

EXIT 29 WATER PRODUCTION FACILITY & ELEVATED STORAGE TANK: DIVISION II REBID

JWSC PROJECT #2216S GLYNN COUNTY, GEORGIA

COMMISION MEMBERS

Mr. Ben Turnipseed, P.E., Chairman

Mr. Clayton Watson, Vice Chairman

Mr. Charles S. Cook

Mr. Wayne Neal

Mr. Lance Sabbe

Mr. David Ford, P.E.

Mr. Chad Strickland

PREPARED FOR:

BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

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1703 GLOUCESTER STREET BRUNSWICK, GEORGIA 31520

EXECUTIVE DIRECTOR

Mr. Andrew Burroughs, P.E.

24-Hour Contact: Todd Kline, P.E., Director of Engineering Emergency # (912) 634-0258 Planning & Construction Division: (912) 261-7126

BID ISSUE FEBRUARY 3, 2025 J-30998.0000



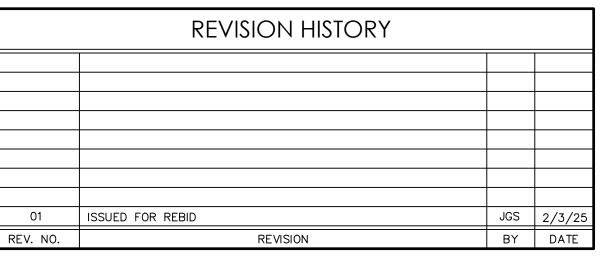
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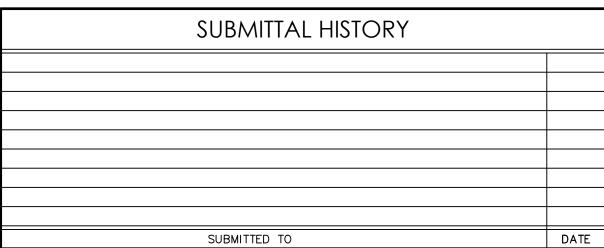
HUTTON

LKCI	PARED	DI.



SITE VICINITY MAP SCALE: 1" = 2000'	ELEVATED STORAGE 1ANK: DIVISION II RE
SCALE: 1" = 2000'	02/0







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EROSION CONTROL NOTES

EROSION CONTROL NOTES

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Sheet Number

C2.8

EC2.4



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 1-800-212-7411 to request underground utility locate service.

- TOPOGRAPHIC INFORMATION FOR EXIT 29 WPF & ELEVATED STORAGE TANK IS BASED ON SURVEY PERFORMED BY THOMAS & HUTTON IN AUGUST 2023. AVAILABLE RESOURCES INCLUDING AERIAL PHOTOGRAPHY, LIDAR AND GIS DATA COLLECTED BY THOMAS & HUTTON. ALL RIGHT-OF-WAY, ROADWAY, SANITARY SEWER, WATER MAIN, AND GAS MAIN LOCATIONS AS SHOWN ARE APPROXIMATE AND ARE BASED ON THE REFERENCED INFORMATION. THOMAS & HUTTON HAS PERFORMED NO FIELD INVESTIGATIONS TO VERIFY SITE CONDITIONS. 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.
- 3. ALL ELEVATIONS REFER TO NAVD 88.
- 4. 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. FENCING SHALL CONFORM TO THE TREE PROTECTION DETAILS AS SHOWN.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH LOCAL UTILITY COMPANIES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION AND ANY NECESSARY REPAIRS TO EXISTING UTILITY LINES.
- 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 OR BETTER.
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE BEGINNING ANY CONSTRUCTION (1-800-282-7411 OR 811).
- 9. 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
- 10. 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.
- 11. 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
- 12. 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.
- 13. 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.
- 14. 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 AND ENGINEER FOR REVIEW AND ACCEPTANCE PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING AN ENCROACHMENT PERMIT FROM GLYNN COUNTY. THIS APPLICATION SHALL BE PRODUCED IN ACCORDANCE WITH GDOT'S "REGULATIONS FOR DRIVEWAY & ENCROACHMENT CONTROL MANUAL."
- 15. ALL WORK SHALL CONFORM TO APPLICABLE STATE, COUNTY AND MUNICIPAL REQUIREMENTS AND
- 16. THE CONTRACTOR SHALL COORDINATE DEMOLITION AND IMPROVEMENTS TO MINIMIZE TRAFFIC INTERFERENCE AND OPERATIONS OF FACILITIES.
- 17. 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.
- 18. ALL STORM DRAIN JOINTS ARE TO BE WRAPPED IN FILTER FABRIC.
- 19. THE CONTRACTOR SHALL NOT BEGIN CONSTRUCTION UNTIL THE PROPER PERMITS HAVE BEEN ISSUED.
- 20. 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.
- 21. 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 SHALL BE ENCASED WITH DUCTILE IRON PIPE UNTIL REQUIREMENTS ARE MET.
- 22. ALL MANHOLE TOPS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND SET MANHOLE TOPS RELATIVE TO FINISHED GRADES AS SHOWN ON THE PLANS.
- 23. 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.
- 24. 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 RELAIMED WATER PIPE SHALL BE PURPLE IN COLOR.
- 25. 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.
- 26. 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.
- 27. A #10 GAUGE INSULATED SINGLE STRAND COPPER WIRE SHALL BE STRAPPED TO ALL WATER AND SEWER PIPES. FOR RECLAIMED WATER PIPE USE #10 GAUGE INSULATED SINGLE STRAND COPPER WIRE, STATE LAW REQUIRES PURPLE IN COLOR.

72 HRS. NOTICE 1-800-282-7411

Know what's below.

Call before you dig.

- 28. 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 AT NO ADDITIONAL COST TO OWNER.
- 29. 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.
- 30. "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 FLASH DRIVE 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 MANHOLES, WATER PIPES, SEWER PIPES, FITTINGS, RIP-RAP, SLEEVES, PAVING AND GRAVEL REPLACEMENT, STORM SEWER REPLACEMENT AND ALL OTHER CONSTRUCTION INSTALLATIONS.
- 31. 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).
- 32. 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.
- 33. ALL CONSTRUCTION WATER SHALL BE METERED THROUGH AN ACCEPTABLE HYDRANT METER AND BACKFLOW DEVICE OBTAINED FROM THE BRUNSWICK-GLYNN COUNTY JOINT WATER & SEWER COMMISSION (BGJWSC).
- 34. 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 &
- 35. ALL DISTURBED AREAS SHALL BE GRASSED WITH TEMPORARY SEEDING AND HYDROMULCHED IMMEDIATELY AFTER GRADING IS COMPLETE. THESE AREAS SHALL BE REGRASSED WITH HYDROMULCH AFTER CONSTRUCTION IS COMPLETE.
- 36. 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.
- 37. THE CONTRACTOR SHALL IMMEDIATELY REPAIR EXISTING WATER & SEWER SERVICES DAMAGED DURING CONSTRUCTION AT THE CONTRACTORS EXPENSE.
- 38. 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 THE BGJWSC 24-HOUR CONTACT PERSON IDENTIFIED ON THE COVER A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION ACTIVITIES.
- 39. THE BGJWSC RESERVES FIRST RIGHT OF SALVAGE FOR ALL EQUIPMENT REMOVAL AT EACH SITE.
- 40. 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.
- 41. 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 PROJECT SITE.
- 42. CONTRACTOR SHALL CONSULT GEOTECHNICAL REPORT AND ESA REPORT DURING CONSTRUCTION AND ANY AND ALL DESIGN.
- 43. ALL DOOR HARDWARE LOCK ASSEMBLY IS TO BE RE-KEYED TO FIT THE WATER PRODUCTION MASTER KEY. CONTRACTOR IS TO PROVIDE TWO (2) SPARE KEYS PER ASSEMBLY SET.
- 44. THIS PROJECT INCLUDES PUBLICLY OWNED WATER AND WASTEWATER FACILITIES. THESE FACILITIES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST VERSION OF THE JWSC DESIGN & CONSTRUCTION STANDARDS AND WILL BE DEDICATED TO THE BGJWSC FOR OWNERSHIP, OPERATION, AND MAINTENANCE RESPONSIBILITY.

DIVISIONS:

THE WORK HAS BEEN DIVIDED INTO THREE (3) DIVISIONS AND CAN BE GENERALLY DESCRIBED AS:

DIVISION I: WELL TREATMENT, PUMP/CONTROL BUILDING, & 200,000 GALLON GROUND WATER STORAGE

- A 200,000-GALLON PRE-STRESSED CONCRETE GROUND WATER STORAGE TANK,
- A TWO (2) PUMP WATER PRODUCTION FACILITY
- SITE PIPING AND GRADING
- SITE PREPARATION, SELECTIVE DEMOLITION, PIPING, TANK DESIGN, PAINTING, CHLORINATION, ALL ELECTRICAL, SCADA, CONCRETE, AND OTHER ACCESSORIES AS SHOWN ON THE PLANS. WORK SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, APPURTENANCES AND INCIDENTALS

DIVISION II: 500,000 GALLON ELEVATED WATER STORAGE TANK & FINISHED WATER EXTENSION:

- A 500,000-GALLON ELEVATED WATER STORAGE TANK
- APPROXIMATELY 1,100 LF OF 12" DISTRIBUTION PIPING
- SITE PIPING AND GRADING
- SITE PREPARATION, FENCE WORK, CLEARING AND GRUBBING, ACCESS ROUTES, PIPING, TANK DESIGN, PAINTING, ALL ELECTRICAL, SCADA, CONCRETE, AND OTHER ACCESSORIES AS SHOWN ON THE PLANS. WORK SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, APPURTENANCES AND INCIDENTALS

DIVISION III: WATER DISTRIBUTION SYSTEM

- APPROXIMATELY 200 LF OF OPEN CUT 8" PVC PIPING,
- APPROXIMATELY 200 LF OF 8" HORIZONTAL DIRECTIONAL DRILL FPVC PIPING
- ALL TRAFFIC CONTROL, SITE CLEARING AND RESTORATION, EARTHWORK, CONCRETE WORK, VALVES, AND APPURTENANCES INCIDENTAL TO COMPLETING THIS PROJECT. WORK SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, APPURTENANCES AND INCIDENTALS

DIVISIONS I AND III, ASSOCIATED WITH THE WATER PRODUCTION FACILITY AND MISCELLANEOUS PIPING WERE AWARDED ON JANUARY 16TH, 2025 BY BRUNSWICK-GLYNN COUNTY JOINT WATER AND SEWER COMMISSION. NO COORDINATION BETWEEN DIVISIONS I, II, AND III IS ANTICIPATED.

LEGEND:

BENCHMARK

CABLE BOX

CHECK VALVE CLEAN OUT

COMPUTED POINT (NO MONUMENT)

CONC. MONUMENT FOUND CONTROL POINT

CURB INLET MANHOLE

ELECTRIC METER ELECTRIC MANHOLE

ELECTRIC BOX

EVERGREEN TREE

FIRE HYDRANT FLAG POLE

FLOOD LIGHT

FLUSH VALVE

GRATE INLET

IRRIGATION CONTROL VALVE

IRON PIPE FOUND

IRON REBAR FOUND IRON REBAR SET 5/8"

SWEET GUM TREE

UNDERGROUND UTILITY LINE MARKER

LIGHT POLE

MAIL BOX

OAK TREE

PINE TREE

PALM TREE

POST POWER POLE

STORM DRAINAGE MANHOLE

SPRINKLER HEAD

SANITARY MANHOLE

LINE-TYPE LEGEND (UTILITIES)

____ x ___ x —— UTL ——— UTL ——— UTL ——— UTL ——— UTL ———— UTL ———

EXISTING WOODS LINE

EXISTING CHAIN LINK/WOODEN FENCE EXISTING ROAD CENTER-LINE EXISTING UNDERGROUND TELEPHONE LINE EXISTING UNDERGROUND NATURAL GAS LINE —— OHP —— OHP —— OHP —— OHP —— OHP —— EXISTING OVERHEAD POWER LINE

TELEPHONE BOX

WATER METER

WATER SPIGOT

WATER VALVE

WATER MANHOLE

TELEPHONE MANHOLE

TRAFFIC SWITCH BOX

EXISTING UNDERGROUND POWER LINE —— UGP —— UGP —— UGP —— UGP —— UGP ——

HATCH PATTERN LEGEND

ASPHALT PAVEMENT

CONCRETE PAVEMENT

REVISIONS

01 ISSUED FOR REBID



BY DATE



50 Park of Commerce Way Savannah, GA 31405 • 912.234.5300 www.thomasandhutton.com

GENERAL NOTES

EXIT 29 WATER PRODUCTION FACILITY & **ELEVATED STORAGE TANK:** DIVISION II REBID

PROJECT LOCATION: GLYNN COUNTY

GEORGIA

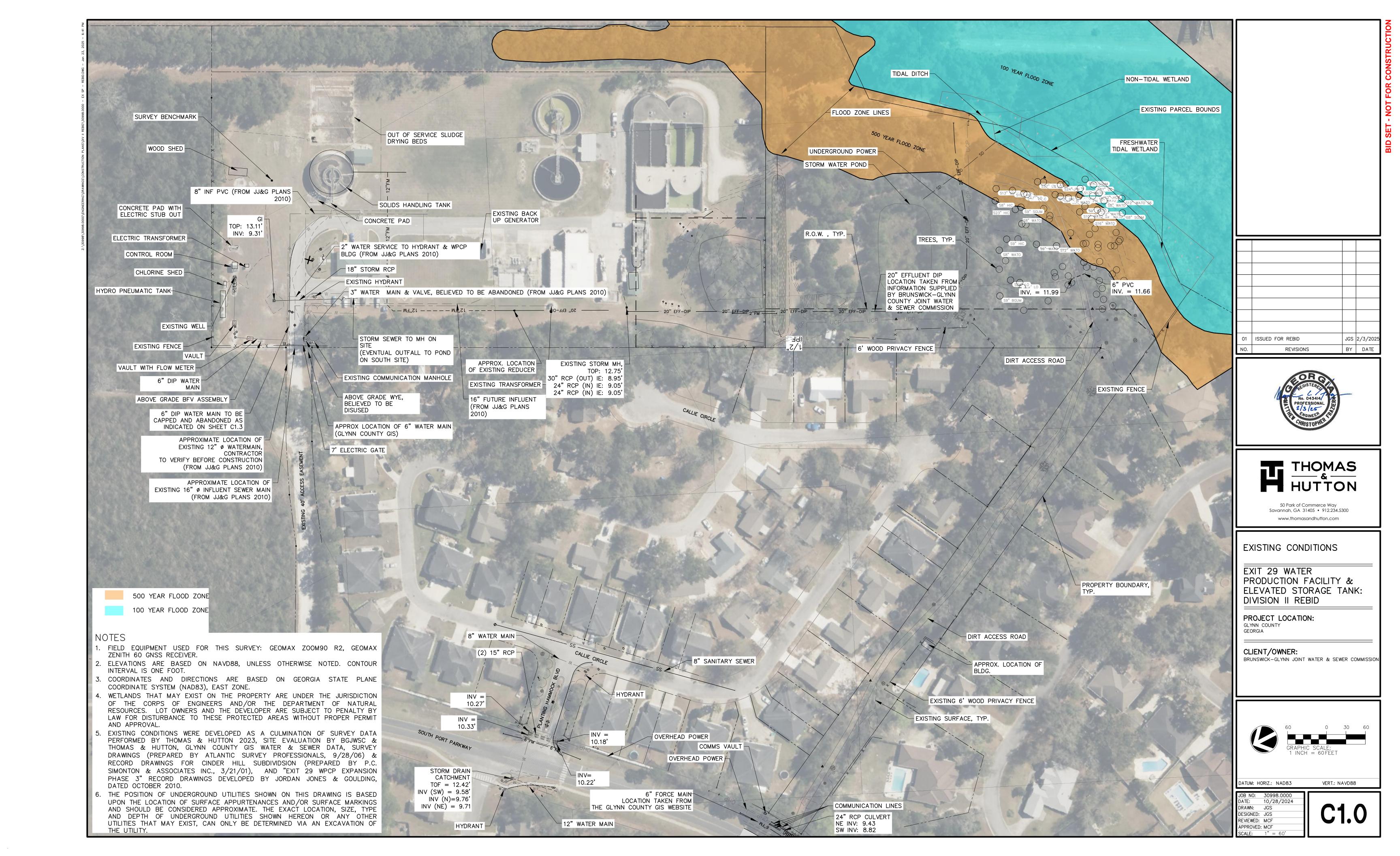
CLIENT/OWNER: BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

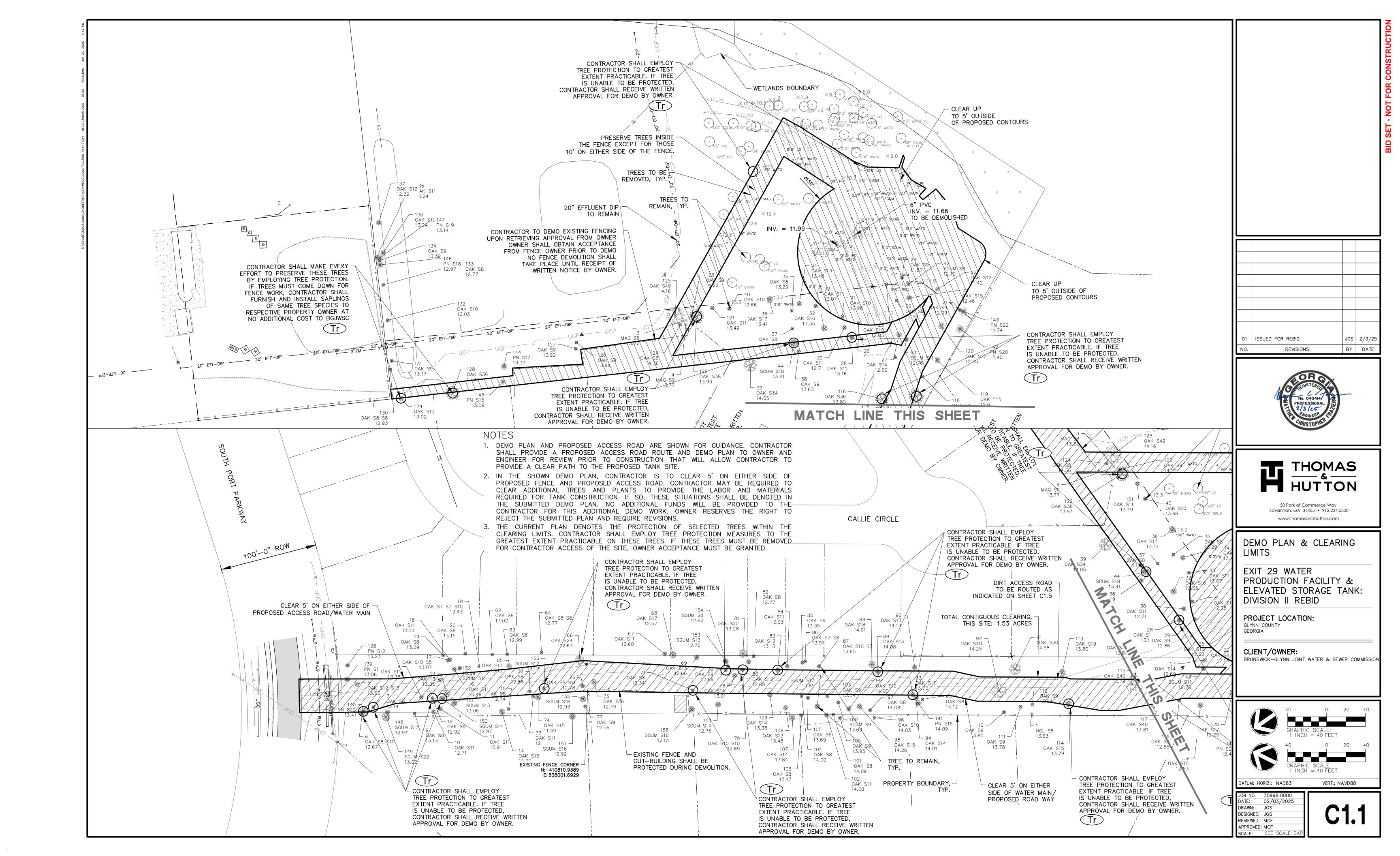
DATUM: HORIZ.:

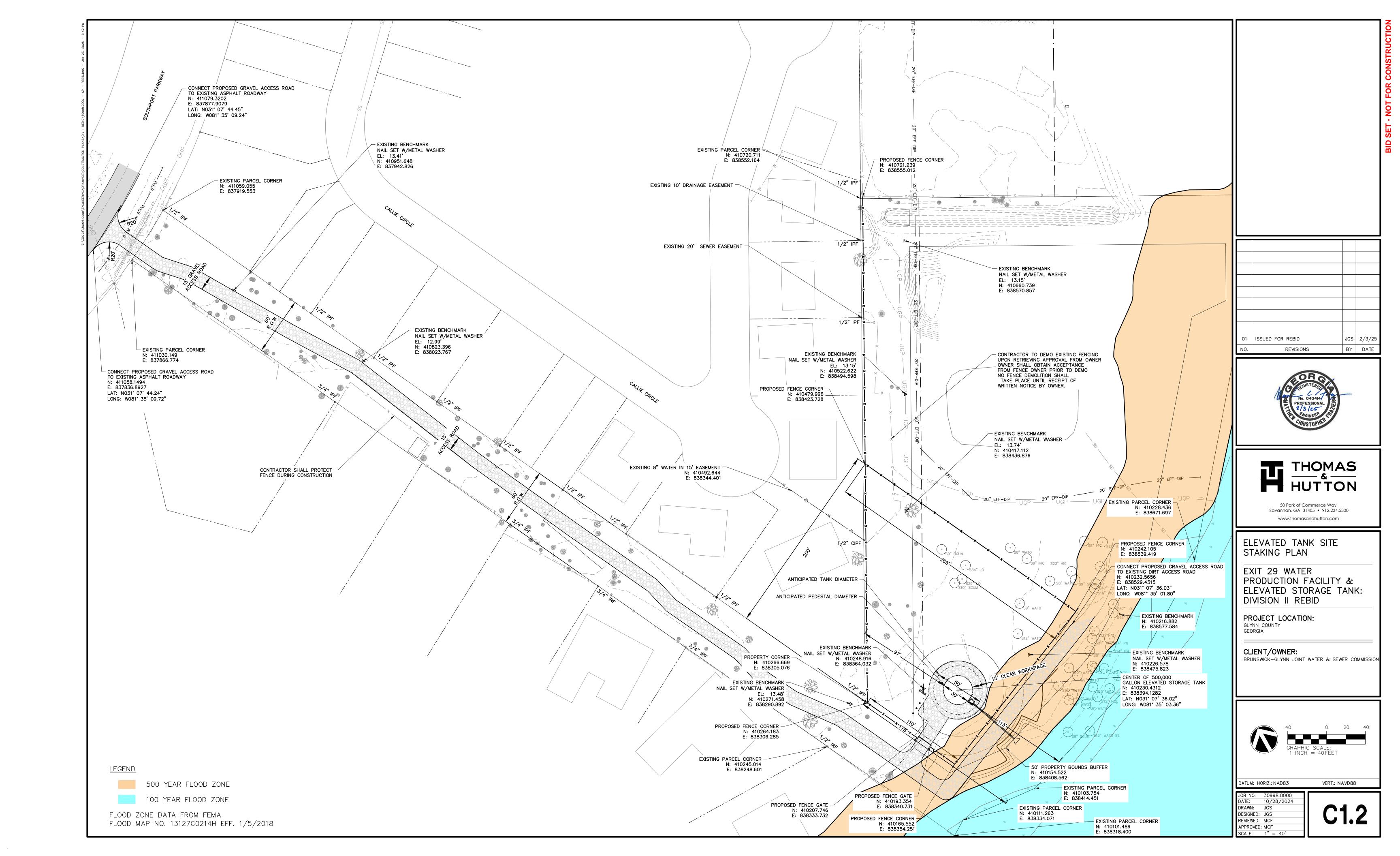
10/28/2024 DRAWN: JGS DESIGNED: JGS REVIEWED: MCF

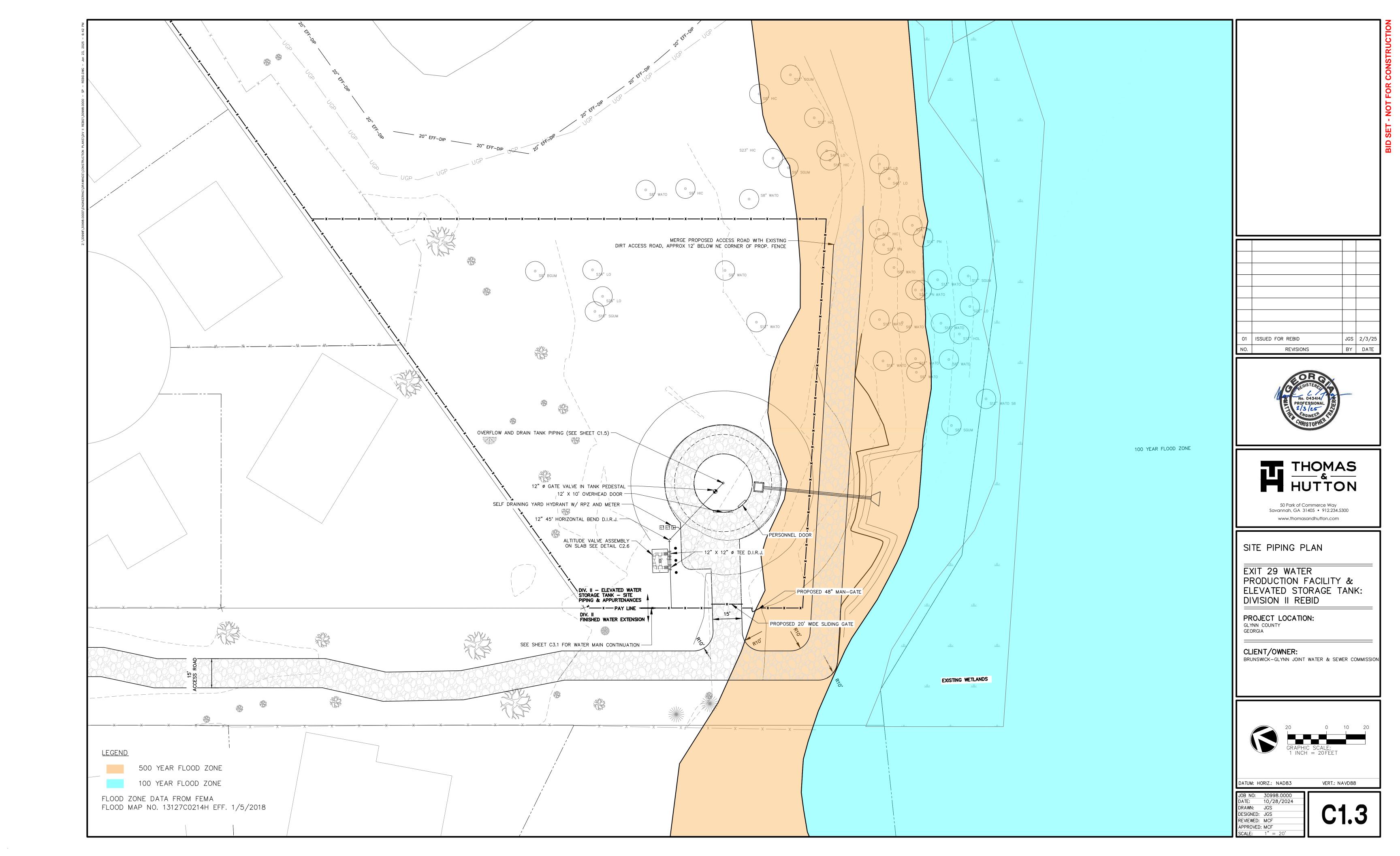
APPROVED: MCF

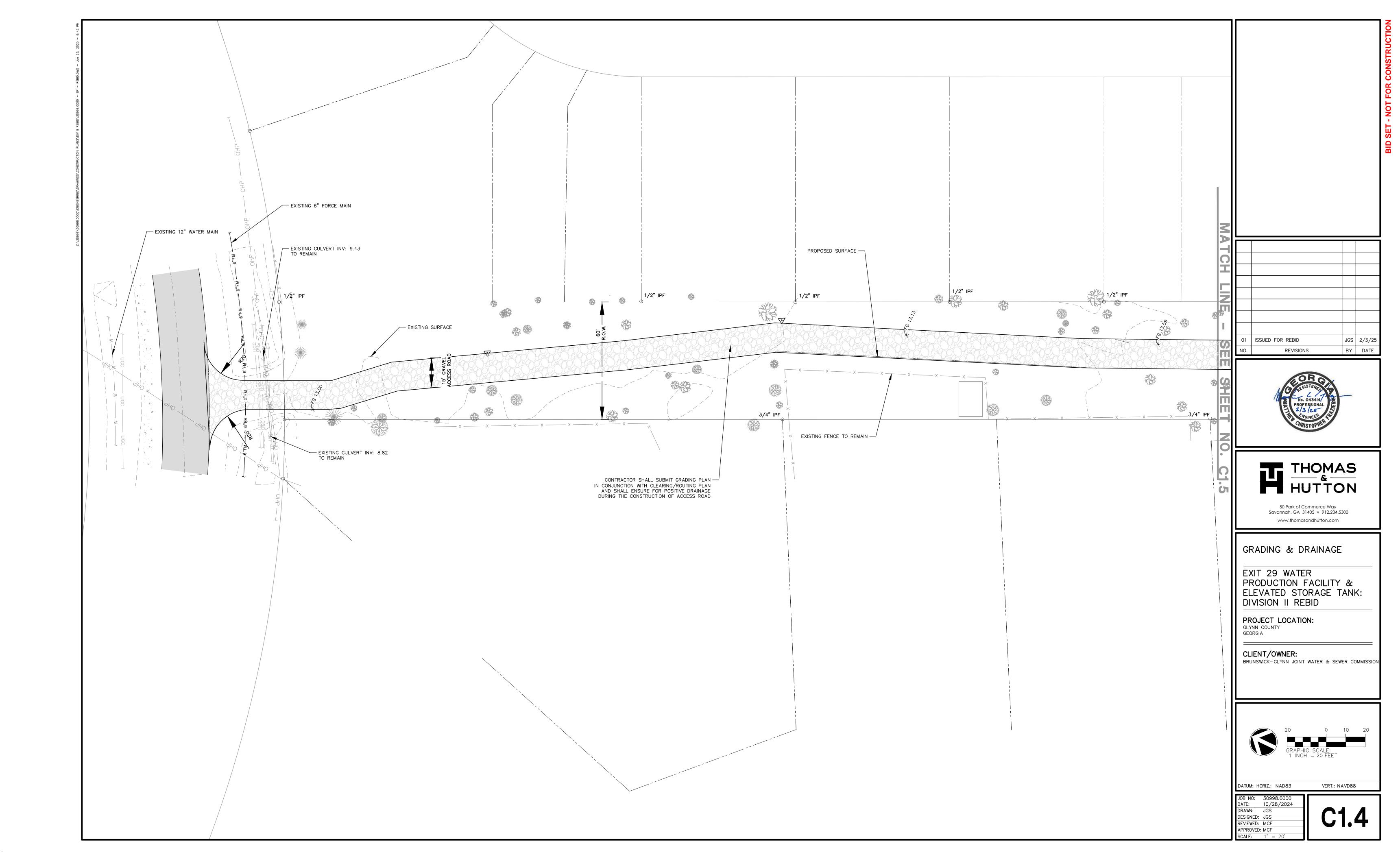
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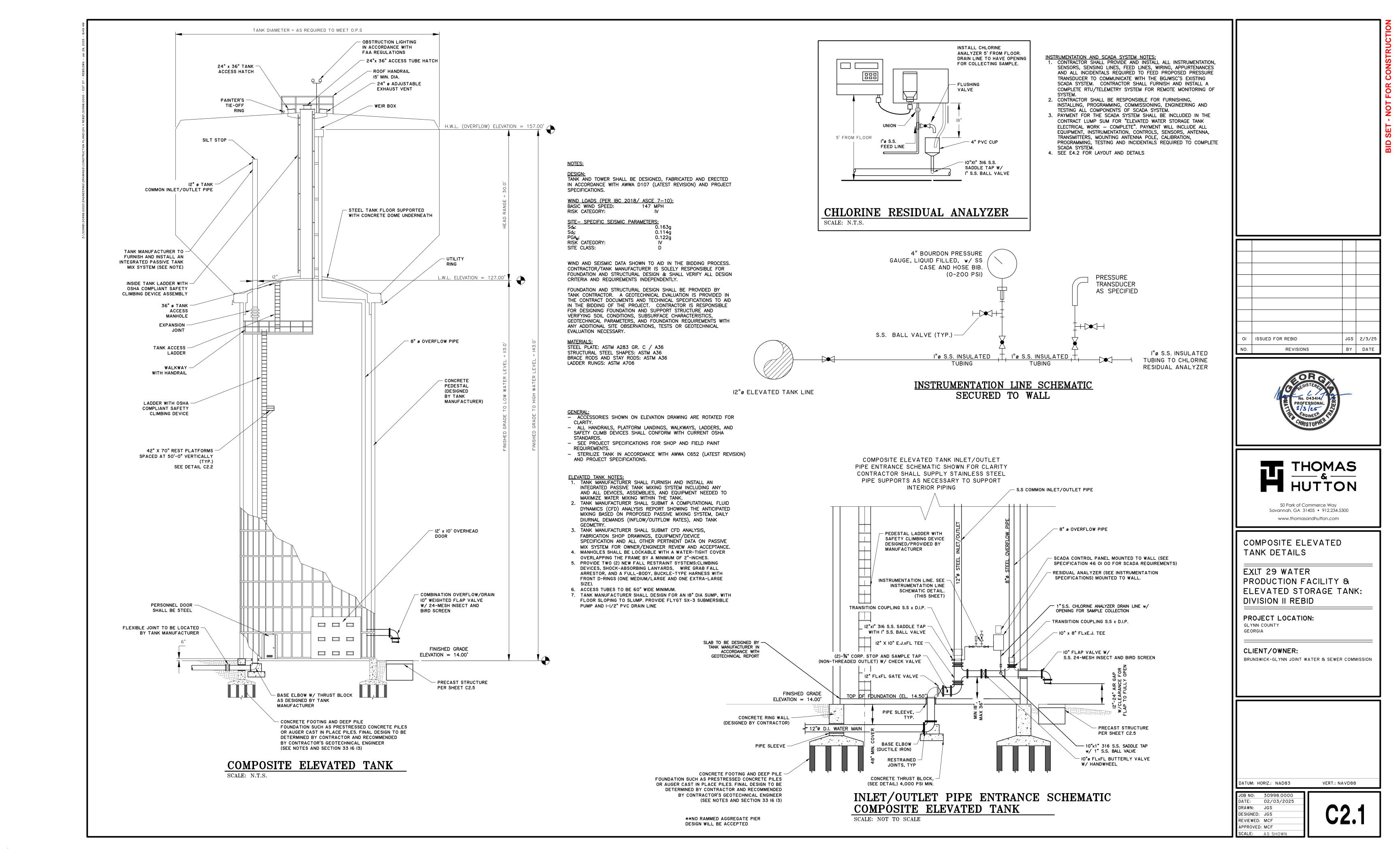


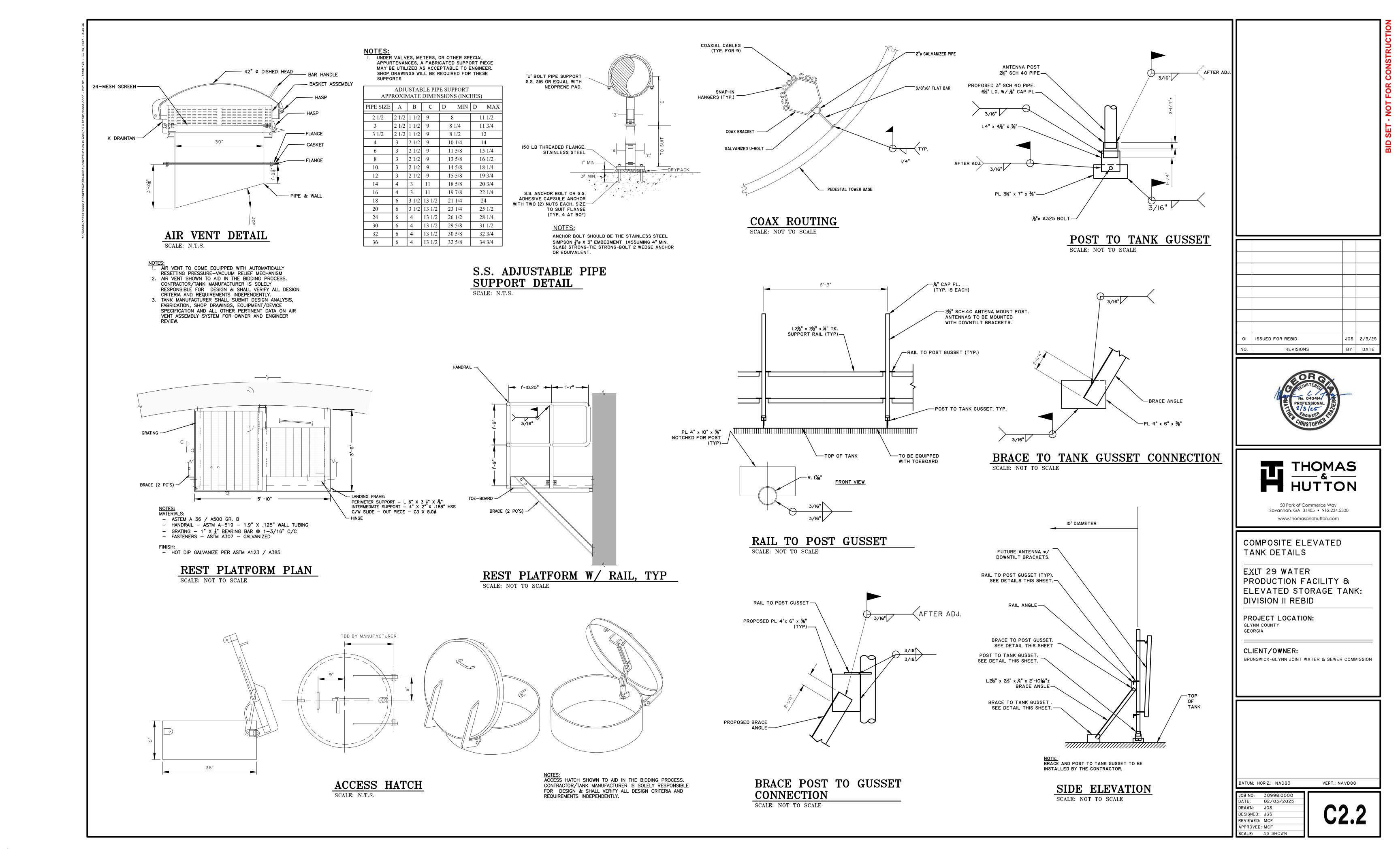


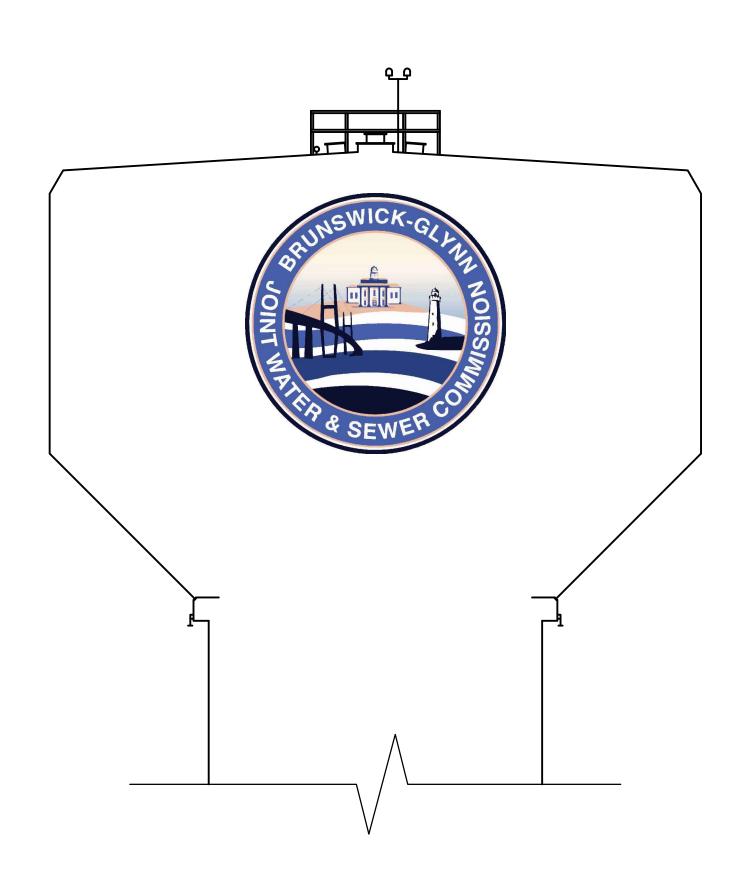












COMPOSITE LOGO DETAIL

SCALE: NONE

OI ISSUED FOR REBID BY DATE





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LOGO DETAILS

EXIT 29 WATER PRODUCTION FACILITY & ELEVATED STORAGE TANK: DIVISION II REBID

PROJECT LOCATION: GLYNN COUNTY

CLIENT/OWNER: BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

- NOTES:
 I. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS TO PAINT THE LETTERING AND LOGO DESIGN AS INDICATED ON THE DRAWINGS. SIZE AND LOCATION OF LETTERING/LOGO SHOWN ARE THE MINIMUM REQUIREMENTS FOR BIDDING PURPOSES.
- 2. ALL PAINTING SHALL BE IN ACCORDANCE WITH AWWA D 102 PAINTING STEEL WATER STORAGE TANKS AND THE STEEL STRUCTURES PAINTING COUNCIL (SSPC) MANUAL AND SPECIFICATIONS.
- 3. TANK AND LETTERING/LOGO COLORS SHALL BE SELECTED BY OWNER PRIOR TO COATING WORK STARTING. CONTRACTOR SHALL PROVIDE COLOR SAMPLES FOR THE SPECIFIED COATING SYSTEMS TO ENGINEER/OWNER FOR REVIEW.
- 4. CONTRACTOR SHALL PREPARE A MOCK-UP FOR EACH COATING SYSTEM USING THE SAME MATERIALS, TOOLS, EQUIPMENT, AND PROCEDURES INTENDED FOR ACTUAL SURFACE PREPARATION AND APPLICATION INCLUDING A MOCK-UP OF LOGO/LETTERING.
- 5. PRE-APPLICATION MEETING: CONTRACTOR SHALL CONVENE A PRE-APPLICATION MEETING WITH ENGINEER, OWNER, CONTRACTOR AND COATING SYSTEM APPLICATOR A MINIMUM OF 2 WEEKS PRIOR TO THE START OF APPLICATION OF COATING SYSTEMS. NO WORK ON COATING MAY BEGIN UNTIL THIS MEETING IS HELD.
- 6. TWO (2) LOGO DESIGNS TO BE PLACED ON OPPOSITE SIDES OF THE TANK FROM EACH OTHER. OWNER SHALL HAVE FINAL SAY ON WHERE THESE FACES SHALL BE PLACED.

DATUM: HORIZ.: NAD83

VERT.: NAVD88

DATE: 02/03/2025 DRAWN: JGS DESIGNED: JGS REVIEWED: MCF

APPROVED: MCF

TRENCH TYPE: 3 COVER: $3' \leq 12"$ DIA. TEST PRESSURE=150 PSI

PVC LINE							
		BEND	ANGLE				
PIPE DIA.	11 ½°	22 ½°	45°	90°			
4	2	4	8	18			
6	3	5	11	25			
8	4	7	14	33			
10	4	8	16	39			
12	5	9	19	45			
16	5	9	19	45			
18	5	10	21	49			
20	6	11	23	54			
24	7	13	26	62			
30	8	15	31	74			

<u>PE WRAPPED DIP</u>: SOIL TYPE: SM TRENCH TYPE: 3 COVER: $3' \le 12$ " DIA. 4' > 12" DIA. TEST PRESSURE=150 PSI

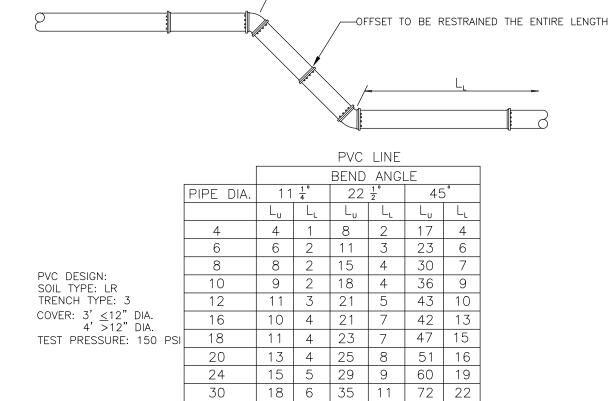
POLYETHYLENE WRAPPED DUCTILE IRON LINE								
			ANGLE					
PIPE DIA.	11 ½°	22 ½°	45°	90°				
4	3	5	9	21				
6	3	6	12	29				
8	4	8	16	38				
10	5	9	19	45				
12	6	11	22	53				
16	6	11	22	52				
18	6	12	24	57				
20	7	13	26	63				
24	8	15	30	73				
30	9	18	36	86				

MINIMUM RESTRAINED LENGTH (L)

NOTES:

- 1. LENGTH OF RESTRAINT SHOWN IS IN FEET, PIPE DIA. IS IN INCHES. 2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF
- REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY. 3. RESTRAINT DESIGN SHALL BE PROJECT SPECIFIC BASED ON GEOTECHNICAL REPORT.

WATER MAIN HORIZONTAL BEND RESTRAINT

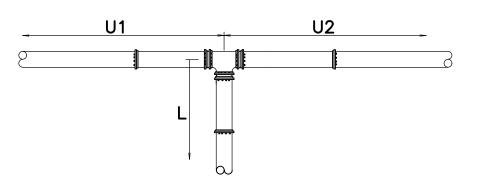


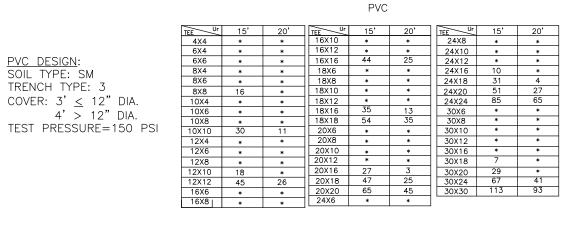
F	POLYETHELY	NE W	VRAPF	PED D	UCTIL	E IRO	N LIN	Ε
				BEND	ANGI	_E		
	PIPE DIA.	11	1 °	22	100	45	. °	
		Lυ	L	Lυ	L	Lυ	L	
	4	6	1	12	2	24	4	
PE WRAPPED DIP: SOIL TYPE: SM	6	9	2	17	3	34	6	
TRENCH TYPE: 3	8	11	2	22	4	45	8	
COVER: 3' ≤12" DIA. 4' >12" DIA.	10	13	3	26	5	54	9	
TEST PRESSURE: 150 PSI	12	15	3	31	5	63	11	
	16	15	4	30	7	63	14	
	18	17	4	34	7	69	15	
	20	19	4	37	8	76	16	

24 | 22 | 5 | 43 | 9 | 89 | 19 |

NOTES: LENGTH OF RESTRAINT SHOWN IS IN FEET. PIPE DIA. IS IN INCHES
 WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

VERTICAL BEND RESTRAINT



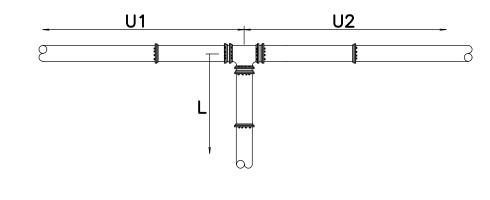


NOTES:

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 3. U1 AND U2 = UNINTERRUPTED STRAIGHT RUNS OF PIPE IN EACH DIRECTION.
- 4. Ur = THE SMALLER OF U1 OR U2
- 5. L = MINIMUM RESTRAINED LENGTH ALONG THE BRANCH. 6. WHERE Ur IS LESS THAN 5', RESTRAIN TEE AS A 90° HORIZONTAL BEND.

WATER MAIN TEE RESTRAINT (PVC PIPE)



		F	OLYETH	YLENE WR	APPED	DUCTILE	IRON PIF	PE	
	TEE Ur	15'	20'	TEE Ur	15'	20'	TEE Ur	15'	20'
	4X4	*	*	16X10	*	*	24X8	*	*
	6X4	*	*	16X12	2	*	24X10	*	*
	6X6	*	*	16X16	65	36	24X12	*	*
	8X4	*	*	18X6	*	*	24X16	14	*
PE WRAPPED DIP:	8X6	*	*	18X8	*	*	24X18	47	6
SOIL TYPE: SM	8X8	24	*	18X10	*	*	24X20	76	40
	10X4	*	*	18X12	*	*	24X24	126	97
TRENCH TYPE: 3	10X6	*	*	18X16	53	20	30X6	*	*
COVER: $3' \leq 12''$ DIA.	10X8	*	*	18X18	80	51	30X8	*	*
4' > 12" DIA.	10X10	44	16	20X6	*	*	30X10	*	*
	12X4	*	*	20X8	*	*	30X12	*	*
TEST PRESSURE=150 PSI	12X6	*	*	20X10	*	*	30X16	*	*
	12X8	*	*	20X12	*	*	30X18	10	*
	12X10	26	*	20X16	40	4	30X20	43	*
	12X12	66	38	20X18	70	37	30X24	99	61
	16X6	*	*	20X20	96	67	30X30	169	138
	16X8	*	*	24X6	*	*]		
				_					

NOTES:

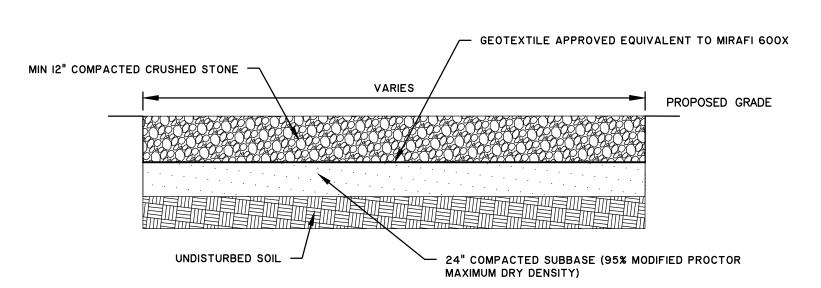
- 1. LENGTH OF RESTRAINT SHOWN IS IN FEET, FITTING DIAMETER ARE IN INCHES.
- 2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY. 3. U1 AND U2 = UNINTERRUPTED STRAIGHT RUNS OF RESTRAINED JOINT PIPE IN EACH

MINIMUM RESTRAINED LENGTH (L)

*RESTRAIN AT TEE ONLY.

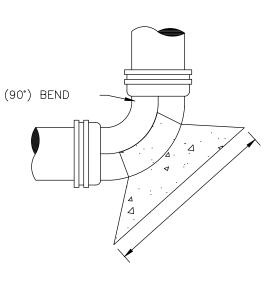
- 4. Ur = THE SMALLER OF U1 OR U2 (E.G., U1, IN THE ABOVE DIAGRAM).
- 5. L = MINIMUM RESTRAINED LENGTH ALONG THE BRANCH. 6. WHERE Ur IS LESS THAN 5', RESTRAIN TEE AS A 90° HORIZONTAL BEND.

WATER MAIN TEE RESTRAINT (DUCTILE IRON PIPE)



SITE CRUSHED STONE SECTION

NOT TO SCALE

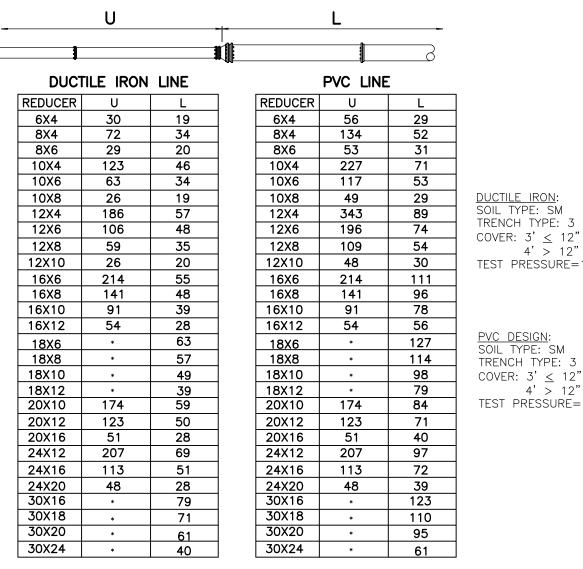


AREA AGAINST UNDISTURBED SOIL $2'-0" \times 2'-0"$ $2'-6" \times 2'-6"$ $3'-0" \times 3'-0"$ $4'-0" \times 4'-0"$ $5'-0" \times 5'-0"$ $6'-0" \times 6'-0"$ $7'-0" \times 7'-0"$ $11'-0" \times 11'-0"$ 20'-0" X 20'-0"

1. ALL BURIED MECHANICAL JOINTS SHALL BE RESTRAINED. 2. CONCRETE THRUST BLOCKS SHALL ONLY BE USED AT DESIGNATED LOCATIONS SHOWN AND SPECIFIED.

THRUST BLOCKS

SCALE: N.T.S.



<u>DUCTILE IRON</u>: SOIL TYPE: SM TRENCH TYPE: 3 COVER: 3' ≤ 12" DIA. TEST PRESSURE=150 PSI * 98 COVER: 3' ≤ 12" DIA. 4' > 12" DIA. TEST PRESSURE=150 PSI

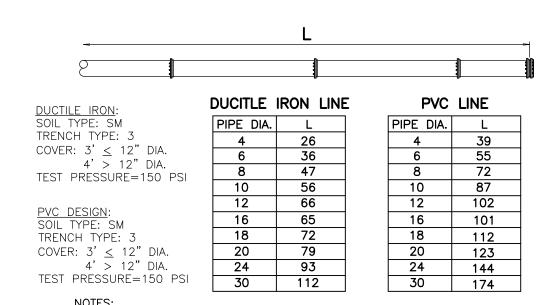
1. LENGTH OF RESTRAINT SHOWN IS IN FEET.
2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN

THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY. U = MINIMUM UNINTERRUPTED STRAIGHT RUN OF PIPE ON

SMALL SIDE OF REDUCER. L = MINIMUM RESTRAINED LENGTH.

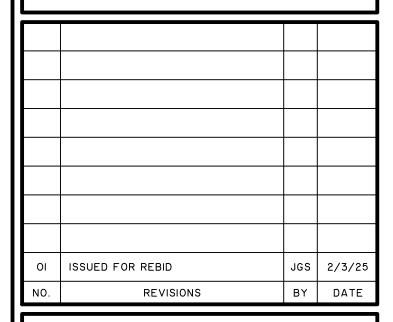
* WHERE MINIMUM "U" IS NOT MET, PIPE ON LARGE SIDE OF REDUCER SHALL BE RESTRAINED FOR A MINIMUM OF "L" FEET.

REDUCER RESTRAINT



1. LENGTH OF RESTRAINT SHOWN IS IN FEET. 2. WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.

DEAD END RESTRAINT







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ELEVATED TANK SITE DETAILS

<u>EXI</u>T 29 WATER PRODUCTION FACILITY & **ELEVATED STORAGE TANK:** DIVISION II REBID

PROJECT LOCATION: GLYNN COUNTY

CLIENT/OWNER:

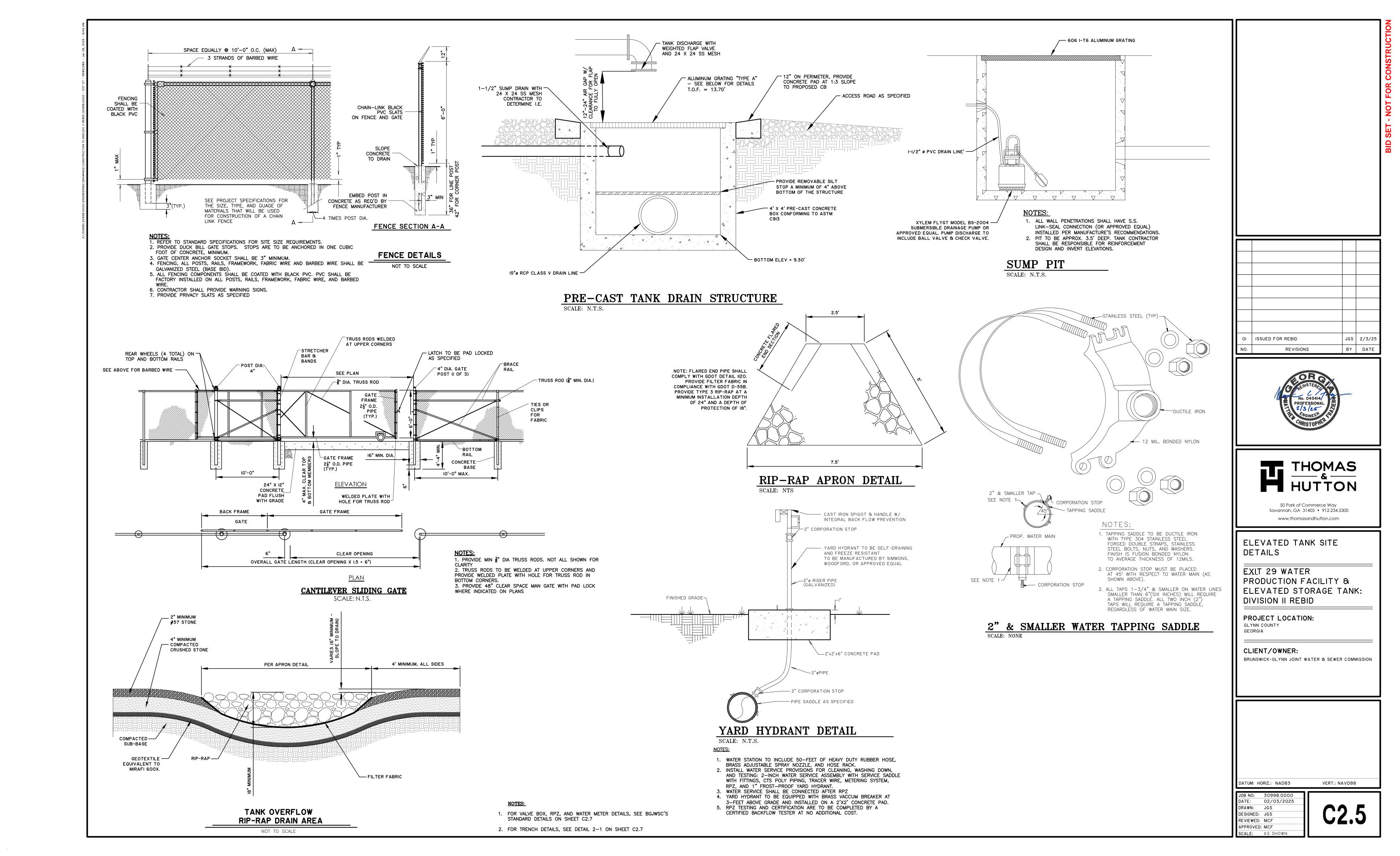
GEORGIA

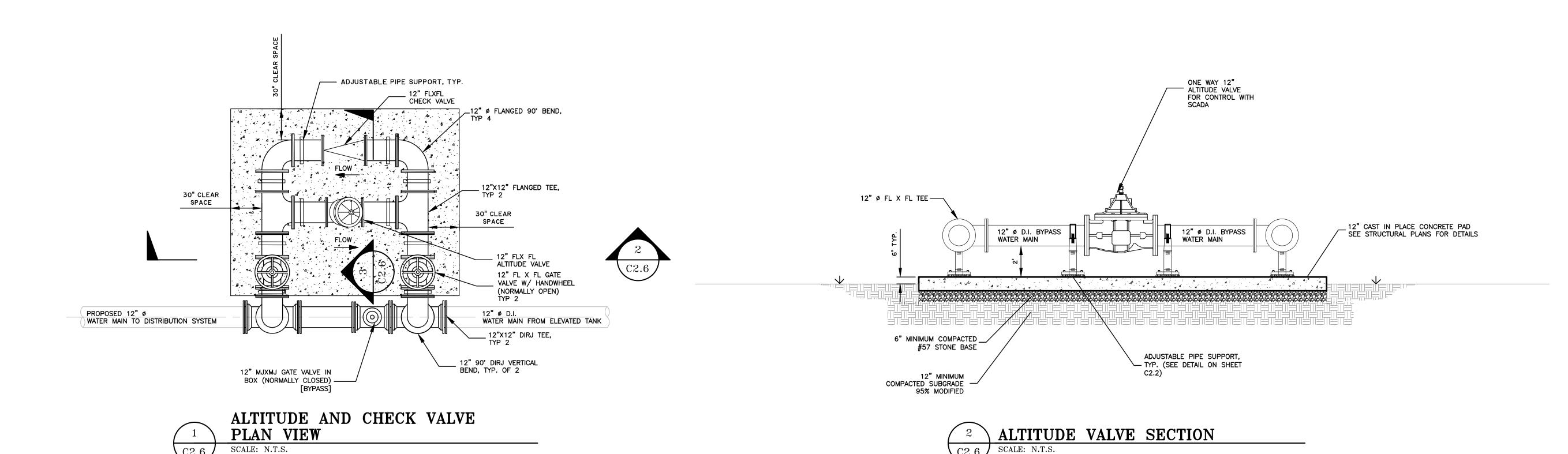
BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

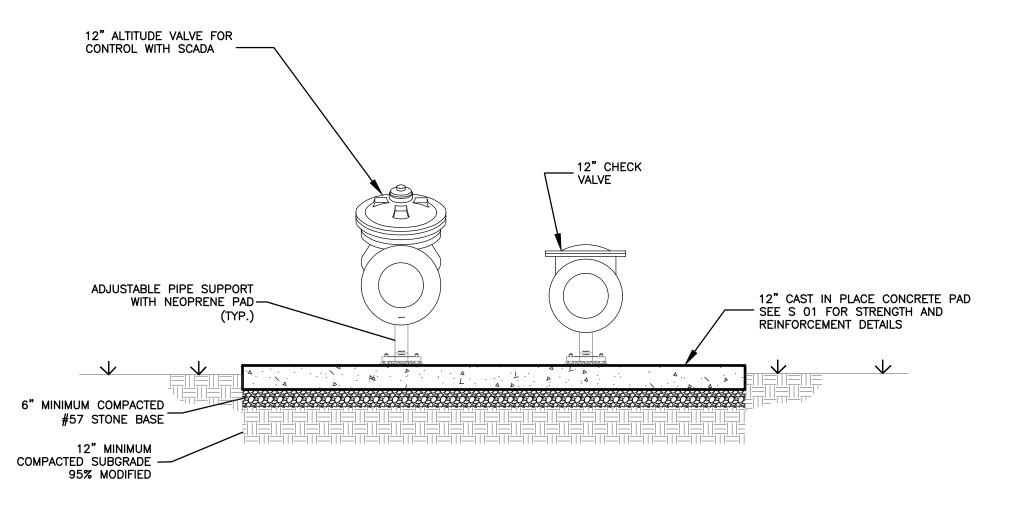
DATUM: HORIZ.: NAD83 VERT.: NAVD88

DATE: 02/03/2025 DRAWN: JGS DESIGNED: JGS REVIEWED: MCF

APPROVED: MCF







3 ALTITUDE AND CHECK VALVE SECTION C2.6 SCALE: N.T.S.

OI ISSUED FOR REBID JGS 2/3/25
NO. REVISIONS BY DATE





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ALTITUDE VALVE DETAILS

EXIT 29 WATER
PRODUCTION FACILITY &
ELEVATED STORAGE TANK:
DIVISION II REBID

PROJECT LOCATION:
GLYNN COUNTY
GEORGIA

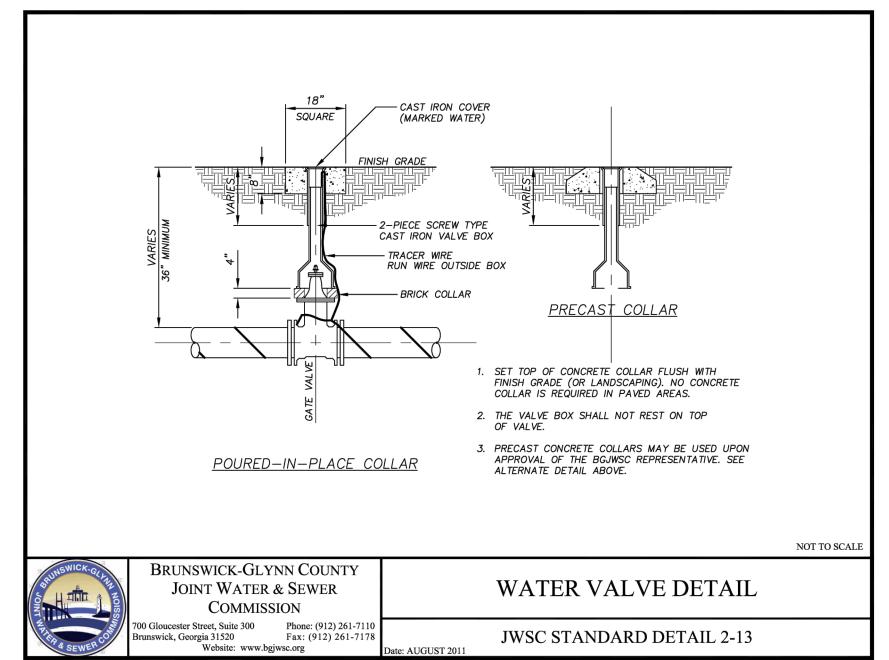
CLIENT/OWNER:
BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

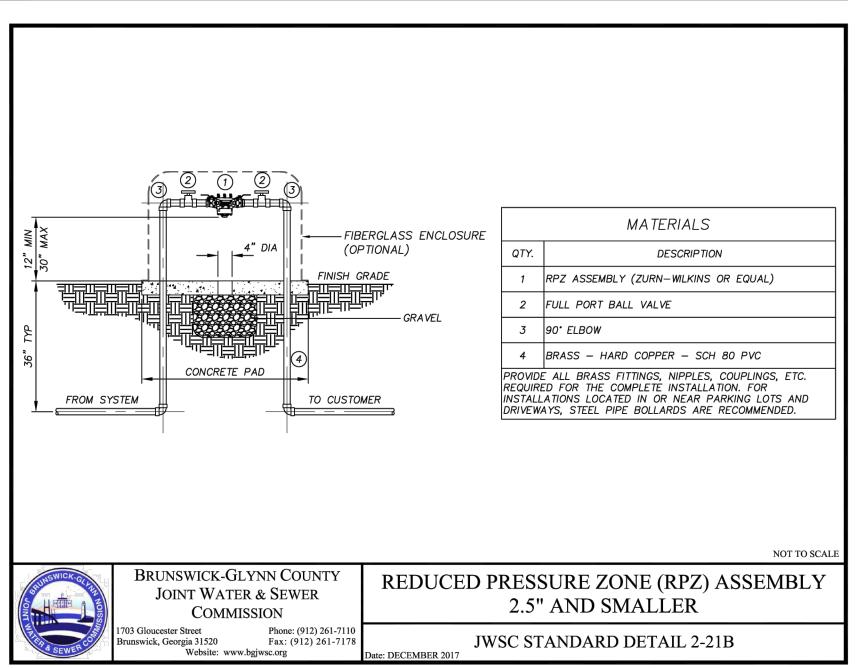
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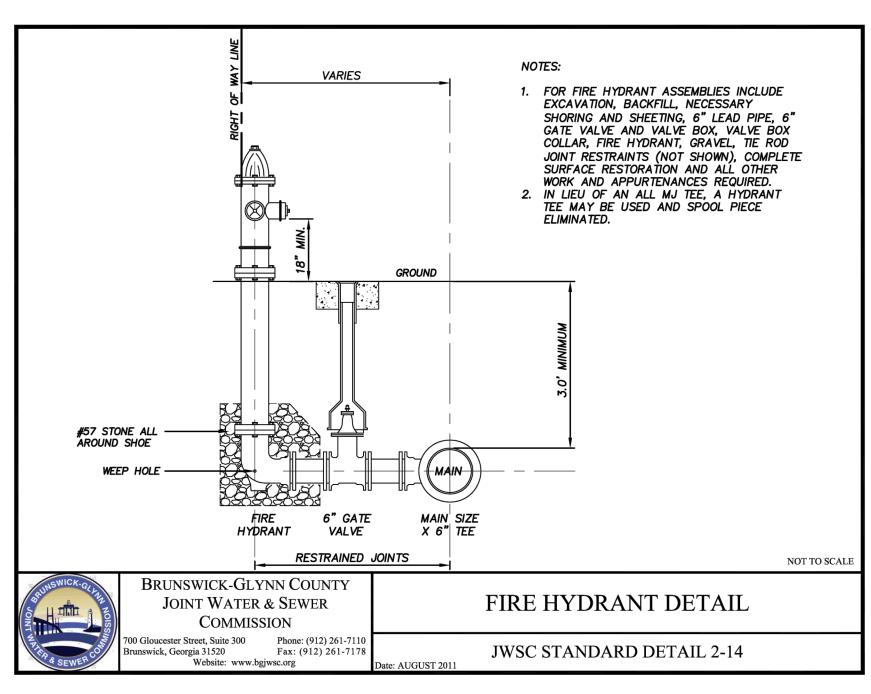
VERT.: NAVD88

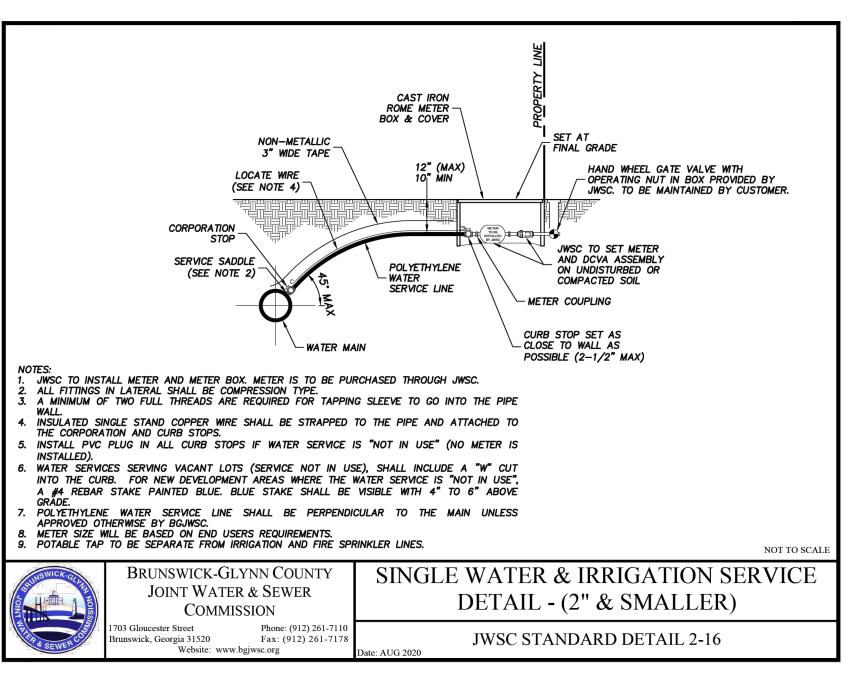
JOB NO: 30998.0000
DATE: 02/03/2025
DRAWN: JGS
DESIGNED: JGS
REVIEWED: MCF

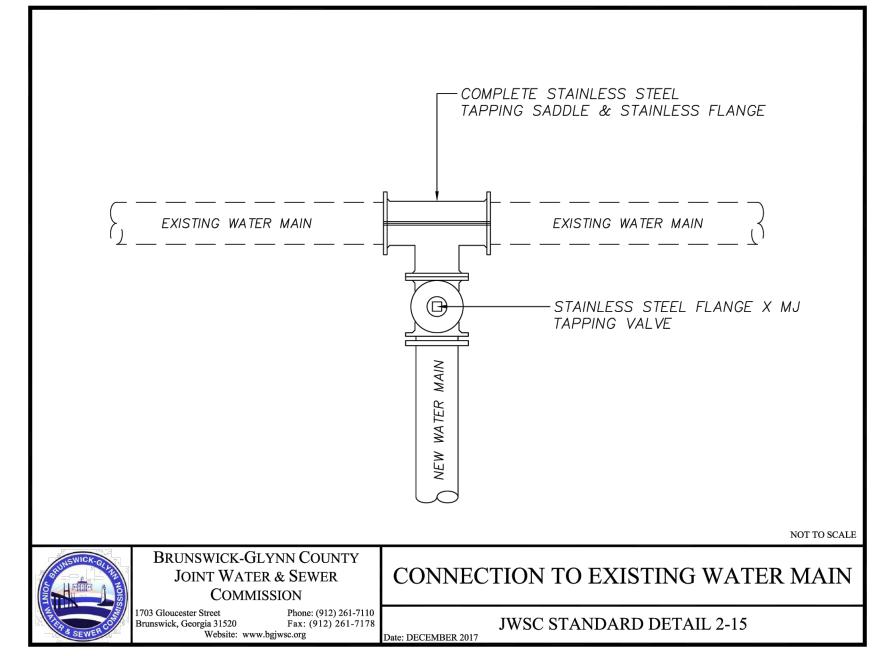
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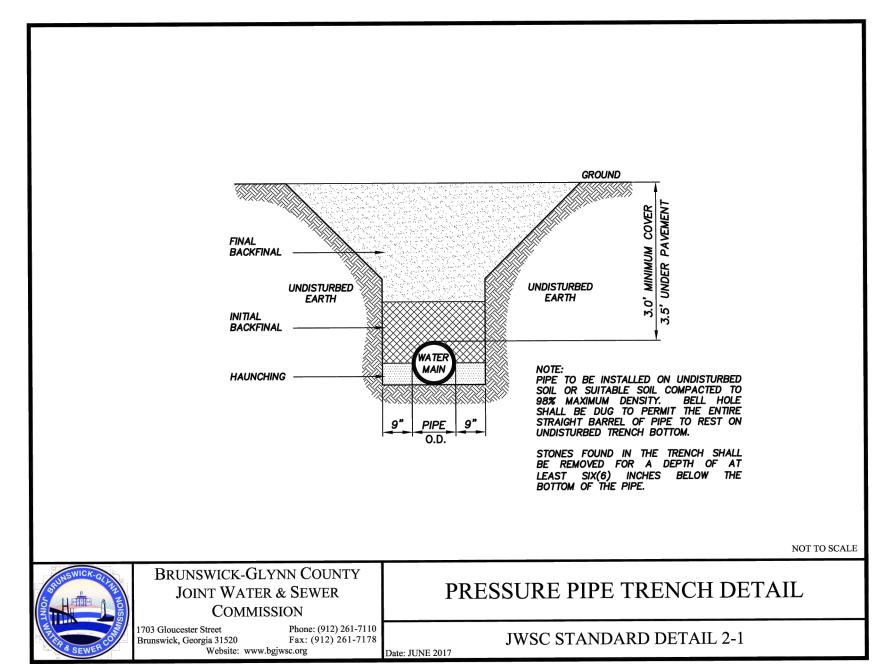


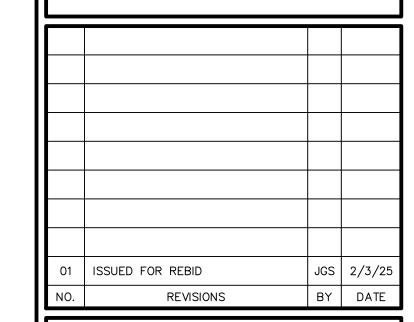
















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WATER DETAILS

EXIT 29 WATER
PRODUCTION FACILITY &
ELEVATED STORAGE TANK:
DIVISION II REBID

PROJECT LOCATION:
GLYNN COUNTY

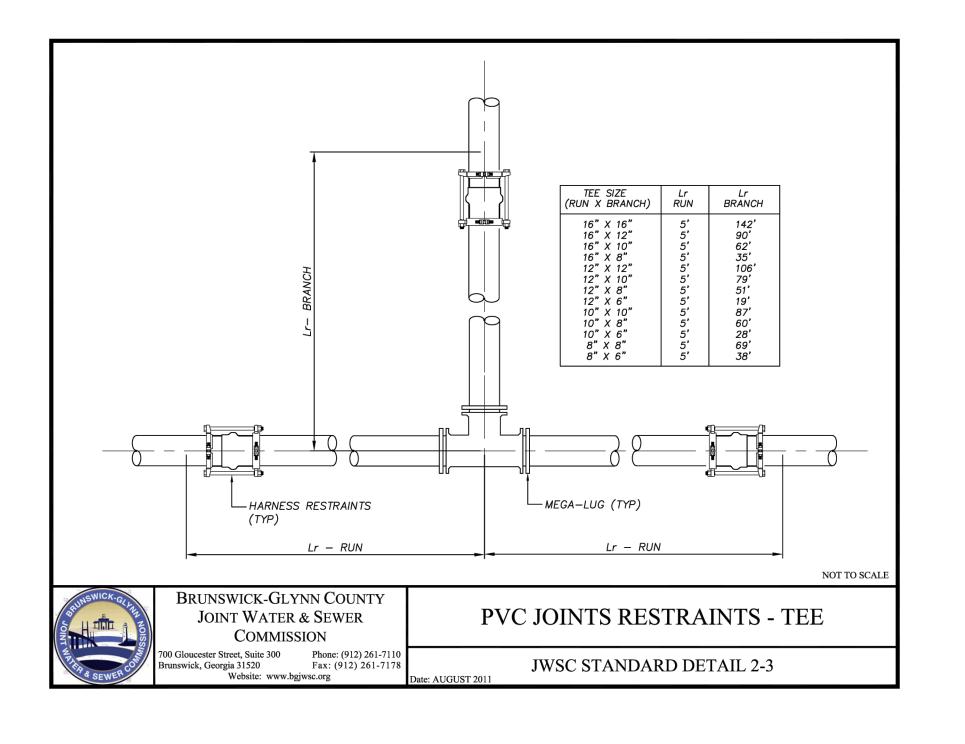
CLIENT/OWNER:

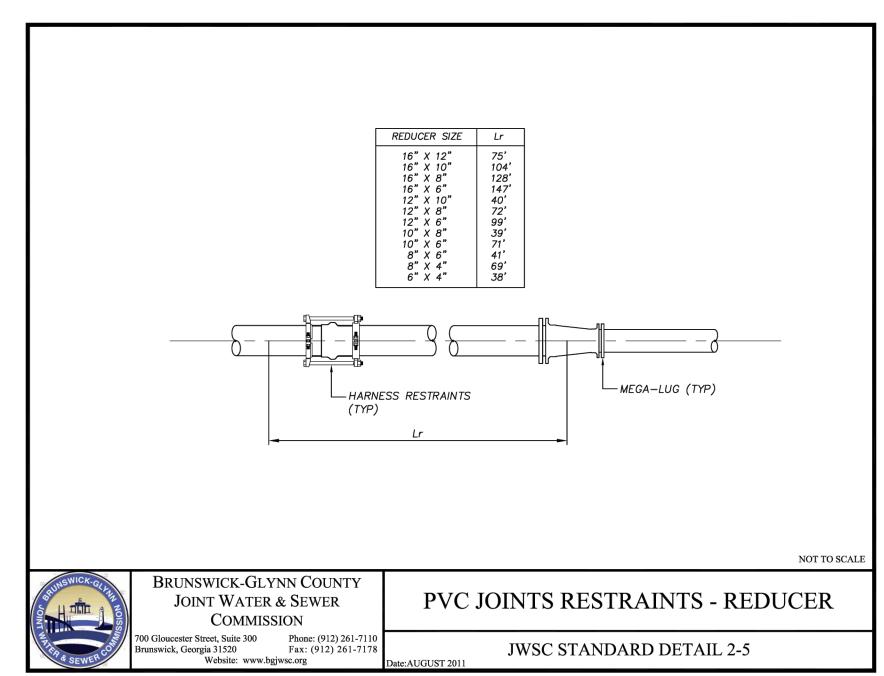
GEORGIA

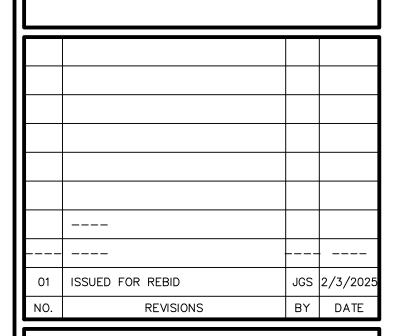
BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

DATUM: HORIZ.: NAD83 VERT.: NAVD88

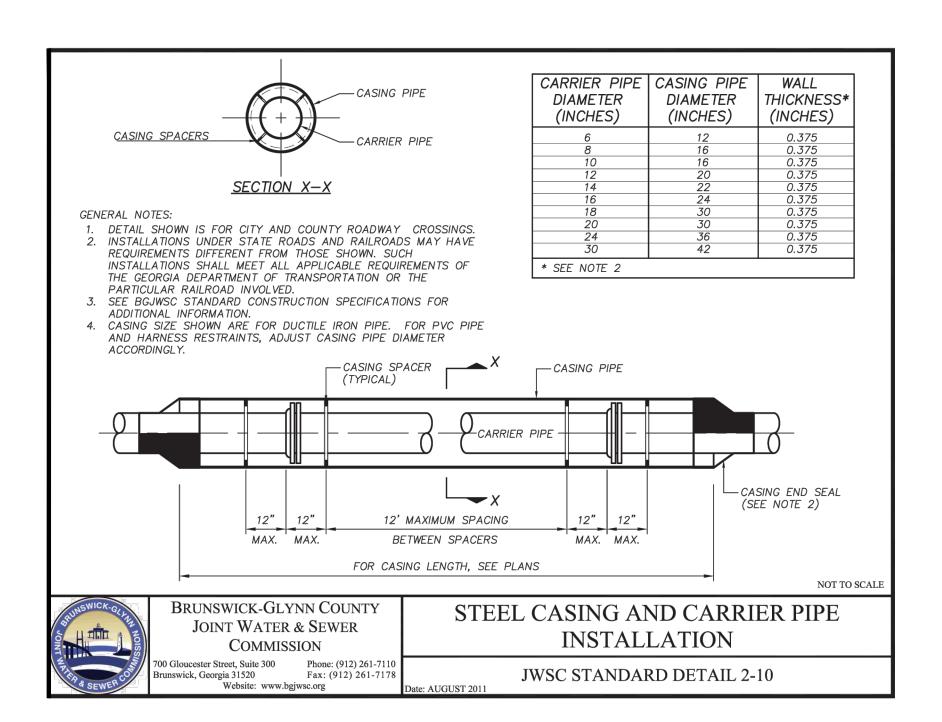
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DESIGNED: JGS
REVIEWED: MCF
APPROVED: MCF

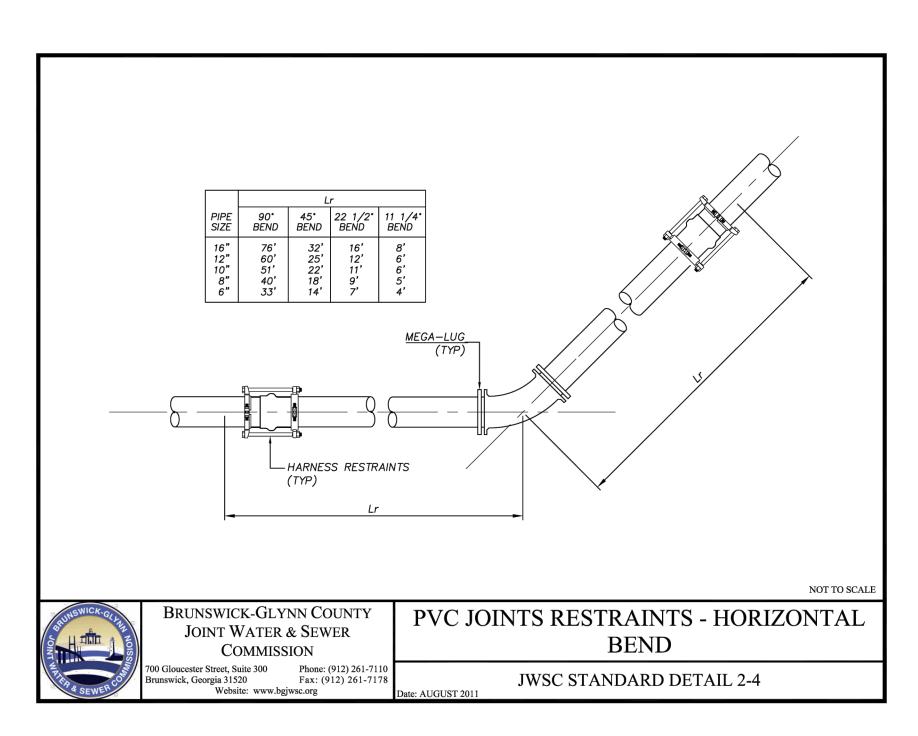


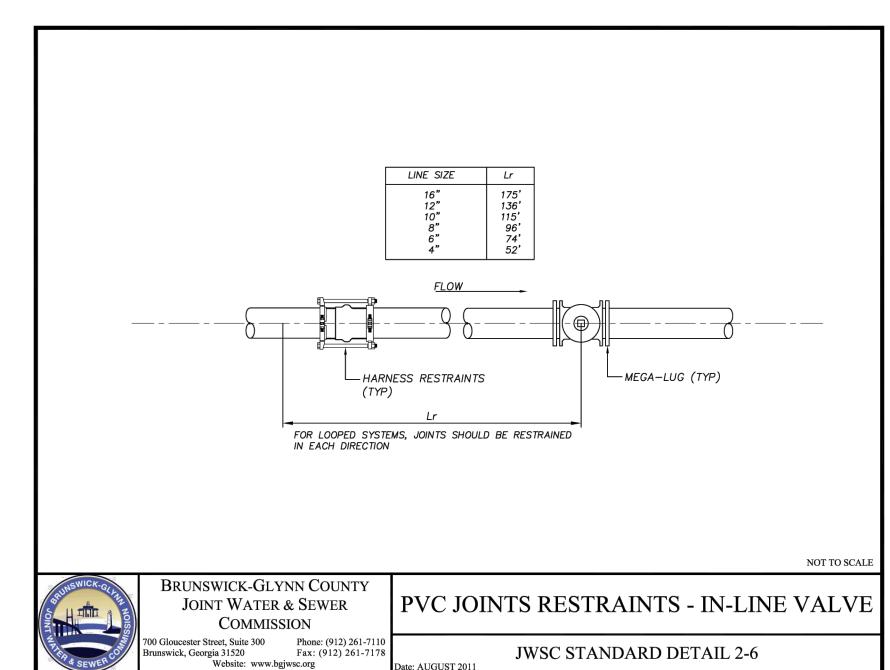














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WATER DETAILS

EXIT 29 WATER
PRODUCTION FACILITY &
ELEVATED STORAGE TANK:
DIVISION II REBID

PROJECT LOCATION:
GLYNN COUNTY
GEORGIA

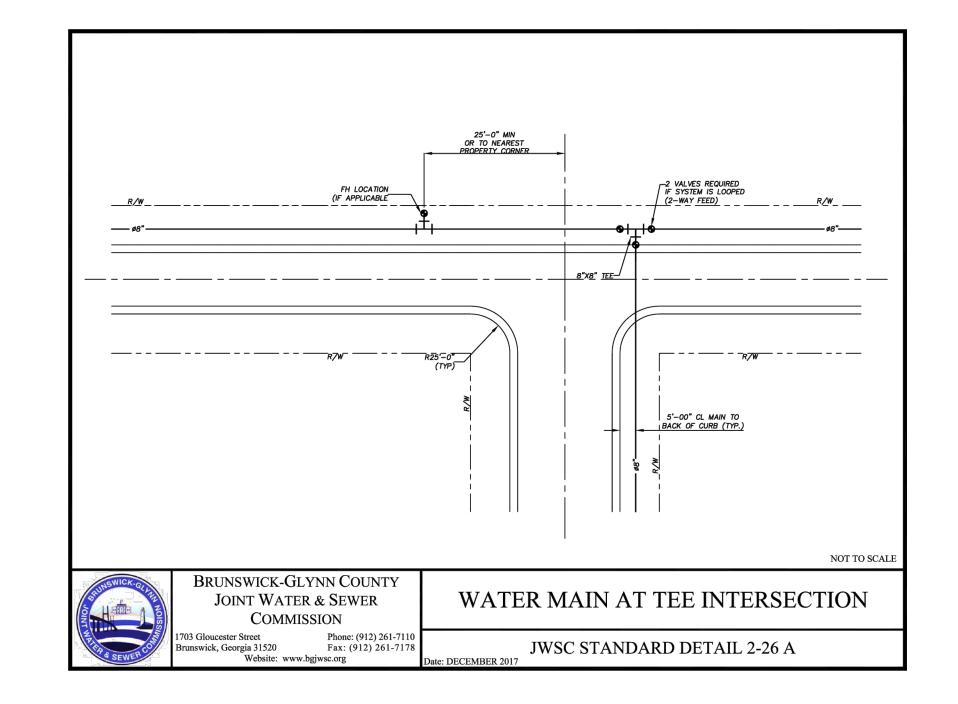
CLIENT/OWNER:

BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

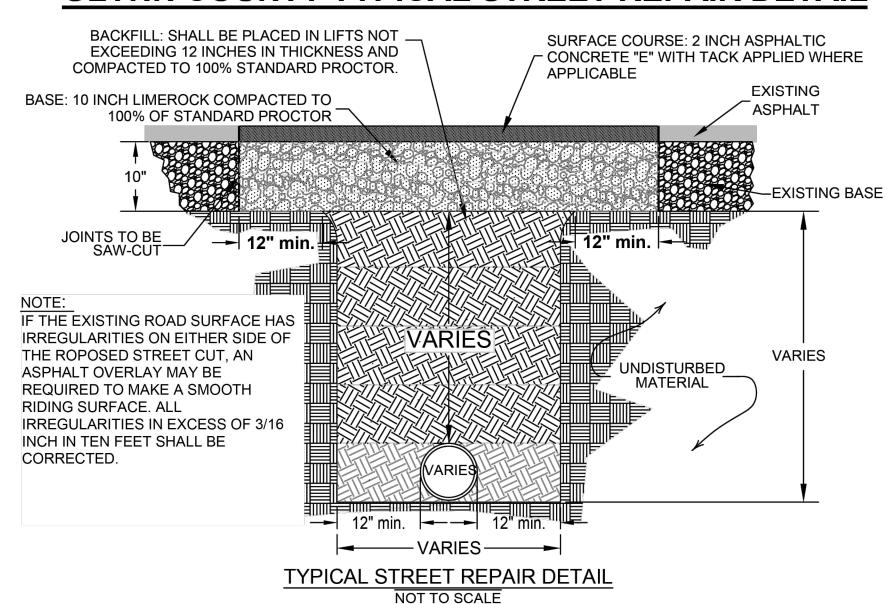
DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO: 30998.0000
DATE: 02/03/2025
DRAWN: JGS
DESIGNED: JGS
REVIEWED: MCF
APPROVED: MCF

SCALE: AS SHOWN



GLYNN COUNTY TYPICAL STREET REPAIR DETAIL



GLYNN COUNTY ROAD REPAIR REQUIREMENTS:

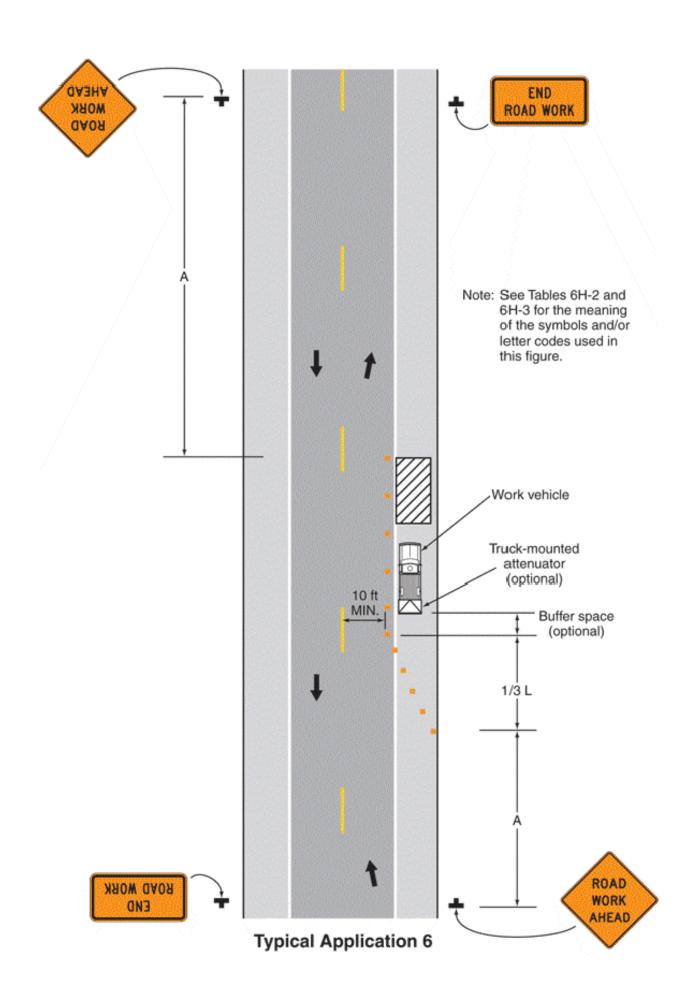
Glynn County Right -Of -Way Coordinator must review road cut and approve final dimensions of area to be paved prior to final paving. All road cuts must be neatly square cut and perpendicular to the lines and general direction of the roadway and a minimum of 12" beyond final disturbed area. Entire width of lane is to be repaved for road cuts that are up to or exceeds half the distance of the lane. Entire width of road is to be repaved for road cuts that are up to or exceeds half the distance of the road. Road must be repaired as outline below per this detail within 30 days after road is cut including any applicable road striping. Compaction test are required to ensure 100% compaction of backfill and base material. Compaction test results must be forwarded to Glynn County Right-Of-Way Coordinator reflecting two results of the backfill and base material prior to final paving.

- 1. Existing road bed will be cut twelve (12) inches beyond the disturbed area on each side. Disturbed areas will be compacted as noted below.
- 2. Subgrade shall be placed in lifts not to exceed twelve (12) inches in thickness and compacted to one hundred percent (100%) standard proctor.
- 3. A base of ten (10) inches of lime rock compacted to one hundred percent (100%) standard proctor.
- 4. An asphaltic concrete "E" with tack applied is required. A surface course thickness shall be determined during the permit process.
- 5. Concrete materials shall not be used on asphalt roads unless approved by Glynn County Right-of-Way Coordinator.

ADDITIONAL SPECIAL REQUIRMENTS TO BE DETERMINE BY GLNN COUNTY RIGHT-OF-WAY COORDINATOR

- Cuts exceeding 50 feet in length require road section overlay. Section of the road is to be milled to 2" depth and 8" of base material shall be installed flush to existing milled surface and the entire width of the included roadway resurfaced paved with a minimum of 2" of 9.5 MM Superpave type "E" asphalt topping or 1.5" of 19 MM Superpave type "E" asphalt and 1.5" of 9.5 MM Superpave type "E" asphalt topping.
- Depending on existing road conditions, tie in points may require additional milling or cut backs for blending as determined by Glynn County Right-of-Way Coordinator.
- Depending on the existing conditions and location of the road cut, flowable fill may be required as backfill material. To be determined by Glynn County Right-of-Way Coordinator.

Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)



NOTE: CONTRACTOR SHALL SUPPLY MANUAL"
TRAFFIC CONTROL PLAN INCLUSIVE OF
DETAIL TA-6. TRAFFIC CONTROL PLAN
SHALL COMPLY WITH GDOT'S "REGULATIONS
FOR DRIVEWAY & ENCROACHMENT CONTROL

---01 ISSUED FOR REBID JGS 2/3/202
NO. REVISIONS BY DATE





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WATER DETAILS

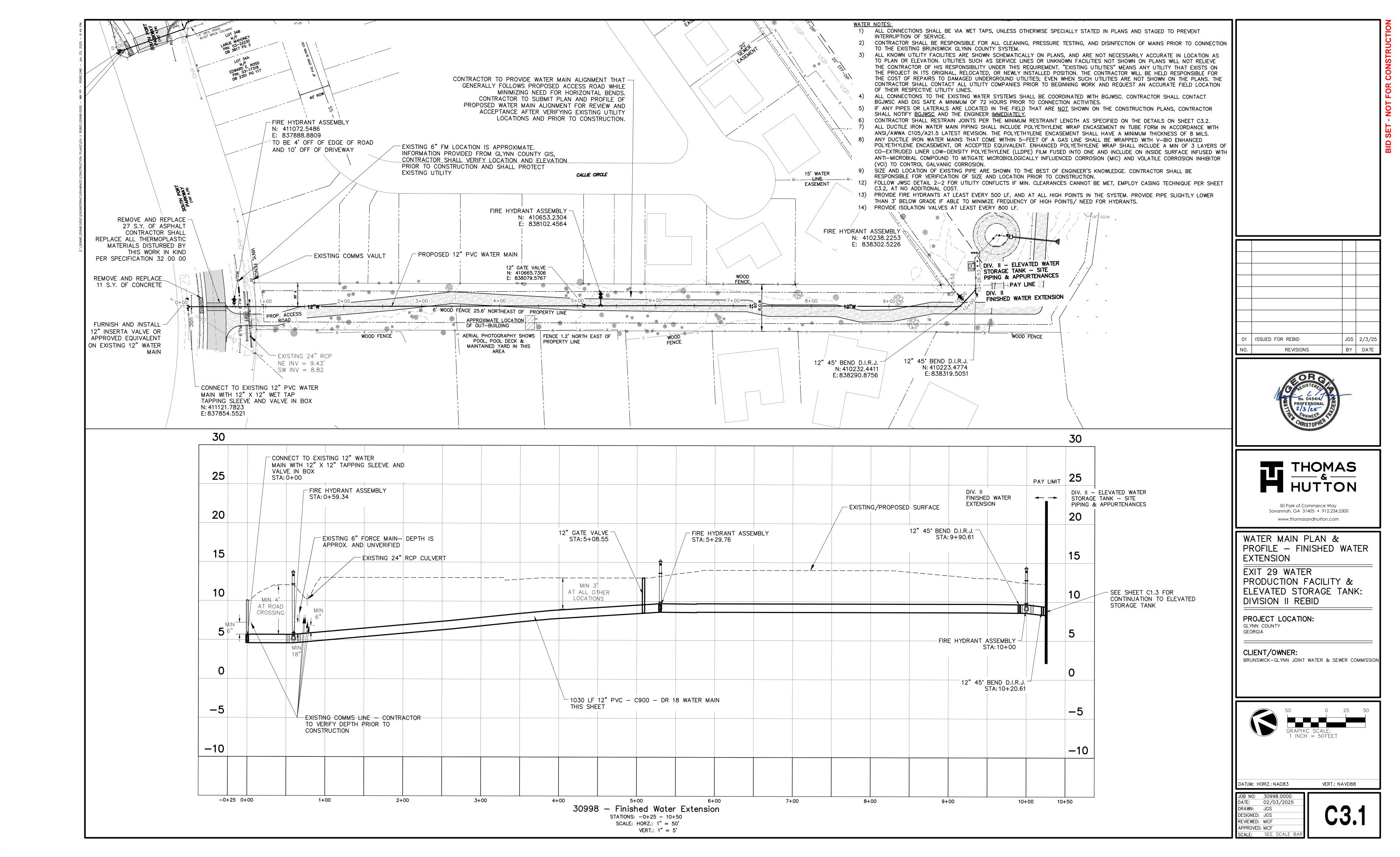
EXIT 29 WATER
PRODUCTION FACILITY &
ELEVATED STORAGE TANK:
DIVISION II REBID

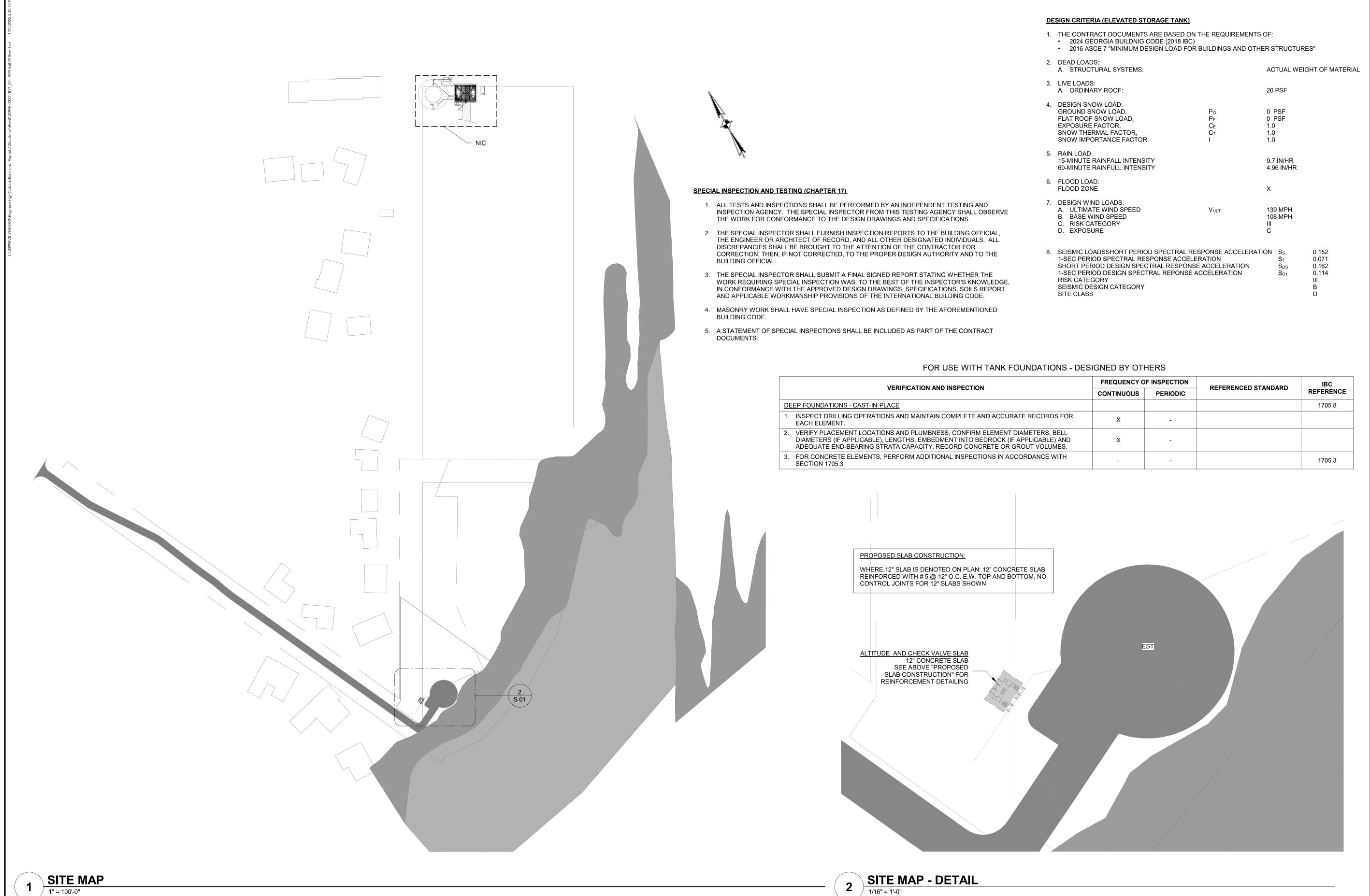
PROJECT LOCATION:
GLYNN COUNTY

CLIENT/OWNER:
BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

DATUM: HORIZ.: NAD83 VERT.: NAVD88

JOB NO: 30998.0000
DATE: 02/03/2025
DRAWN: JGS
DESIGNED: JGS
REVIEWED: MCF
APPROVED: MCF





T&H COA: PEF000666 EXPIRES 06/30/2026

REVISIONS

ISSUED FOR REBID



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STRUCTURAL DETAILS

EXIT 29 WATER PRODUCTION FACILITY & ELEVATED STORAGE TANK: DIVISION II

PROJECT LOCATION:
GYLNN COUNTY
GEORGIA

CLIENT/OWNER:

BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

DATUM: HORIZ.: REF CIVIL VERT.: REF CIVIL

JOB NO: J- 30998.0000

DATE: 07/17/24

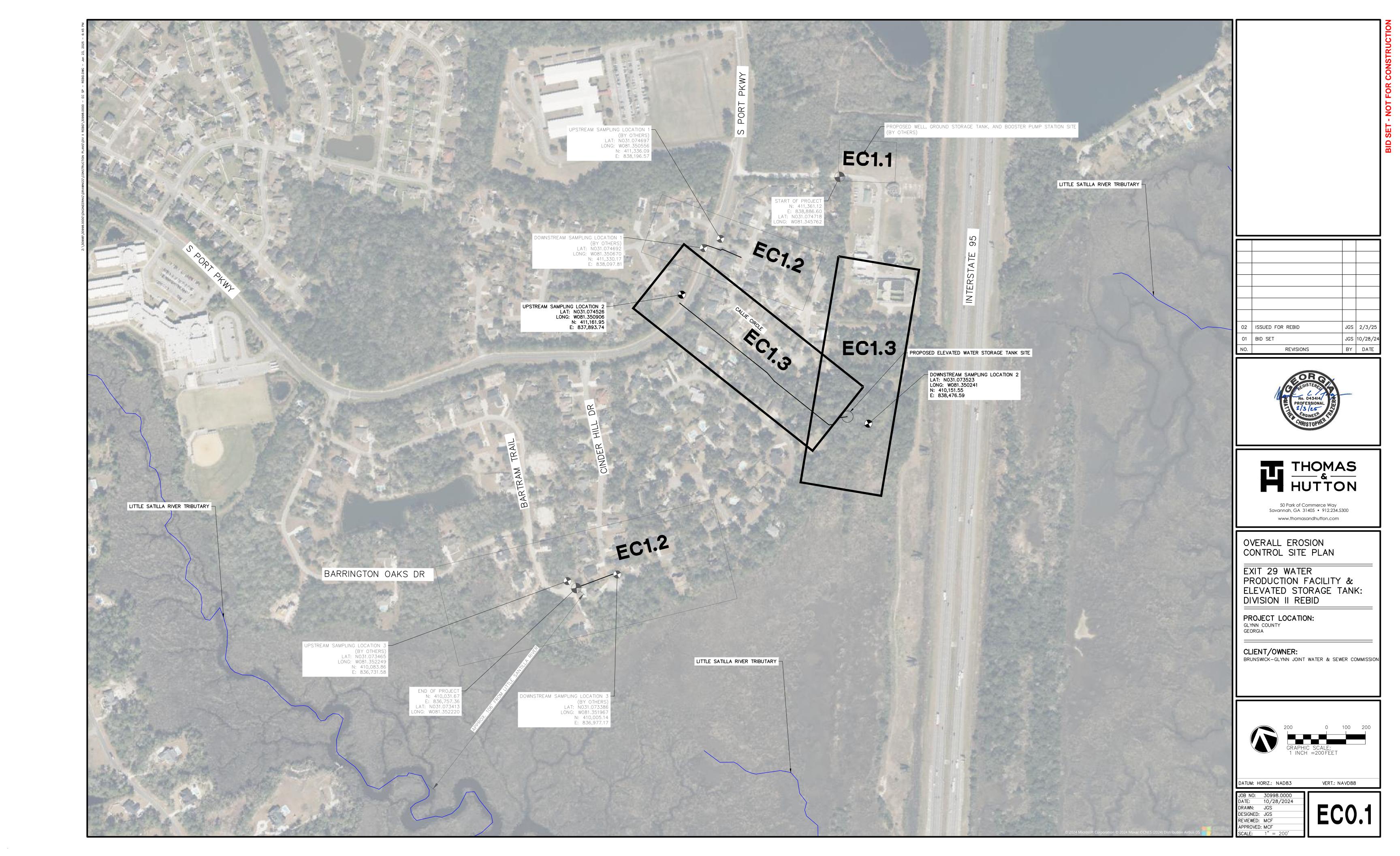
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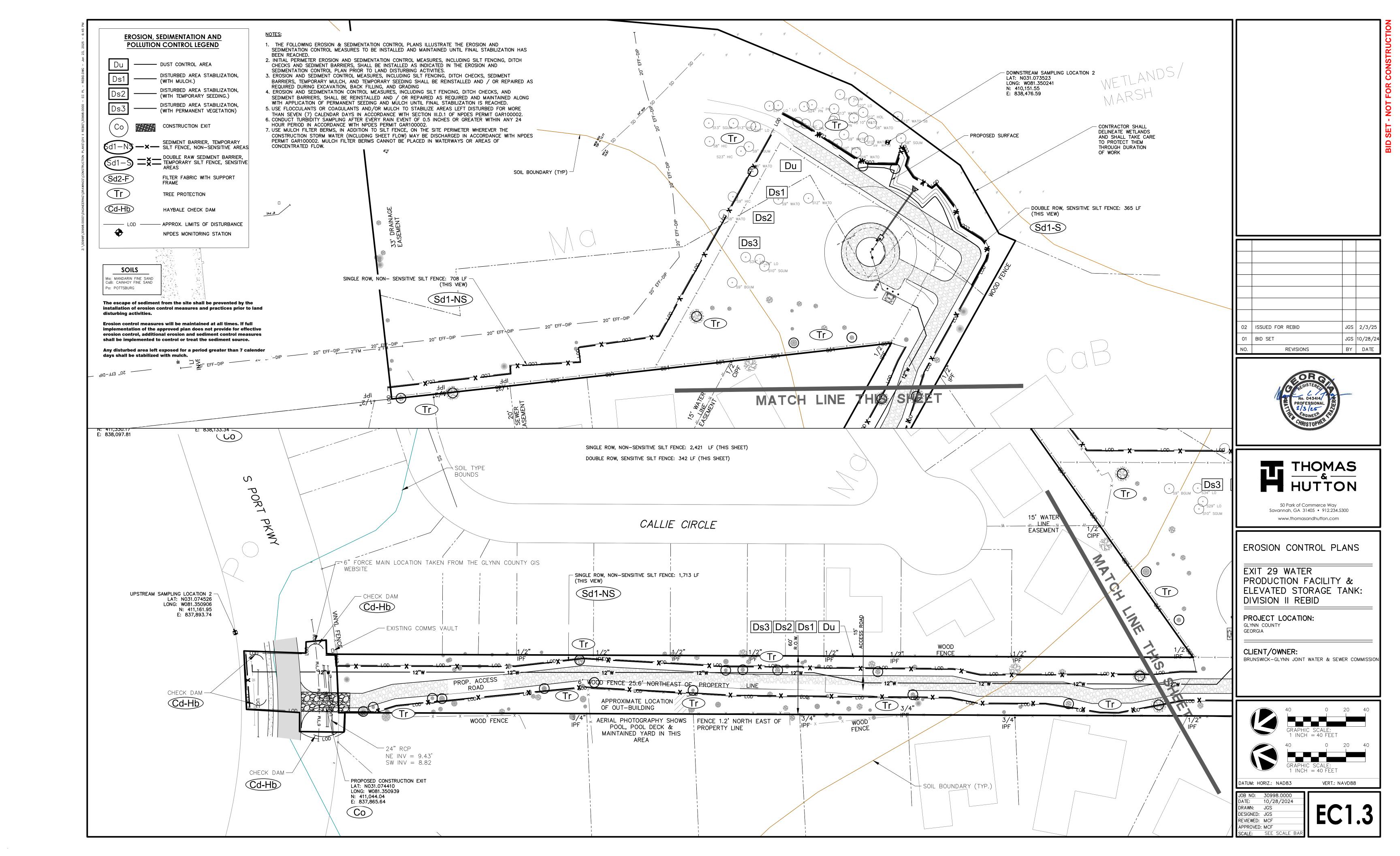
DESIGNED: MAP

REVIEWED: dBm

APPROVED: dBm

S 01





COEFFICIENT WITHIN THE SITE AREA WAS CALCULATED TO BE A WEIGHTED VALUE OF 0.24. THE POST-DEVELOPMENT RUNOFF COEFFICIENT WAS CALCULATED TO BE A WEIGHTED VALUE OF 0.34.

ELEVATIONS ON THE SITE RANGE FROM ± 6 TO ± 25 (NAVD88 DATUM).

ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL 13127C0214H PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY 1/5/2018, THE MAJORITY OF THE PROJECT AREA IS LOCATED WITHIN FLOOD HAZARD

THE WORK TO BE DONE AT BARTRAM TRAIL IS PREDOMINANTLY IN ZONE AE WITH A FLOOD ELEVATION OF 8 FT. CINDER HILL ROAD IS LOCATED WITHIN ZONE B.

SOILS WITHIN THE PROJECT AREA CONSISTS OF THE FOLLOWING SERIES BASED ON USGS SOILS SURVEY DATA FOR THE PROJECT SITE: Ma: MANDARIN FINE SAND; CaB: CANASERAGA SILT LOAM; Po: POTTSBURG

#29 CONSTRUCTION

CONSTRUCTION WILL INVOLVE TYPICAL ACTIVITIES ASSOCIATED WITH THE DEVELOPMENT OF A WATER PRODUCTION FACILITY, WATER STORAGE TANK INSTALLATION, SITE PIPING, AND STANDARD BUILDING CONSTRUCTION. IT IS ANTICIPATED THAT CONSTRUCTION ACTIVITIES WILL BEGIN ON OR ABOUT MARCH 2025, AND BE COMPLETED ON OR ABOUT JUNE 2026 . THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

PROCESSES AND PRINCIPLES OF EROSION, SEDIMENTATION AND POLLUTION

WHEN LAND IS DISTURBED AT A CONSTRUCTION SITE, THE EROSION RATE ACCELERATES DRAMATICALLY. SINCE GROUND COVER ON AN UNDISTURBED SITE PROTECTS THE SURFACE, REMOVAL OF THAT COVER INCREASES THE SITE'S SUSCEPTIBILITY TO EROSION. DISTURBED LAND MAY HAVE AN EROSION RATE 1,000 TIMES GREATER THAN THE PRE-CONSTRUCTION RATE. EVEN THOUGH CONSTRUCTION REQUIRES THAT LAND BE DISTURBED AND BE LEFT BARE FOR PERIODS OF TIME, PROPER PLANNING AND USE OF CONTROL MEASURES CAN REDUCE THE IMPACT OF MAN-INDUCED ACCELERATED EROSION.

EFFECTIVE EROSION, SEDIMENTATION AND POLLUTION CONTROL REQUIRES FIRST THAT THE SOIL SURFACE BE PROTECTED FROM THE EROSIVE FORCES OF WIND, RAIN, AND RUNOFF, AND SECOND THAT ERODED SOIL CAN BE CAPTURED ON-SITE.

- #26 PERMANENT GRASSING SHALL REMAIN IN PLACE AFTER PROJECT IS COMPLETED TO CONTROL POLLUTANTS IN THE PROJECT'S STORM WATER.
- [#27] CONTRACTOR SHALL PROVIDE MEASURES TO COVER ALL BUILDING MATERIALS AND BUILDING PRODUCTS ON-SITE, INCLUDING BUT NOT LIMITED TO, PLASTIC SHEETING OR TEMPORARY ROOFING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEASURES THAT HE DEEMS NECESSARY TO MINIMIZE THE EXPOSURE TO PRECIPITATION AND STORMWATER FOR THE PROPOSED UTILITIES.

- THSES MEASURES. SHOULD BE EMPLOYED AS QUICKLY AS POSSIBLE AFTER THE LAND IS DISTURBED. TEMPORARY VEGETATION AND MULCHES CAN BE MOST EFFECTIVE ON AREAS WHERE IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. THESE TEMPORARY MEASURES SHOULD BE EMPLOYED IMMEDIATELY AFTER ROUGH GRADING IS COMPLETED IF A DELAY IS ANTICIPATED ON OBTAINING FINISHED GRADE. THE FINISHED SLOPE OF A CUT OR FILL SHOULD BE STABLE AND EASE OF MAINTENANCE CONSIDERED IN THE DESIGN, STABILIZE ALL ROADWAYS, PARKING AREAS, AND PAVED AREAS WITH THE GRAVEL SUBBASE, TEMPORARY VEGETATION OR MULCH.
- 4. RETAIN OR ACCOMMODATE RUNOFF, RUNOFF FROM THE DEVOLOPMENT SHOULD BE SAFELY CONVEYED TO A STABLE OUTLET USING STORM DRAINS. DIVERSIONS, STABLE WATERWAYS OR SIMILAR CONSERVATION MEASURES. CONSIDERATION SHOULD ALSO BE GIVEN TO THE INSTALLATION OF STORM WATER RETENTION STRUCTURES TO PREVENT FLOODING AND DAMAGE TO DOWNSTREAM FACILITIES RESULTING FROM INCREASED RUNOFF FROM THE SITE. TEMPORARY OR PERMANENT FACILITIES FOR CONVEYANCE OF STORM WATER SHOULD BE DESIGNED TO WITHSTAND THE VELOCITIES OF PROJECTED PEAK DISCHARGES. THESE FACILITIES SHOULD BE IN OPERATION AS SOON AS POSSIBLE AFTER THE START OF CONSTRUCTION
- 5. RETAIN SEDIMENT. SEDIMENT BASINS, SEDIMENT BARRIERS AND RELATED STRUCTURES SHOULD BE INSTALLED TO FILTER OR TRAP SEDIMENT ON THE SITE TO BE DISTURBED. THE MOST EFFECTIVE METHOD OF CONTROLLING SEDIMENT, HOWEVER, IS TO CONTROL EROSION AT ITS SOURCE. SEDIMENT RETENTION STRUCTURES SHOULD BE PLANNED TO RETAIN SEDIMENT WHEN EROSION CONTROL METHODS ARE NOT PRACTICAL, ARE INSUFFICIENT, OR IN THE PROCESS OF BEING INSTALLED, OR HAVE FAILED DUE TO SOME UNFORESEEN FACTOR.
- 6. DO NOT ENCROACH UPON WATERCOURSES PERMANENT BUILDINGS SHOULD NOT BE SUBJECTED TO FLOODING, SEDIMENT DAMAGE OR EROSION HAZARDS. EARTH FILLS SHOULD NOT BE CONSTRUCTED IN FLOOD-PRONE AREAS SO AS TO ADVERSELY OBSTRUCT WATER FLOWS. WHEN IT IS NECESSARY TO SPAN A FLOOD PRONE AREA OR WATERCOURSE, BRIDGE OR CULVERT OPENINGS SHOULD BE SIZED TO PERMIT PASSAGE OF PEAK DISCHARGES WITHOUT CAUSING UNDUE RESTRICTIONS IN WATER FLOWS OR WITHOUT CREATING EXCESSIVE DOWNSTREAM VELOCITIES. USES OF FLOOD PRONE AREAS SHOULD BE LIMITED TO ACTIVITIES WHICH WOULD NOT SUFFER EXCESSIVE DAMAGES FROM FLOODING, SCOUR, AND SEDIMENT DAMAGES. TEMPORARY BRIDGES OR CULVERTS SHOULD BE EMPLOYED WHEN CONSTRUCTION EQUIPMENT IS REQUIRED TO CROSS NATURAL OR CONSTRUCTED CHANNELS.

STANDARDS AND SPECIFICATIONS

ALL DESIGNS WILL CONFORM TO AND WORK WILL BE PERFORMED IN ACCORDANCE WITH THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", ISSUED 2016 AND THE ATTACHED DETAILS.

MAINTENANCE PROGRAM

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ALL DRAINAGE SWALES, POCKETS, DEPRESSIONS, FLOW LINES, AND OUTLET DITCHES SHALL DRAIN EFFECTIVELY AT ALL TIMES. SETTLEMENT OR WASHING THAT MAY OCCUR SHALL BE REPAIRED BY THE CONTRACTOR. SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN AN EFFECTIVE BARRIER. MAINTAIN THE CONSTRUCTION EXIT IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS. RESEED AND MULCH AREAS WHERE SEEDLING EMERGENCE IS POOR, OR WHERE EROSION OCCURS, PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE, INSPECT ALL MULCHES PERIODICALLY, AND AFTER RAINSTORMS TO CHECK FOR RILL EROSION, DISLOCATION OR FAILURE. IF WASHOUT OCCURS REPAIR THE SLOPE GRADE, RESEED AND REINSTALL MULCH. INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS ANY EROSION IN AND AROUND THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. FOLLOW THE CONSTRUCTION SEQUENCE THROUGHOUT THE PROJECT DEVELOPMENT. WHEN CHANGES IN CONSTRUCTION ACTIVITIES ARE NEEDED, AMEND THE SEQUENCE SCHEDULE IN ADVANCE TO MAINTAIN MANAGEMENT CONTROL. ORDERLY MODIFICATION ASSURES COORDINATION OF CONSTRUCTION AND EROSION CONTROL PRACTICES TO MINIMIZE EROSION AND SEDIMENTATION PROBLEMS. IF MAJOR CHANGES ARE NECESSARY, SEND A COPY OF THE MODIFIED SCHEDULE TO THE LOCAL SEDIMENT CONTROL AGENCY. SEDIMENT AND EROSION CONTROL MEASURES WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE DISTURBED AREAS ARE STABILIZED

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF 1 #15 WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS. (THE WETLAND EVALUATION PERFORMED BY RLC ON 9/20/2024 SHOWED THAT THIS BUFFER IS OUTSIDE OF THE PROPERTY BOUNDS AND GREATER THAN 50' AWAY FROM THE PROPOSED PROJECT LIMITS. HOWEVER THE CONTRACTOR SHALL BE AWARE OF THIS REQUIREMENT FOR REFERENCE.)

NOTE:

EROSION CONTROL ORIGINALLY SUBMITTED FOR REVIEW WITH DIVISIONS I, II, AND III. DIVISIONS I AND III WERE AWARDED. AS OF FEBRUARY 3, 2025, DIVISION II IS UP FOR RE-BID. EROSION CONTROL PLANS HAVE BEEN REVISED HEREIN TO, NOTES, AND DETAILS REMAIN PERTINENT. THE EROSION CONTROL PLANS ONLY REFLECT DIVISION II. THE EROSION CONTROL NOTES AND DETAILS REFLECT DIVISIONS I, II, AND III. CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR DIVISION II EROSION CONTROL. AT THE TIME OF ISSUE FOR THE "EXIT 29 WATER PRODUCTION FACILITY & ELEVATED STORAGE TANK: DIV II REBID", THE FULL EROSION CONTROL PLAN SET IS UNDER REVIEW BY THE ISSUING AUTHORITY.

> INITIAL DATE: OCTOBER 28, 2024 REVISED: FEBRUARY 3, 2025

02 | ISSUED FOR REBID BY DATE REVISIONS





50 Park of Commerce Way

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EROSION CONTROL NOTES

EXIT 29 WATER PRODUCTION FACILITY & **ELEVATED STORAGE TANK:** DIVISION II REBID

PROJECT LOCATION: GLYNN COUNTY

GEORGIA

CLIENT/OWNER:

BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

DATUM: HORIZ .: VERT.:

10/28/2024 DRAWN: DESIGNED: JGS REVIEWED: MCF APPROVED: MCF

67 CY SEDIMENT STORAGE PER DISTURBED ACRE REQUIREMENT [#49] DIV I: WELL TREATMENT, PUMP/CONTROL BUILDING, &

TOTAL PROJECT ACREAGE = 8.08 TOTAL DISTURBED ACREAGE = 0.66

200,000 GALLON GROUND WATER STORAGE TANK

TOTAL REQUIRED SEDIMENT STORAGE: 0.66 Ac. X 67 c.y./Ac. = 44.22 c.y. PROP SINGLE ROW SILT FENCE: 485 L.F.

485' x 1.5' (HEIGHT ACCUMULATION) x4' (HORIZONTAL ACCUMULATION) x 1/2 = 1,455 C.F., 1.455/27= 53.9 C.Y. 53.9 C.Y. > 44.22 C.Y.

NOTE: THE MAXIMUM ALLOWABLE AREA TO CONTRIBUTE TO 100LF OF SILT FENCE IS 0.25 ACRES. FOR THIS PROJECT, 0.136 ACRES CONTRIBUTE TO 100 LF OF SILT FENCE.

DIV II: 500,000 GALLON ELEVATED WATER STORAGE TANK

TOTAL PROJECT ACREAGE = 6.23 TOTAL DISTURBED ACREAGE =2.25

TOTAL REQUIRED SEDIMENT STORAGE: 2.25 Ac. X 67 c.y./Ac. = 151 c.y.

PROP SINGLE ROW SILT FENCE: 2763 L.F. 2,763' x 1.5' (HEIGHT ACCUMULATION) x4' (HORIZONTAL ACCUMULATION) x 1/2 = 8,289 C.F. 8,289/27= 307 C.Y.

307 C.Y. > 151 C.Y. NOTE: THE MAXIMUM ALLOWABLE AREA TO CONTRIBUTE TO 100LF OF SILT FENCE IS 0.25 ACRES. FOR THIS PROJECT, 0.08 ACRES CONTRIBUTE TO 100 LF OF SILT FENCE.

DIV III: WATER DISTRIBUTION SYSTEM

TOTAL PROJECT ACREAGE = **0.26**

TOTAL DISTURBED ACREAGE = 0.20

TOTAL REQUIRED SEDIMENT STORAGE: 0.20 Ac. X 67 c.y./Ac. = 13.4 c.y. PROP SINGLE ROW SILT FENCE: 396 L.F.

396' x 1.5' (HEIGHT ACCUMULATION) x4' (HORIZONTAL ACCUMULATION) x 1/2 = 1188 C.F., 1188/27= 44 C.Y.

44 C.Y. > 13.4 C.Y. NOTE: THE MAXIMUM ALLOWABLE AREA TO CONTRIBUTE TO 100LF OF SILT FENCE IS 0.25 ACRES. FOR THIS PROJECT, 0.05 ACRES CONTRIBUTE TO 100 LF OF SILT FENCE.

THIS PROJECT WILL UTILIZE SILT FENCE FOR THE SEDIMENT STORAGE REQUIREMENT. DOUBLE ROW SENSITIVE TYPE SILT FENCE WILL BE INSTALLED WHERE CONSTRUCTION ACTIVITIES ARE ADJACENT TO WETLANDS AND STATE WATERS. IN THE ABOVE CALCULATIONS WE ARE ONLY CONSIDERING ONE (1) ROW OF SILT FENCE FOR THE SEDIMENT STORAGE REQUIREMENT.

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE. USE OF TREE PROTECTION WILL BE EMPLOYED

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. SELECT A DESIGNATED WASTE COLLECTION AREA, WHEN POSSIBLE LOCATE CONTAINERS IN A COVERED AREA. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ONSITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PRACTICES WILL BE POSTED AT THE JOBSITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS's) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIAL OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM WATER. IF SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES

A MINIMUM OF ONE PORTABLE SANITARY UNIT SHALL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE DISPOSED BY THE PORTABLE FÁCILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS. PROVIDE REGULAR SERVICING BY A QUALIFIED DOMESTIC WASTE HAULER TO PREVENT OVER-FILLING.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. PLACEMENT OF FACILITIES SHOULD BE OUT OF HIGH FLOW AREAS AND IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED. SUCH AS GRAVEL BAGS OR SPECIALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PHASE SHEETS BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED. REGULARLY INSPECT FOR CRACKS OR LEAKAGE IN CONTAINERS/TANKS.

OFFSITE VEHICLE TRACKING A STABILIZED CONSTRUCTION EXIT HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENT. SEE SHEETS EC1.1-EC1.3 FOR CONSTRUCTION EXIT LOCATION(S) AND SHEET EC2.3 FOR DETAILS. THE PAVED STREET ADJACENT TO THE CONSTRUCTION SITE EXIT WILL BE KEPT CLEAN AT ALL TIMES. VEHICLES LEAVING THE SITE MUST TRAVERSE CONSTRUCTION EXITS TO REMOVE MUD FROM TIRES.

INVENTORY FOR POLLUTION PREVENTION PLAN THE FOLLOWING MATERIALS ARE EXPECTED ONSITE DURING CONSTRUCTION: PETROLEUM BASED FUELS AND LUBRICANTS FOR EQUIPMENT. ADDITIVES FOR SOIL STABILIZATION, PESTICIDES, FERTILIZERS, HERBICIDES, CRUSHED STONE, CONCRETE PRODUCTS, ASPHALT, TAR, METAL BUILDING MATERIALS, LUMBER, SHEET ROCK, FLOOR COVERINGS, ELECTRICAL WIRE AND FIXTURES, PAINTS/STAINS/FINISHING TREATMENTS, SOAPS, PAINT SOLVENTS, CLEANING SOLVENTS, PLASTICS AND METAL PIPES.

SPILL PREVENTION
PRACTICES SUCH AS GOOD HOUSEKEEPING, PROPER HANDLING OF HAZARDOUS PRODUCTS AND PROPER SPILL CONTROL PRACTICES WILL BE FOLLOWED TO REDUCE THE RISK OF SPILLS FROM DISCHARGING INTO STORM WATER RUNOFF.

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS- CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE FOR SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS. HAVE EQUIPMENT TO CONTAIN AND CLEAN UP PETROLEUM SPILLS IN FUEL STORAGE AREAS OR ON MAINTENANCE AND FUELING VEHICLES. STORE IN COVERED AREAS PROTECTED WITH DIKES. REGULARLY INSPECT FOR CRACKS OR LEAKAGE IN CONTAINERS/TANKS.

FERTILIZER/HERBICIDES/PESTICIDES/DETERGENTS- THESE WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS. DO NOT DISCHARGE WASH WATER INTO STORM WATER SYSTEM. INSTALL CURBS OR DIKES AROUND STORAGE AREA TO PROTECT AGAINST SPILLS. LIMIT USE OF DETERGENTS ON-SITE.

PAINTS/FINISHES/SOLVENTS- ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING- BMP'S FOR CONCRETE WASHDOWN OF TOOLS, CONCRETE MIXER

CHUTES, HOPPERS AND THE REAR OF THE VEHICALS. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. BMP OBJECTICES ARE TO (A) COLLECT AND RETAIN ALL THE CONCRETE WASHOUT WATE AND SOLIDS IN LEAK PROOF CONTAINERS, TO (B) RECYCLE 100% OF THE COLLECTED WATER AND SOLDS, AND TO (C) SUPPORT THE DIVERSION OF RECYCLABLE MATERIALS FROM LANDFILLS. CONTRACTOR SHALL IMPLEMENT A CHUTE WASHOUT BOX, CHUTE WASHOUT BUCKET AND PUMP, VINYL OR METAL WASHOUT CONTAINER AND/OR A HAY BALE AND PLASTIC WASHOUT PIT IN ACCORDANCE WITH EPA'S STORMATER BMPS FOR CONCRETE WASHOUT PUBLISHED IN

BUILDING MATERIALS- NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ONSITE. ALL SUCH MATERIAL WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

SPILL CLEANUP AND CONTROL PRACTICES #25

- . LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. 2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT
- LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND MEAL WASTE CONTAINERS. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND
- ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. 4. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT
- 1-800-424-8802. 5. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS
- 6. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
- 7. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

LIME RATES AND ANALYSIS

FEB. 2012

* AGRICULTURAL LIME SHALL BE APPLIED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.

MULCHING (MULCHING IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED: * DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED DRY STRAW SHALL BE APPLIED AT THE RATE OF TWO TONS PER ACRE. DRY HAY SHALL BE APPLIED AT THE RATE OF 2 1/2 TONS PER ACRE.

* WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT A RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED BELOW) AFTER HYDRAULIC SEEDING. * ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 4:1 OR STEEPER. * SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE O 3 TONS PER ACRE.

* PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SFEDED AREAS.

* WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLACK SOD, MULCH IS NO REQUIRED.

FERTILIZER REQUIREMENTS #52

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE	
1. COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500lbs./ac. 1000lbs./ac. 400 lbs./ac.	50-100 lbs./ac.	* 1 & 2
2. COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500lbs./ac. 1000lbs./ac. 400 lbs./ac.	50-100 lbs./ac.	* 1
3. GROUND COVERS	FIRST SECOND MAINTENANCE	10-10-10 10-10-10 10-10-10	1300lbs./ac. 1300lbs./ac. 1100 lbs./ac.	-* 3 -* 3 -	
4. PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	_	
5. SHRUB LESPEDEZA	FIRST MAINTENANCE	0-10-10 0-10-10	700lbs./ac. 700lbs./ac.	* 4	
6. TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500lbs./ac.	30 lbs./ac. * 5	
7. WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500lbs./ac. 800lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 50-100 lbs./ac. 30 lbs./ac.	* 2 & 6 * 2
8. WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500lbs./ac. 1000lbs./ac. 400 lbs./ac.	50-100 lbs./ac.	* 6

- * 1 APPLY IN SPRING FOLLOWING SEEDING. * 2 APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
- * 3 APPLY IN 3 SPLIT APPLICATIONS.
- * 4 APPLY WHEN PLANTS ARE PRUNED. * 5APPLY TO GRASS SPECIES ONLY.
- * 6 APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

THE CONTRACTOR WILL OBTAIN COPIES OF ANY AND ALL LOCAL AND STATE REGULATIONS THAT ARE APPLICABLE TO STORM WATER MANAGEMENT, EROSION CONTROL, AND POLLUTION MINIMIZATION AT THIS JOB SITE AND WILL COMPLY FULLY WITH SUCH REGULATIONS. THE CONTRACTOR WILL SUBMIT WRITTEN EVIDENCE OF SUCH COMPLIANCE IF REQUESTED BY THE OWNER OR ANY AGENCY OF A REGULATORY BODY. THE CONTRACTOR WILL COMPLY WITH ALL CONDITIONS OF ANY AND ALL LOCAL, STATE AND FEDERAL AGENCIES THAT HAVE GOVERNING AUTHORITY, INCLUDING THE CONDITIONS RELATED TO MAINTAINING THE ESPCP AND EVIDENCE OF COMPLIANCE WITH THE ESPCP AT THE JOB SITE AND ALLOWING REGULATORY PERSONNEL ACCESS TO THE JOB SITE AND TO RECORDS IN ORDER TO DETERMINE COMPLIANCE.

- THE PRIMARY PERMITEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A N.O.T. IS SUBMITTED IN ACCORDANCE WITH PART VI: A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
- B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY
- C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
- D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS
- E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A OF THIS PERMIT;
- F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT; AND G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF
- 2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINALS STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE N.O.T. IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION

SAMPLE TYPE #33

TO THE PERMITTEE.

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA" 833-8-92-001" AND GUIDANCE DOCUMENTS PREPARED BY THE EPD.

PER NPDES PERMIT, GAR 100002. "SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES. SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER. LARGE-MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANSED THOROUGHLY TO AVOID CONTAMINATION. MANUAL, AUTOMATIC AND RISING STAGE SAMPLING MAY BE UTILIZED. IF AUTOMATIC SAMPLING IS USED AND NOT ACTIVATED DURING QUALIFYING EVENT, THE PERMITTEE MUST USE MANUAL SAMPLING OR RINSING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO THE EPD AS SPECIFIED IN PART

PERMITTEE REQUIREMENTS.

- (1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- (2). MEASURE AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION ONCE EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.
- (3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
- (4). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS SUBMITTED TO EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).
- (5). BASED ON THE RESULTS OF EACH INSPECTION. THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.
- (6). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5). OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION SITE THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

SAMPLING FREQUENCY #31

- THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.
- 2. HOWEVER, WHERE MANUAL AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THE PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.
- 3. SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:
- A. FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
- B. IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A N.O.T., IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
- AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS. AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
- WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT OBLIGATIONS UNDER (A), (B) OR (C) ABOVE.
- EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING IN CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE
- *NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

- THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORMWATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED
- IN ACCORDANCE WITH PART VI. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
- THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR
- THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING
- AND MEASUREMENTS; THE DATE(S) ANALYSES WERE PERFORMED;
- d. THE TIME(S) ANALYSES WERE INITIATED;
- e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;

STORM WATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT EPA 833-8-92-001."

UPSTREAM AND DOWNSTREAM SAMPLING WILL BE PERFORMED FOR THIS PROJECT (SEE LOCATION ON THE PLAN). STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE UPSTREAM AND DOWNSTREAM LOCATIONS. A DISCHARGE OF STORM WATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDS 75 NTU. THERE SHALL BE A MAXIMUM 75 NTU VALUE DIFFERENCE BETWEEN UPSTREAM AND DOWNSTREAM SAMPLING POINTS. PER NPDES PERMIT GAR 100002, FOR CONSTRUCTION ACTIVITIES, THE PRIMARY PERMITTEE MUST COMPLETE ALL SAMPLING.

GOOD HOUSEKEEPING

- 1. QUANTITIES ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB. 2. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.
- 3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER'S LABELS LEGIBLE AND VISIBLE. 4. PRODUCT MIXING, DISPOSAL, AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING
- TO THE MANUFACTURER'S RECOMMENDATIONS. 5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND
- DISPOSAL 6. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF SOAPS OR SOLVENTS USED IN
- VEHICLE AND EQUIPMENT WASHING. 7. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTIONS MATERIALS.

GOOD HOUSEKEEPING

- 1. QUANTITIES ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB. 2. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN
- APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE. 3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER'S LABELS LEGIBLE AND VISIBLE. 4. PRODUCT MIXING, DISPOSAL, AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING
- TO THE MANUFACTURER'S RECOMMENDATIONS. 5. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND
- 6. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- 7. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTIONS MATERIALS.

INITIAL DATE: OCTOBER 28, 2024 REVISED: FEBRUARY 3. 2025

02	ISSUED FOR REBID	JGS	2/3/20
01	BID SET	JGS	10/3/2
NO.	REVISIONS	BY	DATE





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EROSION CONTROL NOTES

EXIT 29 WATER PRODUCTION FACILITY & **ELEVATED STORAGE TANK:** DIVISION II REBID

PROJECT LOCATION: GLYNN COUNTY

CLIENT/OWNER:

GEORGIA

BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

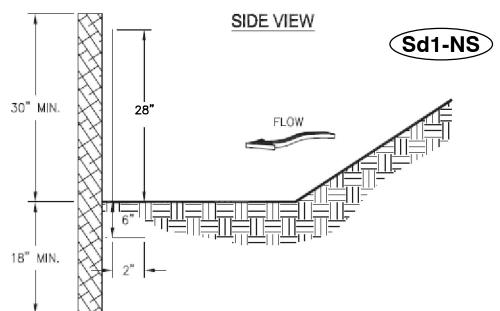
10/3/2024 DRAWN: JGS DESIGNED: JGS

DATUM: HORIZ.:

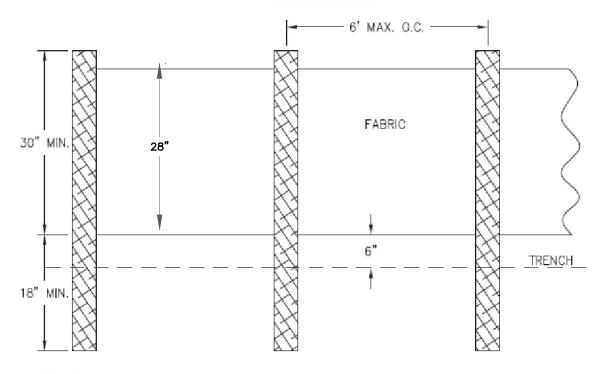
REVIEWED: MCF

APPROVED: MCF

VERT.:



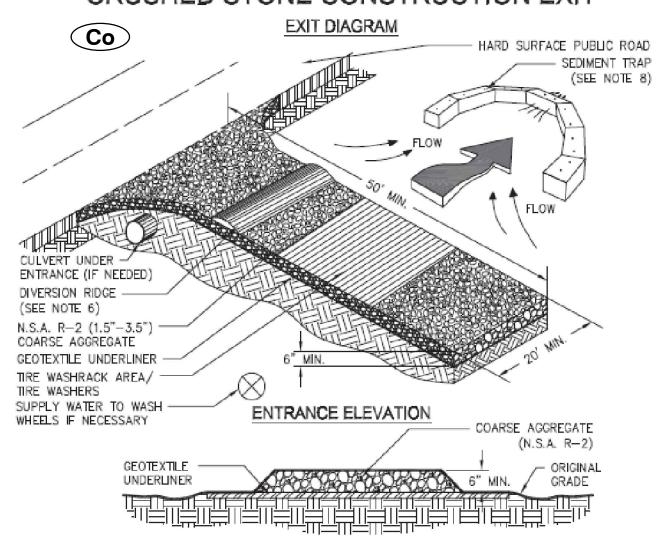
FRONT VIEW



- NOTES:

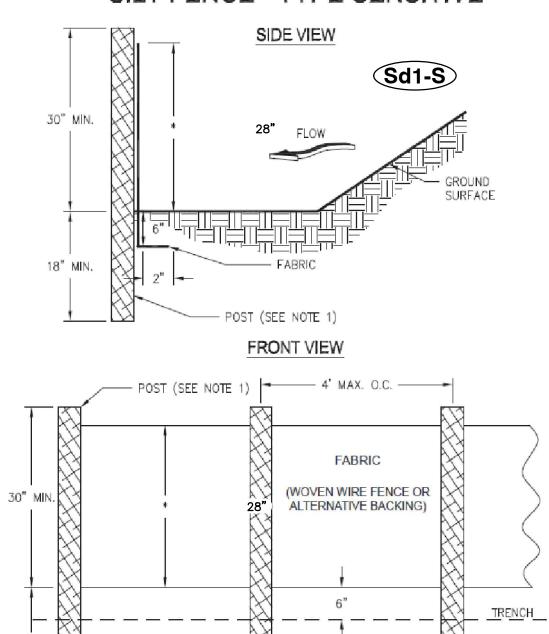
 1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
- 2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

CRUSHED STONE CONSTRUCTION EXIT



- NOTES: 1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS. 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND
- 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE). 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6". 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
- 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.. 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES. 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND
- DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE). 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT
- 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES

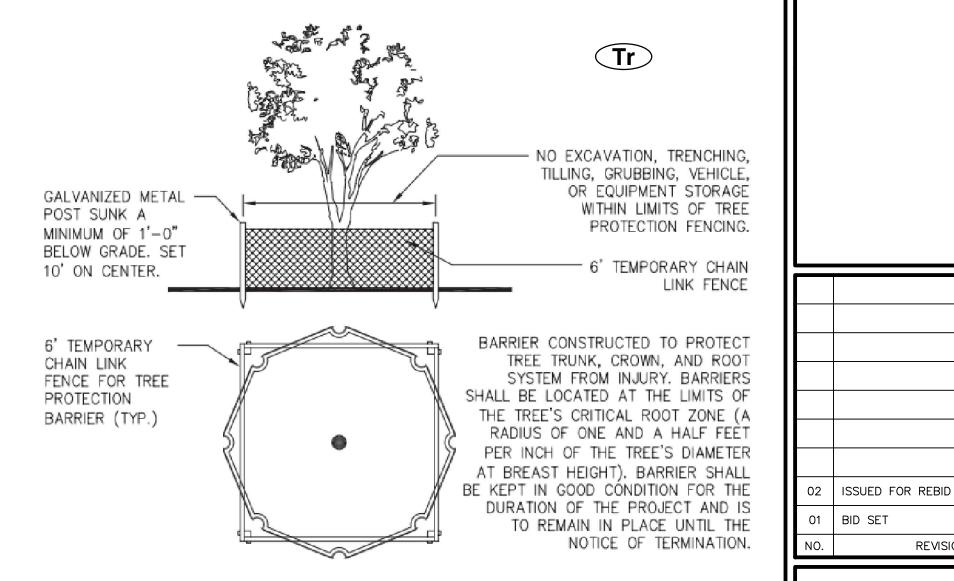
SILT FENCE - TYPE SENSITIVE



USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. 2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION

TREE PROTECTION

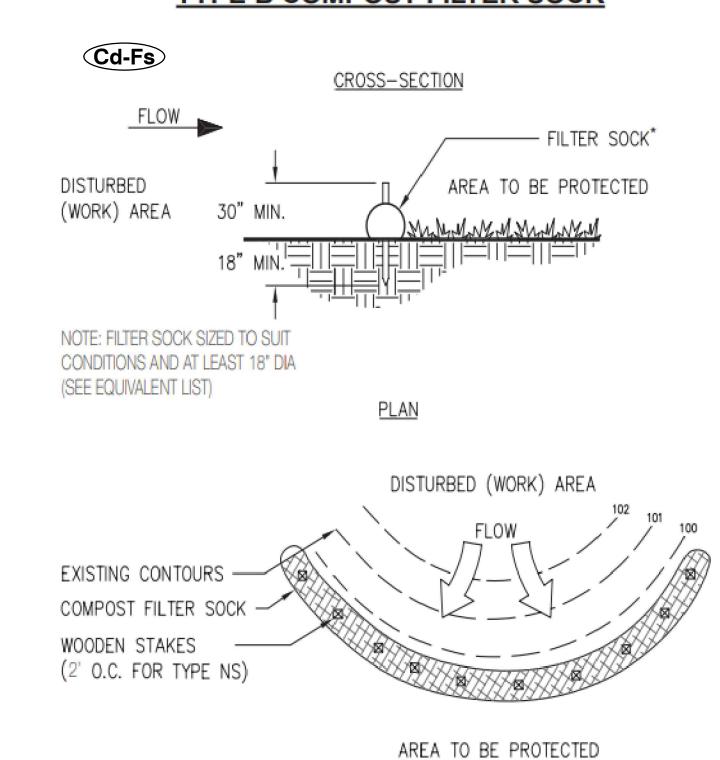
CHAIN LINK FENCE DETAIL



-PROVIDE 4" DEEP ORGANIC MULCH OVER ANY UNPROTECTED ROOT ZONE. -PROVIDE TEMPORARY IRRIGATION WHERE PRACTICAL AND FEASIBLE.

USE THIS DETAIL WHEN PROTECTING TREES ANYWHERE APART FROM PARCEL THAT CONTAINS ELEVATED WATER STORAGE TANK SITE. FOR CLEARING ALONG ACCESS ROAD, FENCE LINE, WATER MAIN AT THIS LOCATION, AND ELEVATED STORAGE TANK, USE 4' HIGH ORANGE PLASTIC FABRIC FENCING STAPLED IN THREE LOCATIONS TO TREATED WOOD 2X4 STAKES. SET STAKES 6' ON CENTER. NO REBAR WILL BE ACCEPTABLE.

TYPE B COMPOST FILTER SOCK



*HEIGHT IS TO BE SHOWN ON THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

TYPICAL STRAW BALE CHECK DAM Cd-Hb SEE DETAIL FOR PLACEMENT OF BALE SECTION A-A **SECTION B-B** NOTES:

1. BALES SHOULD BE BOUND WITH WIRE OR NYLON STRING AND SHOULD BE PLACED IN ROWS WITH BALE ENDS <u>TIGHTLY</u> ABUTTING THE ADJACENT BALES.

2. <u>REMOVE</u> #4 REBAR AFTER STRAW BALES ARE NO LONGER IN PLACE.

3. POINT C OF SECTION B—B SHOULD <u>ALWAYS</u> BE HIGHER THAN POINT D.

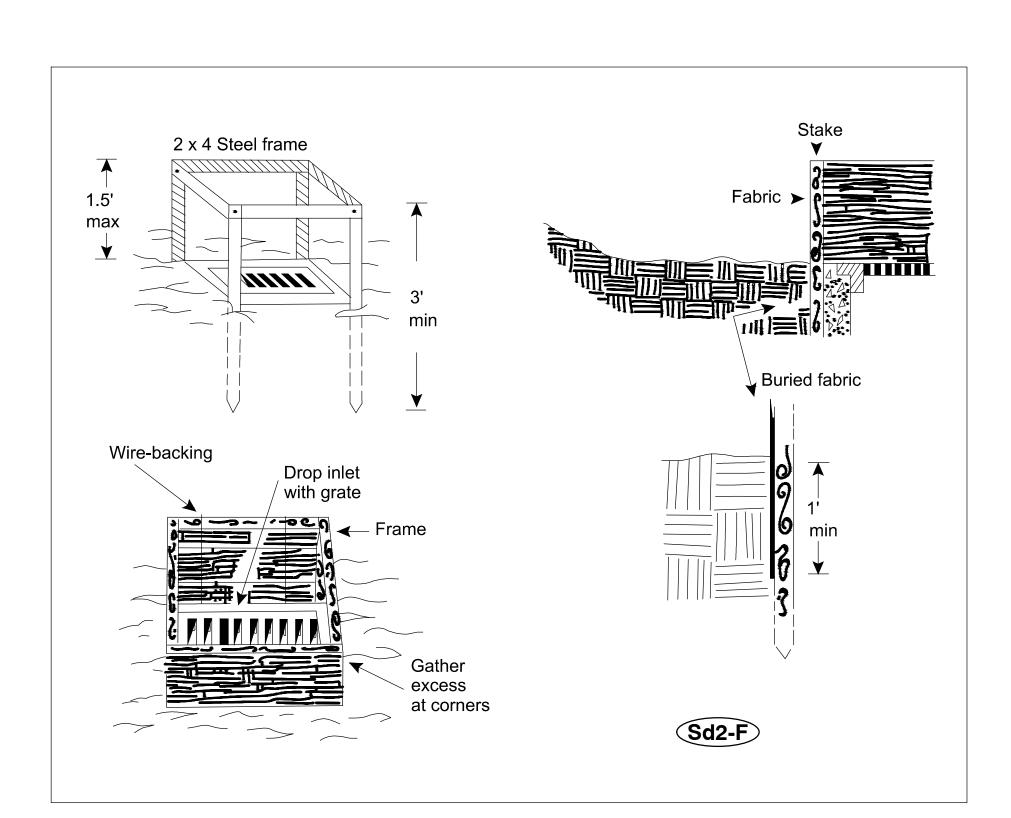


Figure 6-21.1 - Fabric and Supporting Frame For Inlet Projection



REVISIONS

JGS 10/28/

BY DATE



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EROSION CONTROL NOTES

EXIT 29 WATER PRODUCTION FACILITY & **ELEVATED STORAGE TANK:** DIVISION II REBID

PROJECT LOCATION: GLYNN COUNTY

CLIENT/OWNER:

BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

VERT.:

DATUM: HORIZ.: DRAWN: DESIGNED: JGS
REVIEWED: MCF APPROVED: MCF

INITIAL DATE: OCTOBER 28, 2024 REVISED: FEBRUARY 3, 2025

2. I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN (PLAN) WAS PREPARED BY A DESIGN PROFESSIONAL, AS DEFINED BY THIS PERMIT, THAT HAS COMPLETED THE APPROPRIATE CERTIFICATION COURSE APPROVED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION IN ACCORDANCE WITH THE PROVISIONS OF O.C.G.A. 12-7-19 AND THAT I WILL ADHERE TO THE PLAN AND COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THIS PERMIT.

OWNERS PRINTED NAME	TITLE
SIGNATURE	 DATE

DESIGN PROFESSIONAL CERTIFICATION:

- 1. "I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS #11 DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION."
- 2. "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA " (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH LAND DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER (S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES No. GAR 100002.
- 3. "I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL OR INTERMITTENT STREAM AND OTHER WATER BODY IS NOT PROPOSED TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 100002, THAT THE INCREASE IN TURBIDITY OF EACH SPECIFIC IDENTIFIED SAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UN-SAMPLED RECEIVING WATER."

GSWCC LEVEL II DESIGN PROFESSIONAL- MATTHEW C. FRAZIER

0000085563

10/13/2027

CERTIFICATION # EXPIRATION DATE

CERTIFICATION NUMBER EXPIRATION DATE: __10/13/2027____

GA PE NUMBER: _____043414 GSWCC LEVEL II CERTIFICATION NUMBER: __0000085563__

#36 CONSIDERATIONS FOR CONSTRUCTION SCHEDULING

A SPECIFIED WORK SCHEDULE IS NEEDED TO COORDINATE THE TIMING OF LAND DISTURBING ACTIVITIES WITH THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES. THE PURPOSE OF THE SCHEDULE IS TO REDUCE ON—SITE EROSION AND OFF—SITE SEDIMENTATION BY PERFORMING LAND DISTURBING ACTIVITIES AND INSTALLING EROSION AND SEDIMENTATION CONTROL PRACTICES IN ACCORDANCE WITH A PLANNED SCHEDULE. IN PLANNING CONSTRUCTION WORK, IT MAY BE HELPFUL TO OUTLINE ALL LAND DISTURBING ACTIVITIES NECESSARY TO COMPLETE THE PROPOSED PROJECT. THEN LIST ALL PRACTICES NEEDED TO CONTROL EROSION AND SEDIMENTATION ON THE SITE. THESE TWO LISTS CAN THEN BE COMBINED IN LOGICAL ORDER TO PROVIDE A PRACTICAL AND EFFECTIVE CONSTRUCTION SEQUENCE SCHEDULE THAT BECOMES PART OF THE EROSION AND SEDIMENTATION CONTROL PLAN.

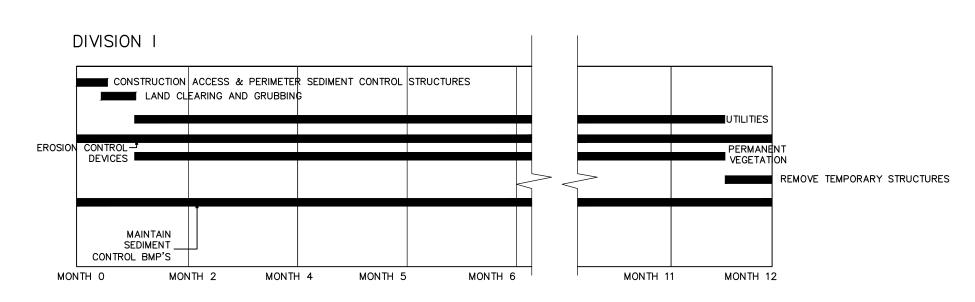
ND SEDIMENTATION CONTROL PLAN.	
CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
1. OBTAIN ALL PLAN APPROVALS AND OTHER APPLICABLE PERMITS.	
2. FLAG THE WORK LIMITS AND MARK THE TREES AND BUFFER AREAS FOR PROTECTION.	
3. HOLD PRE CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION.	
 CONSTRUCTION ACCESS — CONSTRUCTION ENTRANCE, CONSTRUCTION ROUTES, EQUIPMENT PARKING AREAS. 	FIRST LAND DISTURBING ACTIVITY —— STABILIZE BARE AREAS IMMEDIATELY WITH GRAVEL AND TEMPORARY VEGETATION AS CONSTRUCTION TAKES PLACE.
 SEDIMENT TRAPS AND BARRIERS — BASIN TRAPS, SEDIMENT FENCES, AND OUTLET PROTECTION. 	INSTALL PRINCIPAL BASINS AFTER CONSTRUCTION SITE IS ACCESSED. INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING.
6. RUNOFF CONTROL — DIVERSIONS, PERIMETER DIKES, WATER BARS, AND OUTLET PROTECTION.	INSTALL KEY PRACTICES AFTER PRINCIPAL SEDIMENT TRAPS AND BEFORE LAND GRADING. INSTALL ADDITIONAL RUNOFF—CONTROL MEASURES DURING GRADING.
7. RUNOFF CONVEYANCE SYSTEM— STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	WHERE NECESSARY, STABILIZE STREAM BANKS AS EARLY AS POSSIBLE. INSTALL PRINCIPAL RUNOFF CONVEYANCE SYSTEM WITH RUNOFF— CONTROL MEASURES. INSTALL REMAINDER OF SYSTEM AFTER GRADING.
8. LAND CLEARING AND GRADING—SITE PREPARATION CUTTING, FILLING AND GRADING, SEDIMENTATION TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING.	BEGIN MAJOR CLEARING AND GRADING AFTER PRINCIPAL SEDIMENT AND KEY RUNOFF—CONTROL MEASURES ARE INSTALLED. CLEAR BORROW AND DISPOSAL AREAS ONLY AS NEEDED. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES. MARK TREES AND BUFFER AREAS FOR PRESERVATION.
9. SURFACE STABILIZATION—TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETE.
 BUILDING CONSTRUCTION— BUILDINGS UTILITIES, PAVING. 	INSTALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES AS WORK TAKES PLACE.
11. LANDSCAPING AND FINAL STABILIZATION — TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING RIPRAP.	LAST CONSTRUCTION PHASE——STABILIZE ALL OPEN AREAS, INCLUDING BORROW AND SPOIL AREA REMOVE AND STABILIZE ALL TEMPORARY CONTROL MEASURES.

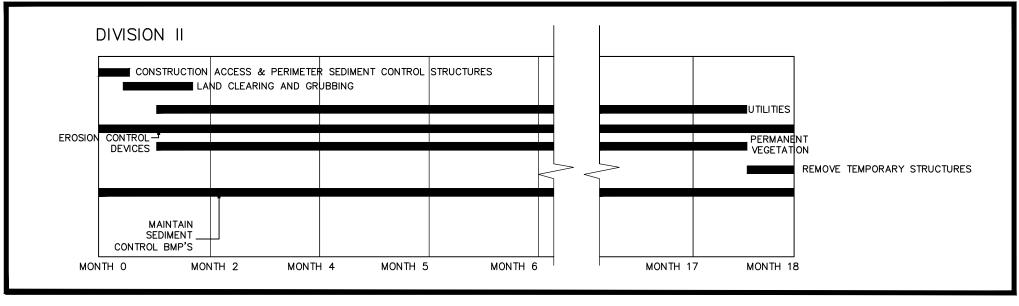
SECONDARY PERMITTEES

NOTE: THIS MASTER LIST TO BE COMPLETED AND SIGNED AND KEPT IN THE "ON-SITE" CONSTRUCTION TRAILER. SECONDARY PERMITTEES SIGN WHEN RECEIVING PLANS. ALL SECONDARY PERMITTEES MUST SUBMIT SECONDARY NOI AT LEAST 14 DAYS PRIOR TO BEGINNEING CONSTRUCTION ACTIVITY.

COMPANY ADDRESS	PHONE: FAX:		
ADDRESS GSWCC LEVEL IA CERTIFICATION NO		SIGNATURE	
NAME COMPANY ADDRESS ADDRESS	PHONE: FAX:	 SIGNATURE	
GSWCC LEVEL IA CERTIFICATION NO			
NAME COMPANY	PHONE:		
ADDRESS ADDRESS GSWCC LEVEL IA CERTIFICATION NO. ——	FAX:	SIGNATURE	
NAME COMPANY	PHONE:		
ADDRESS ADDRESS GSWCC LEVEL IA CERTIFICATION NO.	FAX:	SIGNATURE	
DESIGN PROFESSIONAL 7-DA	Y VISIT CERTIF	CATION	
DATE OF INSPECTION			
I CERTIFY THE INITIAL SEDIMENT STORAG AS DESIGNED AS OF 7 DAYS AFTER INS		ONTROL BMPS HAVE BEEN INSTAL	LED AND ARE BEING MAINTAINE
MATTHEW CHRISTOPHER FRAZIEF	R, P.E.	0000085563	
GSWCC LEVEL II DESIGN PROFESSIONAL		CERTIFICATION #	_
INSPECTION REVEALED THE FOLLOWING D	DISCREPANCIES FROM	THE ES&PC PLAN	

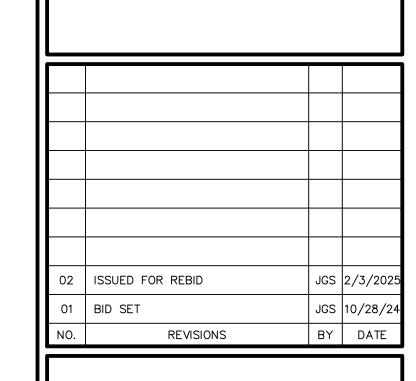
THESE DEFICIENCIES MUST BE ADDRESSED IMMEDIATELY AND A RE-INSPECTION SCHEDULED. WORK SHALL NOT PROCEED ON THE SITE UNTIL DESIGN PROFESSIONAL CERTIFICATION IS OBTAINED.





[DIVISION I	П							
-			ACCESS & PERIMET	ER SEDIMENT CONTROL	STRUCTURES				
								UTILITIES	
EROSION	CONTROL DEVICES						-	PERMANE VEGETAT	
	<i>52</i> 11623							VEGETAT	REMOVE TEMPORARY STRUCTURES
	MAINT SEDIME CONTROL BM	:NT							
MON	ITH O	MON	TH 2 MON	TH 4 MONTH	5 MONTH 6	MONTH 7	MONTH 8	MONTH 9	•

INITIAL DATE: OCTOBER 28, 2024 REVISED: FEBRUARY 3, 2025







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EROSION CONTROL NOTES

EXIT 29 WATER PRODUCTION FACILITY & **ELEVATED STORAGE TANK:** DIVISION II REBID

PROJECT LOCATION: GLYNN COUNTY

GEORGIA

CLIENT/OWNER: BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

10/3/2024

DATUM: HORIZ.:

DRAWN: JGS DESIGNED: JGS REVIEWED: MCF APPROVED: MCF

VERT.:

INITIAL	DATE:	OCTOBE	IR 28	3, 202
REVISEI	D: FEBR	UARY 3,	202	5

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST	
INFRASTRUCTURE CONSTRUCTION PROJECTS	

Project Name	e: Exit 29 Wa	tter Production Facility & Elevated Storage Tank Address:_ 391 South Port Parway #3. Brunswick, GA 315
_	Authority:	
	-	illing out checklist:_ JACQUELYNN SMITH, SMITH.JACQUELYNN@TANDH.COM
Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
EC1.4	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
		(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
ALL	Υ	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
EC2.1	Υ	3 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
EC2.1	Υ	4 Provide the name, address, email address, and phone number of primary permittee.
EC2.1	Υ	5 Note total and disturbed acreages of the project or phase under construction.
EC0.1	Υ	6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
ALL	Υ	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
EC2.1	Υ	8 Descriptions of the nature of construction activity and existing site conditions.
EC0.1	Υ	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
EC2.1	Υ	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
EC2.4	Υ	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.
EC2.4	Υ	12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit. *
EC2.4	Υ	13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3) page 37 of the permit as applicable. *
EC2.1	Υ	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with Part IV.A.5 page 26 of the permit. *
EC2.1	Υ	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
EC2.1	Υ	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
EC2.1	Υ	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
EC2.1	Υ	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *

102.12	sediment control measures and practices prior to land disturbing activities."
EC2.1 Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented
	to control or treat the sediment source."
EC2.1	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
N/A	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biota Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
N/A	23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
EC2.2	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
EC2.2	25 Provide BMPs for the remediation of all petroleum spills and leaks.
EC2.1 Y	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *
EC2.1	27 Description of practices to provide cover for building materials and building products on site. *
EC2.1-EC2.3 Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *
EC2.1, EC2.4 Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
EC2.2 Y	30 Provide complete requirements of Inspections and record keeping by the primary permittee. *
EC2.2 Y	31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *
EC2.2 Y	32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *
EC2.2	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
EC2.2	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
ECO.1	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *
EC2.4 Y	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase. *
EC1.1-EC1.3 Y	37 Graphic scale and North arrow.
N/A	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours USGS 1": 2000' Topographical Sheets

Proposed Contours 1": 400' Centerline Profile

19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and

N/A

39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.

40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *

10 N/A

11 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.

12 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.

13 Delineation and acreage of contributing drainage basins on the project site.

14 Delineate on-site drainage and off-site watersheds using USGS 1":2000' topographical sheets.

Identify/Delineate all storm water discharge points.

completed.

46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion.

45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are

EC1.1-EC1.3 Y 47 Soil series for the project site and their delineation.

EC1.1-EC1.3 Y 48 The limits of disturbance for each phase of construction.

49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.

The surface are not reasible, a written justification explaining this decision must be included in the man.

50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.

2.3 Y 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.

52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

Effective January 1, 2024

* If using this checklist for a project that is less than 1 acre and not part of a common development

but within 200 ft of a perennial stream, the * checklist items would be N/A.

EROSION CONTROL NOTES

HUTTON

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EXIT 29 WATER
PRODUCTION FACILITY &
ELEVATED STORAGE TANK:
DIVISION II REBID

PROJECT LOCATION:
GLYNN COUNTY

02 ISSUED FOR REBID

REVISIONS

BY DATE

01 BID SET

CLIENT/OWNER:
BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

DATUM: HORIZ.:

REVIEWED: MCF APPROVED: MCF

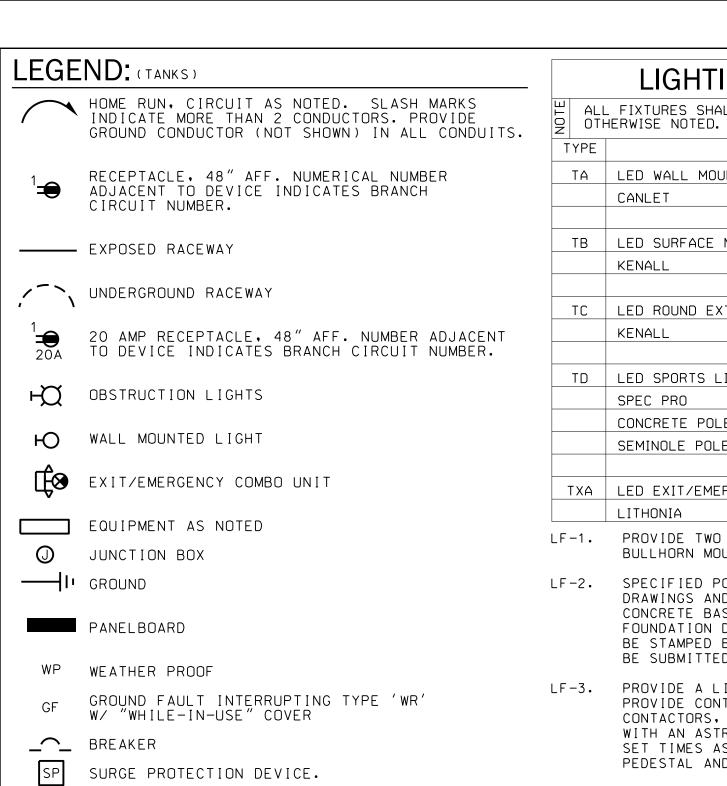
JOB NO: 30998.0000
DATE: 10/3/2024
DRAWN: JGS
DESIGNED: JGS

EC2.5

VERT.:

NOTE:

EROSION CONTROL ORIGINALLY SUBMITTED FOR REVIEW WITH DIVISIONS I, II, AND III. DIVISIONS I AND III WERE AWARDED. AS OF FEBRUARY 3, 2025, DIVISION II IS UP FOR RE-BID. EROSION CONTROL PLANS HAVE BEEN REVISED HEREIN TO, NOTES, AND DETAILS REMAIN PERTINENT. THE EROSION CONTROL PLANS ONLY REFLECT DIVISION II. THE EROSION CONTROL NOTES AND DETAILS REFLECT DIVISIONS I, II, AND III. CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR DIVISION II EROSION CONTROL. AT THE TIME OF ISSUE FOR THE "EXIT 29 WATER PRODUCTION FACILITY & ELEVATED STORAGE TANK: DIV II REBID", THE FULL EROSION CONTROL PLAN SET IS UNDER REVIEW BY THE ISSUING AUTHORITY.



TORK MODEL 2107. MTD 10' ABOVE GRADE

AIR TERMINAL FOR LIGHTING PROTECTION.

TANK FLOODLIGHTS WITH POLE

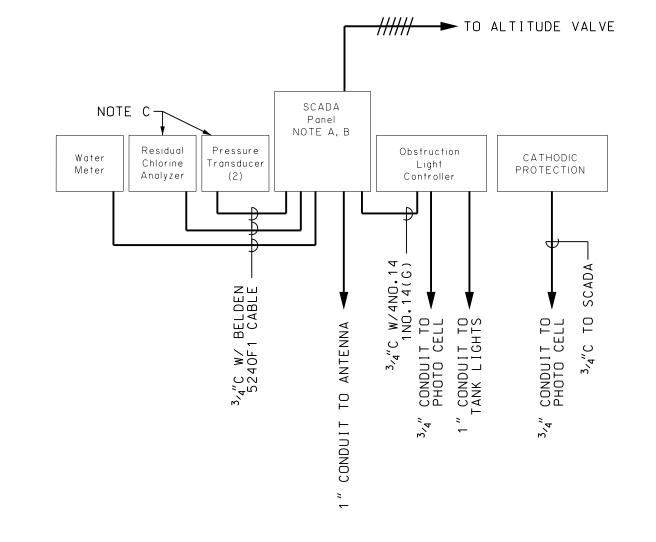
SEE NOTE T4



- LF-1. PROVIDE TWO SPORTS LIGHTER FIXTURES PER POLE. FURNISH WITH DOUBLE BULLHORN MOUNT. PROVIDE SIDE SHIELDS FOR FIXTURES.
- SPECIFIED POLE IS A DIRECT BURY CONCRETE POLE, COORDINATE WITH CIVIL DRAWINGS AND GEOTECHNICAL REPORT FOR FOUNDATION REQUIREMENTS; PROVIDE CONCRETE BASE SUPPORT AS REQUIRED. THE CONTRACTOR SHALL PROVIDE A POLE FOUNDATION DESIGN FOR THE POLES AND FIXTURES FURNISHED. THE DESIGN SHALL TO. PROVIDE CATHODIC PROTECTION SYSTEM FOR TANKS AS SPECIFIED. BE STAMPED BY A GA REGISTERED PROFESSIONAL ENGINEER. THE DESIGN SHALL BE SUBMITTED FOR REVIEW WITH THE SHOP DRAWINGS.
- PROVIDE A LIGHTING CONTROL PANEL FOR CONTROL OF THE TANK FLOOD LIGHTS. PROVIDE CONTROL PANEL WITH HINGED DOOR, PROVIDE FOUR 4 POLE EOEH CONTACTORS, EACH WITH HOA SWITCH IN COVER OF PANEL. CONTROL CONTACTORS WITH AN ASTRONOMICAL TIME CLOCK SIMILAR TO INTERMATIC ET70415CR. SET TIMES AS DIRECTED BY OWNER, PANEL ENCLOSURE TO BE NEMA 1 FOR PEDESTAL AND COMPOSITE TANK, NEMA 4 FOR MULTILEG TANK.
- LF-4. SIMILAR FIXTURES BY OTHER MANUFACTURERS ARE ACCEPTABLE BASED ON REVIEW BY ENGINEER. FOR FLOODLIGHTS, PROVIDE POINT BY POINT PLAN OF TANK FACE.

NOTES: (APPLICABLE TO ALL TANK SHEETS)

- T1. FIELD COORDINATE THE SERVICE AND/OR SERVICE POLE LOCATION WITH GEORGIA POWER. CONTACT GREG MCCRANIE, DISTRIBUTION ENGINEER, (912) 267-5155.
- T2. LOCATE TANK LIGHTING CONTROL ADJACENT TO PANEL T.
- T3. PROVIDE FREEZE PROTECTION HEAT TRACING ON ALL EXPOSED TUBING, SPECIFICALLY FOR THE CHLORINE ANALYZER AND PRESSURE TRANSDUCER. FURNISH PRODUCTS OF JMP OR APPROVED EQUAL; PROVIDE 5-FLX-1-OJ (5W/FT) HEATING CABLE, PCA-COM TRACE PLUS KIT, B4X-15140 THERMOSTAT, AL-20L ALUMINIUM TAPE, AND ALL NECESSARY COMPONENTS FOR A COMPLETE SYSTEM. CONNECT TO CIRCUIT T-13. PROVIDE ARMAFLEX INSULATION WITH COVER FOR ALL EXPOSED TUBING.
- T4. AIR TERMINAL TO BE LOCATED AT TOP OF TANK AND BE 1/2" COPPER, 48" LONG WITH THREE LEG BRACE. CONNECT TO TOP OF TANK WITH EXOTHERMIC WELD. PROVIDE DOWN CONDUCTORS FOR COMPOSITE TANK
- T5. PROVIDE OBSTRUCTION LIGHTING ON TANK IN ACCORDANCE WITH FAA AC 70/7460-1K. TANK TOP BEACONS SHALL BE CROUSE-HINDS D8RW-C13-006, L864 GENERAL USE LED UAL BEACON, MEDIUM INTENSITY. PROVIDE DUAL FIXTURE MOUNT WITH TWO BEACONS. PROVIDE OBSTRUCTION LIGHTING CONTROL PANEL, CROUSE-HINDS 730015-3; PROVIDE WITH LIGHTNING ARRESTOR, ALTERNATING FEATURE (FOR TANK BEACONS) AND AUXILLARY CONTACTS FOR ALARM ANNUNCIATION TO SCADA SYSTEM. PROVIDE PHOTO ELECTRIC CONTROLLER, CROUSE-HINDS 52010, AND ALARM INDICATING LIGHT, CROUSE-HINDS 12010-001-R. PROVIDE ALL EQUIPMENT AND WIRING FOR A COMPLETE SYSTEM. CONNECT TO CIRCUIT T-4. PROVIDE NO.10 CONDUCTORS. ALL WIRING FOR TANK OBSTRUCTION LIGHTS SHALL BE INSTALLED IN CONDUIT. EXTEND TO CAST WP JUNCTION BOX AT TOP OF TANK. EXTEND CIRCUIT SHOWN FROM PANEL T. DEMONSTRATE OPERATION OF LIGHTS. PROVIDE NEMA 1 PAINTED STEEL ENCLOSURE FOR OBSTRUCTION LIGHT CONTROL PANEL FOR PEDESTAL AND COMPOSITE TANK AND NEMA 3R ENCLOSURE FOR MULTI-LEG TANK.
- SEE SPEC SECTION 30-16-13 PARA. 2.49.
- T7. FLOODLIGHT CONTROL PANEL SHALL BE NEMA I FOR COMPOSITE AND PEDESTAL TANK AND NEMA 4 FOR MULTI-LEG TANK. PROVIDE HOA SWITCH IN COVER TO CONTROL 8 POLE EOEH CONTACTORS, RATED 30A, 120V. PROVIDE ASTONOMICAL TIME CLOCK SIMILAR TO INTERMATIC ET70215CR SWITCH TO CONTROL FLOODLIGHTS.
- T8. THE CONTRACTOR SHALL SUBMIT NFS-61 CERTIFICATION FOR ALL SCADA AND ELECTRICAL WORK IN TANK.



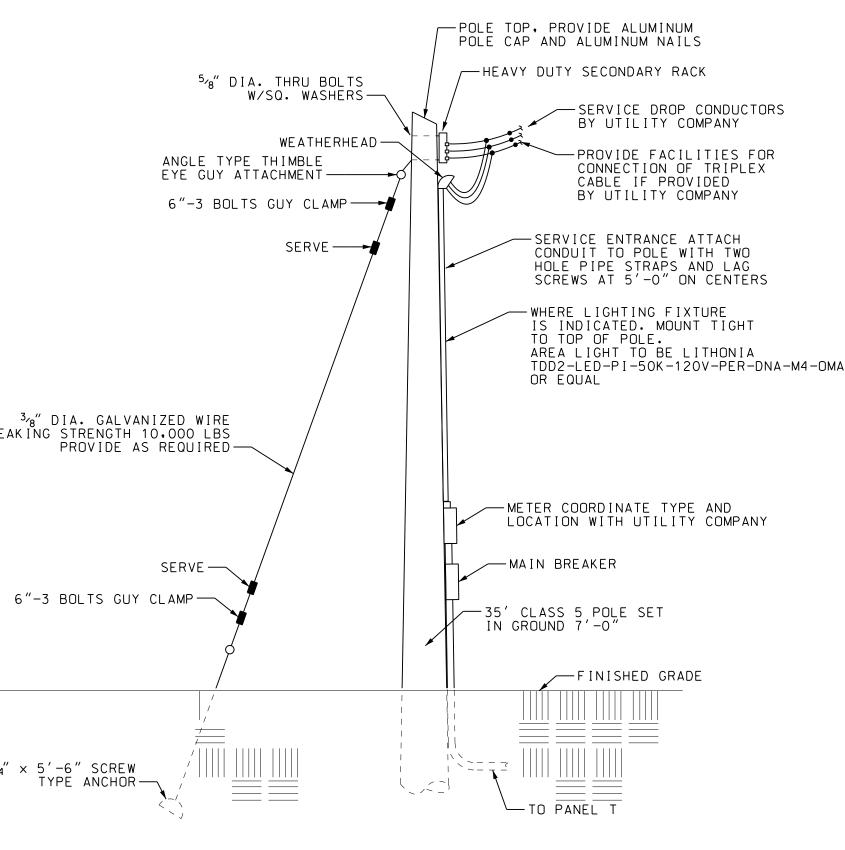
NOTES - SCADA RISER DIAGRAM

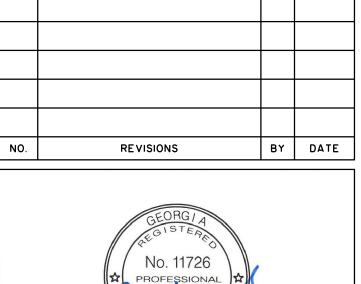
- A. PROVIDE 8"SQ X 24" WIRING TROUGH 18" AFF FOR SCADA. EXTEND WIRING TO TROUGH. LABEL ALL WIRING.
- B. PROVIDE WIRING FOR SCADA INCLUDE FOLLOWING POINTS:

DESCRIPTION CHLORINE ANALYZER PRESSURE - TANK PRESSURE - SYSTEM WATER METER OBTRUCTION LIGHT CONTROLLER (2) - SEE NOTE T5 CATHODIC PROTECTION ALARM ALTITUDE VALVE STATUS ALTITUDE VALVE CONTROL

C. SHIELDED CABLES FROM FIELD INSTRUMENTS TO SCADA AND TOTALIZERS SHALL CONTAIN NO SPLICES AND HAVE NO INTERMEDIATE JUNCTION BOXES. ALL ANALOG CABLE TO BE NO.18 TWISTED SHIELDED CABLE RATED FOR DIRECT BURIAL APPLICATION.









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TANK ELECTRICAL LEGEND, SCHEDULE, AND SITE PLAN

EXIT 29 WATER PRODUCTION FACILITY & ELEVATED STORAGE TANK: DIVISION II REBID

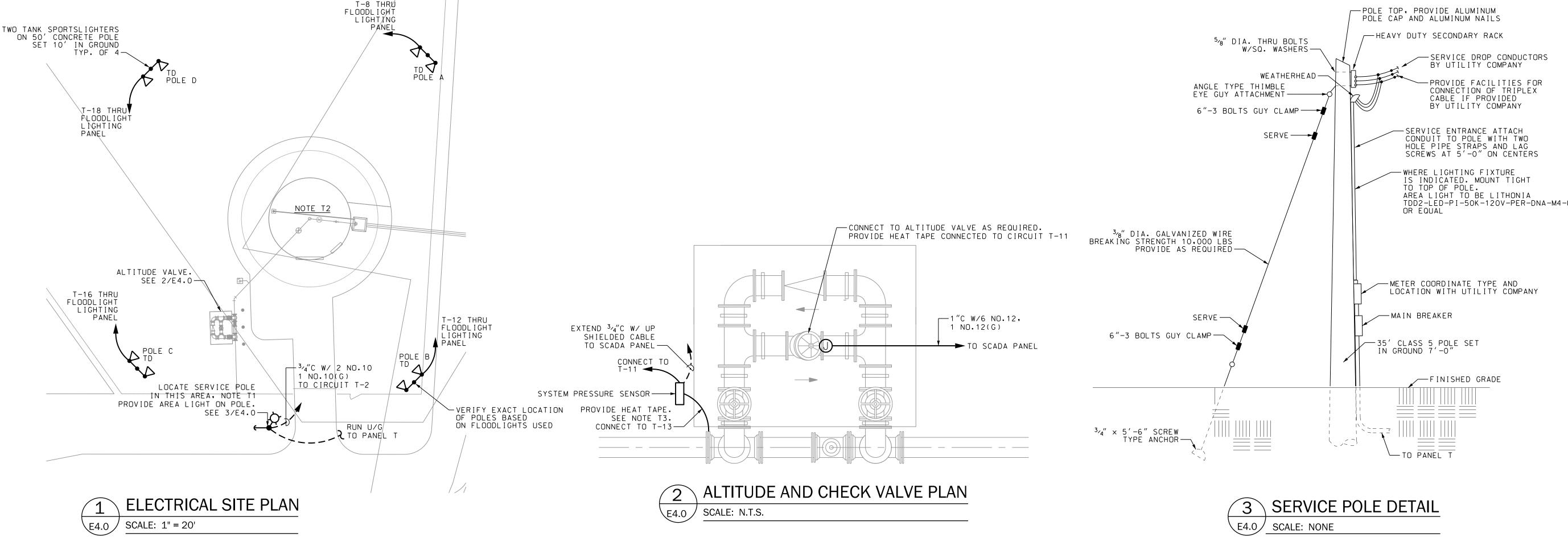
PROJECT LOCATION: GLYNN COUNTY GEORGIA

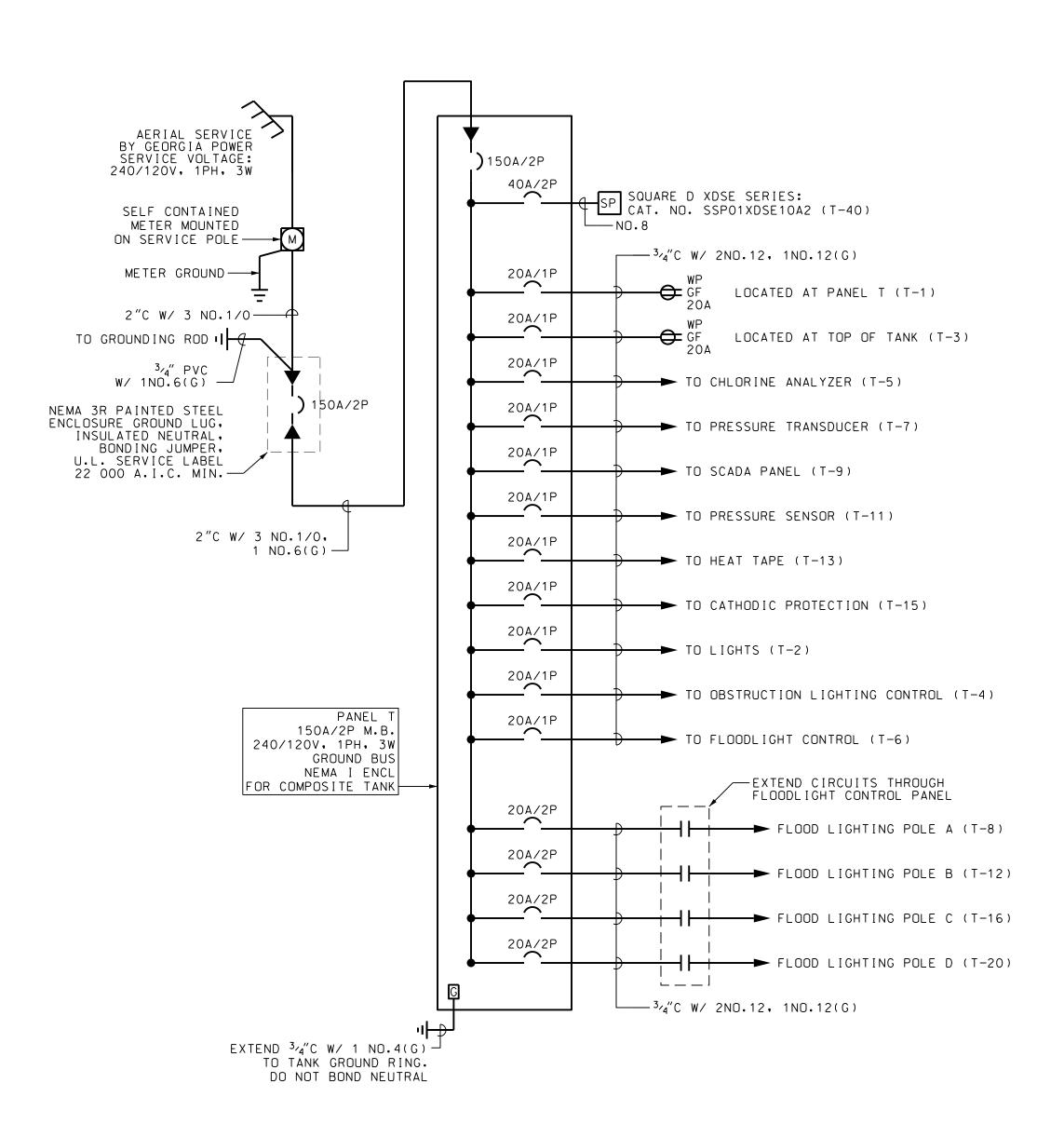
CLIENT/OWNER: BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

DATUM: HORIZ.: VERT.:

JOB NO: 30998.0000 DATE: 02/05/2025 DRAWN: JV

E4.0 DESIGNED: JV REVIEWED: PM APPROVED: PM SCALE: I" = 20'







				SCH	EDULE PA	ANELBO	ARD T			
	MAINS			VOLTAGE	PHASE	WIRE	MOUNTING			
	150	Α	МВ	120/240	1	3	SURFACE			
CIR.	TRIP/				CONNECTED	LOAD KVA			TRIP/	CIF
#	POLE		KVA	DESCRIPTION	PH. A	PH. B	DESCRIPTION	KVA	POLE	#
1	20A/1P		0.40	RCPT BOTTOM OF TANK	1.4		LIGHTS	1.00	20A/1P	2
3	20A/1P		0.20	RCPT TOP OF TANK		1.2	OBSTRUCTION LIGHTING CONTROL	1.00	20A/1P	4
5	20A/1P		0.10	CHLORINE ANALYZER	0.2		FLOODLIGHT CONTROL	0.10	20A/1P	6
7	20A/1P		0.10	PRESSURE TRANSDUCER		1.6	FLOOD LIGHTING POLE A	1.50	20A/2P	8
9	20A/1P		0.10	SCADA	1.6		-	1.50	-	1
11	20A/1P		0.10	PRESSURE SENSOR		1.6	FLOOD LIGHTING POLE B	1.50	20A/2P	1
13	20A/1P		1.00	HEAT TAPE	2.5		-	1.50	-	1
15	20A/1P		1.00	CATHODIC PROTECTION		2.5	FLOOD LIGHTING POLE C	1.50	20A/2P	1
17	20A/1P		1.00	SUMP PUMP	2.5		-	1.50	-	1
19	20A/1P			SPARE		1.5	FLOOD LIGHTING POLE D	1.50	20A/2P	2
21	20A/1P			SPARE	1.5		-	1.50	-	2
23	20A/1P			SPARE		0.0	SPARE		20A/2P	2
25	20A/1P			SPARE	0.0		-		-	2
27	20A/1P			SPARE		0.0	SPARE		20A/2P	2
29	20A/1P			SPARE	0.0		-		-	3
31	20A/1P			SPARE		0.0	SPARE		20A/2P	3
33	20A/1P			SPARE	0.0		-		-	3
35	20A/1P			SPARE		0.0	SPARE		20A/2P	3
37	20A/1P			SPARE	0.0		<u>-</u>		-	3
39	20A/1P			SPARE		0.0	SURGE PROTECTION		40A/2P	4
41	20A/1P			SPARE	0.0		-		-	4
MIN. BREAKER AIC: 10 000		9.7	8.4	TOTAL CONNECTED LOAD	18.1					
NOTES:		9.6	8.3	TOTAL DEMAND LOAD	17.9					

NO. REVISIONS BY DATE





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TANK ONE-LINE DIAGRAM AND PANEL SCHEDULE

EXIT 29 WATER PRODUCTION
FACILITY & ELEVATED
STORAGE TANK:
DIVISION II REBID

PROJECT LOCATION:
GLYNN COUNTY
GEORGIA

CLIENT/OWNER:

BRUNSWICK-GLYNN JOINT WATER & SEWER COMMISSION

DATUM: HORIZ.:

VERT.:

JOB NO: 30998.0000

DATE: 02/05/2025

DRAWN: JV

DESIGNED: JV

REVIEWED: PM

APPROVED: PM

SCALE: N.T.S.

E:\BGCWSC Exit 29 Water Production Facility & Elevated Tank - 24002.06\CADD\E4.1.dgn

