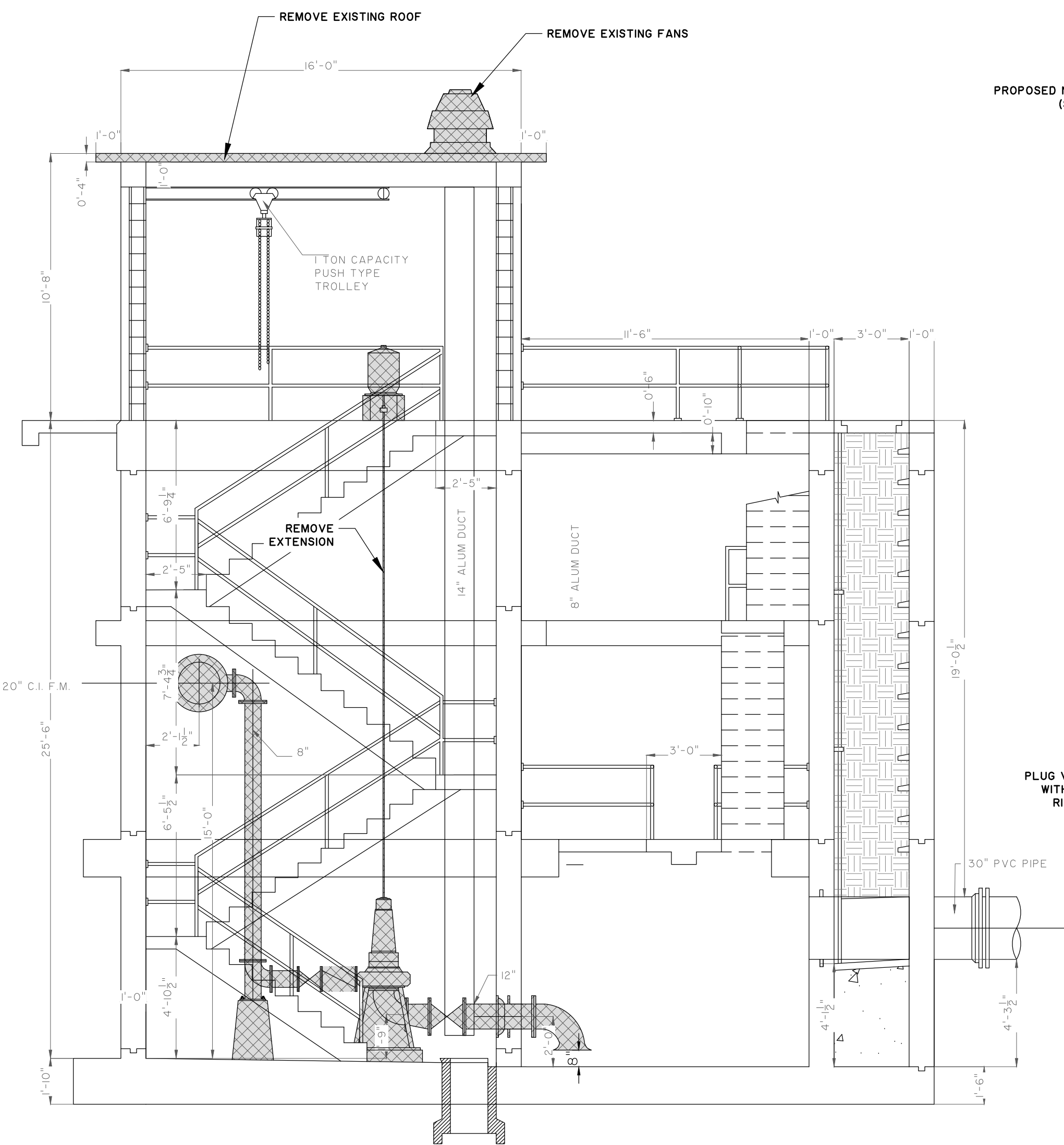
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**LEGEND**

 TO BE REMOVED AND DISPOSED OFFSITE\*

 PROPOSED NEW INSTALLATION

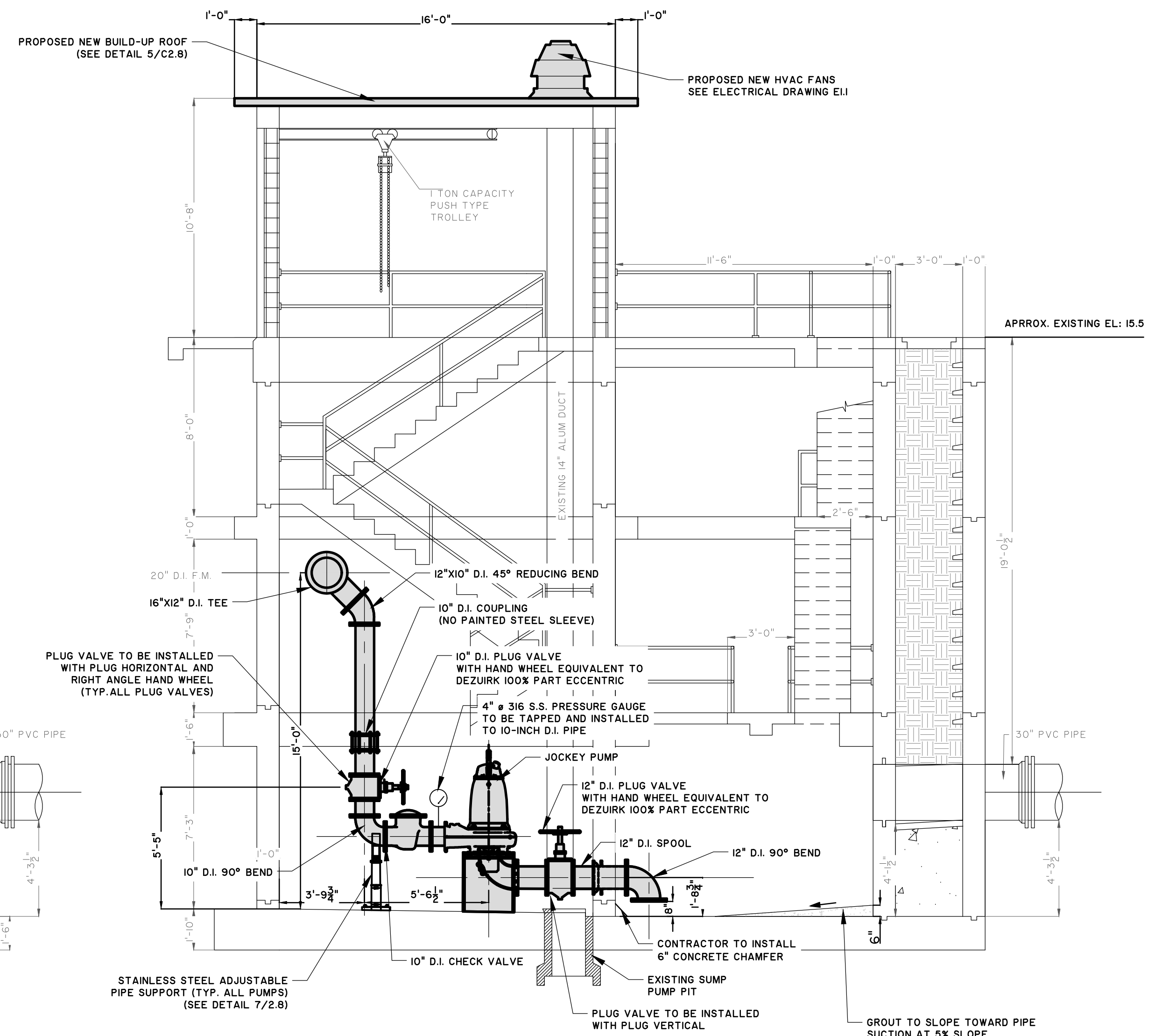
\*CONSULT WITH OWNER BEFORE DISPOSAL



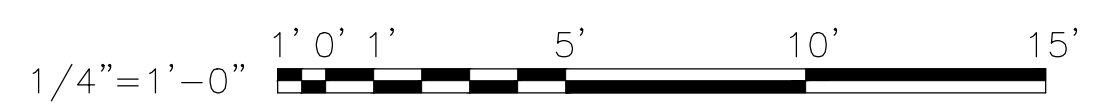
**1 EXISTING PUMP STATION DEMOLITION ELEVATION FACING NORTH JOCKEY PUMP**  
SCALE: 1/4" = 1'-0"

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



**BID SET - NOT FOR CONSTRUCTION**



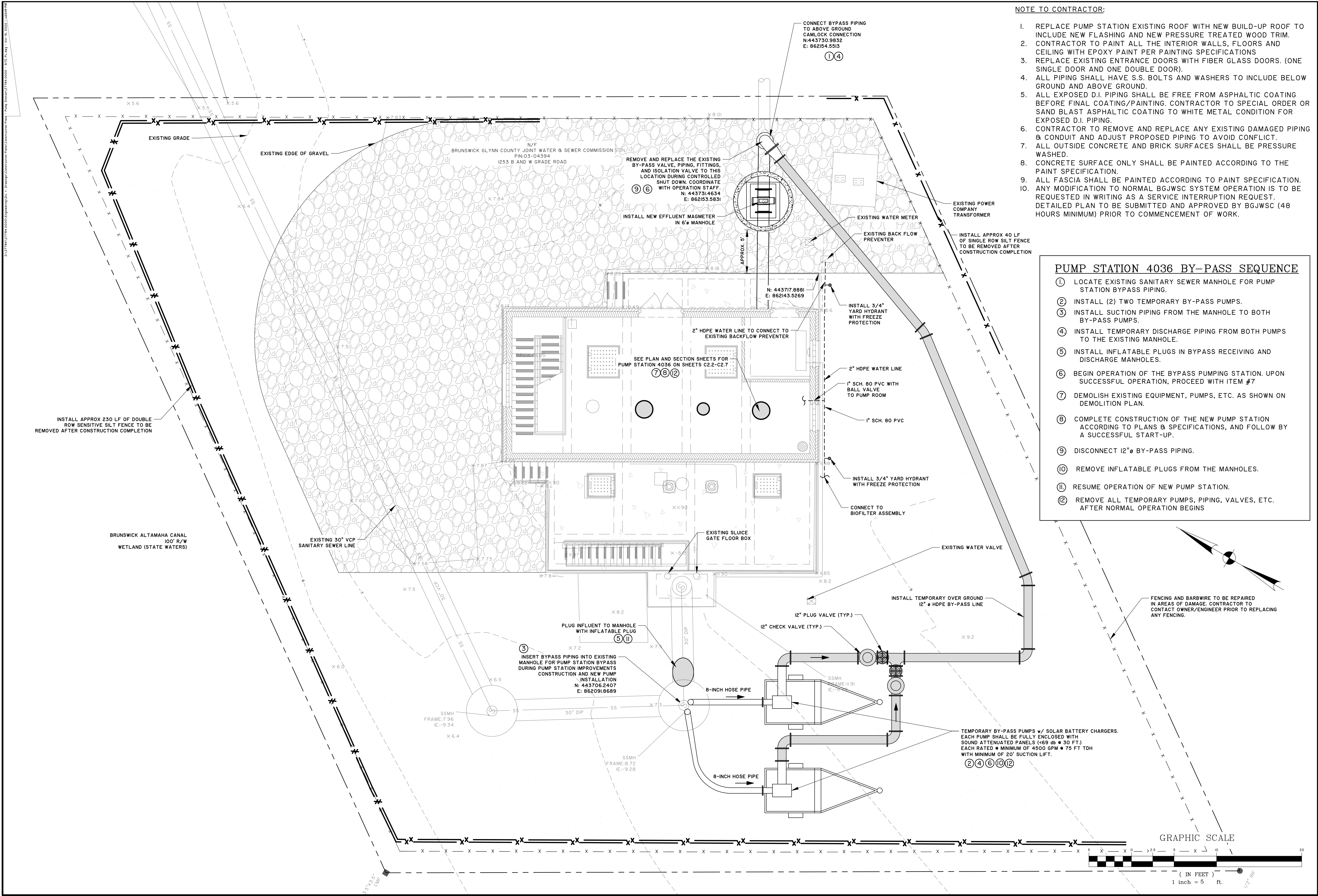
NO.	ISSUED FOR BID	REVISIONS	BY	DATE
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**BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION**  
BRUNSWICK, GA  
2016 SPL NORTH MAIN AND PH-I PUMP STATION IMPROVEMENTS  
**PS 4035 - ELEVATION FACING NORTH JOCKEY PUMP**

JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

**C1.7**

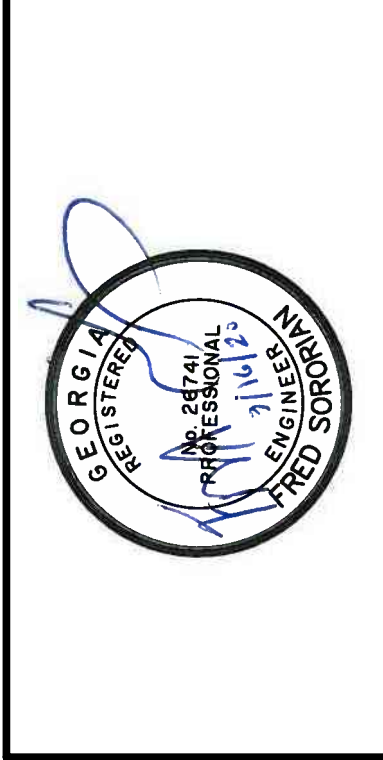


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**PUMP STATION 4036 BY-PASS SEQUENCE**

- 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 NORMAL OPERATION BEGINS



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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 4036 BYPASS PIPING**

JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1" = 5'

**C2.1**

BID SET - NOT FOR CONSTRUCTION



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

JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

**C2.2**

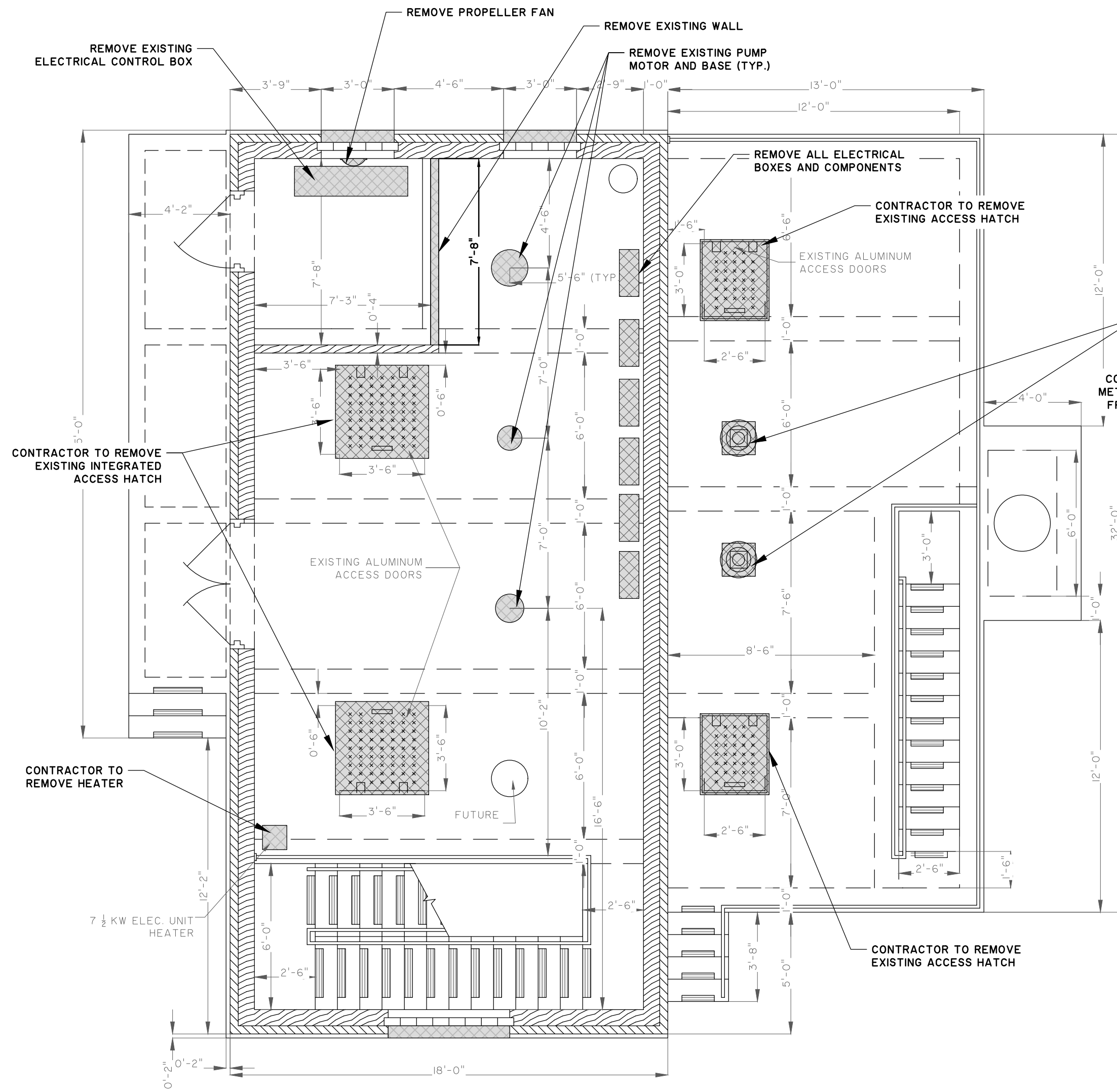
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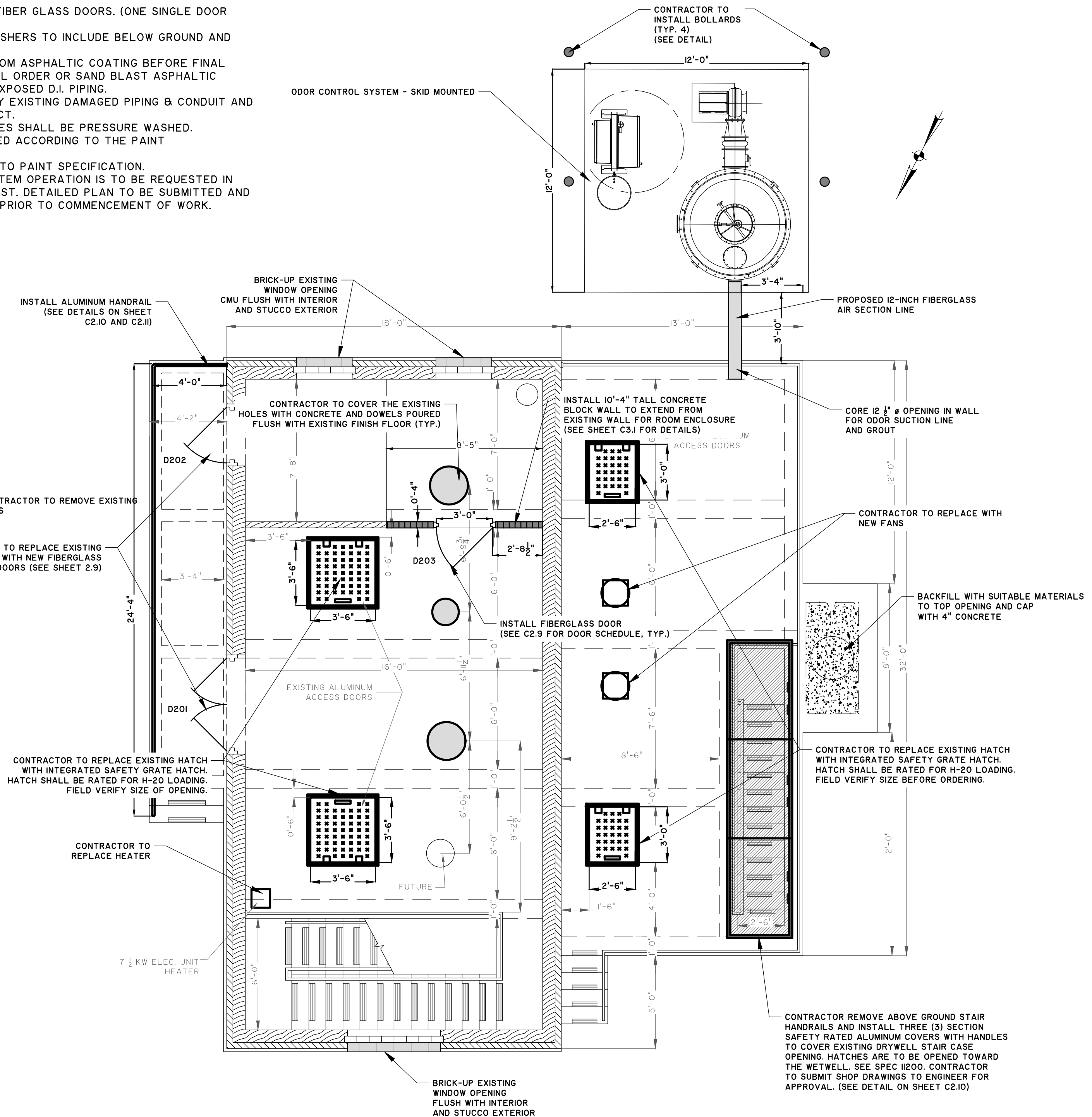
**LEGEND**

	TO BE REMOVED AND DISPOSED OFFSITE*
	PROPOSED NEW INSTALLATION

\*CONSUULT WITH OWNER BEFORE DISPOSAL



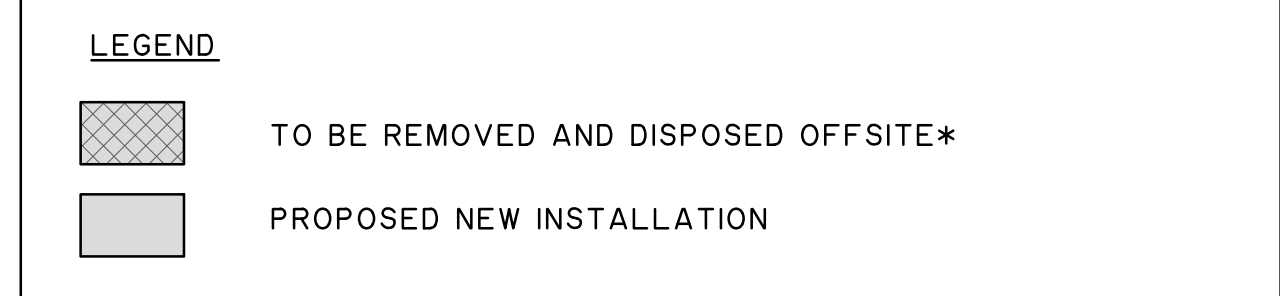
**1 EXISTING PUMP STATION DEMOLITION ENTRANCE FLOORPLAN**  
 C2.2 SCALE: 1/4" = 1'-0"



**2 MODIFICATION TO PUMP STATION ENTRANCE FLOORPLAN**  
 C2.2 SCALE: 1/4" = 1'-0"



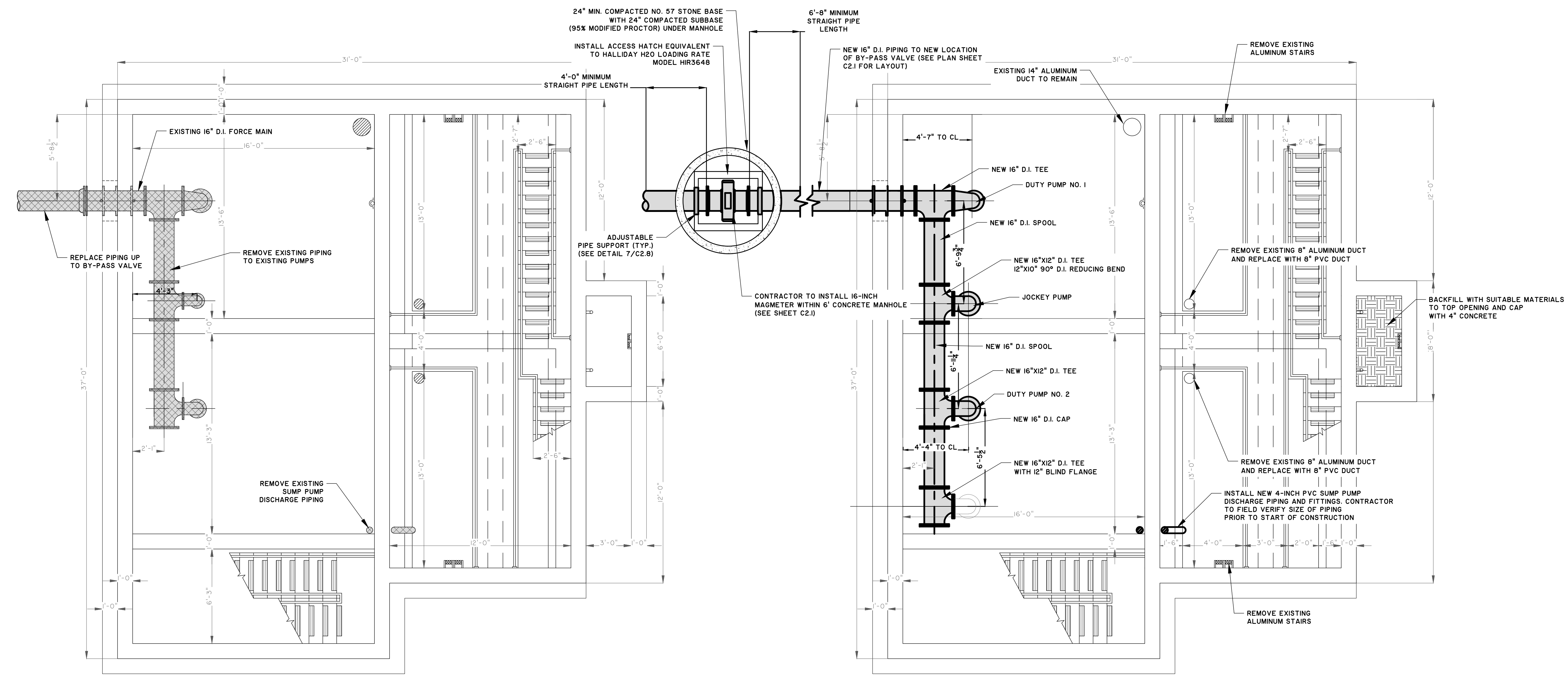
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\*CONSULT WITH OWNER BEFORE DISPOSAL

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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"



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


JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

**C2.3**

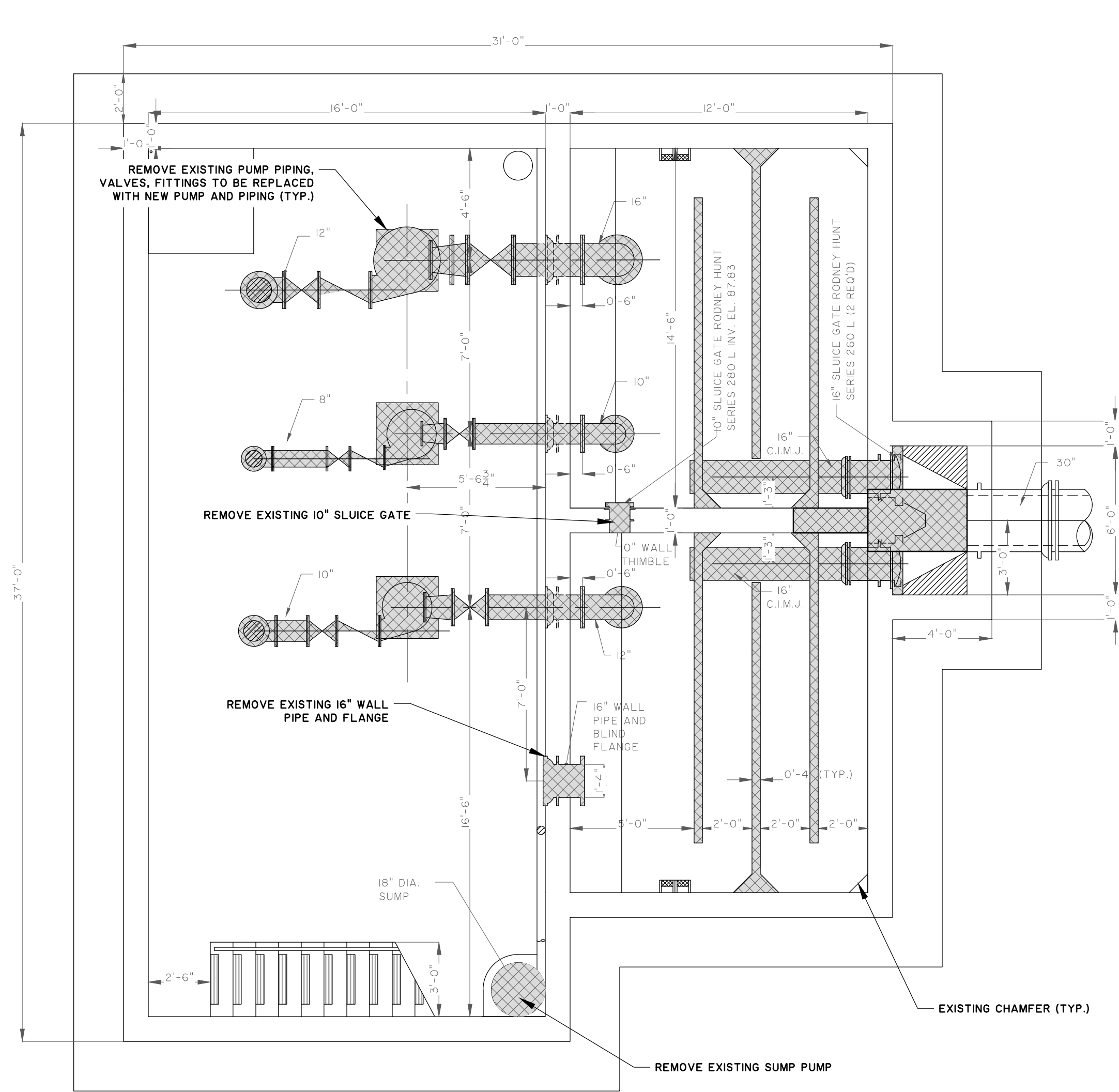
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**LEGEND**

 TO BE REMOVED AND DISPOSED OFFSITE\*

 PROPOSED NEW INSTALLATION

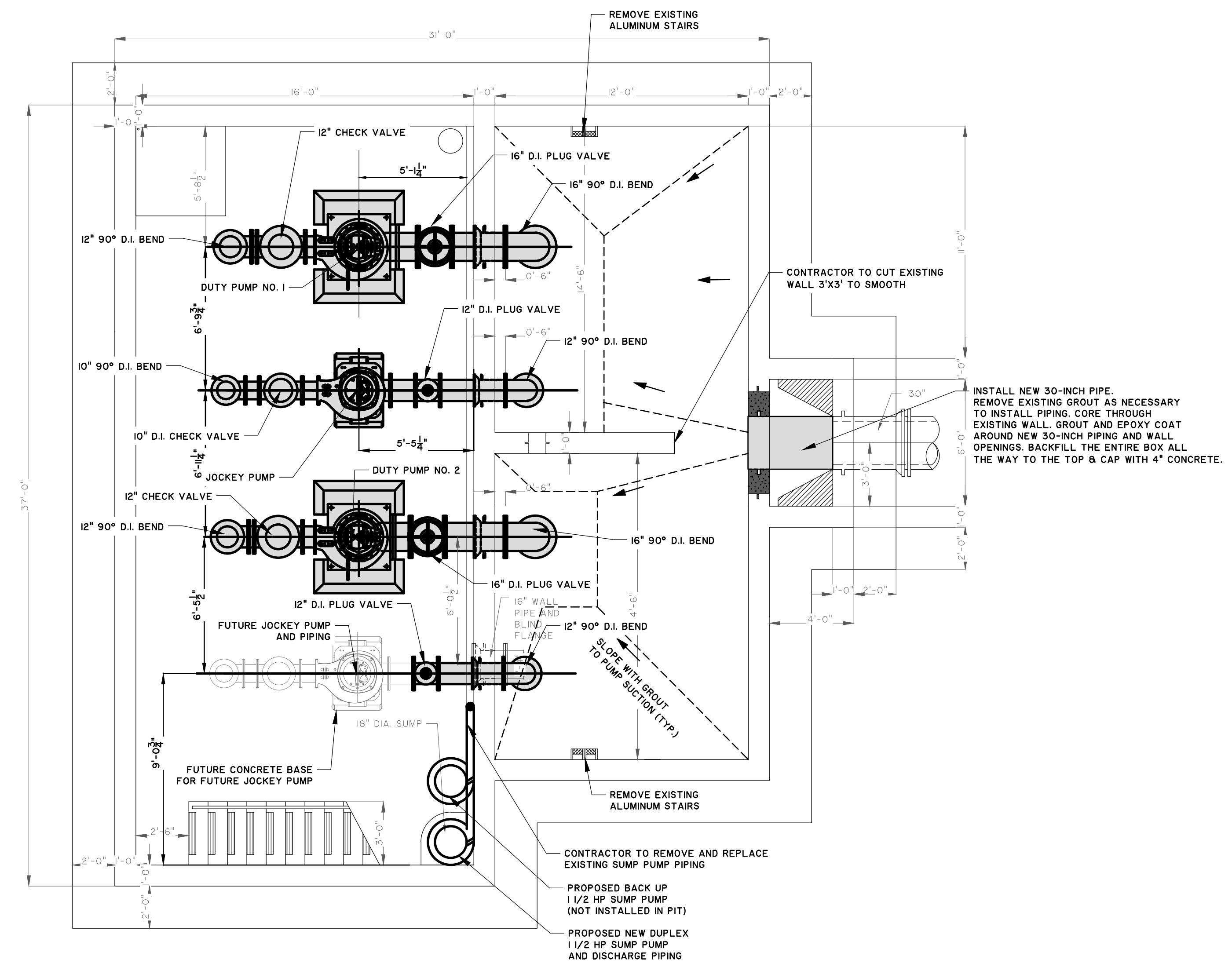
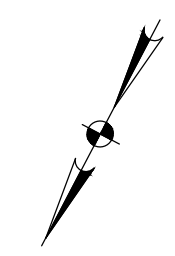
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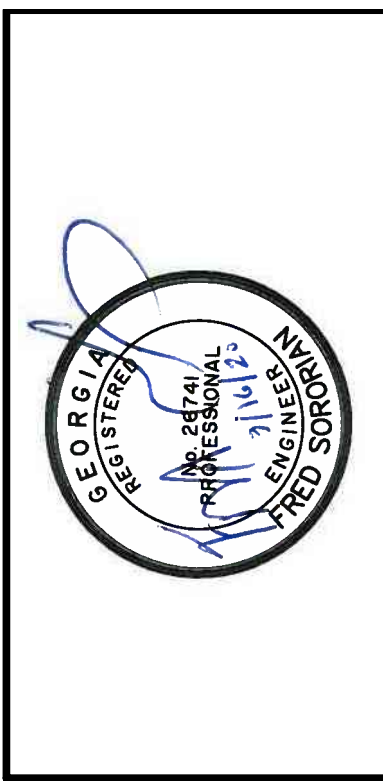
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SCALE: 1/4" = 1'-0"

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10. 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.



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



NO.	ISSUED FOR BID	REVISIONS	BY	DATE
0			CDR	10-19-2020

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**BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION**  
BRUNSWICK, GA  
206 SP. LOST NORTH MAINLAND PH-I PUMP STATION IMPROVEMENTS  
**PS 4036 - BOTTOM PLAN**

JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

**C2.4**

BID SET - NOT FOR CONSTRUCTION

2337784.0000 (Pump Station) - 10/19/2020 - 10/19/2020 - 10/19/2020 - 10/19/2020 - 10/19/2020 - 10/19/2020 - 10/19/2020 - 10/19/2020 - 10/19/2020 - 10/19/2020

**LEGEND**

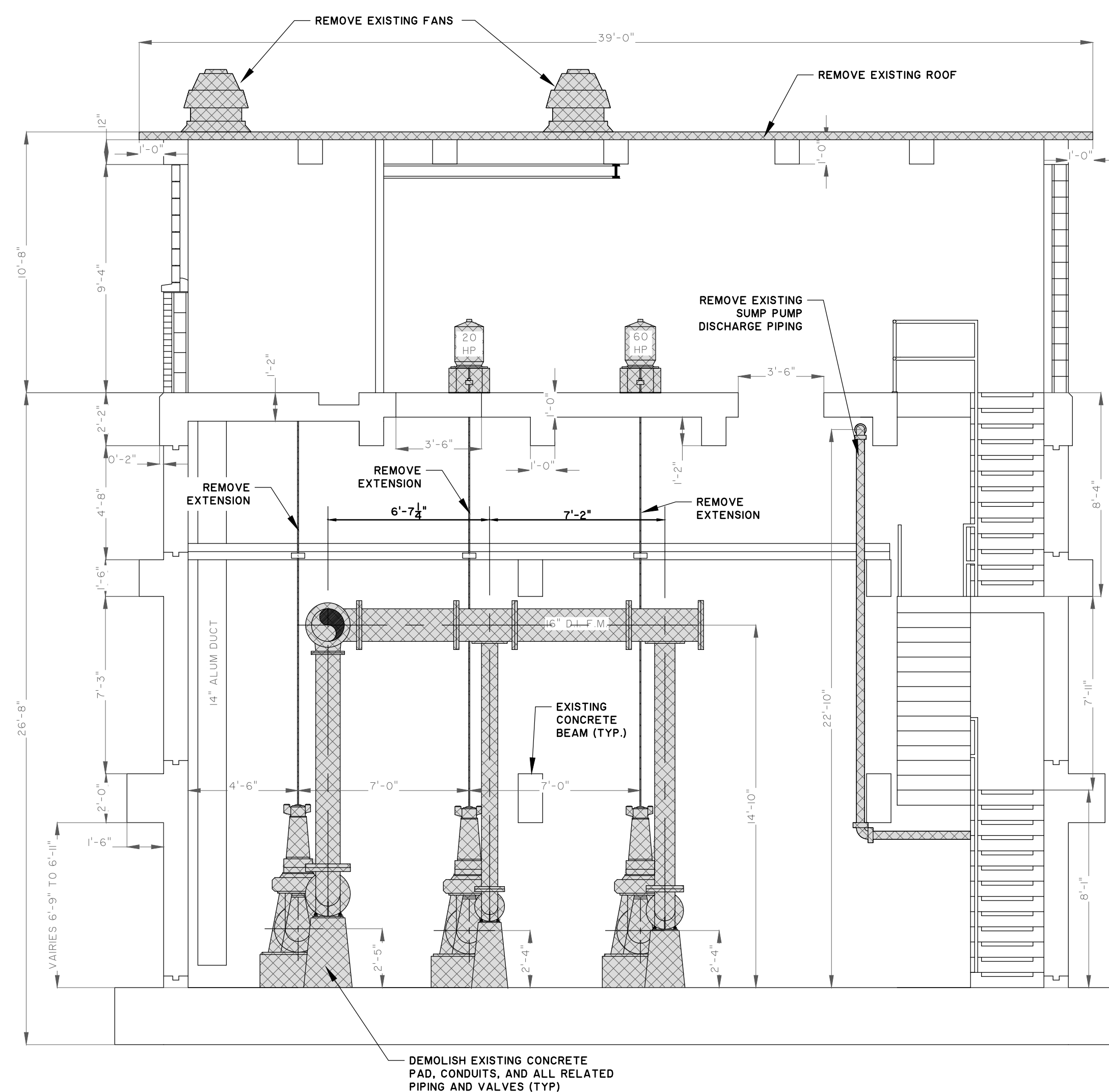
 TO BE REMOVED AND DISPOSED OFFSITE\*

 PROPOSED NEW INSTALLATION

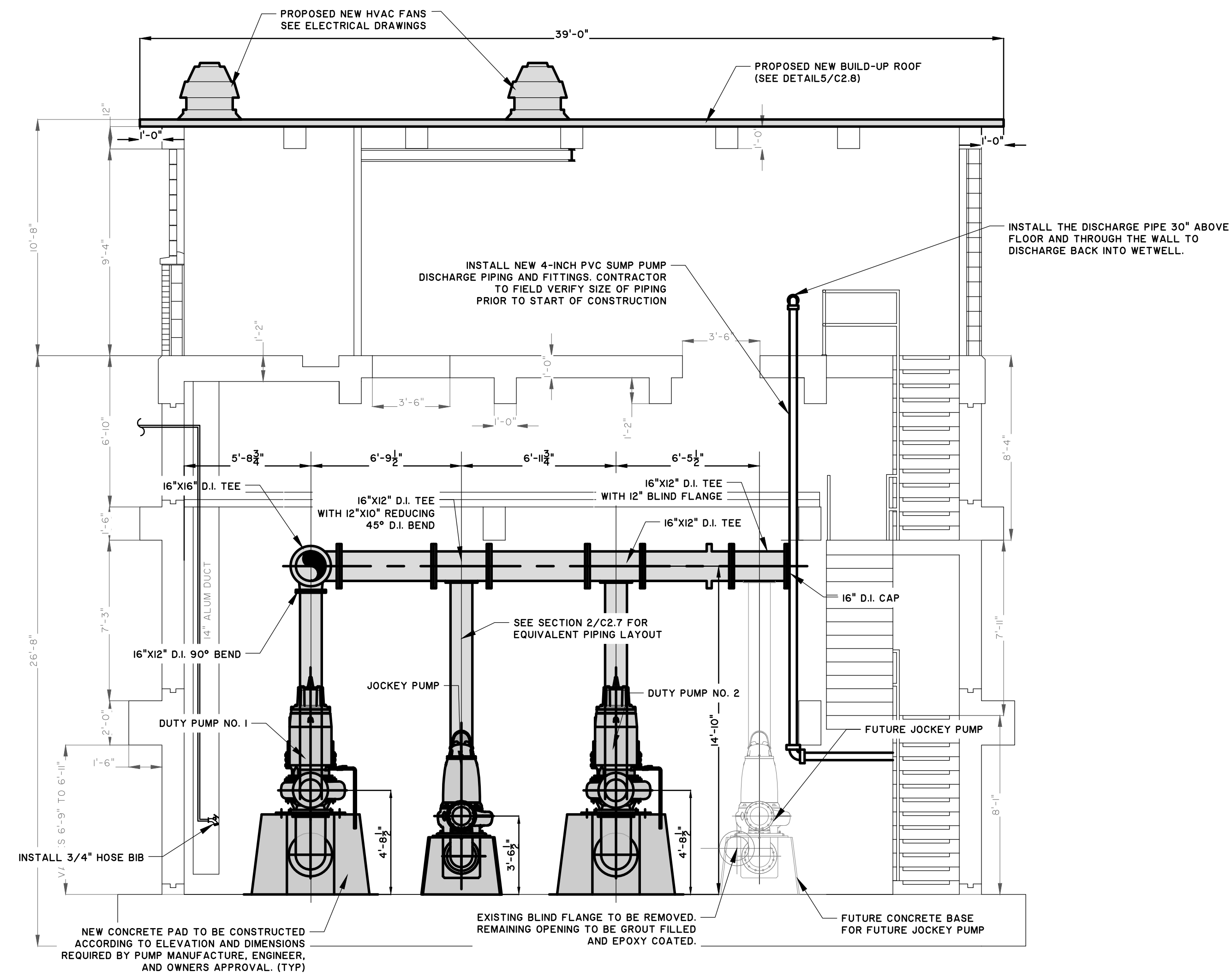
\*CONSTULT WITH OWNER BEFORE DISPOSAL

**NOTE TO CONTRACTOR:**

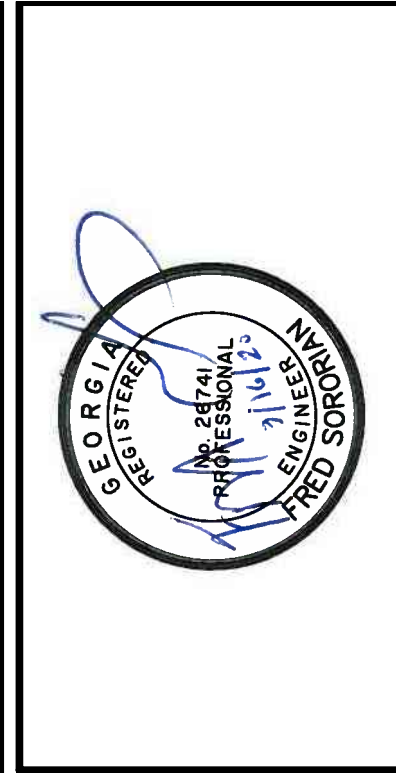
1. REPLACE PUMP STATION EXISTING ROOF WITH NEW BUILD-UP ROOF TO INCLUDE NEW FLASHING AND NEW PRESSURE TREATED WOOD TRIM.
2. CONTRACTOR TO PAINT ALL THE INTERIOR WALLS, FLOORS AND CEILING WITH EPOXY PAINT PER PAINTING SPECIFICATIONS
3. REPLACE EXISTING ENTRANCE DOORS WITH FIBER GLASS DOORS. (ONE SINGLE DOOR AND ONE DOUBLE DOOR).
4. ALL PIPING SHALL HAVE S.S. BOLTS AND WASHERS TO INCLUDE BELOW GROUND AND ABOVE GROUND.
5. 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.
6. CONTRACTOR TO REMOVE AND REPLACE ANY EXISTING DAMAGED PIPING & CONDUIT AND ADJUST PROPOSED PIPING TO AVOID CONFLICT.
7. ALL OUTSIDE CONCRETE AND BRICK SURFACES SHALL BE PRESSURE WASHED.
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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'



NO.	ISSUED FOR BID	REVISIONS	BY	DATE
0				10-19-2020

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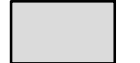
**BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION**  
BRUNSWICK, GA  
206 S. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS  
**PS 4036 - ELEVATION FACING SOUTHWEST**

JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

**C2.5**

**BID SET - NOT FOR CONSTRUCTION**

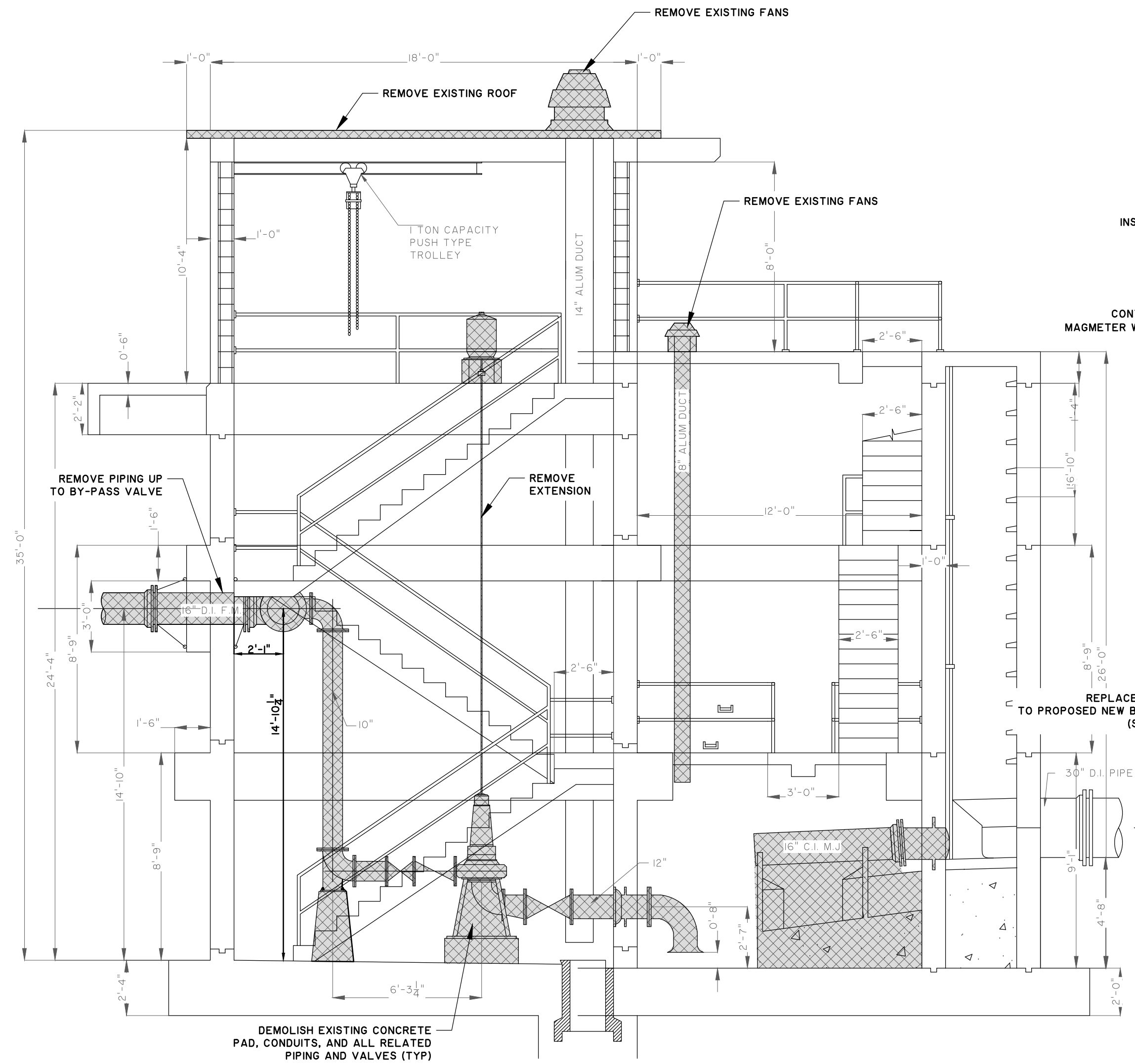
**LEGEND**

-  TO BE REMOVED AND DISPOSED OFFSITE\*
-  PROPOSED NEW INSTALLATION

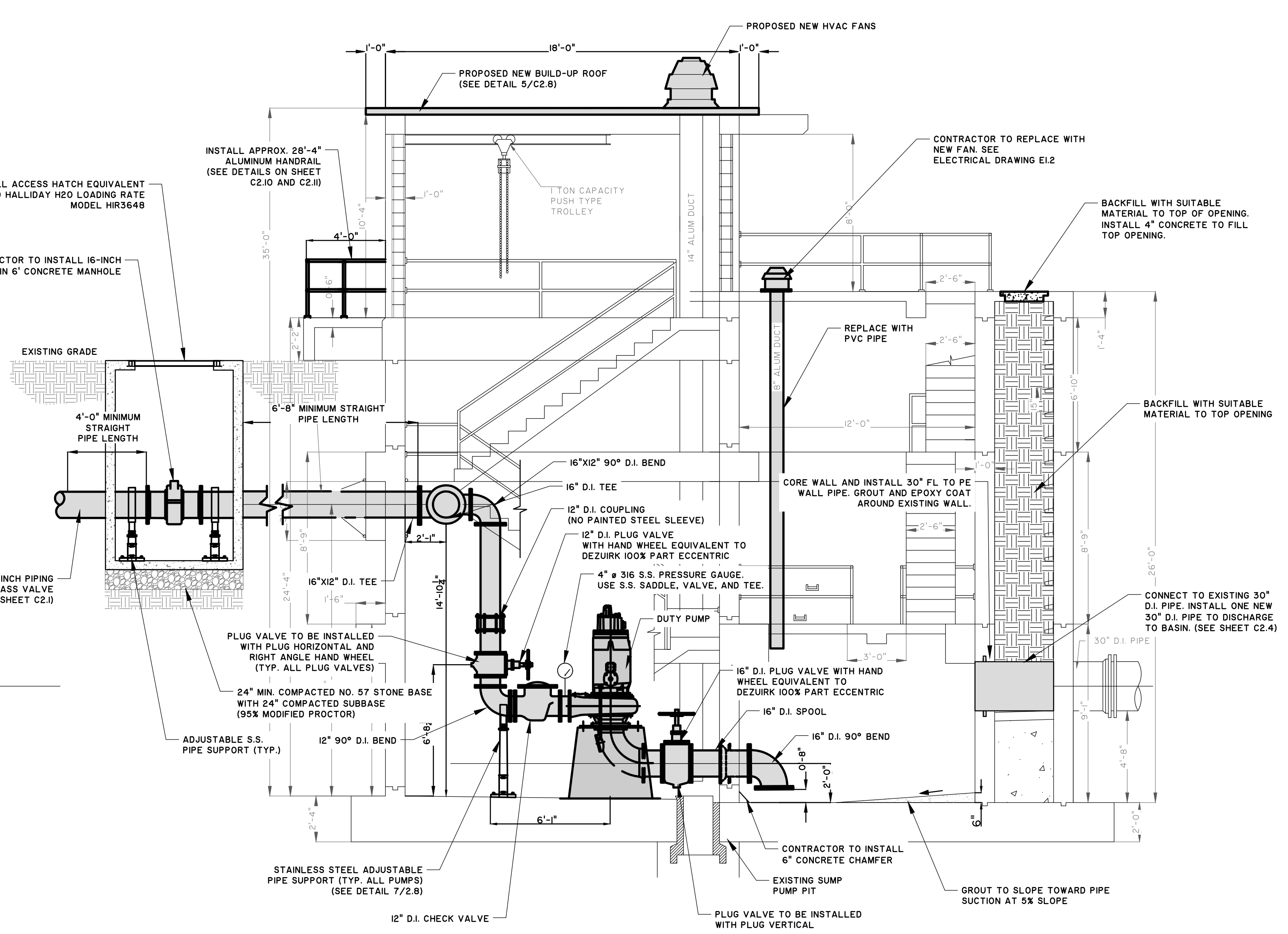
\*CONSULT WITH OWNER BEFORE DISPOSAL

**NOTE TO CONTRACTOR:**

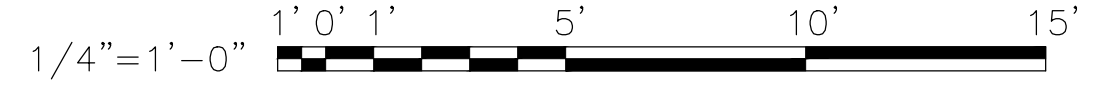
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1 EXISTING PUMP STATION DEMOLITION ELEVATION FACING SOUTHEAST  
SCALE: 1/4" = 1'-0"



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



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

NO.	ISSUED FOR BID	REVISIONS	BY	DATE
0				10-19-2020

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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:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	1/4" = 1'

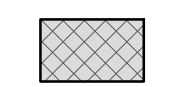

**C2.6**

BID SET - NOT FOR CONSTRUCTION



2337784.27784.0000 (Impvements) (D) - Demolition/Construction Pump Construction Plans - Pump Station/37784.0000 - PROPOSED PL C2.7 - Feb 27, 2020 - 13:54 PM

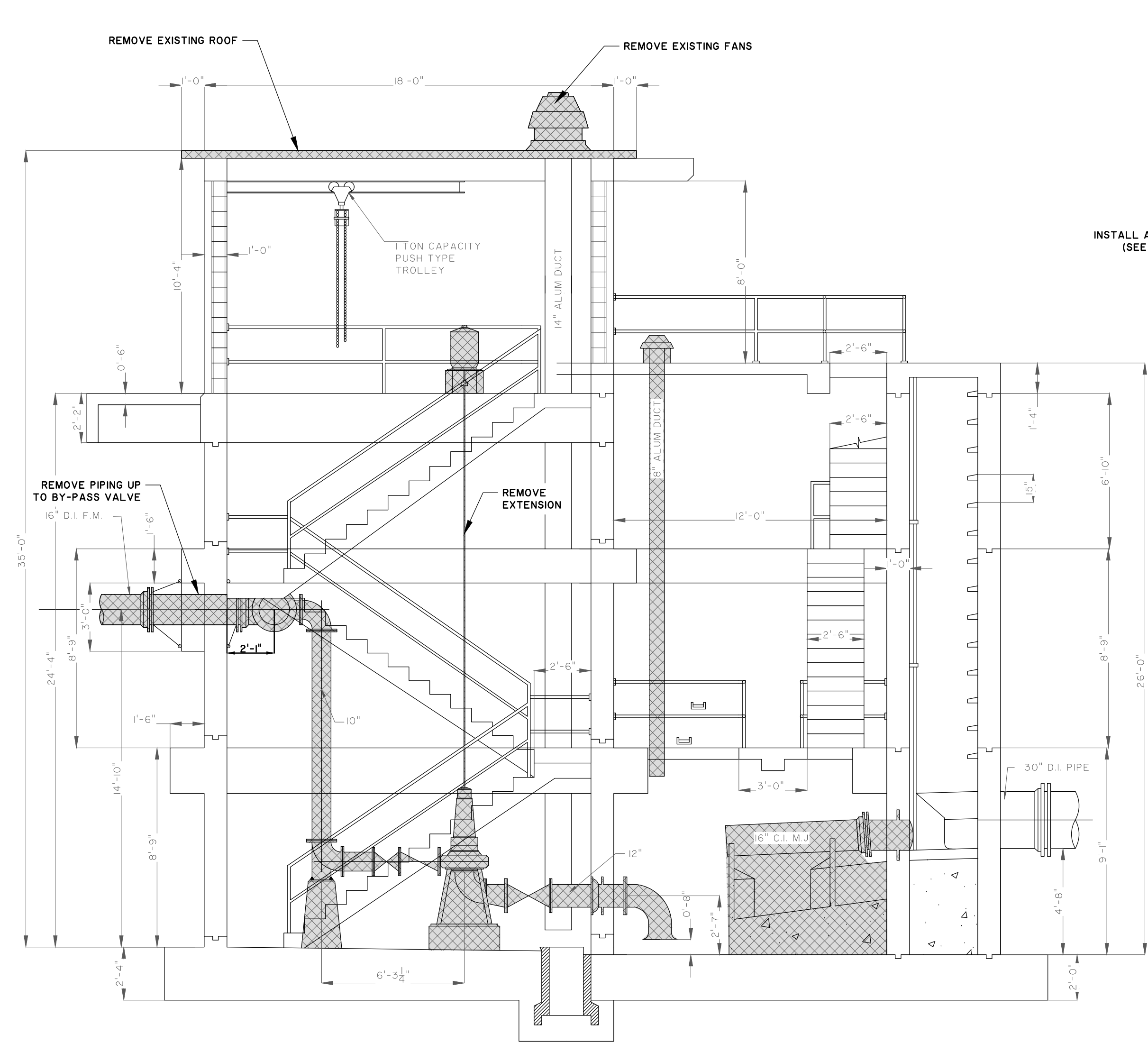
**LEGEND**

	TO BE REMOVED AND DISPOSED OFFSITE*
	PROPOSED NEW INSTALLATION

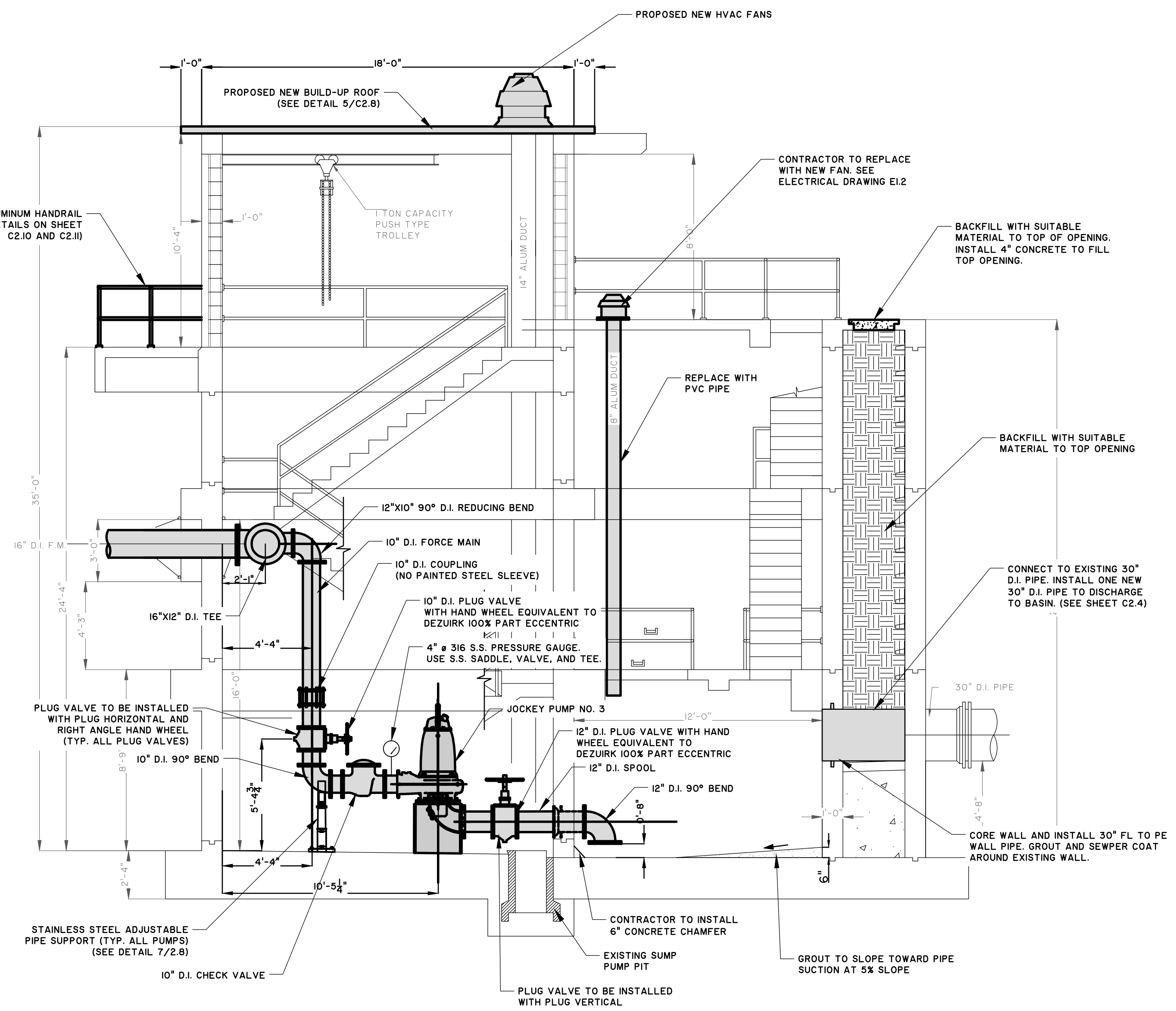
\*CONSULT WITH OWNER BEFORE DISPOSAL

**NOTE TO CONTRACTOR:**

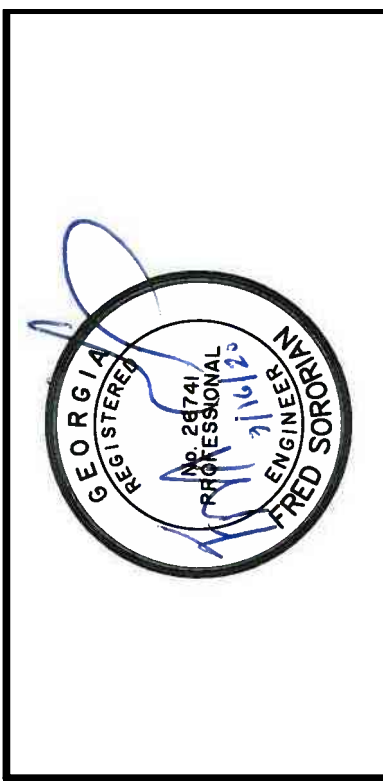
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**1 EXISTING PUMP STATION DEMOLITION ELEVATION FACING SOUTHEAST JOCKEY PUMP**  
SCALE: 1/4" = 1'



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



NO.	ISSUED FOR BID	REVISIONS	BY	DATE
0			CDR	10-19-2020

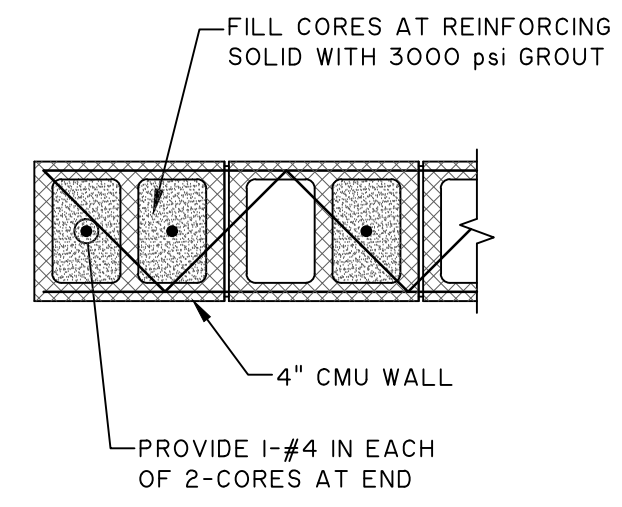
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**BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION**  
 BRUNSWICK, GA  
 206 SP. LOST NORTH MAINLAND PH-I PUMP STATION IMPROVEMENTS  
**PS 4036 - ELEVATION FACING SOUTHEAST JOCKEY PUMP**

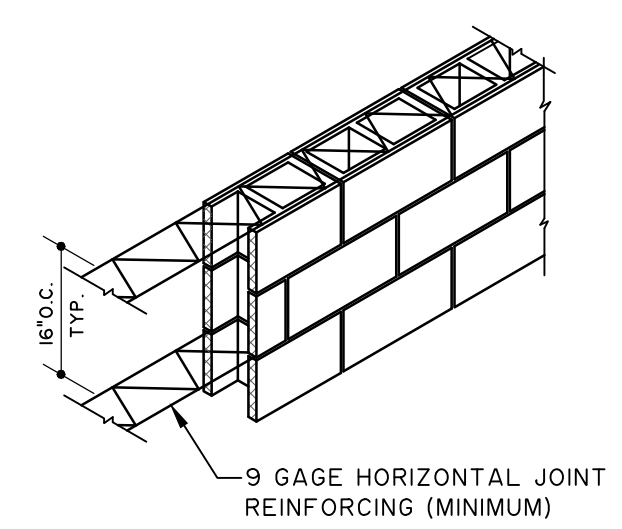
JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	3/8" = 1'

**C2.7**

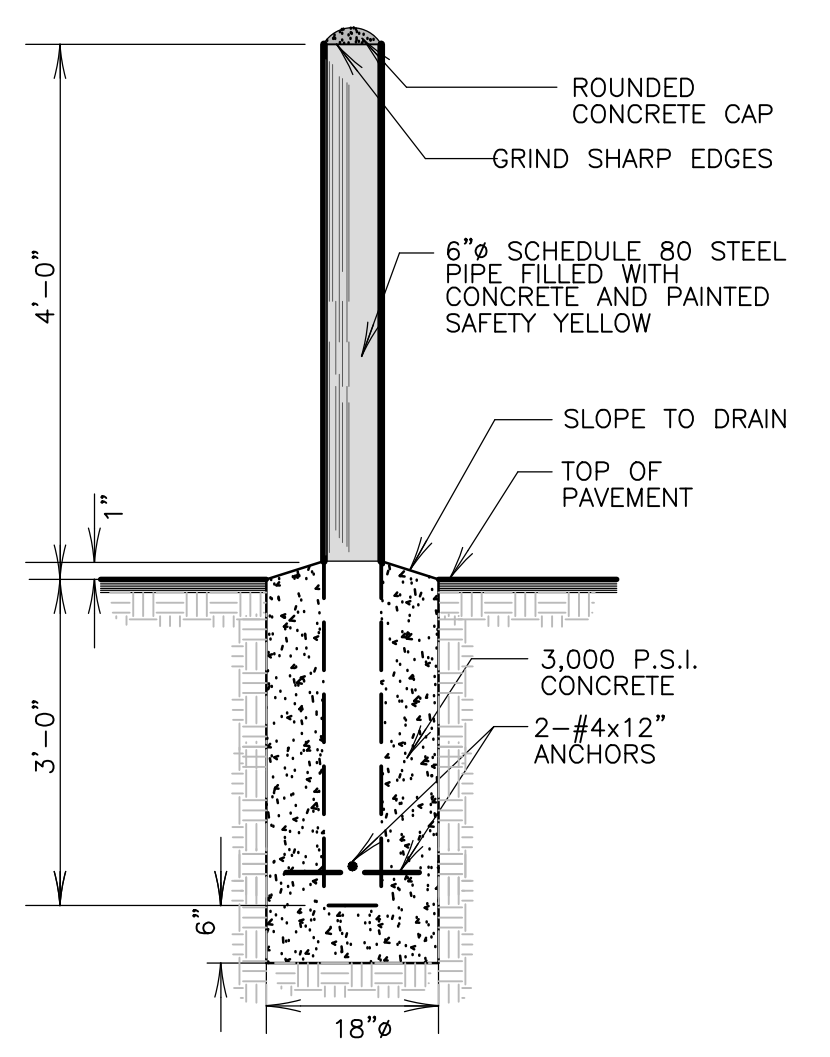
**BID SET - NOT FOR CONSTRUCTION**



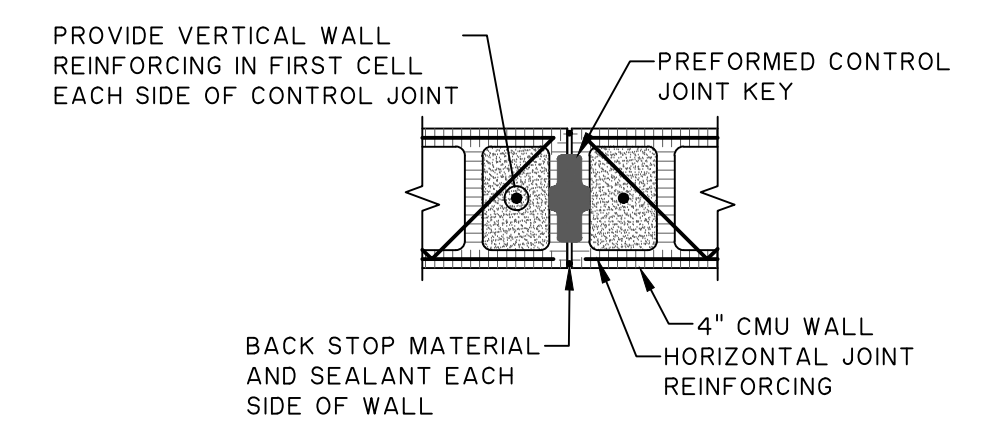
**1 CMU REINFORCING FOR WALL**  
SCALE: N.T.S.



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

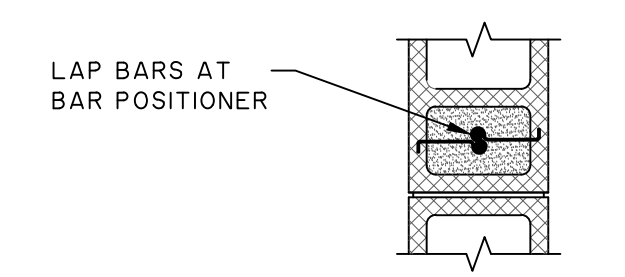


**STEEL BOLLARD DETAIL**  
SCALE: NONE



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.

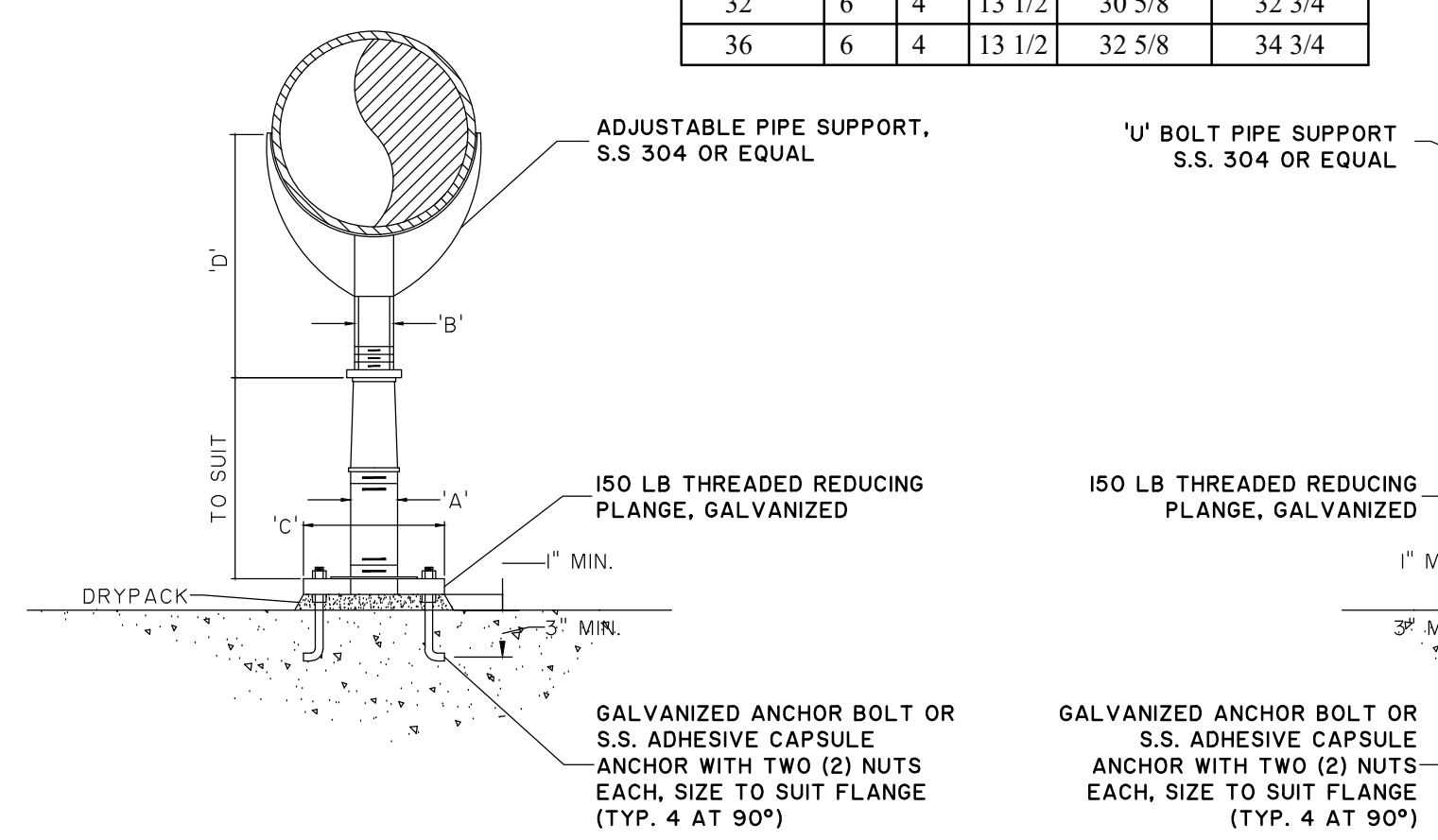
**2 TYP. CMU CONTROL JOINT**  
SCALE: N.T.S.



**SECTION**

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	

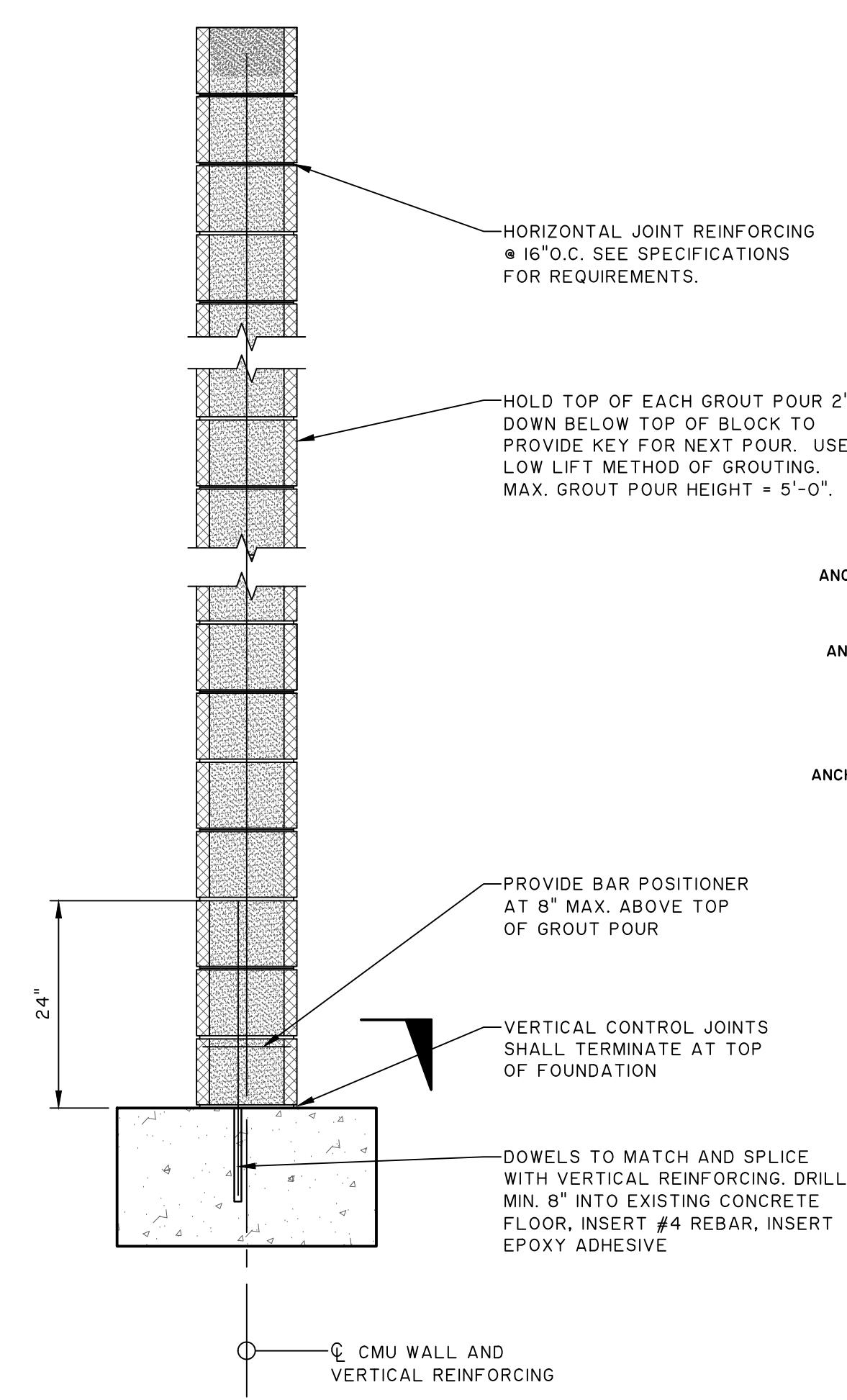


**7 ADJUSTABLE S.S. PIPE SUPPORT DETAIL**  
SCALE: N.T.S.

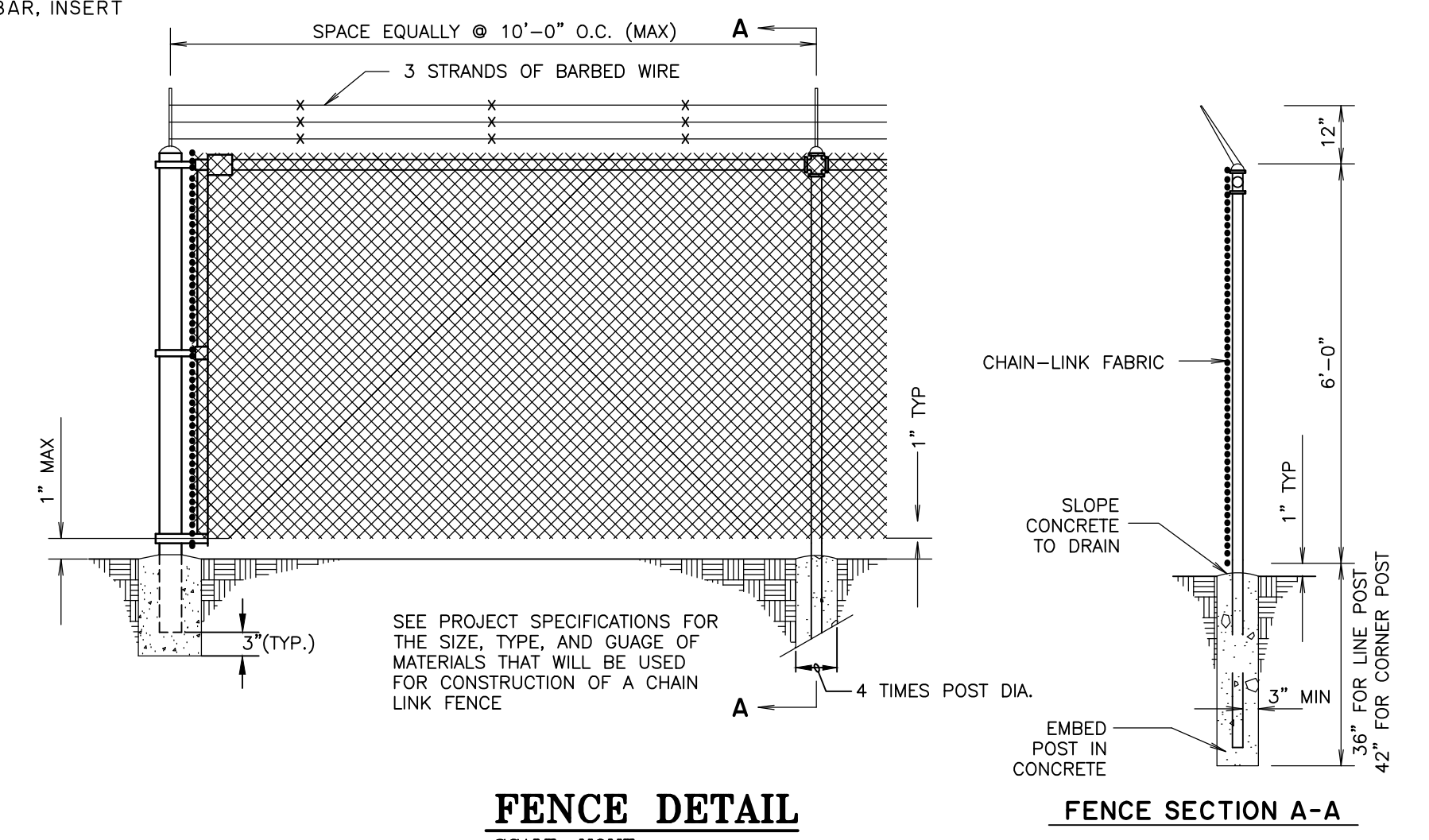
NOTES:  
ANCHOR BOLT SHOULD BE THE STAINLESS STEEL SIMPSON 1/2" X 3" EMBEDMENT (ASSUMING 4" MIN. SLAB) STRONG-TIE STRONG-BOLT 2 WEDGE ANCHOR OR EQUIVALENT.

**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.

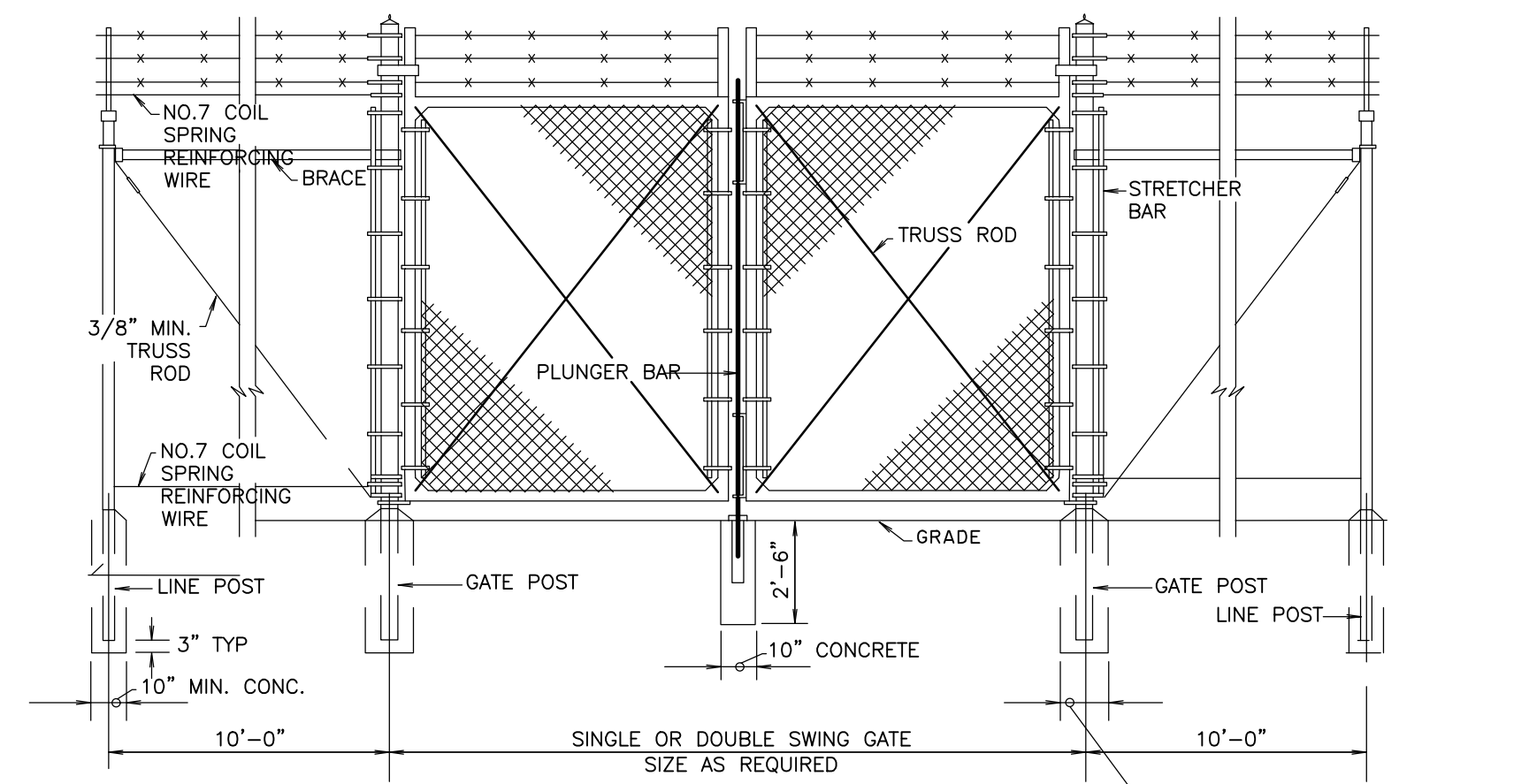


**5 BUILD-UP ROOF SECTION**  
SCALE: N.T.S.



**FENCE DETAIL**  
SCALE: NONE

**FENCE SECTION A-A**



**GATE DETAIL**  
SCALE: NONE



NO.	ISSUED FOR BID	REVISIONS	BY	DATE
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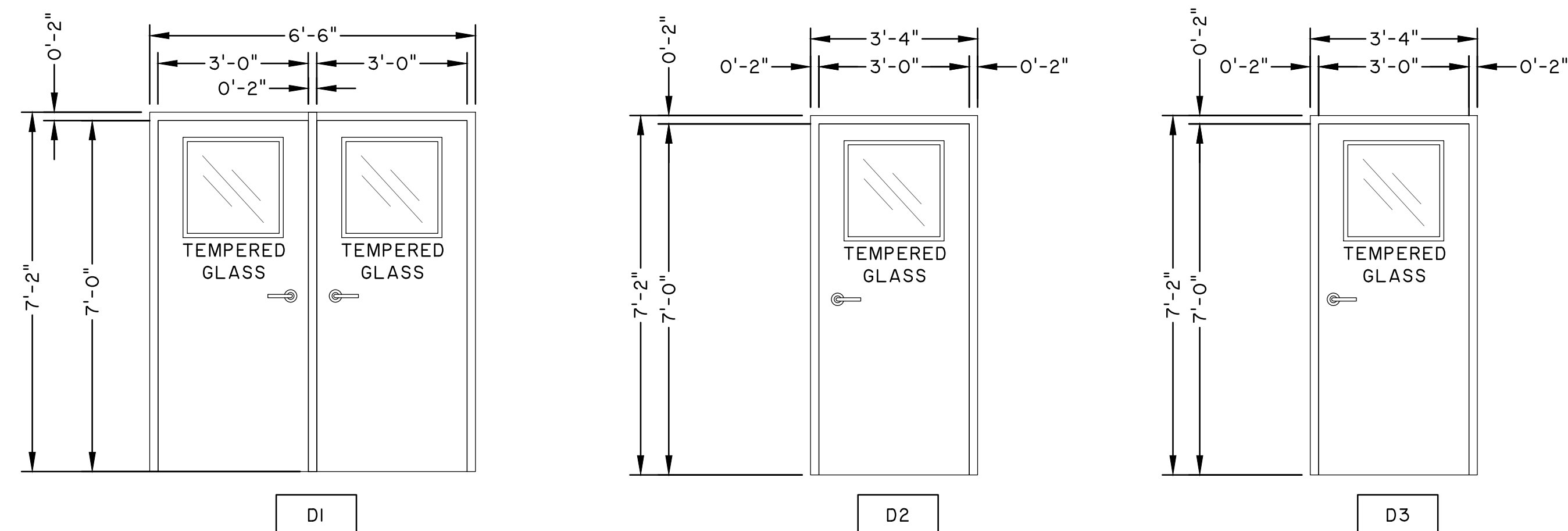
**BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION**  
BRUNSWICK, GA  
206 SP. LOST NORTH MAINLAND PPH-PUMP STATION IMPROVEMENTS  
PUMP STATION BUILDING DETAILS

JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	NONE

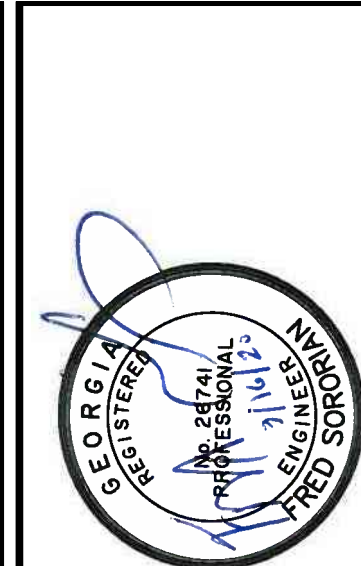
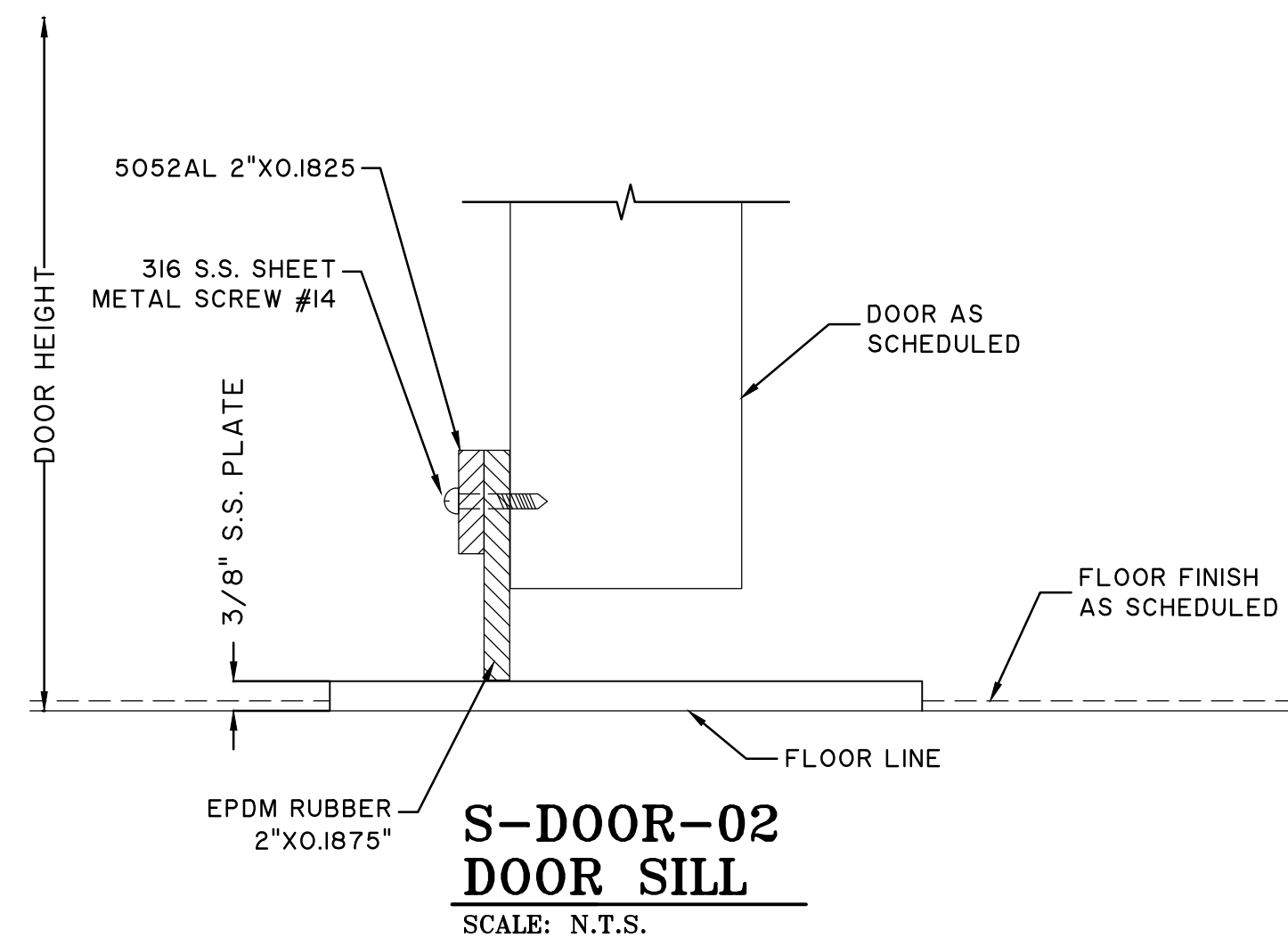
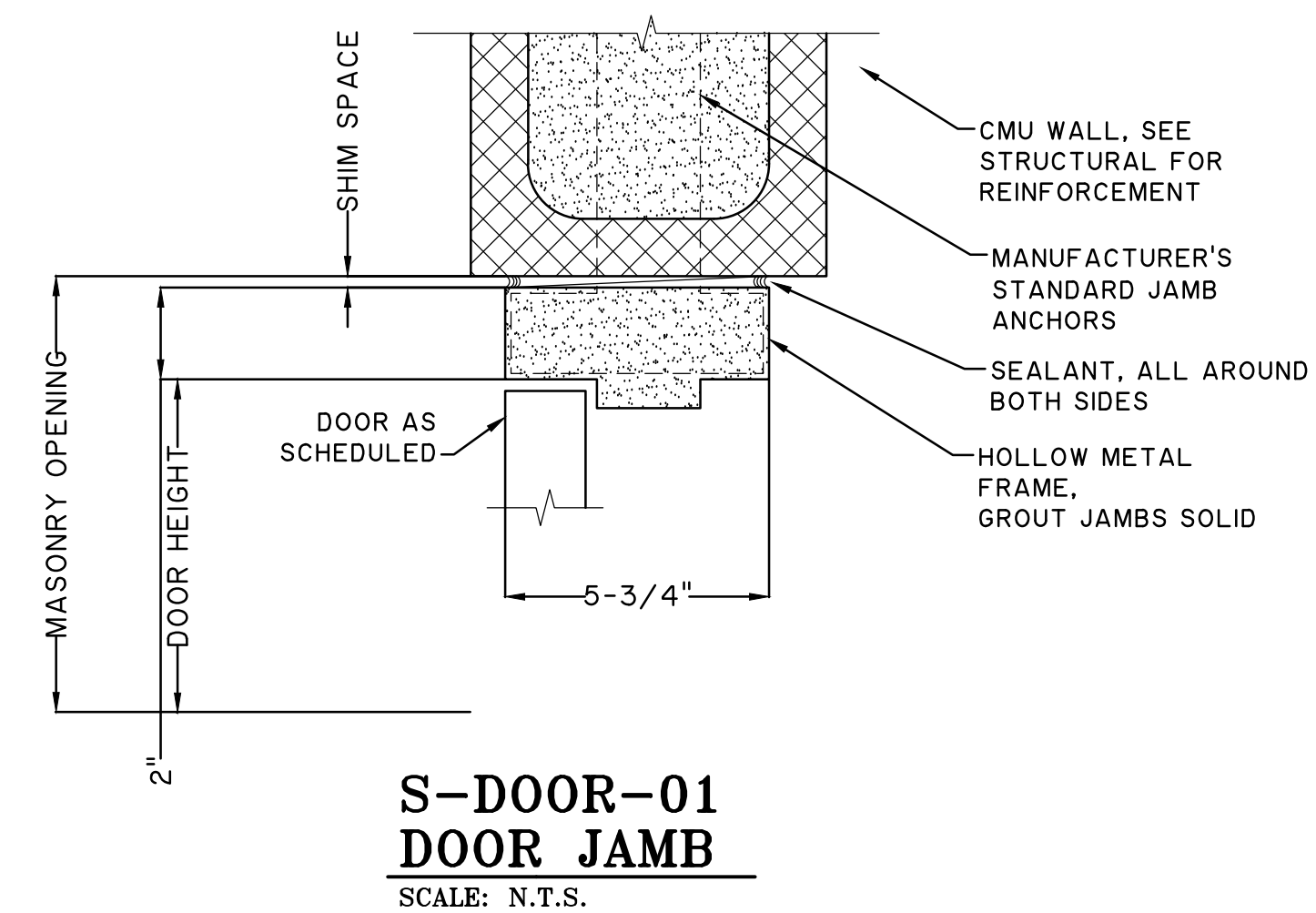
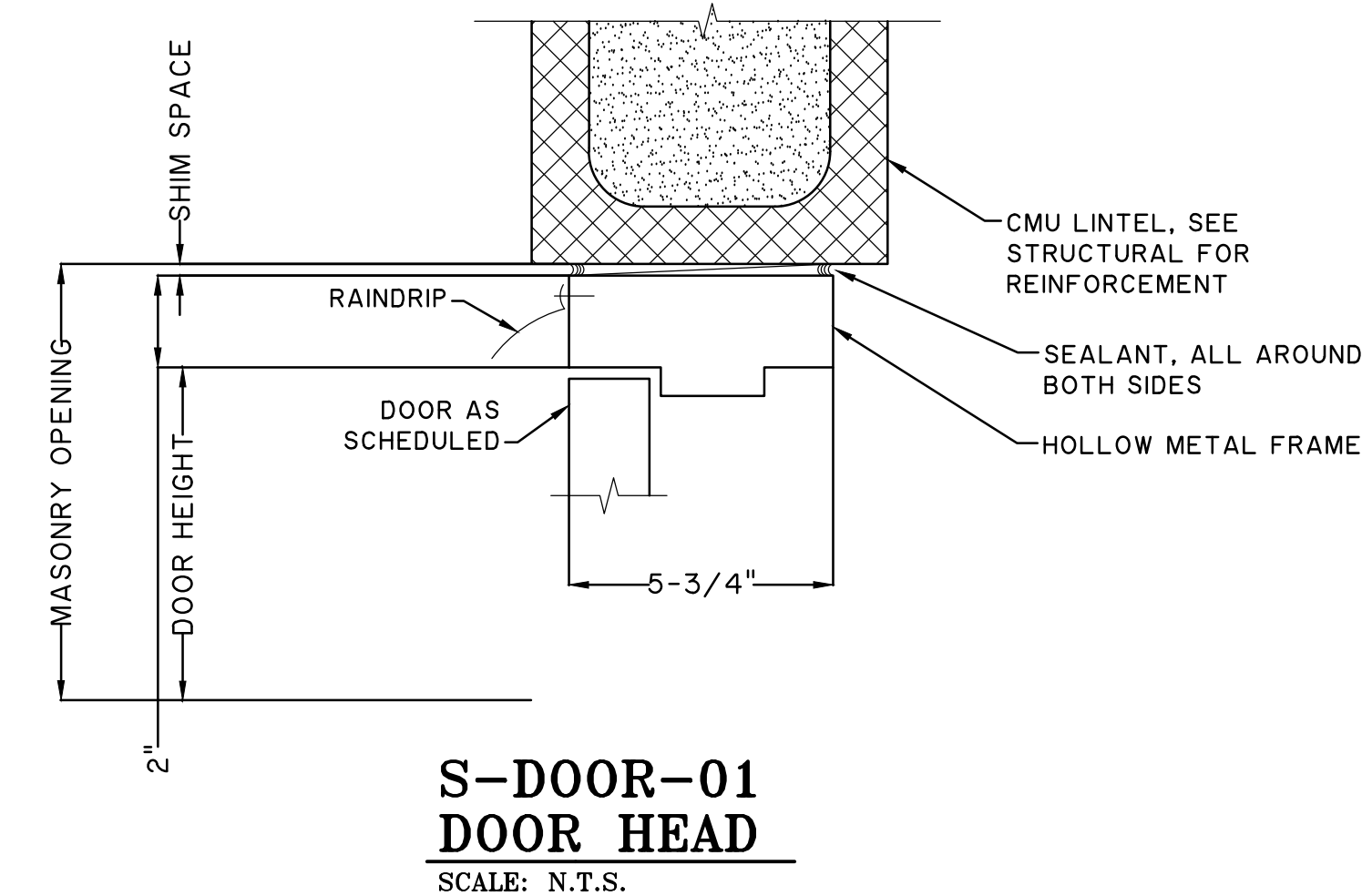
**C2.8**

BID SET - NOT FOR CONSTRUCTION

23/7/2020 11:58:00 AM



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	—



BID SET - NOT FOR CONSTRUCTION

NO.	ISSUED FOR BID	REVISIONS	BY	DATE
0			CDR	10-19-2020

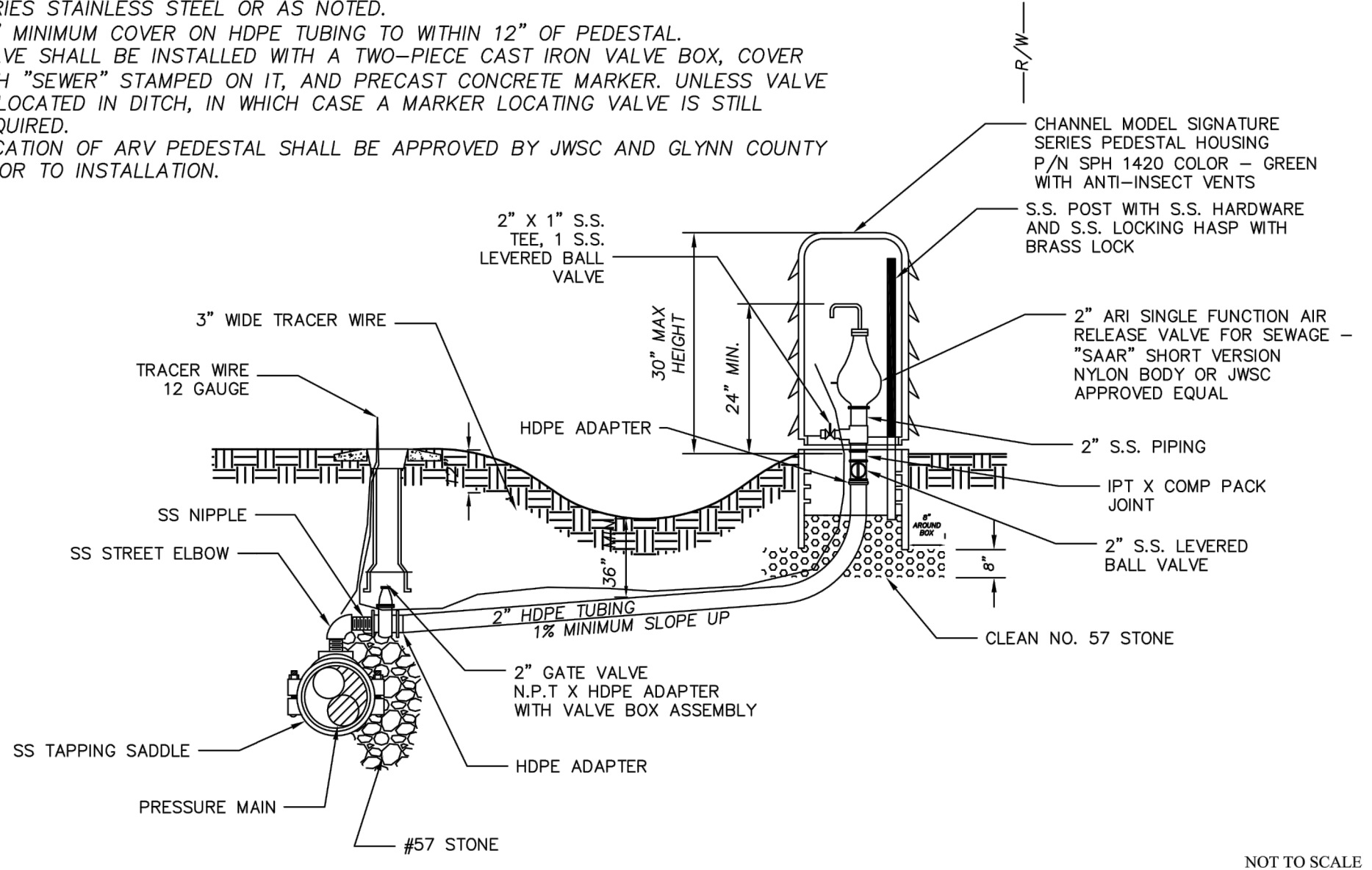
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**BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION**  
 BRUNSWICK, GA  
 2016 SPLOST NORTH MAIN AND PH-II PUMP STATION IMPROVEMENTS  
 PUMP STATION BUILDING DOOR SCHEDULE

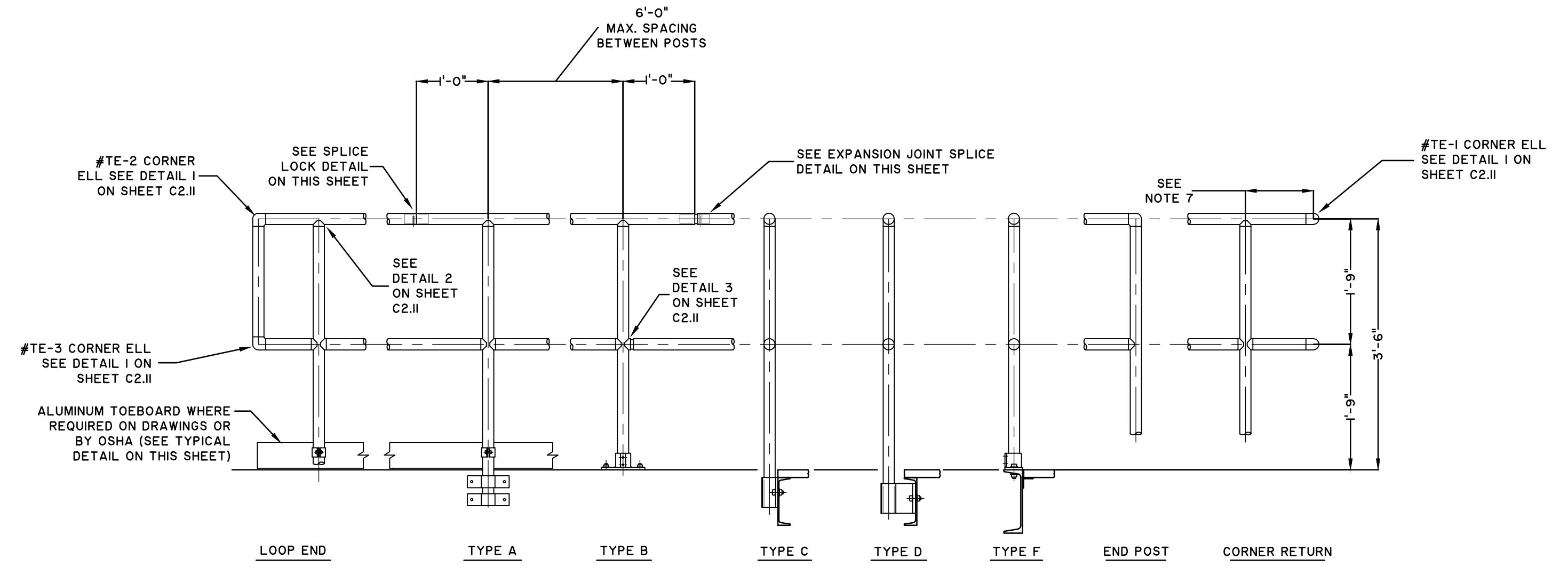
JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	N.T.S.

**C2.9**

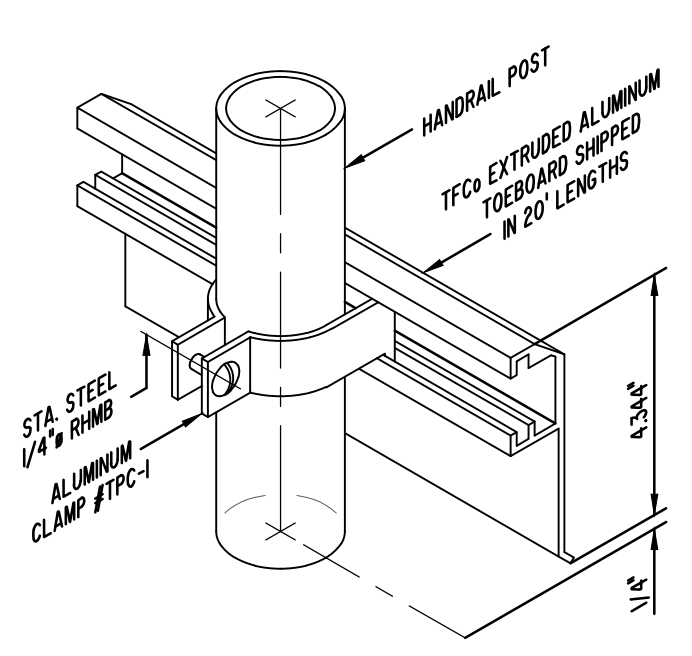
- NOTES:
1. PIPING, NIPPLES, PLUGS & BALL VALVES AND TAPPING SADDLES TO BE 316 SERIES STAINLESS STEEL OR AS NOTED.
  2. 3/8" MINIMUM COVER ON HDPE TUBING TO WITHIN 12" OF PEDESTAL.
  3. VALVE SHALL BE INSTALLED WITH A TWO-PIECE CAST IRON VALVE BOX, COVER WITH "SEWER" STAMPED ON IT, AND PRECAST CONCRETE MARKER. UNLESS VALVE IS LOCATED IN DITCH, IN WHICH CASE A MARKER LOCATING VALVE IS STILL REQUIRED.
  4. LOCATION OF ARV PEDESTAL SHALL BE APPROVED BY JWSC AND GLYNN COUNTY PRIOR TO INSTALLATION.



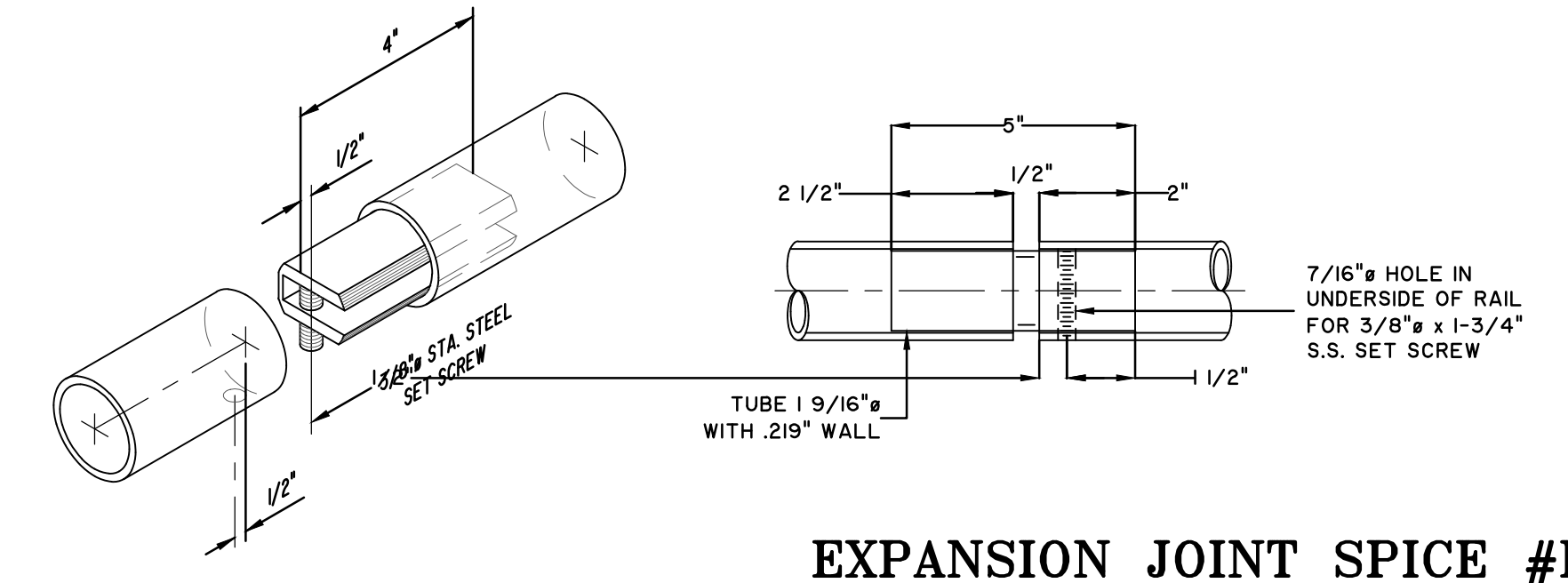
	<b>BRUNSWICK-GLYNN COUNTY JOINT WATER &amp; SEWER COMMISSION</b> 1703 Gloucester Street Brunswick, Georgia 31520 Phone: (912) 261-7110 Fax: (912) 261-7178 Website: www.bgjwsc.org	<b>SEWER AIR RELEASE VALVE PEDESTAL ASSEMBLY DETAIL</b> JWSC STANDARD DETAIL 4-4A Date: JANUARY 2017
	NOT TO SCALE	



**TYPICAL HANDRAIL**  
SCALE: NTS

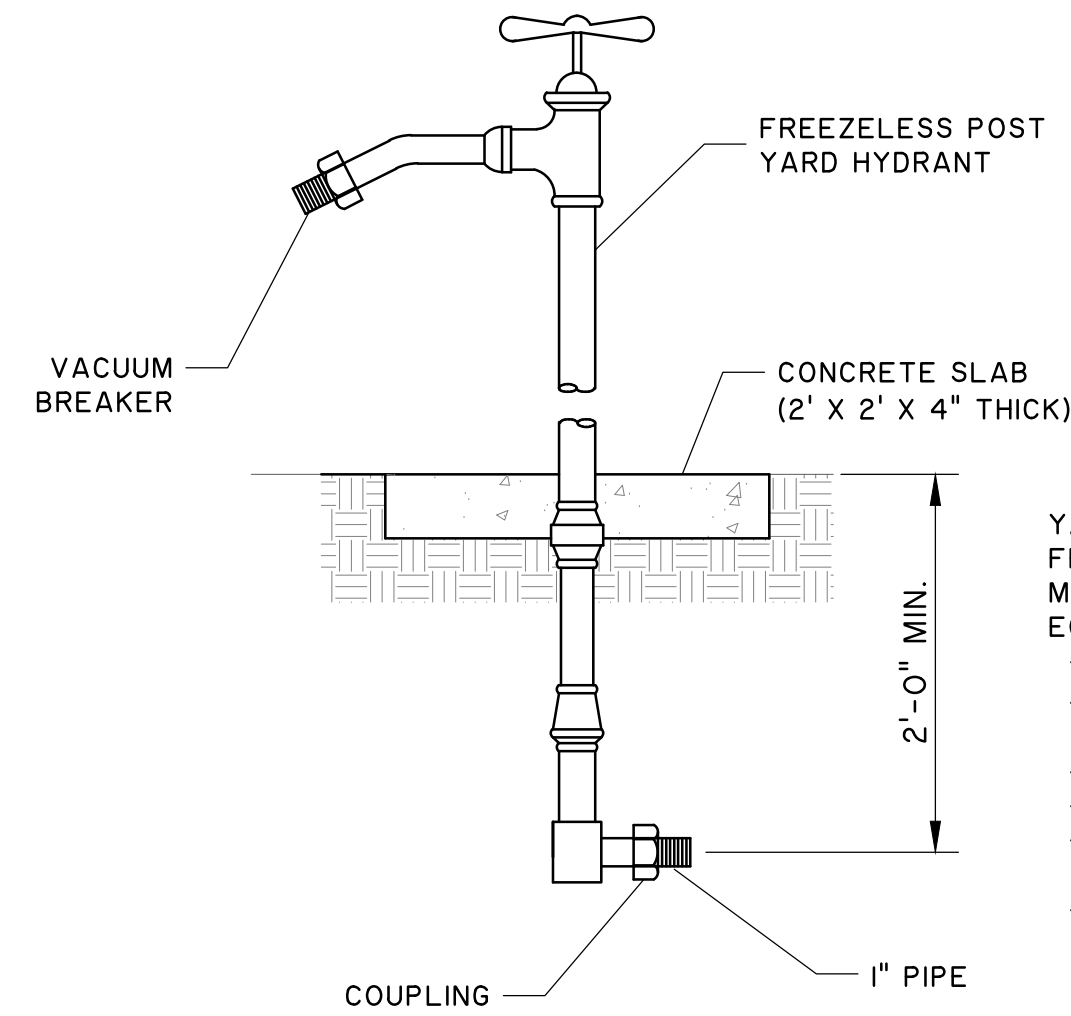


**TOEBOARD DETAILS**  
SCALE: NTS



**SPLICE LOCK #SL-1**  
SCALE: NTS

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



- YARD HYDRANT SHALL BE HIGH CAPACITY FREEZE PROOF TYPE HYDRANTS AS MERRILL MANUFACTURING C-1000 SERIES OR APPROVED EQUAL WITH THE FOLLOWING FEATURES:
- INLET - 1" NPT IN ON LEAD BRASS CASTING
  - OUTLET - 3/4" NO-LEAD HOSE THREAD AND OUTSIDE OF NOZZLE HAS 1" PIPE THREAD
  - STAINLESS STEEL OPERATING ROD
  - TEFLON PACKING
  - STAINLESS STEEL MOLDED RUBBER PLUNGER OF SELF-LUBRICATING MATERIAL
  - 1" NO-LEAD GALVANIZED PIPE

**YARD HYDRANT DETAIL**  
SCALE: N.T.S.

1  
C2.10

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

SCALE: NOT TO SCALE

- OSHA DESIGN SPECIFICATIONS
1. 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.
  2. HANDRAILS SHALL BE DESIGNED TO WITHSTAND 200# CONCENTRATED LOAD APPLIED IN ANY DIRECTION TO THE TOP RAIL.
  3. 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.
  4. 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 6105-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.
  5. 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.
  6. 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.
  7. 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.
  8. 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.
  9. 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.
  11. 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.
  12. 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.

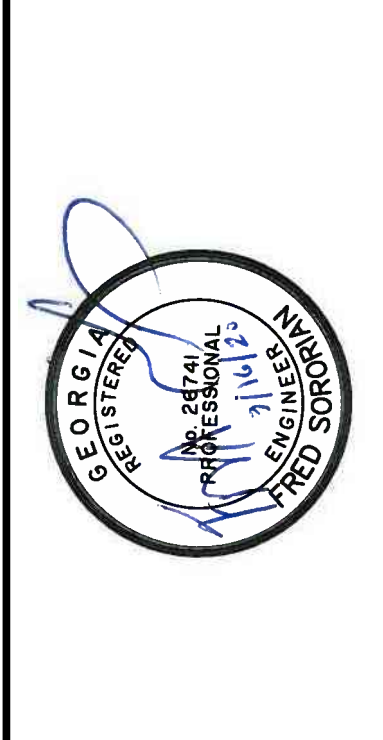
**BRUNSWICK-GLYNN JOINT WATER AND SEWER COMMISSION**  
BRUNSWICK, GA  
2016 SPOST NORTH MAINLAND PH-II PUMP STATION IMPROVEMENTS  
PUMP STATION HANDRAIL DETAILS

JOB NO: J-27784.0000  
DATE: 10-19-2020  
DRAWN: CDR  
DESIGNED: CDR  
REVIEWED: FS  
APPROVED: FS  
SCALE: NONE

**C2.10**

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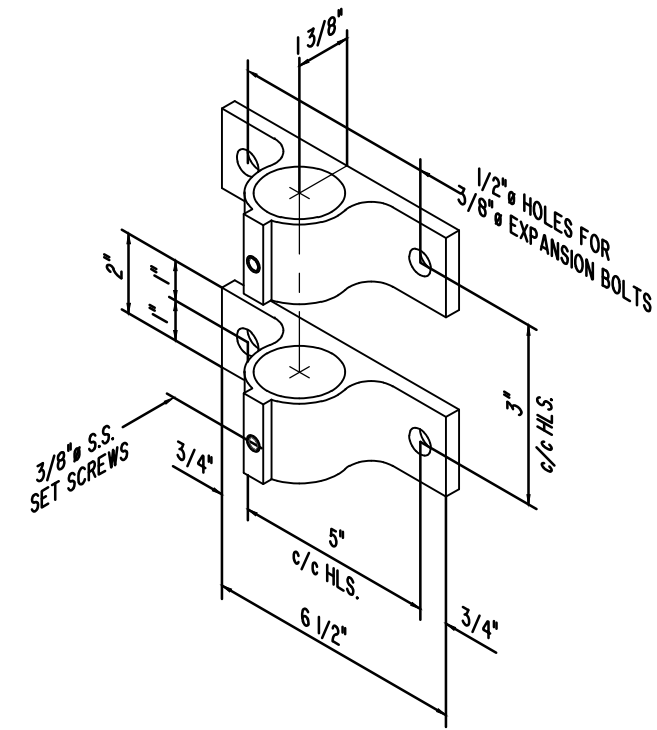
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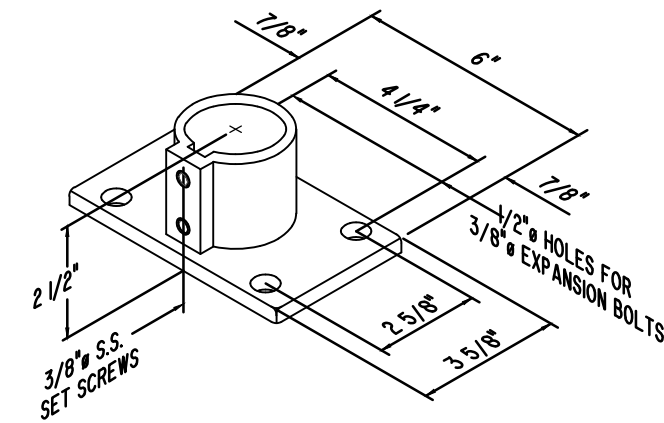
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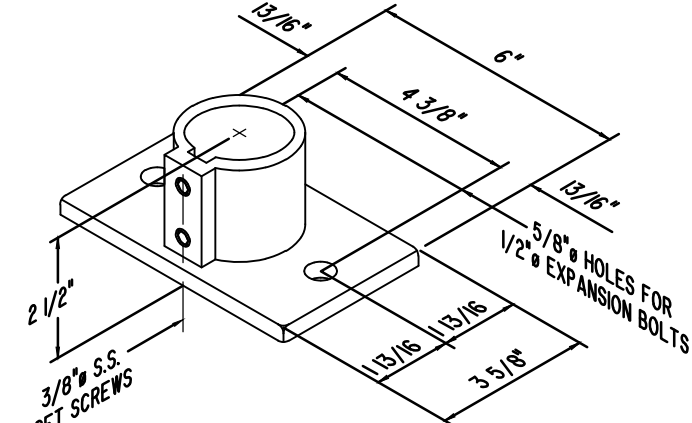
**2-LINE COMPONENT HANDRAIL  
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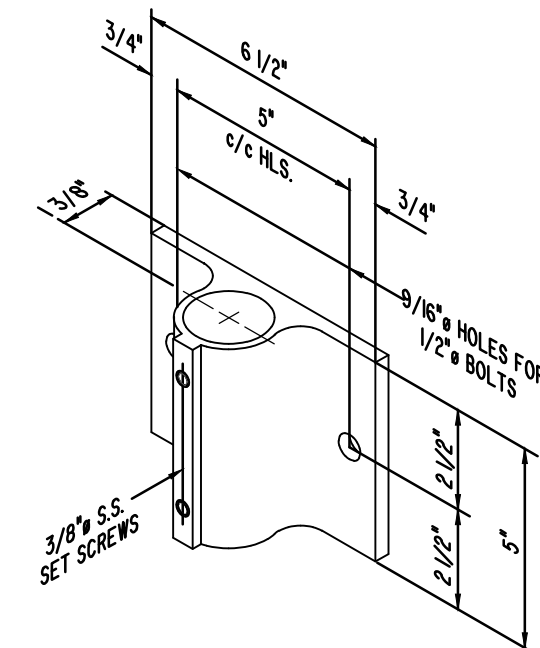
**SIDE-MT. BRACKET #TSM-1.50  
TYPE A**  
SCALE: N.T.S.



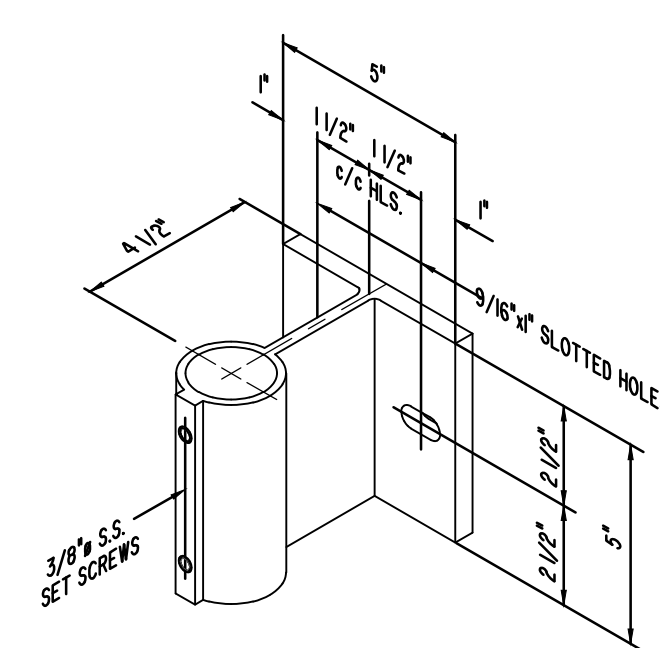
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SCALE: N.T.S.



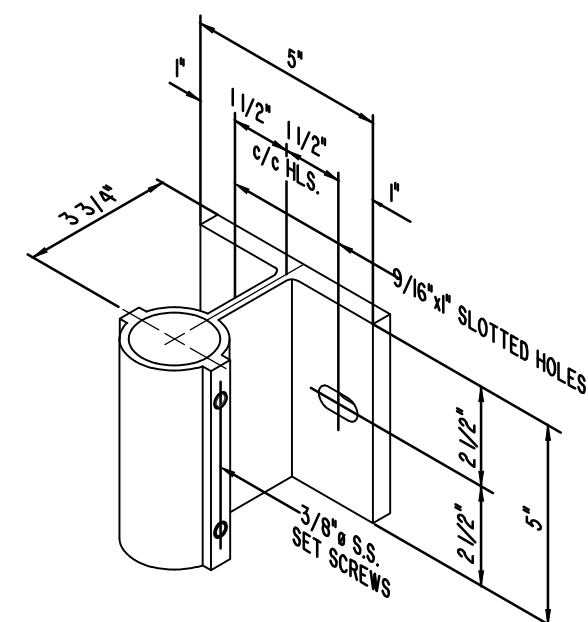
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SCALE: N.T.S.



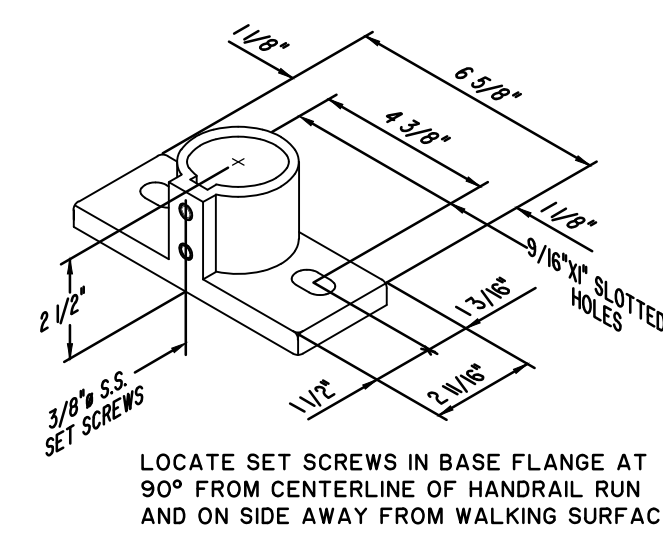
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SCALE: N.T.S.



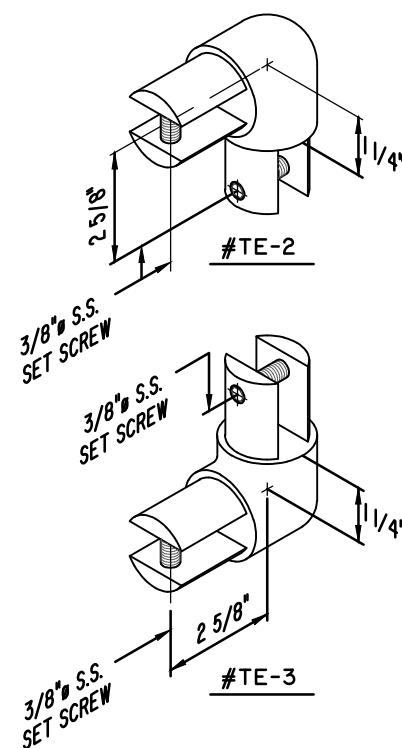
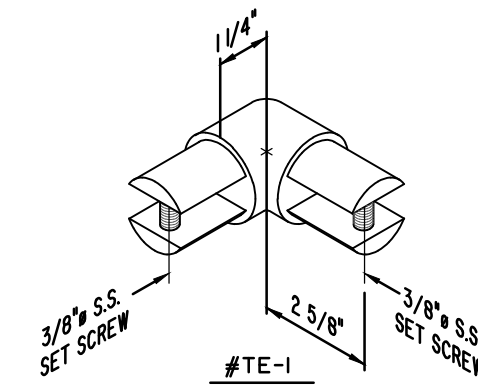
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TYPE D**  
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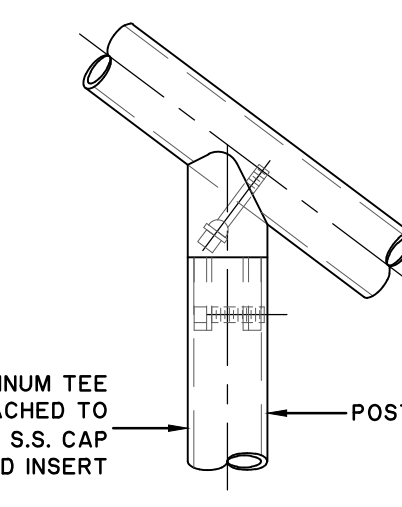
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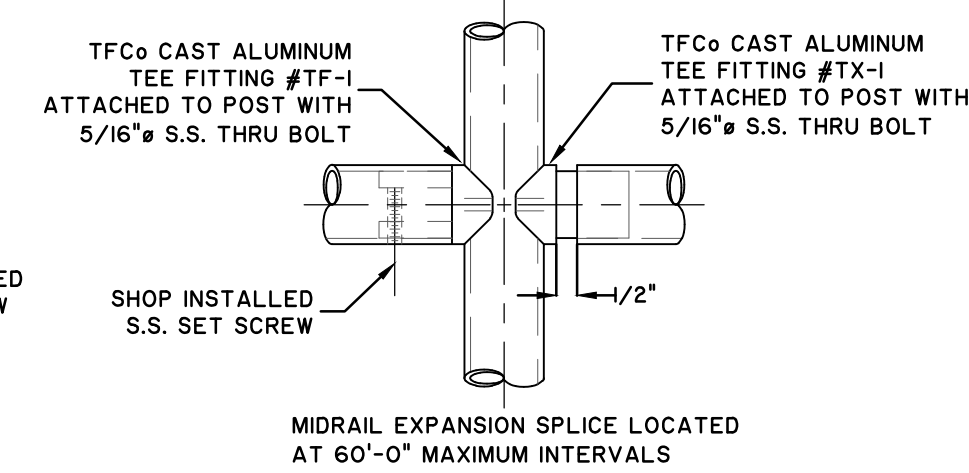
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SCALE: N.T.S.



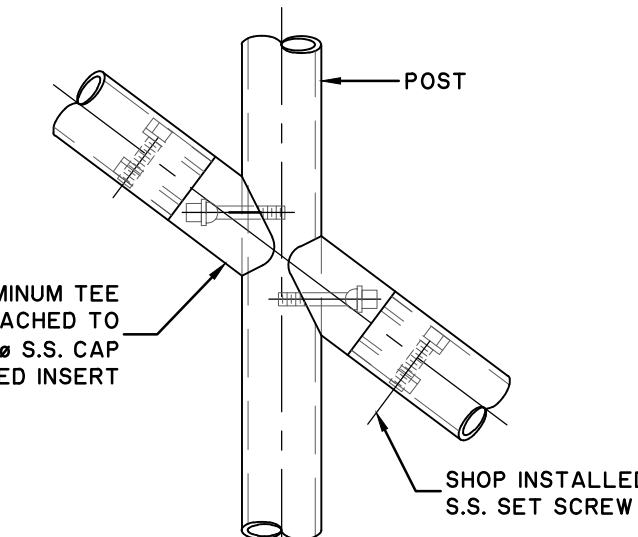
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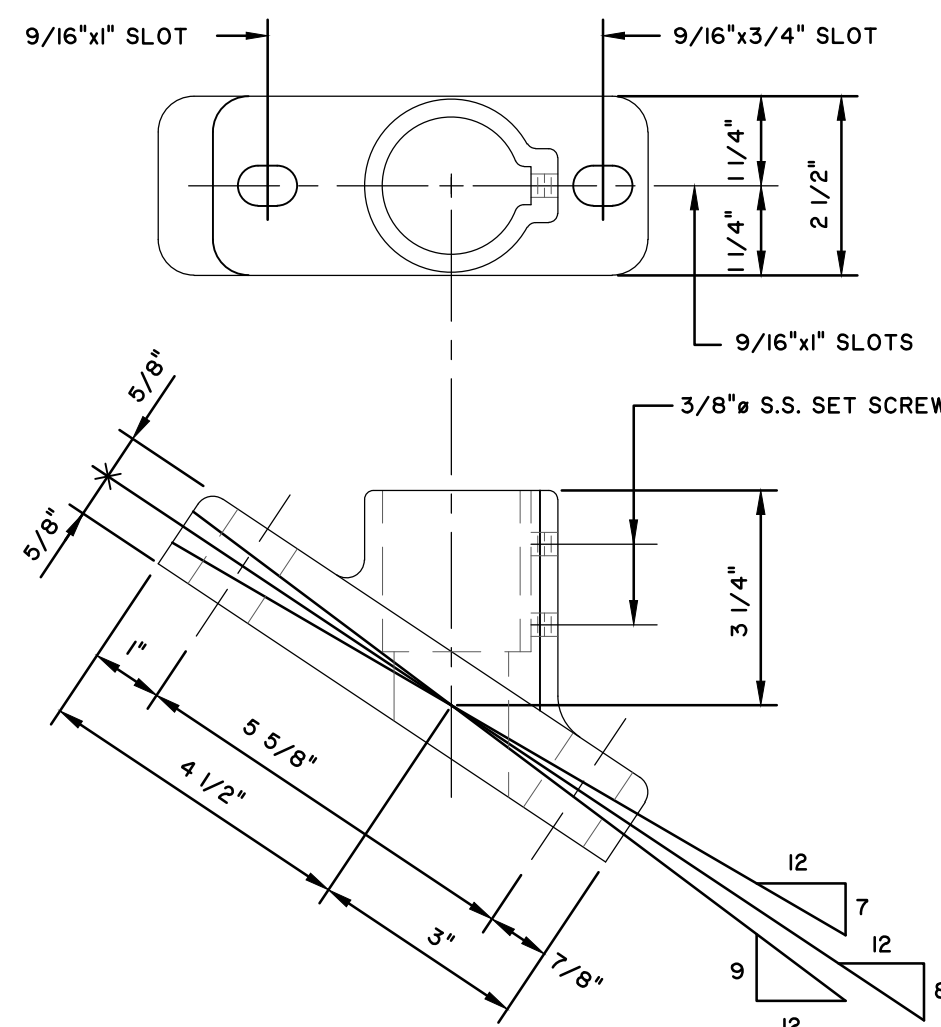
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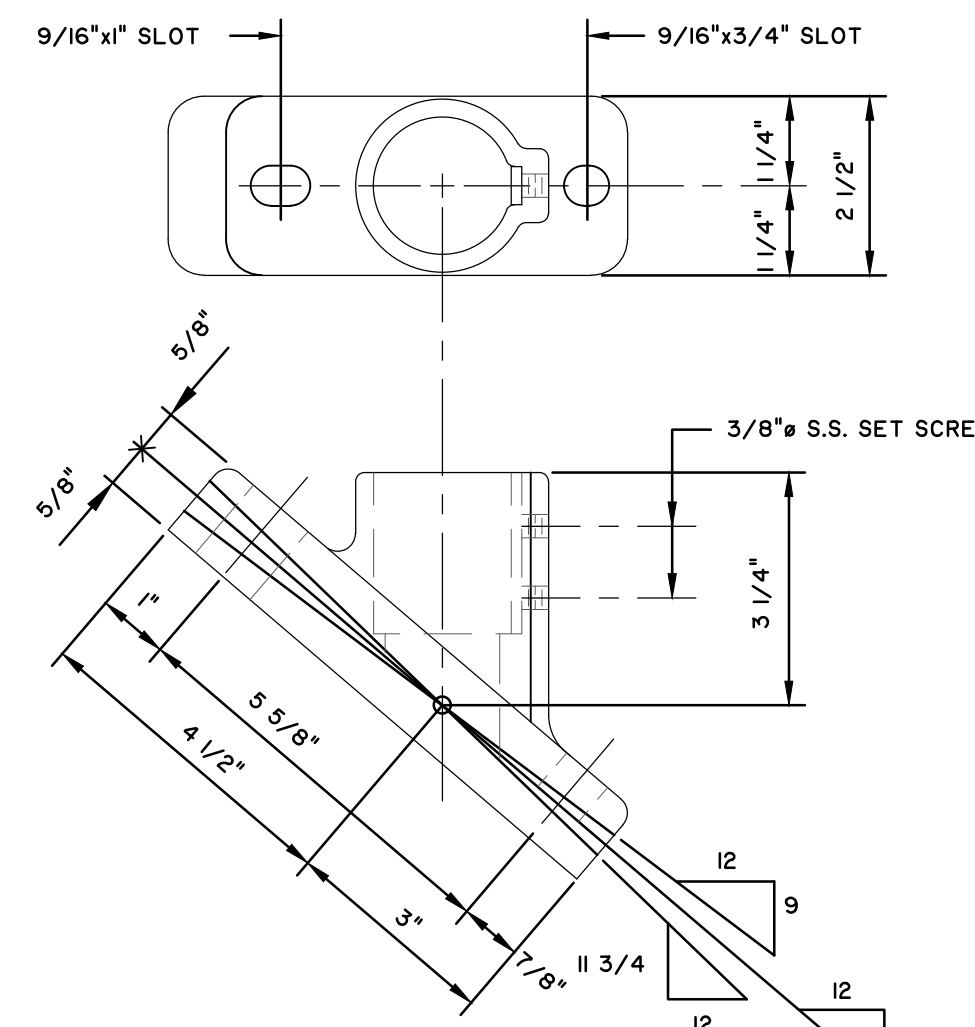
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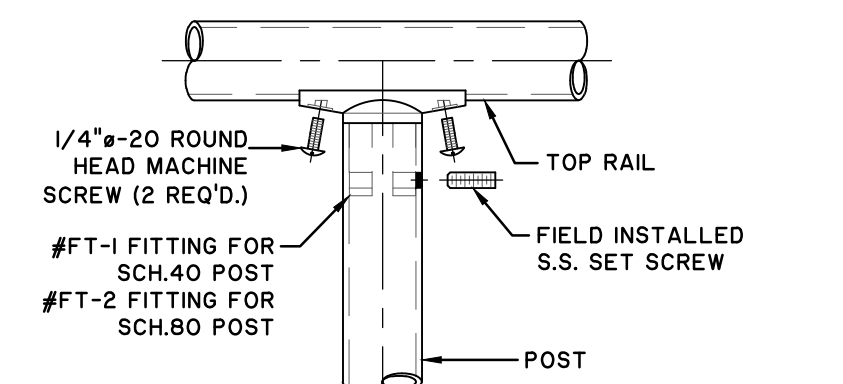
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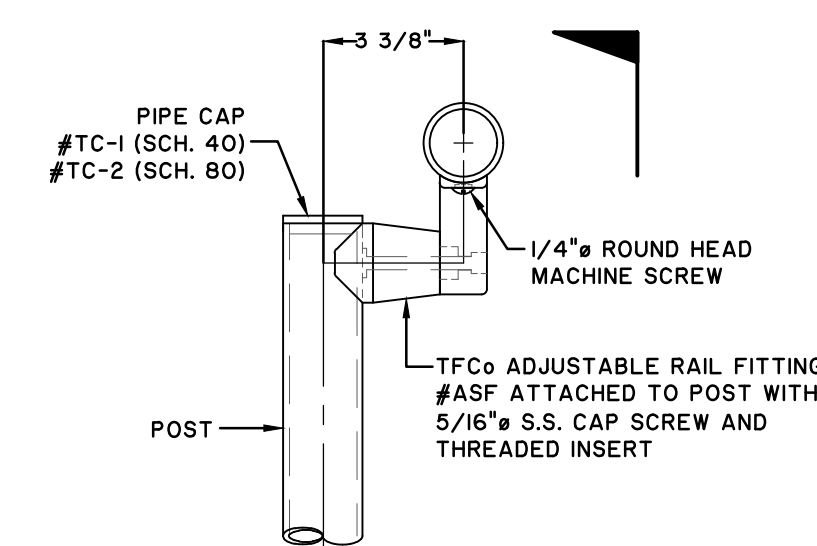
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TYPE G  
RANGES FROM 30° TO 37°**  
SCALE: N.T.S.



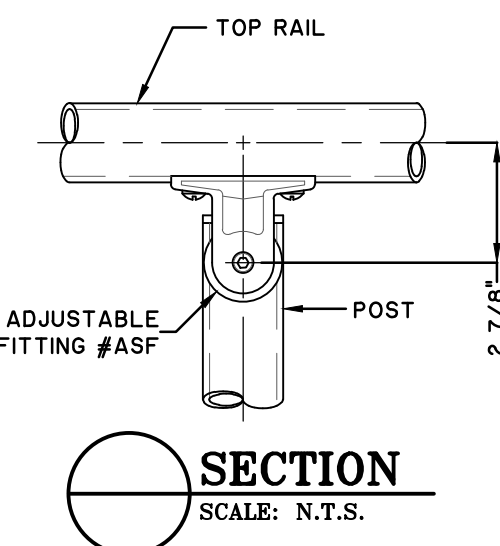
**BASE FLANGE #ABF-2  
TYPE G  
RANGES FROM 37° TO 44°**  
SCALE: N.T.S.



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



**DETAIL 9**  
SCALE: N.T.S.



**SECTION**  
SCALE: N.T.S.



NO.	ISSUED FOR BID	REVISIONS	BY	DATE
0				10-19-2020

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PUMP STATION HANDRAIL DETAILS

JOB NO:	J-27784.0000
DATE:	10-19-2020
DRAWN:	CDR
DESIGNED:	CDR
REVIEWED:	FS
APPROVED:	FS
SCALE:	NONE

**C2.11**

BID SET - NOT FOR CONSTRUCTION