

# PS4021 REHABILITATION & UPGRADE

## JULY, 2020

BRUNSWICK-GLYNN  
JOINT WATER & SEWER COMMISSION  
JWSC PROJECT # 904



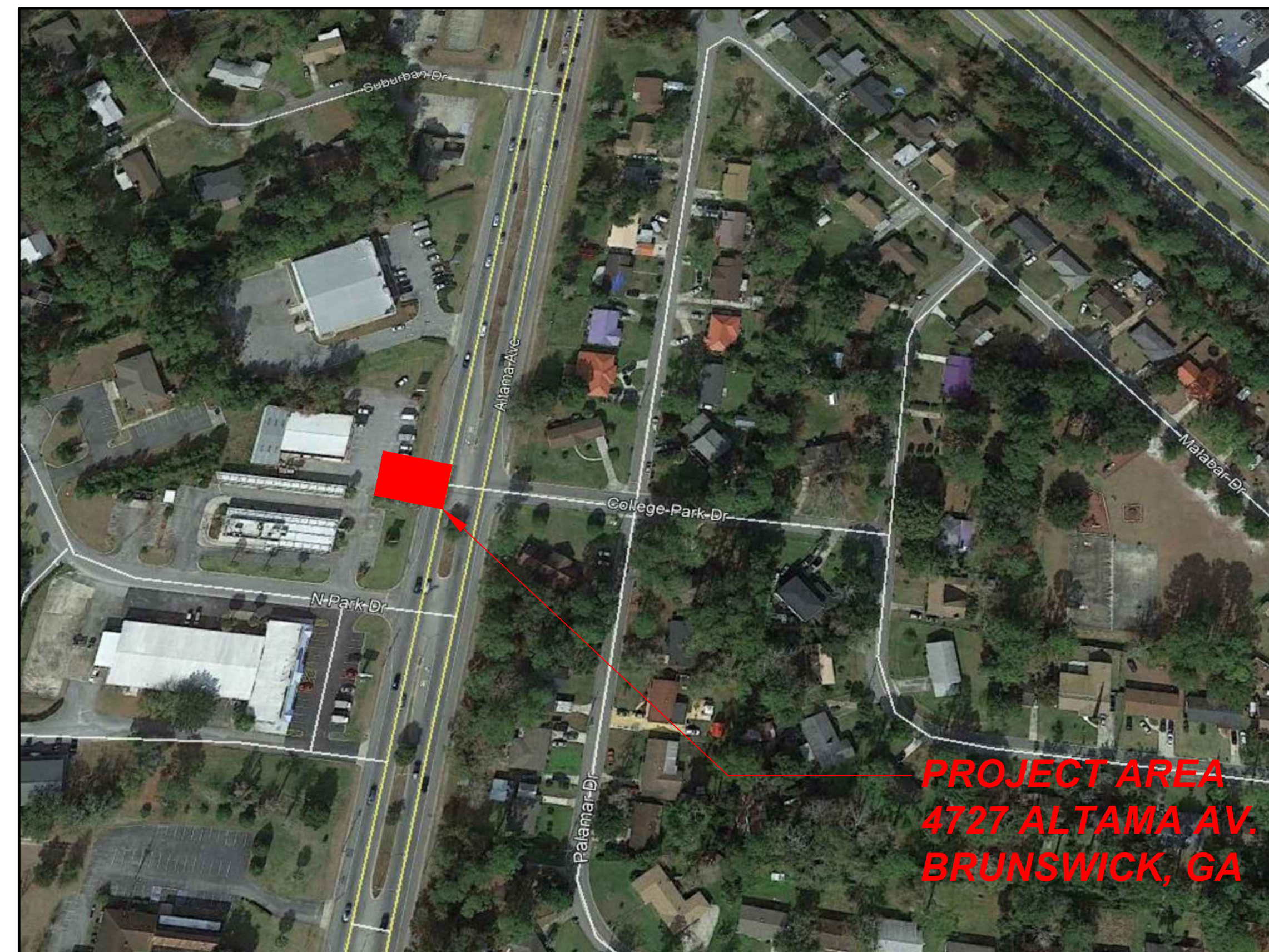
### COMMISSION MEMBERS:

MR. BEN TURNIPSEED PE, CHAIRMAN  
MR. BOB DUNCAN, VICE CHAIRMAN  
MR. CHARLES COOK  
MR. DONALD M. ELLIOTT  
MR. CORNELL L. HARVEY (CITY OF BWK, MAYOR)  
MR. WAYNE NEAL (GLYNN CO. BOC)  
MR. TRIPP STEPHENS

### EXECUTIVE DIRECTOR:

MR. ANDREW BURROUGHS, PE

OWNER:  
BRUNSWICK - GLYNN COUNTY  
JOINT WATER AND SEWER COMMISSION  
1703 GLOUCESTER STREET  
BRUNSWICK, GEORGIA 31520  
  
24-HOUR CONTACT: TODD KLINE, PE, DIRECTOR OF ENGINEERING  
EMERGENCY NUMBER: (912) 634-0258  
PLANNING AND CONSTRUCTION DIVISION: (912) 261-7126



VICINITY MAP  
SCALE: NTS

DRAWING INDEX	
SHEET NO.	SHEET TITLE
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NOTES:  
CONTRACTOR SHALL NOTIFY BGJWSC PLANNING AND CONSTRUCTION DIVISION 48 HOURS BEFORE STARTING WORK ON THIS PROJECT.



CALL BEFORE YOU DIG!  
At least 72 hours prior to commencement of the work, the Contractor is responsible for calling the Utilities Protection Center (UPC) at 1-800-282-7411, to request underground utility locate service.



BRUNSWICK-GLYNN COUNTY  
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PLANNING & CONSTRUCTION DIVISION  
1703 Gloucester Street  
Brunswick, Georgia 31520  
(912) 261-7110 Phone  
(912) 261-7178 Fax  
www.bgjwsc.org

NO.	DATE	COMMENTS
1	07-06-2020	Revisions from previously advertised ITB NO. 20-007

PS4021  
REHABILITATION & UPGRADE  
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION  
TITLE SHEET

FILE NO.: PS4021  
DATE: JULY 06, 2020  
SCALE: AS SHOWN  
DRAWN BY: JRP  
SHEET NO.: T-1  
OF 1

REVISIONS

**STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION  
APPENDIX 4A**

SANITARY SEWER – LIFT STATION AND FORCE MAINS – ACCEPTABLE MANUFACTURERS		
PARAGRAPH	PRODUCT	MANUFACTURER
<b>4.5.2</b>	<b>SITE REQUIREMENTS</b>	
4.5.2.6	Bypass Pumping Connection Cam Lock	Dixon OPW
	Bypass Piping PVC 1120, Class 150, DR 18	Vulcan Plastics JM Eagle
	DR 18 Sewer Safe Mechanical Joint Fittings	Star Pipe Sigma Corp.
	Bypass Piping Ductile Iron Pipe	Griffin Pipe US Pipe
	Ductile Iron Pipe Sewer Safe Mechanical Joint Fittings	Star Pipe Sigma Corp.
<b>4.5.3</b>	<b>WET WELL CONFIGURATION</b>	
4.5.3.4	Access Hatches	U.S. Foundry, E.J. Consolidated
<b>4.5.4</b>	<b>PRECAST CONCRETE STRUCTURES</b>	
4.5.4.1	Precast Concrete Structures	MST Inc. Hanson Pipe and Precast Mega Cast
4.5.4.2	Moderate Risk Corrosion Protection	SewperCoat Madewell CA
	High Risk Corrosion Protection	SewperCoat Madewell CA
	Significant Risk Corrosion Protection	SewperCoat Madewell CA
<b>4.5.5</b>	<b>FIBERGLASS STRUCTURES</b>	
4.5.5.1	Fiberglass Structures	Xerxes L.F. Manufacturing Flowtite
<b>4.5.7</b>	<b>WET WELL AND DISCHARGE HEADER PIPING</b>	
4.5.7.1	Interior Piping High Density Polyethylene (HDPE) Pipe	Performance Pipe JM Eagle Lamson & Sessions
	Interior Piping Class 53 Flange by Flange Ductile Iron Pipe	Star Pipe Sigma Corp.
4.5.7.2	Exterior Piping Class 53 Flange by Flange Ductile Iron Pipe	Griffin Pipe US Pipe
	Exterior Pipe Fittings Flange by Flange	Star Pipe Sigma Corp.
<b>4.5.8</b>	<b>VALVES AND APPURTENANCES</b>	
4.5.8.1	Isolation (Plug) Valves	Mueller Dezurik
4.5.8.2	Check Valves	Clow
	Air Release Valve	ARI 0.025 w/one way valve
	Discharge Gauge Fittings	
<b>4.5.9</b>	<b>PUMPING STATION</b>	
4.5.9.2	Submersible Pumps	Flygt, KSB, Wilo, Grundfos, Shinmaywa
4.5.9.3	Grinder Pumps	Flygt, KSB, Wilo, Grundfos, Shinmaywa
<b>4.5.11</b>	<b>ELECTRICAL EQUIPMENT AND CONTROLS</b>	<b>(TO BE DONE BY JWSC)</b>
4.5.11.1A	Enclosure	Hoffman APX Flygt Bison
4.5.11.2B	Panel Components	Listed Below
4.5.11.2C	Motor Starters Variable Frequency Drives	Danfoss
4.5.11.2D & E	Circuit Breakers	Square D
4.5.11.2F	Audible Alarm	Federal Signal
4.5.11.2G	Alarm Light	Federal Signal
4.5.11.2H	GFI Receptacles	ISO GE Morriss Levite
4.5.11.2I	Generator Receptacles	Cam Lock
4.5.11.2J	Manual Transfer Switch	ATS ABB
4.5.11.2K	Hand Off Auto Switches	Cutler Hammer Square D
4.5.11.2N	Power Monitor	Diversified Electronics
4.5.11.2O	Relays	NTE Allen Bradley AA Electric Idtec
4.5.11.2S	Lighting Arrestors	Ditek Delta
4.5.11.2T	Elapsed Time Meter	ENG Yokogawa
4.5.11.2U	Level Controls	Roto Float Blue Ribbon Vego
4.5.11.2V	Transformers	Warrick GE ACME Square D

**STANDARDS FOR WATER AND SEWER DESIGN AND CONSTRUCTION  
APPENDIX 4A**

SANITARY SEWER – LIFT STATION AND FORCE MAINS – ACCEPTABLE MANUFACTURERS		
PARAGRAPH	PRODUCT	MANUFACTURER
<b>4.5.12</b>	<b>REMOTE TERMINAL UNIT</b>	<b>CONTROL LOGIC TO BE SUPPLIED BY EMC (SEE NOT ON SHEET P-4)</b>
4.5.12	RTU (SCADA)	ELECTRIC MACHINE CONTROL INC.
<b>4.5.14</b>	<b>LOW FLOW STATION (ONLY) RTU SYSTEM</b>	
4.5.14.1	RTU (SCADA)	ELECTRIC MACHINE CONTROL INC.
<b>4.5.16</b>	<b>ON-SITE STANDBY GENERATORS &amp; AUTOMATIC TRANSFER CONTROLS</b>	
4.5.16	Standby Generators	Onan Caterpillar
4.5.16.2	Engine-Generator Controls	Onan Caterpillar
4.5.16.3	Auto Transfer Switches	Onan Caterpillar
<b>4.7.6</b>	<b>FORCE MAIN MATERIALS</b>	
4.7.6.1	AWWA C-900/C-905 DR 18	Vulcan Plastics JM Eagle U.S. Plastic Corp.
	DR 11 (HDPE) Pipe High Density Polyethylene	Performance Pipe JM Eagle Lamson & Sessions
	Interior Coated CL52 Ductile Iron Pipe	Griffin Pipe US Pipe
4.7.6.3	Sewer Safe Mechanical Joint Fittings	Star Pipe Sigma Corp.
	Sewer Safe Coupling	HyMax Star Pipe Sigma Corp.
4.7.6.4	Isolation (Plug) Valves Air Release Valves	Clow Mueller ARI
<b>NOTE 1</b>	WHERE NO MANUFACTURER IS LISTED FOR A PARTICULAR ITEM OF MATERIAL OR EQUIPMENT, THE CONTRACTOR MAY SELECT THE MANUFACTURER PROVIDED THAT ALL REQUIREMENTS OF THESE STANDARDS FOR THAT PARTICULAR ITEM OF MATERIAL OR EQUIPMENT ARE MET. SUBMITTALS FOR SUCH ITEMS ARE REQUIRED.	
<b>NOTE 2</b>	STANDARD CONSTRUCTION DETAILS MAY BE FOUND ON PLAN SHEETS P-5 OF THESE CONSTRUCTION PLANS.	

**JWSC WATER & SEWER NOTES**

- ALL WATER AND SEWER CONSTRUCTION SHALL CONFORM WITH THE REQUIREMENTS OF THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATION OF THE BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION. IN THE EVENT OF A DISCREPANCY BETWEEN THESE CONSTRUCTION PLANS AND THE AFOREMENTIONED STANDARDS AND SPECIFICATIONS, THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS SHALL TAKE PRECEDENCE UNLESS THE DEVIATION HAS BEEN APPROVED IN WRITING BY THE JWSC.
- THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER LINES, SEWER LINES, AND STORM DRAINS SHALL CONFORM TO THE LATEST GEORGIA EPD REQUIREMENTS.
- A MINIMUM DISTANCE OF 20' OR TWO TIMES THE DEPTH OF THE MAIN, WHICHEVER IS GREATER, SHALL BE MAINTAINED FROM ALL BUILDINGS, FOUNDATIONS AND THE TOP OF BANK OF ALL PONDS, ANY DEVIATION FROM THIS REQUIREMENT MUST BE APPROVED IN WRITING BY THE JWSC.
- PRESSURE AND LEAKAGE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE JWSC.
- AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE UTILITIES PROTECTION CENTER (UPC) AT 1-800-282-7411 TO REQUEST UNDERGROUND UTILITY LOCATE SERVICE.
- ALL GRAVITY SEWERS SHALL BE LOW PRESSURE AIR TESTED IN ACCORDANCE WITH JWSC STANDARDS 3.6.9.
- ALL SANITARY SEWER MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH JWSC STANDARDS 3.6.9.3.
- ALL PORTIONS OF NEW SEWAGE FORCE MAIN SHALL UNDERGO A HYDROSTATIC TEST PER JWSC STANDARDS 4.7.7.
- SEE JWSC STANDARD 2.5.3.3 FOR MINIMUM PIPE COVER REQUIREMENTS.
- RECORD DRAWINGS MUST BE PROVIDED TO JWSC FOR ALL WATER AND SEWER INFRASTRUCTURE IN ACCORDANCE WITH JWSC RECORD DRAWINGS STANDARDS.
- THE CONTRACTOR SHALL IMMEDIATELY REPAIR EXISTING WATER & SEWER SERVICES DAMAGED DURING CONSTRUCTION TO THE CONTRACTORS EXPENSE.
- 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 BGIWSC RESERVES FIRST RIGHT OF SALVAGE FOR ALL EQUIPMENT REMOVAL.
- CONTRACTOR MUST SUBMIT A BYPASS PLAN TO BGIWSC FOR REVIEW AND APPROVAL.

**GENERAL NOTES**

- ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS.
- ALL PERMITS NECESSARY FOR CONSTRUCTION SHALL BE OBTAINED BY CONTRACTOR PRIOR TO WORK COMMENCEMENT.
- ANY DEVIATION FROM THE PLANS ARE PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.
- THE CONTRACTOR IS TO IMMEDIATELY CONTACT THE ENGINEER IF ANY UNFORESEEN COMPLICATIONS OR DISCREPANCIES OCCUR.
- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION OF ALL UTILITIES ON SITE WITH THE APPROPRIATE PROVIDER (e.g. POWER, PHONE, CABLE, ETC.)
- THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR THE PHYSICAL CONSTRUCTION OF THE SITE.
- CONTRACTOR TO NOTIFY AND ACQUIRE APPROVAL FOR ANY ENCROACHMENT NEEDED FROM ADJACENT BUSINESS OWNER.
- CONTRACTOR SHALL MAINTAIN A SAFE SITE AND MEET ALL APPROPRIATE REGULATIONS CONCERNING SAFETY.
- SURVEY INFO FROM AND SURVEY DONE BY SHUPE SURVEYORS COMPANY, P.C., 3837 DARIEN HIGHWAY, BRUNSWICK, GA 31523. TELEPHONE 912.265.0562. (DATED 08/31/2011)
- EXISTING SURVEY INFORMATION TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY OWNER OF ANY DISCREPANCIES IN FIELD OBSERVATIONS VERSUS SURVEY DATA.
- CONTRACTOR TO LOCATE & VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION & OBTAIN PROPER DIG TICKET THROUGH THE CALL BEFORE YOU DIG HOTLINE: 811.

**LEGEND:**

CIPS CAPPED IRON PIPE SET (SSC PC, LSF 317)	☆ LIGHT POLE
IRF IRON ROD FOUND	● GEORGIA POWER POLE
CMF CONCRETE MONUMENT FOUND	◆ TRAFFIC SIGNAL BOX
SDMH STORM DRAIN MANHOLE	● UTILITY POLE
SMH SANITARY SEWER MANHOLE	⊠ TRANSFORMER
CMH CURB INLET MANHOLE	⊠ PHONE BOX
RCP REINFORCED CONCRETE PIPE	⊠ SIGN
● FIRE HYDRANT	▣ CONCRETE
● WATER METER	▣ BUILDING
● WATER VALVE	■ ASPHALT
● IRRIGATION CONTROL VALVE	--- TAX PARCEL I.D.
⊠ GAS VALVE	--- OVERHEAD UTILITIES
⊠ CATCH BASIN	--- BOTTOM OF DITCH
● STORM DRAIN MANHOLE	--- TOP OF DITCH
● SEWER CLEAN-OUT	--- UGG UNDERGROUND GAS LINE
● SANITARY SEWER MANHOLE	--- UGW UNDERGROUND WATER LINE
● SANITARY SEWER VAULT	--- UGT UNDERGROUND TELEPHONE LINE
⊠ TELEPHONE MANHOLE	--- UGP UNDERGROUND POWER LINE
	○---○ PROPOSED FENCE



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NO.	DATE	COMMENTS
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**PS4021**  
**REHABILITATION & UPGRADE**  
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION  
**GENERAL CONSTRUCTION NOTES**

FILE NO.: PS4021	DATE: JULY 06, 2020	SCALE: NONE	DRAWN BY: HP
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SHEET NO.: **G-1**



**CALL BEFORE YOU DIG!**  
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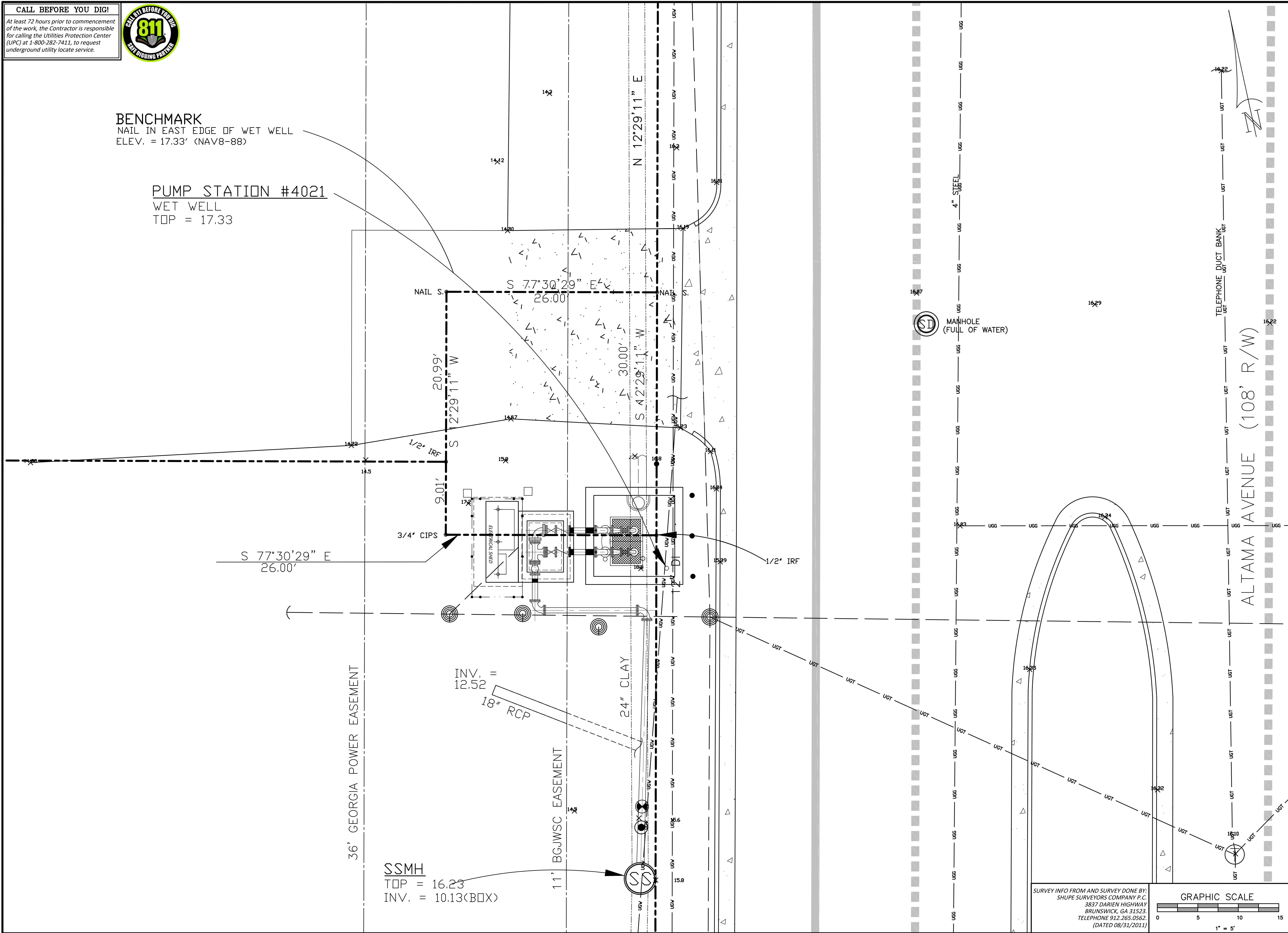
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**BENCHMARK**  
NAIL IN EAST EDGE OF WET WELL  
ELEV. = 17.33' (NAV8-88)

**PUMP STATION #4021**  
WET WELL  
TOP = 17.33



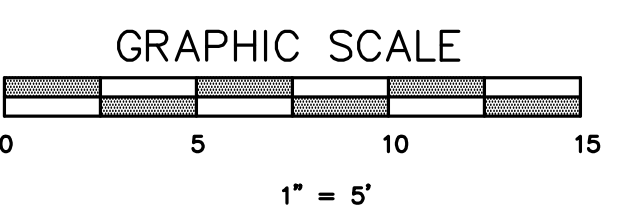
BRUNSWICK-GLYNN COUNTY  
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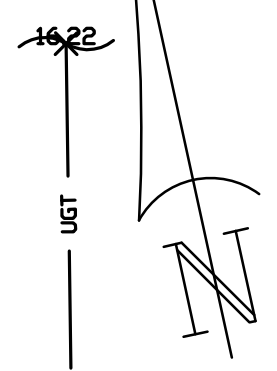
**PS4021 REHABILITATION AND UPGRADE**  
GLYNN COUNTY, GEORGIA  
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION  
SITE (EXISTING)

FILE NO.: PS4021	SHEET NO.: P-1
DATE: JULY 06, 2020	OF 6
SCALE: AS SHOWN	
DRAWN BY: HP	

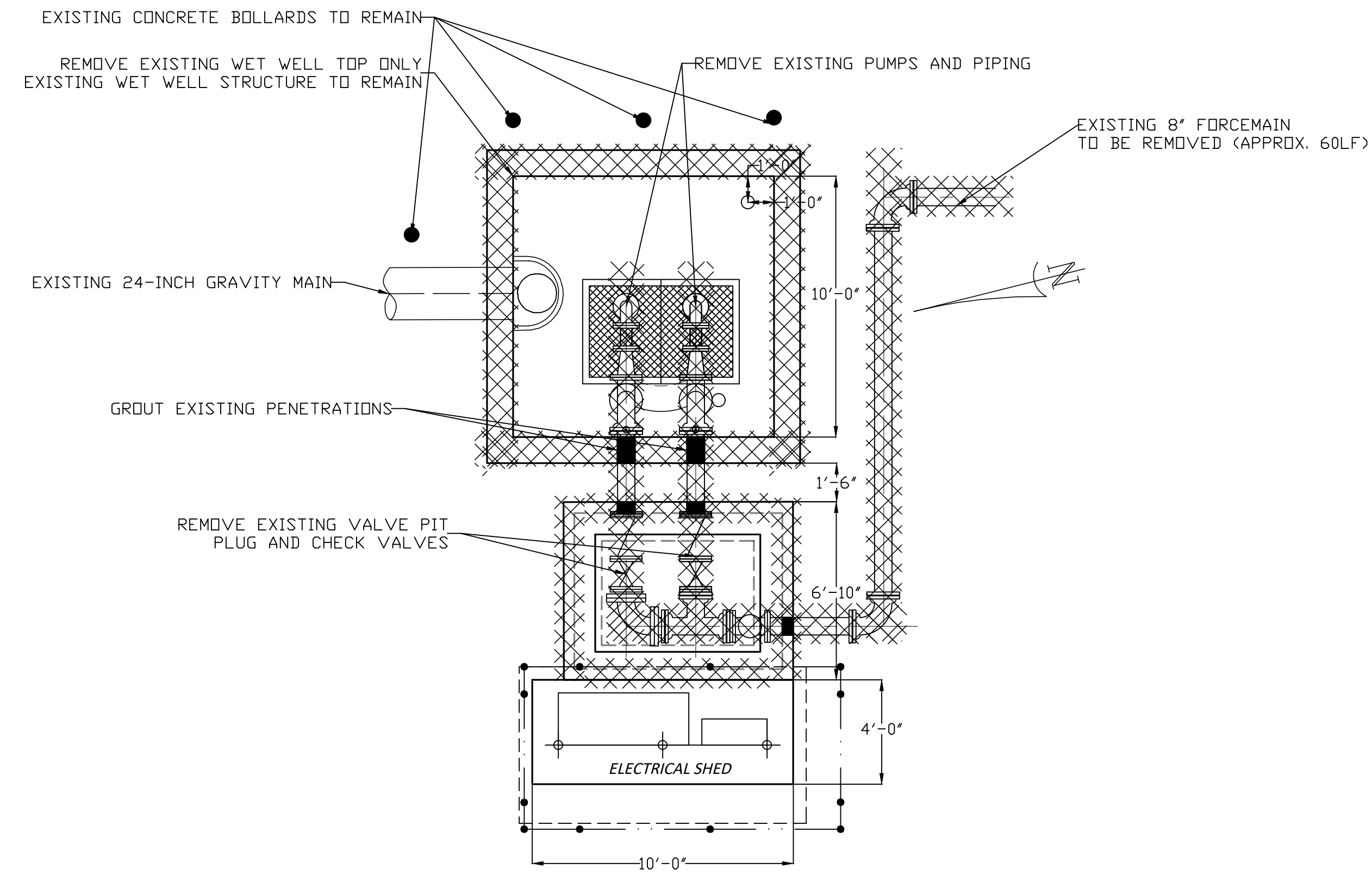
SURVEY INFO FROM AND SURVEY DONE BY:  
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3837 DARIEN HIGHWAY  
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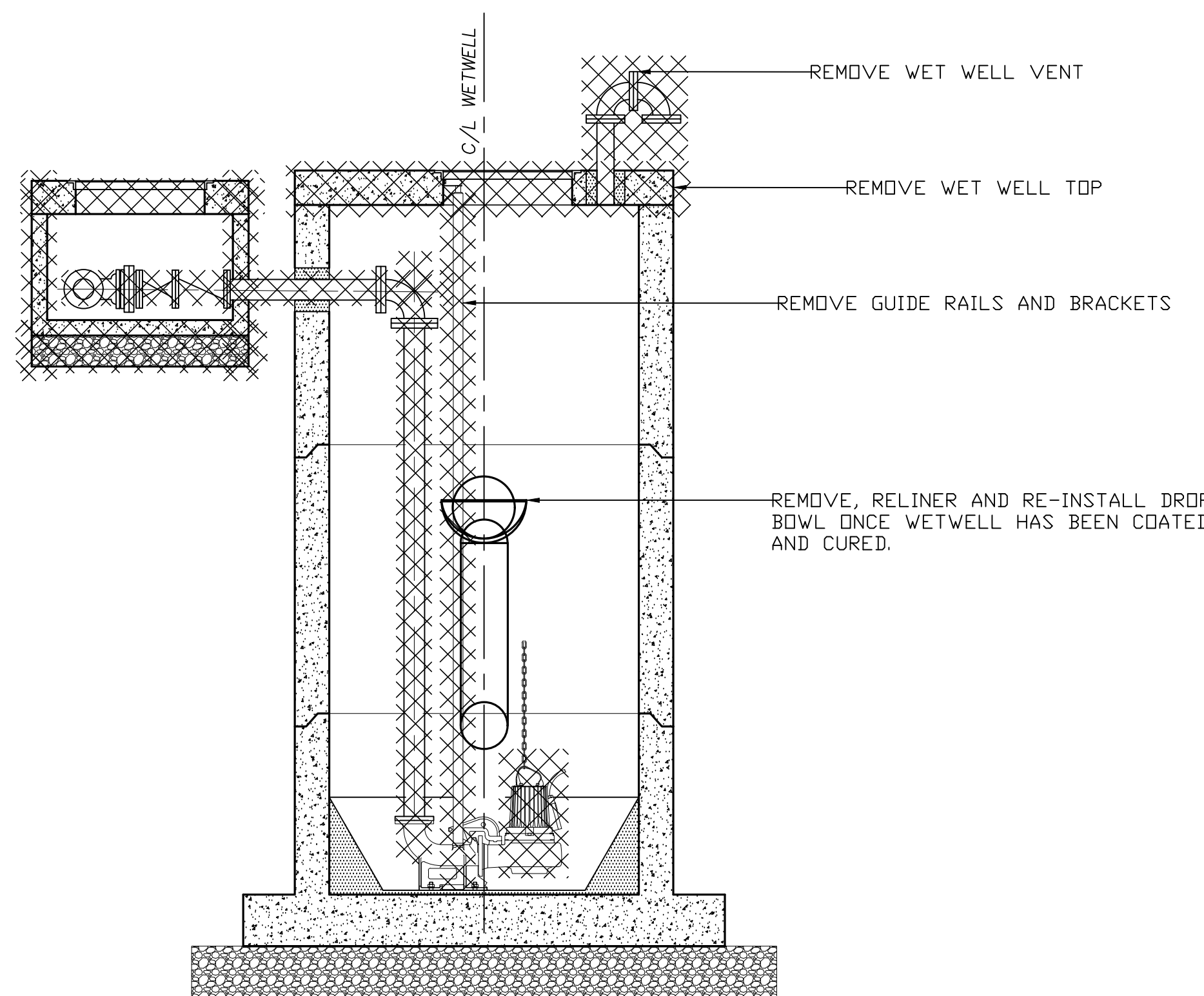
ALTA MA AVENUE (108' R/W)



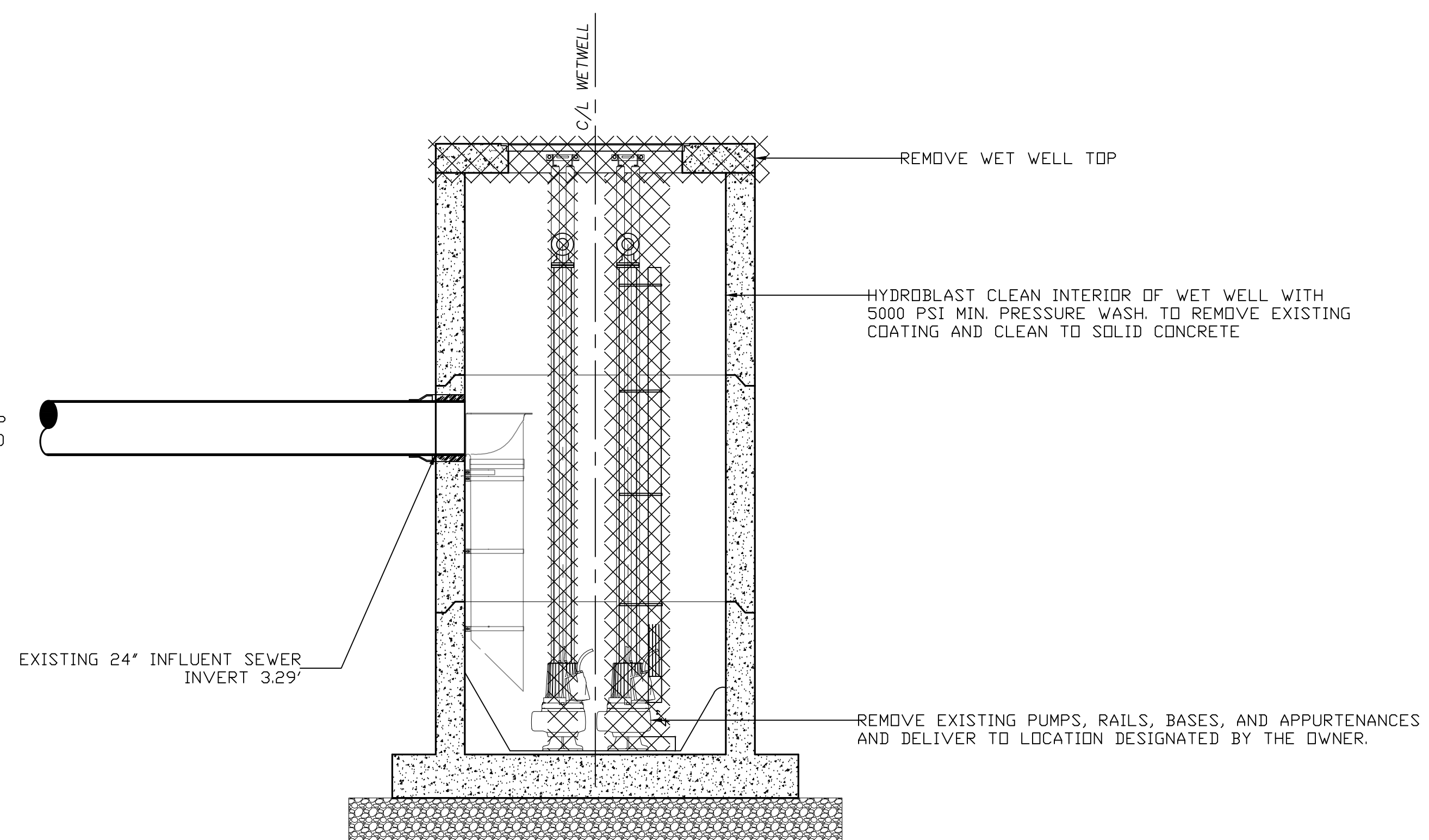
- NOTES THIS SHEET:
- EXISTING WETWELL PIPING, VALVE PIT, PUMPS, VALVES, AND APPURTENANCES TO BE REMOVED AND DELIVERED TO THE LOCATION DESIGNATED BY THE OWNER.
  - CLEAN INTERIOR OF WET WELL WITH 5000 PSI PRESSURE WASH.



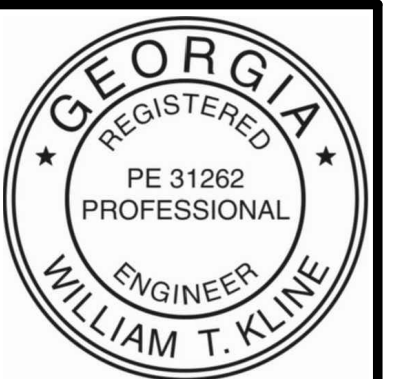
PLAN VIEW  
SCALE: 1/4" = 1'-0"



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



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



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PS4021 REHABILITATION AND  
UPGRADE  
GLYNN COUNTY, GEORGIA  
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION  
DEMOLITION PLAN

FILE NO:	PS4021
DATE:	JULY 09, 2020
SCALE:	AS SHOWN
DRAWN BY:	HP

SHEET NO.:  
**P-2**  
OF 6



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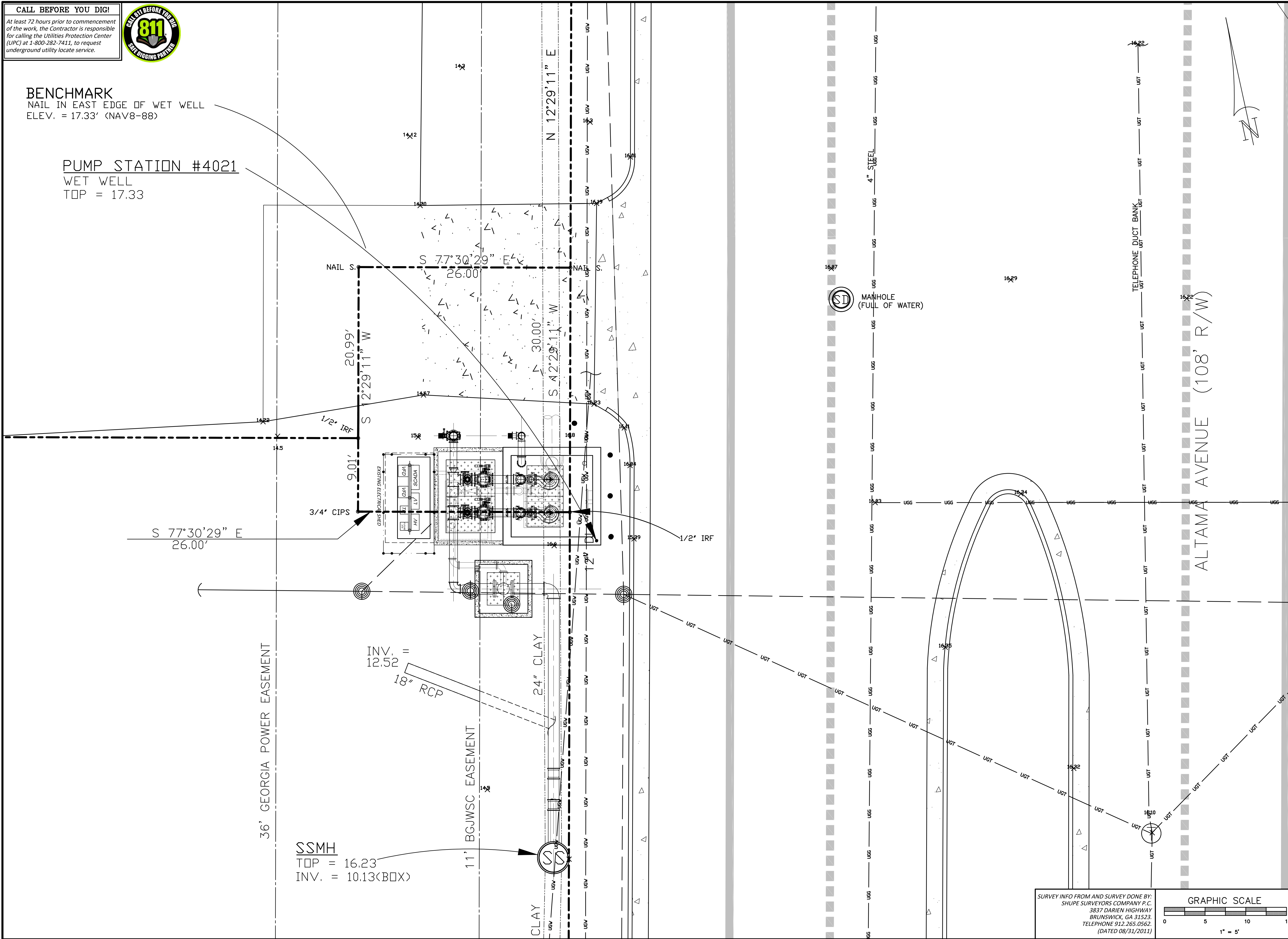
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**PUMP STATION #4021**  
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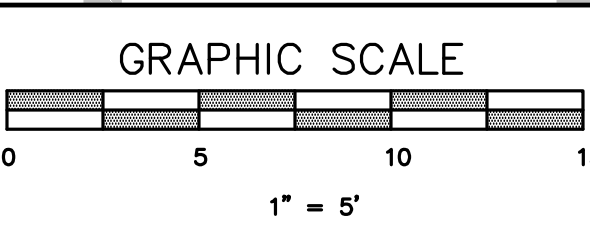
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**PS4021 REHABILITATION AND UPGRADE**  
GLYNN COUNTY, GEORGIA  
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION  
SITE (PROPOSED)

FILE NO.: PS4021  
DATE: JULY 06, 2020  
SCALE: AS SHOWN  
DRAWN BY: HP

SURVEY INFO FROM AND SURVEY DONE BY:  
SHUPE SURVEYORS COMPANY P.C.  
3837 DARIEN HIGHWAY  
BRUNSWICK, GA 31523  
TELEPHONE 912.265.0562  
(DATED 08/31/2011)



CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS & CONDITIONS PRIOR TO CONSTRUCTION OR FABRICATION. NOTIFY OWNER (JWSC) IMMEDIATELY IF CONFLICTS OR CHANGES ARISE.

INSTALL NEW WET WELL VENT  
1-6" SS WALL PIPE, PE X FLG  
1-6" SS SPOOL, 24" LONG, FLG X FLG  
2-6" SS 1/2 BENDS, FLG X FLG  
1-6" WET WELL WIZARD  
SEWER VALVE, 125# FLG  
NOTE: DIM. SHOWN ARE FROM INSIDE  
FACE OF WET WELL

INSTALL NEW WETWELL TOP  
@ ELEV. +/- 15.54  
TOP OF WETWELL TO BE PRECAST WITH MIN.  
OUTSIDE DIMENSION OF TOP SLAB TO EXISTING  
WETWELL DIMENSIONS

H2O LOAD RATED 90" BY 54"  
ALUMINUM ACCESS HATCH WITH  
SAFETY GRATE. ALL ALUMINUM  
SURFACES IN CONTACT WITH  
CONCRETE TO BE PROVIDED  
WITH A BITUMASTIC COATING.

EXISTING 24-INCH GRAVITY MAIN

10-INCH FF HDPE PIPE IPS DR-11  
CAM-LDK FITTING WITH CAP  
(+/- 30LF)

RE-USE EXISTING PUMP  
TERMINATION BOXES

12X10 REDUCER

INSTALL 10" PLUG VALVE  
WITH VALVE BOX ASSEMBLY

INSTALL NEW 10'X8.5'X9' VAULT

EXISTING BOLLARDS TO REMAIN  
AND REPAINTED SAFETY YELLOW

BORE 4-INCH HOLE  
FOR RADAR INSERTION

±50 LF - 16" PVC DR18 FORCEMAIN (MIN. 4' COVER)  
(1) 16" PVC 90° BEND  
(2) 16" PVC 45° BEND  
CONNECTION TO EXISTING MANHOLE  
(INCLUDE MEGALUGS AND JOINT RESTRAINTS TYP.)

EXISTING 24-INCH GM

EXISTING SANITARY SEWER MANHOLE  
TOP = 16.23

EXISTING 8-INCH FM

**CONCRETE NOTES:**

CONCRETE SHALL BE OF NORMAL WEIGHT (150 PCF) AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. (INCLUDE POLY FIBER MIX OF 3/8" PER CU. YARD (MIN.))

CONCRETE FINISH TO BE NON-SLIP, BROOMED FINISH.

REINFORCING SHALL CONFORM WITH ASTM A615, GRADE 60, HAVING A MINIMUM YIELD STRENGTH OF 60 KSI.

**SITE REQUIREMENTS AND GENERAL ELECTRICAL NOTES:**

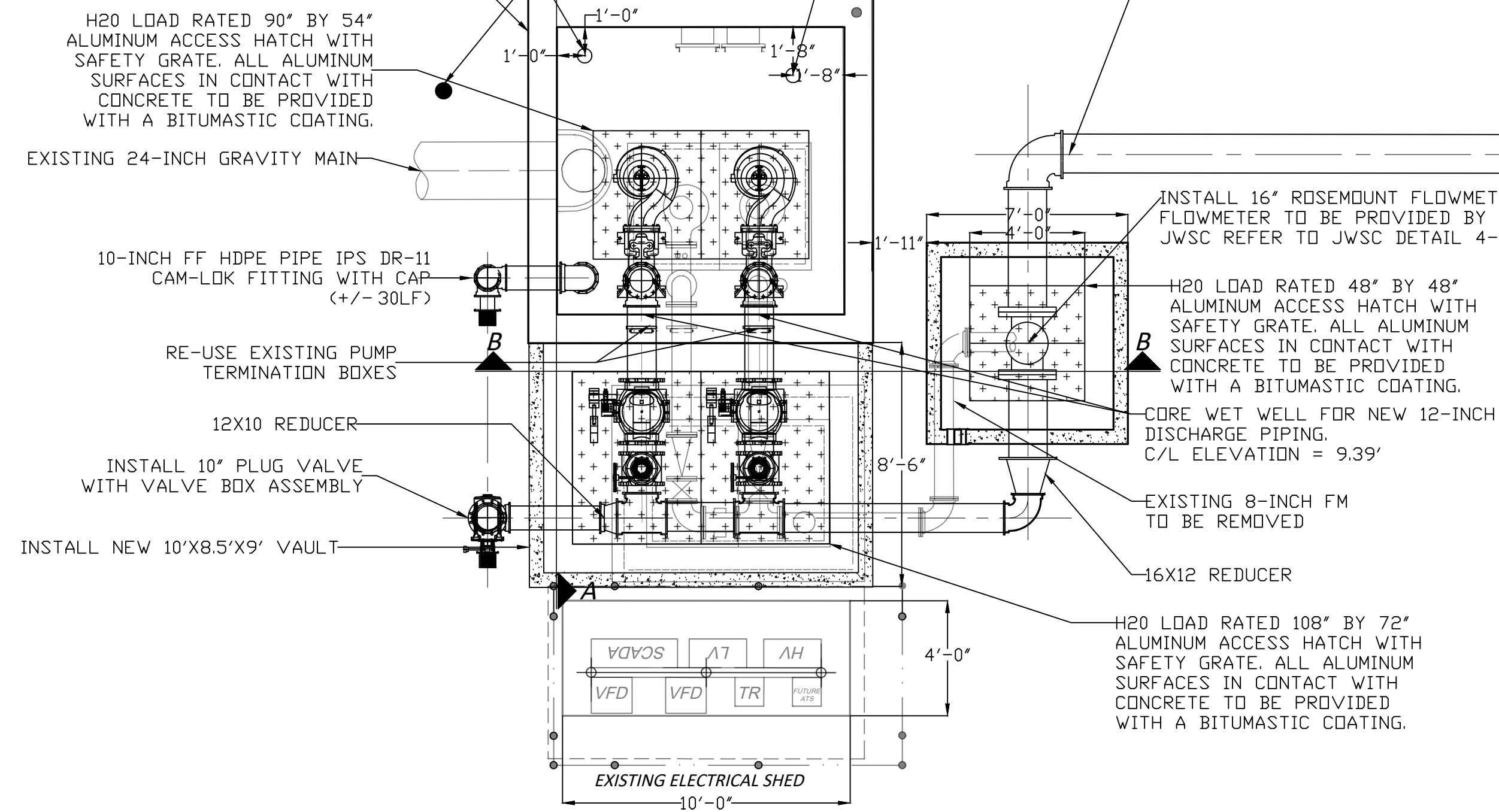
EXISTING FENCING TO REMAIN.

INSTALL PUMP MANUFACTURER'S THERMAL AND SEAL FAIL RELAY BASED ON MANUFACTURER'S RECOMMENDATIONS. IF NOT SUPPLIED BY PUMP MANUFACTURER, MACROMATIC SEAL FAIL RELAY AND ABB THERMISTOR RELAY TO BE INSTALLED AS PER RECOMMENDATIONS IF APPLICABLE FOR PUMP.

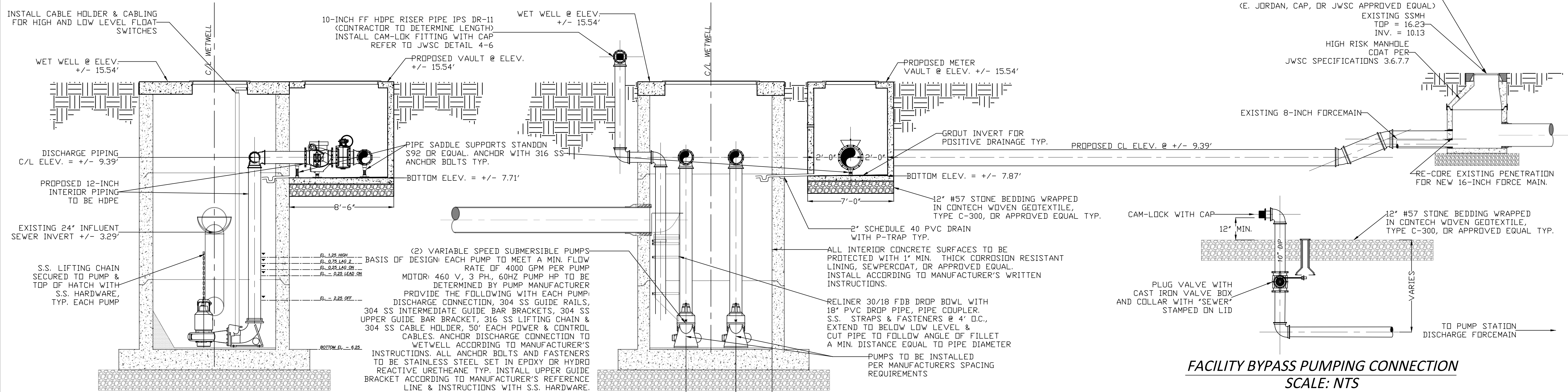
REMOVE AND RE-USE EXISTING LOW AND HIGH VOLTAGE TERMINATION PANELS FROM OLD WET WELL TOP AND INSTALL WITH SAME MOUNTING CONFIGURATIONS ON NEW WET WELL TOP.

**GENERAL CONSTRUCTION NOTES:**

- CONTRACTOR SHALL COORDINATE AND SCHEDULE WITH THE OWNER (JWSC) ANY SYSTEM SHUTDOWNS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER, JOINT WATER & SEWER COMMISSION CONTACT TODD KLINE, P.E. AT 912-261-7122.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN BY-PASS PUMPING DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PREPARE & SUBMIT A BY-PASS PLAN TO THE ENGINEER AND/OR THE JWSC FOR REVIEW AND APPROVAL.
- ALL WORK TO BE PERFORMED THAT IS NOT DEFINED BY THE CONTRACT DOCUMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STATE, COUNTY AND/OR LOCAL CODES.
- CONTRACTOR TO PROVIDE AND MAINTAIN ALL NECESSARY BARRICADES, SUFFICIENT LIGHTING, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE DURATION OF THE OF THE PROPOSED CONSTRUCTION IMPROVEMENTS.
- THE UTILITIES SHOWN ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE UTILITIES OTHER THAN THOSE SHOWN ON THESE PLANS. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IS SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF WORK. DAMAGES MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. CONTRACTOR SHALL NOTIFY ALL UTILITY OWNER AT LEAST 72 HOURS PRIOR TO CONSTRUCTION (811 OR 800-282-7411). ANY CONFLICTS SHALL BE IMMEDIATELY REPORTED TO THE OWNER.
- CONTRACTOR SHALL NOTIFY USING AGENCY AT LEAST 72 HOURS IN ADVANCE IF ANY UTILITY SERVICE (E.G. WATER, SEWER, GAS, POWER, TELEPHONE, ETC.) IS TO BE TEMPORARILY INTERRUPTED IN ORDER TO CONSTRUCT IMPROVEMENTS.
- CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED STATE & LOCAL PERMITTING FOR CONSTRUCTION.
- EXISTING DISCHARGE PIPING & VALVING TO BE REMOVED AND DELIVERED TO JWSC.
- CONTRACTOR TO SANDBLAST ALL METAL SURFACES TO WHITE CONDITION (BARE, CLEAN METAL) & RE-COAT PER SPECIFICATIONS.
- ALL FLANGED DUCTILE IRON PIPE AND FITTINGS TO BE FIELD PAINTED IN ACCORDANCE WITH JWSC STANDARDS AND SHALL BE INTERNALLY LINED WITH PROTECTO 401 SEWER SAFE LINING FOR RAW SEWAGE APPLICATIONS. ANY DUCTILE IRON PIPE AND FITTINGS INSIDE THE WET WELL SHALL RECEIVE TWO COATS OF COAL TAR EPOXY (TNEC SERIES 46-46, TNECOCOLOR OR APPROVED EQUAL).
- ALL BURIED FITTINGS SHALL BE MECHANICAL JOINT WITH MEGA-LUG JOINT RESTRAINTS.
- ALL METALLIC FASTENERS & HARDWARE TO BE 316 STAINLESS STEEL.
- USE LINK-SEAL ON ALL VAULT PENETRATIONS.
- COORDINATE WITH JWSC WATER DISTRIBUTION DIVISION FOR RELOCATION OF EXISTING WATER SERVICE(S).



PLAN VIEW  
SCALE: NTS



SECTION A:A  
SCALE: NTS

SECTION B:B  
SCALE: NTS

FACILITY BYPASS PUMPING CONNECTION  
SCALE: NTS



**CALL BEFORE YOU DIG!**  
At least 72 hours prior to commencement of the work, the Contractor is responsible for calling the Utilities Protection Center (UPC) at 1-800-282-7411, to request underground utility locate service.



BRUNSWICK-GLYNN COUNTY  
JOINT WATER & SEWER COMMISSION  
PLANNING & CONSTRUCTION DIVISION

1703 Gloucester Street  
Brunswick, Georgia 31520  
(912) 261-7110 Phone  
(912) 261-7178 Fax  
www.bgjwsc.org

NO.	DATE	COMMENTS
1	07-06-2020	Revisions from previously advertised ITB NO. 20-007

REVISIONS

PS4021 REHABILITATION AND  
UPGRADE  
GLYNN COUNTY, GEORGIA

BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

PROPOSED PLAN

FILE NO.: PS4021  
DATE: JULY 09, 2020  
SCALE: AS SHOWN  
DRAWN BY: HP

SHEET NO.:

P-4

OF 6

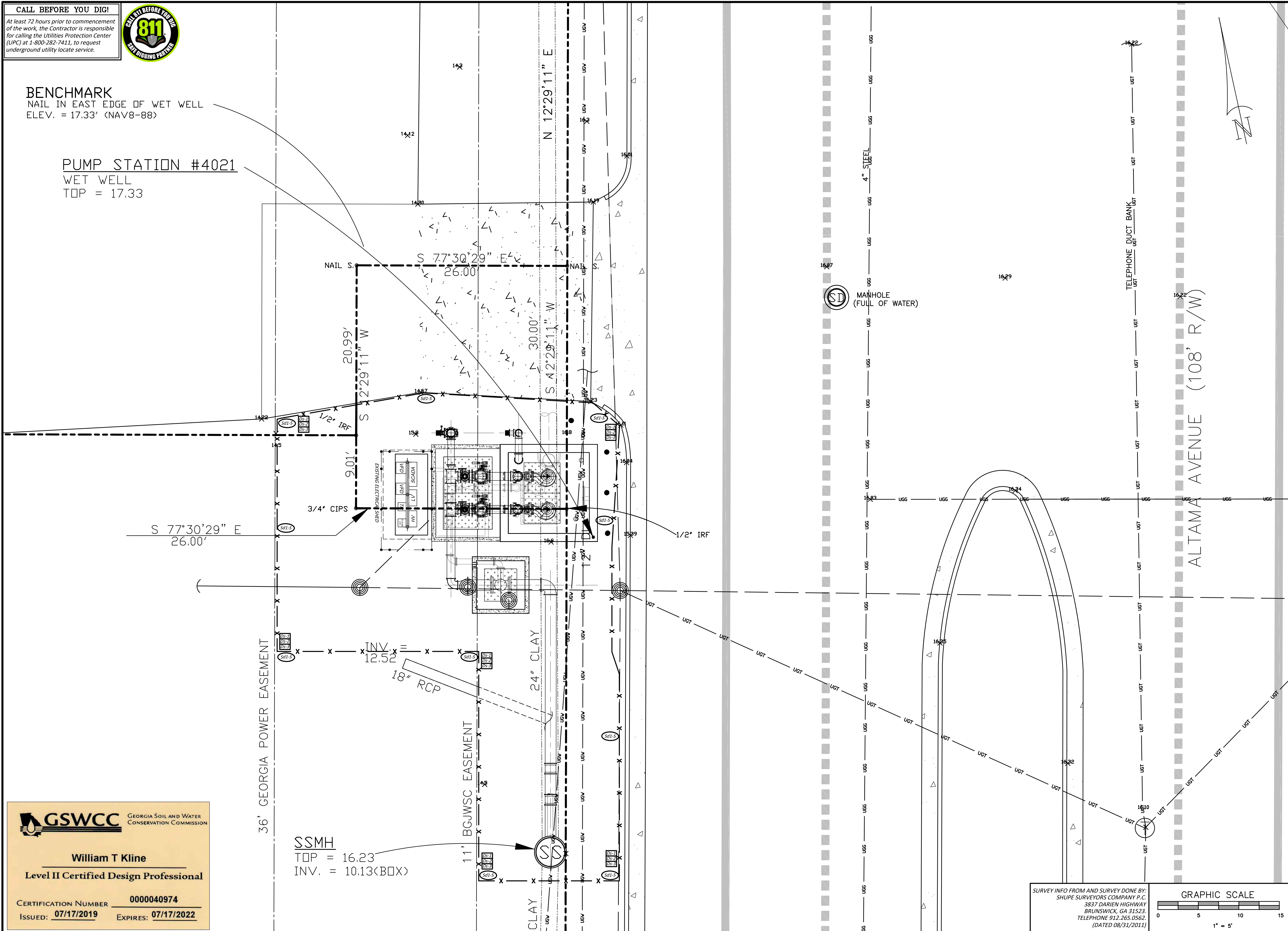
CALL BEFORE YOU DIG!

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**BENCHMARK**  
NAIL IN EAST EDGE OF WET WELL  
ELEV. = 17.33' (NAV8-88)

**PUMP STATION #4021**  
WET WELL  
TOP = 17.33



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NO.	DATE	COMMENTS
1	07-06-2020	Revisions from previously advertised ITB NO. 20-007

**PS4021 REHABILITATION AND UPGRADE**  
GLYNN COUNTY, GEORGIA  
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION  
**EROSION & SEDIMENTATION CONTROL PLAN**

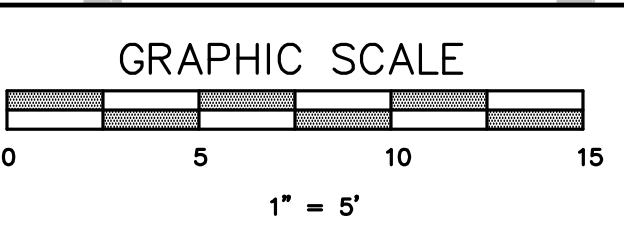
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DATE: JULY 06, 2020	OF 6
SCALE: AS SHOWN	
DRAWN BY: HJP	

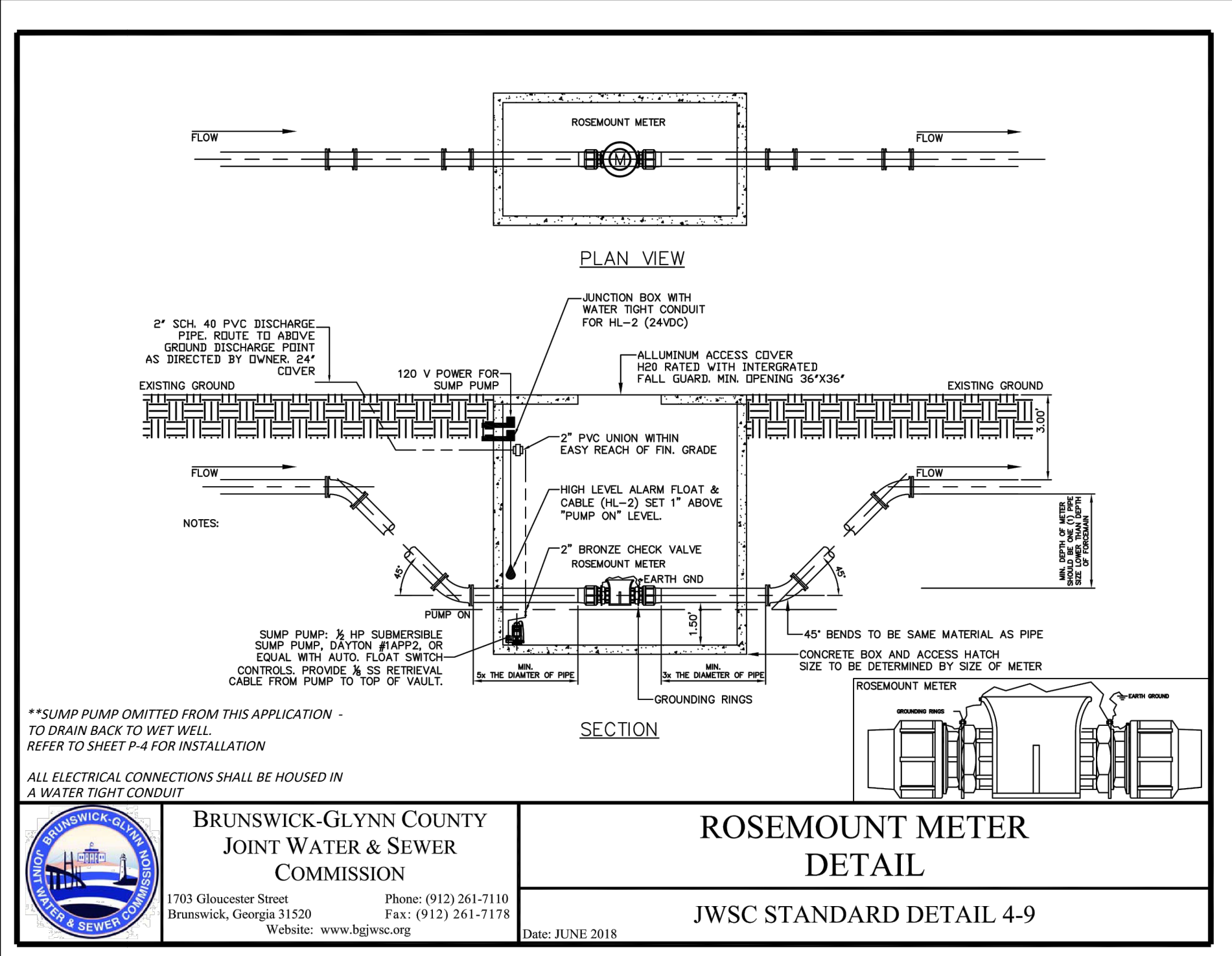
**GSWCC** GEORGIA SOIL AND WATER CONSERVATION COMMISSION

**William T Kline**  
Level II Certified Design Professional

CERTIFICATION NUMBER **0000040974**  
ISSUED: **07/17/2019** EXPIRES: **07/17/2022**

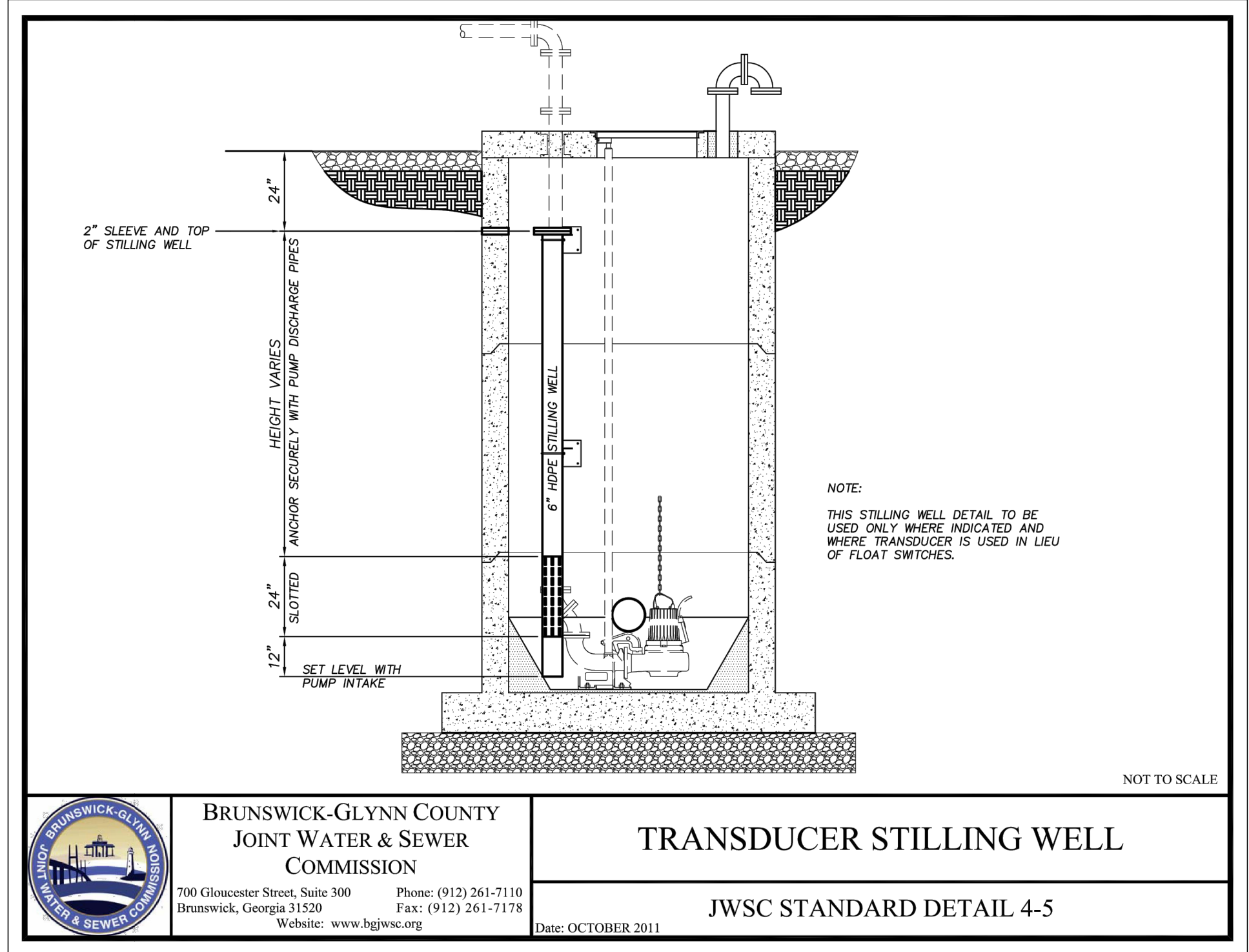
SURVEY INFO FROM AND SURVEY DONE BY:  
SHUPE SURVEYORS COMPANY P.C.  
3837 DARIEN HIGHWAY  
BRUNSWICK, GA 31523  
TELEPHONE 912.265.0562  
(DATED 08/31/2011)





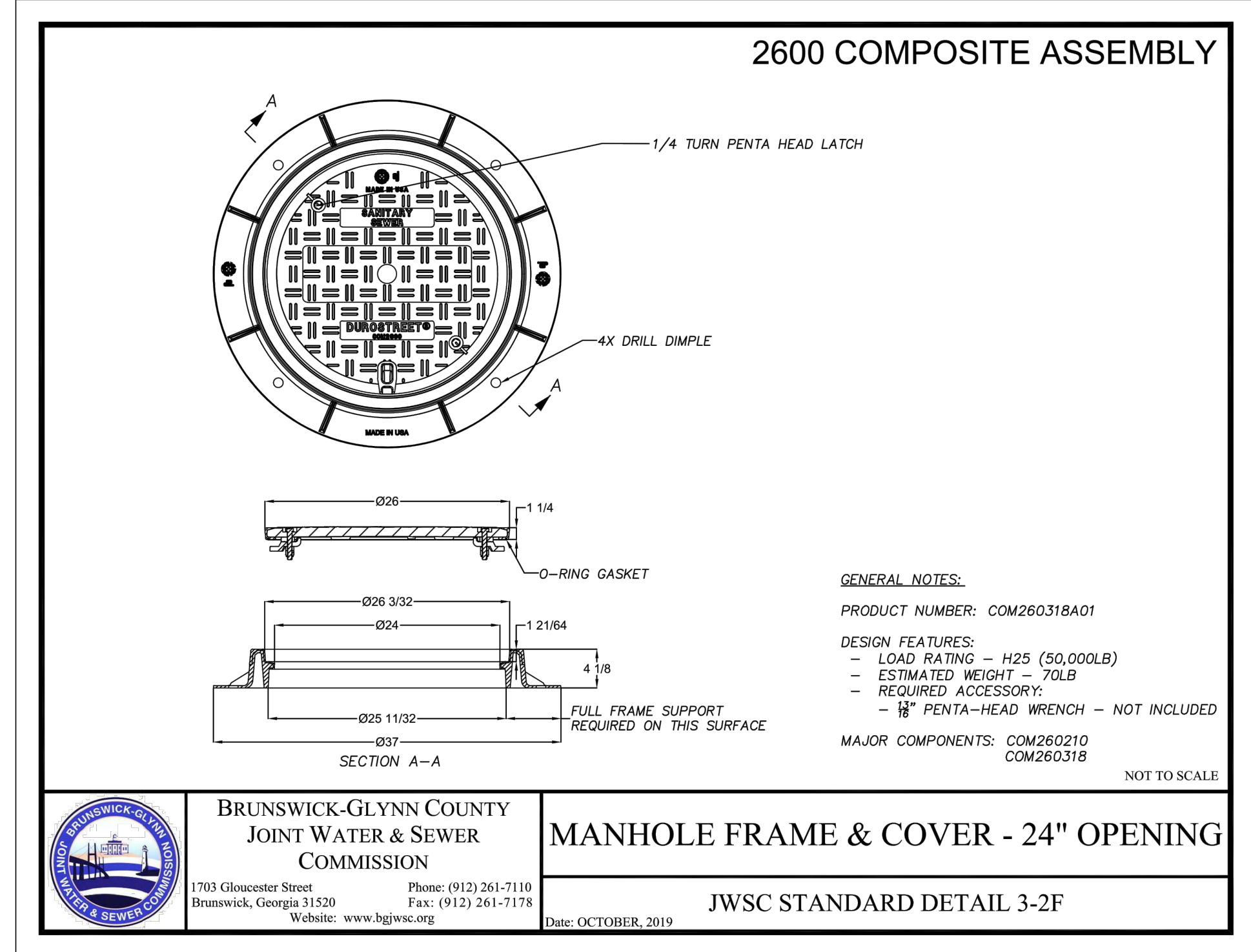
**BRUNSWICK-GLYNN COUNTY  
JOINT WATER & SEWER  
COMMISSION**  
1703 Gloucester Street Brunswick, Georgia 31520  
Phone: (912) 261-7110 Fax: (912) 261-7178  
Website: www.bgjwsc.org  
Date: JUNE 2018

**ROSEMOUNT METER  
DETAIL**  
JWSC STANDARD DETAIL 4-9



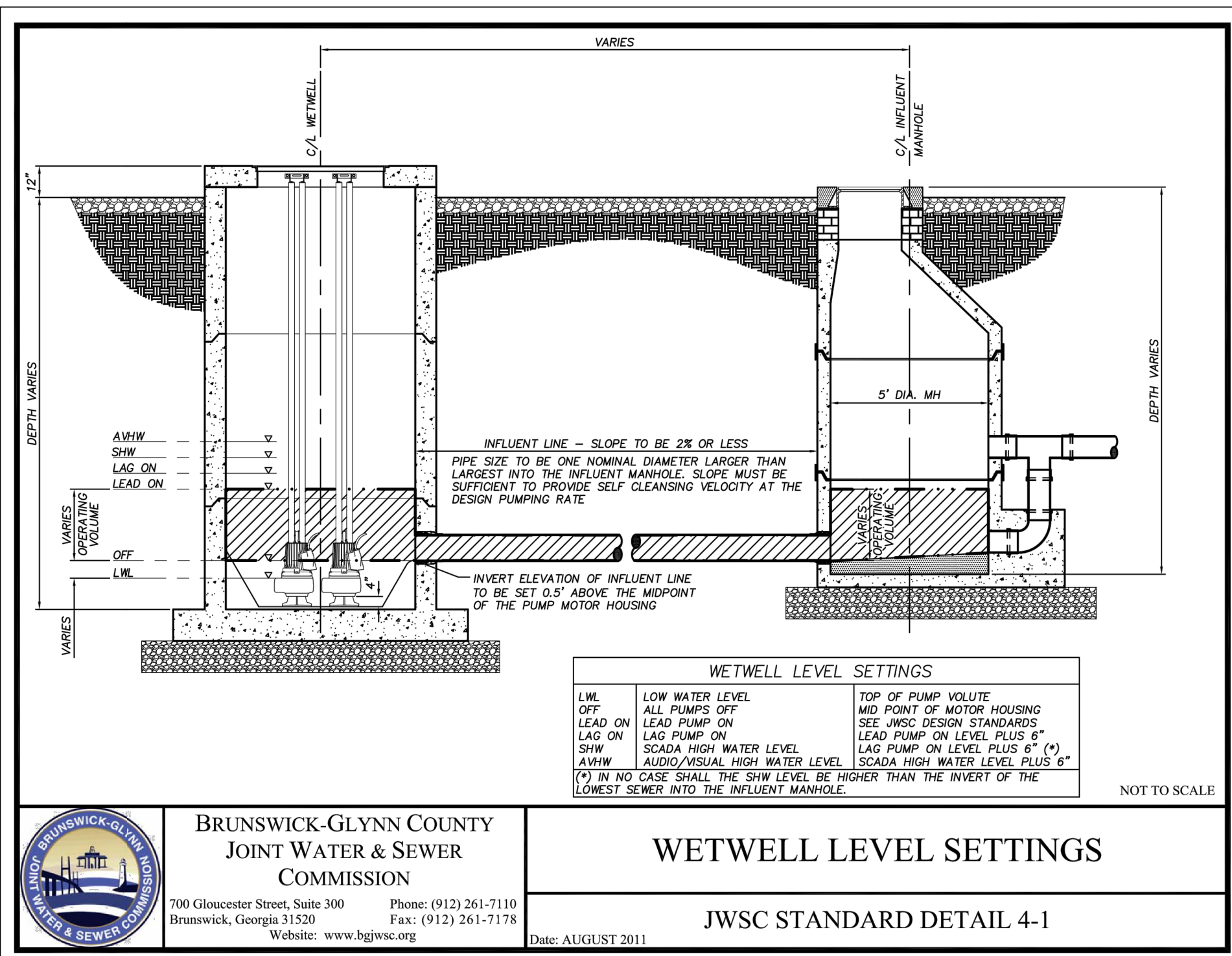
**BRUNSWICK-GLYNN COUNTY  
JOINT WATER & SEWER  
COMMISSION**  
700 Gloucester Street, Suite 300 Brunswick, Georgia 31520  
Phone: (912) 261-7110 Fax: (912) 261-7178  
Website: www.bgjwsc.org  
Date: OCTOBER 2011

**TRANSDUCER STILLING WELL**  
JWSC STANDARD DETAIL 4-5



**BRUNSWICK-GLYNN COUNTY  
JOINT WATER & SEWER  
COMMISSION**  
1703 Gloucester Street Brunswick, Georgia 31520  
Phone: (912) 261-7110 Fax: (912) 261-7178  
Website: www.bgjwsc.org  
Date: OCTOBER 2019

**MANHOLE FRAME & COVER - 24\"/>**



**BRUNSWICK-GLYNN COUNTY  
JOINT WATER & SEWER  
COMMISSION**  
700 Gloucester Street, Suite 300 Brunswick, Georgia 31520  
Phone: (912) 261-7110 Fax: (912) 261-7178  
Website: www.bgjwsc.org  
Date: AUGUST 2011

**WETWELL LEVEL SETTINGS**  
JWSC STANDARD DETAIL 4-1



**BRUNSWICK-GLYNN COUNTY  
JOINT WATER & SEWER COMMISSION  
PLANNING & CONSTRUCTION DIVISION**  
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Website: www.bgjwsc.org

NO.	DATE	COMMENTS
1	07-06-2020	Revisions from previously advertised ITB NO. 20-0407

**PS4021 REHABILITATION AND  
UPGRADE**  
GLYNN COUNTY, GEORGIA  
BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION

FILE NO.: PS4021  
DATE: JULY 06, 2020  
SCALE: AS SHOWN  
DRAWN BY: HP

SHEET NO.: **P-6**



**CALL BEFORE YOU DIG!**  
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REVISIONS

JWSC DETAILS