



MEMORANDUM – ADDENDUM NO. 1

To: Interested Vendors
From: Cindy Clack
Date: 10/31/2025
Re: RFB2026-08 Rebid Northwest Elevated Water Storage Tank -- Addendum No 1 (Total of 19 pages)

Please see below for questions/answers that have been received to date.

Questions/Answers:

- Q1.** *We understand the utility contractor license requirement is to remain. We just want to clarify that only our subcontractor performing the underground work has to have this license? We have a general contractor license in all states but since we don't do underground work only our sub would carry the utility license.*
- A1.** A Georgia Utility Contractor License is required for any entity performing underground utility construction such as water lines, sewer lines, storm drains, or related appurtenances. If the prime contractor does not self-perform any of this underground utility work, then only the subcontractor actually performing that portion of the work must hold a valid Georgia Utility Contractor License. Your company's General Contractor License would be sufficient for the elevated water tank construction, foundation, and other work not involving underground utility installation. Please note that the licensed utility subcontractor must have a designated Utility Manager in responsible charge of the utility work as required by O.C.G.A 43-14-8.2. This individual must be actively involved in and provide direct supervision over the field operations for that portion of the project. The prime contractor remains responsible for verifying that all subcontractors are properly licensed and in good standing and for ensuring compliance throughout the project. The licensed utility subcontractor's name, license number, and Utility Manager in responsible charge shall be included with the bid response and verified prior to mobilization for the County's records.
- Q2.** *What is the intent of section 21 (OWNER's Options To Purchase Materials)? Pricing will change drastically if we are not responsible for our material orders. After discussion with our President, we will have to understand this section more before determining if we will submit a bid.*
- A2.** There will be no owner purchased materials on this project, therefore this section is not applicable.
- Q3.** *Can you confirm that the utility license is only required for piping? We have located a subcontractor for piping but prefer a familiar subcontractor to handle the foundation work.*
- A3.** See the answer for Question 1.
- Q4.** *I'm doing my take-off for the rebid and the only change I noticed is the electrical work was removed. Is this correct? Will someone else be doing the electrical work?*
- A4.** The electrical work is still included. See plans attached. The attached plan set is the same as the original issued for bid plans – The Issued for Approval set should not have been in the project manual.

Attachments:

- Barrow NW Tank Plans (18 Pages)

BARROW NORTHWEST ELEVATED WATER STORAGE TANK

FOR THE
BARROW COUNTY BOARD OF COMMISSIONERS
PPI PROJECT NUMBER E23136



Board of Commissioners

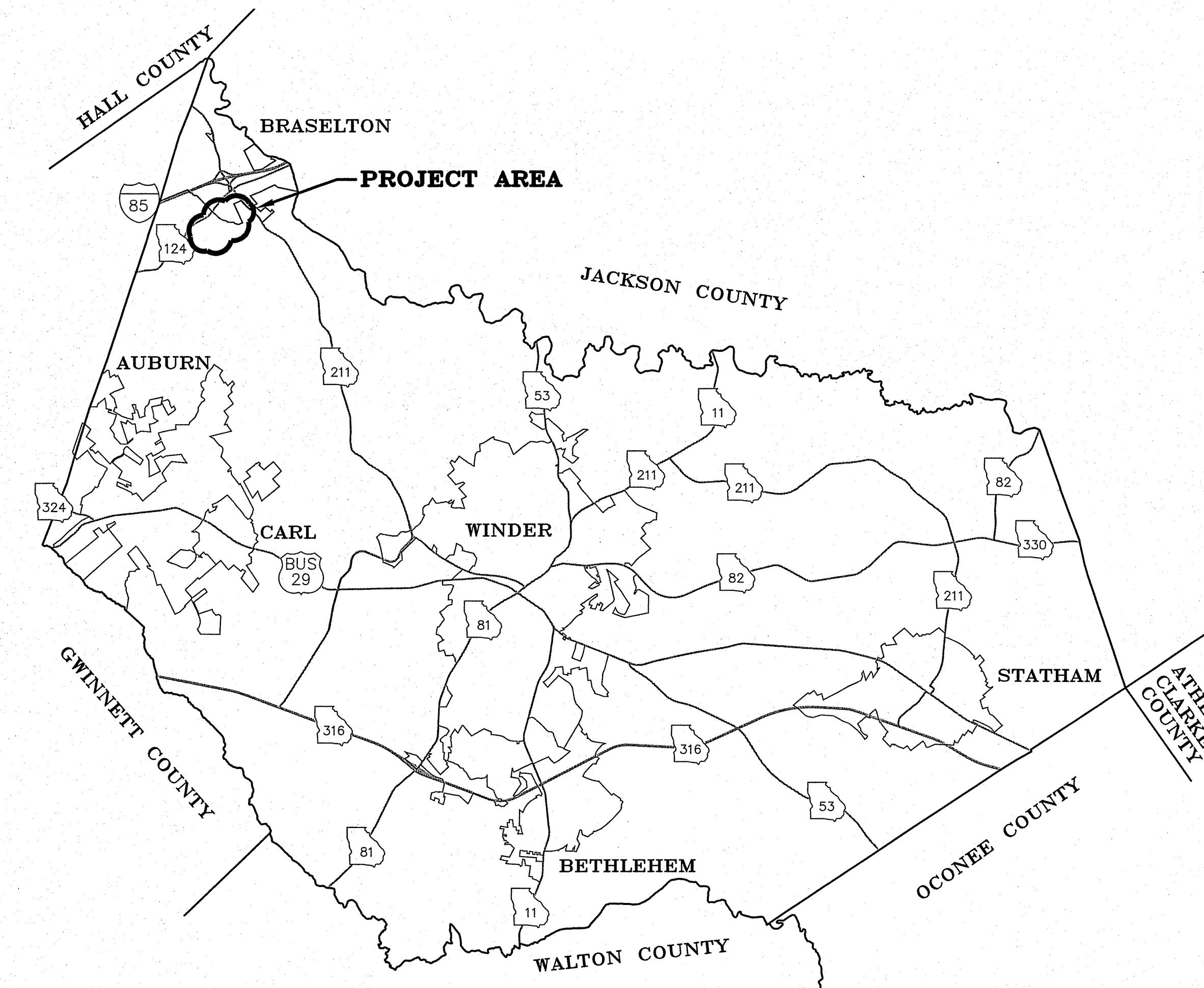
30 NORTH BROAD ST.
WINDER, GA 30680
PHONE: 770.307.3001

Prepared by:



planners • engineers • architects • surveyors

802 East Spring Street, Monroe, Ga 30655
770.267.8800 • www.ppi.us



BARROW COUNTY
PROJECT LOCATION
N.T.S.



TOTAL SITE AREA	2.65
TOTAL DISTURBED AREA	1.26



Know what's below.
Call before you dig.

24-HOUR CONTACT
DEAN GARRETT
UTILITIES MANAGER
770 307-3014

NO.	REVISION DESCRIPTION	DATE
0	ISSUED FOR BID	08/05/25

GENERAL NOTES

- OWNER: BARROW COUNTY BOARD OF COMMISSIONERS 30 NORTH BROAD STREET WINDER, GA 30680 CONTACT: MR. DEAN GARRETT PHONE: (770) 307-3014
- ENGINEER: PRECISION PLANNING, INC. 400 PIKE BLVD. LAWRENCEVILLE, GA 30046 CONTACT: MR. RICH CROWDER, P.E. PHONE: (770) 338-8161
- LOCATION OF LOT LINES, PROPERTY LINES, RIGHT-OF-WAY LINES, AND OTHER LAND DIVISION REFERENCES WERE OBTAINED FROM RECORDED DATA AND LAND USE OBSERVATIONS. THE LAND DIVISIONS WERE NOT FIELD CHECKED. THEREFORE, THEY MUST ONLY BE CONSIDERED TO APPROXIMATELY REPRESENT THE ACTUAL LAND DIVISIONS, PROPERTY AND/OR EASEMENTS.
- THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF WORK. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE BUSINESS DAYS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR TO NOTIFY THE UTILITY PROTECTION AGENCY 72 HOURS PRIOR TO START OF WORK. PHONE 811.
- THE CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR THE ADJUSTMENT OR RELOCATION OF ALL EXISTING UTILITIES. ALL COSTS AND/OR FEES RESULTING FROM UTILITY ADJUSTMENT OR RELOCATION SHALL BE PAID FOR BY THE CONTRACTOR.
- CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO EXCAVATION OR DEMOLITION. ADDITIONAL UTILITIES MAY NOT BE SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN.
- IF THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES DURING CONSTRUCTION, HE SHALL, AT HIS OWN EXPENSE, HAVE REPLACED OR REPAIRED THE UTILITIES TO THEIR ORIGINAL OR BETTER CONDITION AND QUALITY, AS APPROVED BY THE OWNER AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTACTING ALL AFFECTED UTILITIES PRIOR TO SUBMITTING HIS BID IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENT WILL AFFECT THE SCHEDULING OF WORK FOR THE PROJECT. SOME UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS, WHILE SOME WORK MAY BE REQUIRED AROUND UTILITY FACILITIES THAT WILL REMAIN IN PLACE. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR WILL RECEIVE NO ADDITIONAL COMPENSATION FOR ANY DELAYS OR INCONVENIENCE CAUSED BY THE UTILITY ADJUSTMENTS.
- CONTRACTOR IS TO MEET ALL LOCAL UTILITY COMPANY REGULATIONS IN ANY READJUSTMENT OR RELOCATION OF EXISTING SERVICES.
- A MINIMUM HORIZONTAL SEPARATION OF 10' SHALL BE MAINTAINED BETWEEN WATER LINES AND SANITARY SEWER LINES. AN 18" MINIMUM VERTICAL SEPARATION SHALL BE MAINTAINED AT CROSSINGS OF WATER AND SEWER LINES. WHEN CROSSING A WATER LINE, SEWER LINE, OR ANY OTHER PIPING, PIPE JOINTS SHALL BE PLACED AS FAR AWAY AS POSSIBLE FROM THE OTHER PIPE.
- CONTRACTOR MAY TEMPORARILY RELOCATE CREEKS, STREAMS, BRANCHES OR DITCHES WITHIN THE EASEMENTS AT HIS EXPENSE USING PROPER EROSION CONTROL MEASURES, IF AUTHORIZED BY THE APPLICABLE REGULATORY AGENCY AND THE OWNER.
- ALL CONSTRUCTION STAKING SHALL BE BY THE CONTRACTOR AT HIS EXPENSE.
- WHEN CONSTRUCTION INVOLVES THE REMOVAL OF FENCE, POLES, SIDEWALKS, DRIVES, TEMPORARY OR FIXED STRUCTURES; THE CONTRACTOR AT HIS EXPENSE SHALL PROVIDE FOR TEMPORARY SERVICE OR CONTAINMENT TO THE AFFECTED PROPERTY, AND SHALL REPLACE SUCH ITEMS WITH SIMILAR OR BETTER MATERIALS AS SOON AS PRACTICAL OR AS DIRECTED BY THE OWNER FOLLOWING UTILITY INSTALLATION.
- THE CONTRACTOR SHALL RESTORE OR HAVE RESTORED, AT HIS EXPENSE, ALL EXISTING FACILITIES WHICH HAVE BEEN DAMAGED DUE TO HIS CONSTRUCTION ACTIVITIES, TO THE ORIGINAL OR BETTER CONDITION. THE CONTRACTOR SHALL UTILIZE THE SAME MATERIAL COMPOSITION AS EXISTING TO REPLACE THE EXISTING FACILITIES UNLESS APPROVED OTHERWISE BY THE OWNER.
- ALL NEW WATER MAINS ARE TO BE INSPECTED, TESTED, AND DISINFECTED PRIOR TO THE CONNECTION OF ANY SERVICES.
- SEE SHEET 08 FOR SOIL EROSION AND SEDIMENT CONTROL NOTES AND LEGEND.
- PEDESTRIAN AND LOCAL VEHICULAR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. SAFETY DEVICES AND FLAGMEN SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE. WRITTEN PERMISSION TO CLOSE THE CONSTRUCTION AREA TO TRAFFIC MUST BE OBTAINED FROM THE APPROPRIATE GOVERNMENT AGENCY PRIOR TO THE CLOSING. ALL LOCAL EMERGENCY SERVICES SHALL BE NOTIFIED IN WRITING A MINIMUM 72 HOURS PRIOR TO ROAD CLOSINGS.

GENERAL NOTES (CONT.)

- DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY TRAFFIC CONTROL MEASURES TO ENSURE SAFETY AT ALL TIMES FOR EMPLOYEES, RESIDENTS, AND MOTORISTS, IN ACCORDANCE WITH THE 'MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES', ANSI D6.1, LATEST REVISION.
- ALL EARTHWORK OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR PART 1926, SUBPART P-EXCAVATIONS, LATEST REVISION, AND SHALL BE CONDUCTED IN A MANNER ACCEPTABLE TO OWNER.
- ALL WATER MAIN PIPE MATERIALS SHALL BE DUCTILE IRON PIPE, IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. BEDDING FOR ALL PIPING SHALL BE TYPE 2 UNLESS OTHERWISE DIRECTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAINTING OF THE PROJECT STATIONING ALONG THE EDGE OF THE ROADWAY.
- LOCATIONS SHOWN FOR FIRE HYDRANTS, VALVES, AND APPURTENANCES MAY BE FIELD ADJUSTED BY THE OWNER PRIOR TO INSTALLATION TO ACCOMMODATE EXISTING FIELD CONDITIONS.
- HORIZONTAL PIPE BENDS/FITTINGS NOTED ON PLANS ARE TO ASSIST THE CONTRACTOR WITH THE HORIZONTAL ALIGNMENT OF THE WATER MAIN(S), AND IS NOT INTENDED TO DEPICT ALL NECESSARY HORIZONTAL BENDS/FITTINGS TO CONSTRUCT THE WATER MAIN.

BARROW COUNTY STANDARD WATER NOTES

- ALL WATER SYSTEM IMPROVEMENTS MUST BE INSTALLED IN STRICT ACCORDANCE WITH THE BARROW COUNTY WATER DEPARTMENT POLICIES AND STANDARDS, DATED OCTOBER 2021.
- ALL WATER MAIN PIPING 4" DIAMETER TO 12" DIAMETER SHALL BE PRESSURE CLASS 350 DUCTILE IRON PIPE (DIP). ALL WATER MAIN PIPING 14" DIAMETER TO 20" DIAMETER SHALL BE PRESSURE CLASS 300 DIP.
- ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 4' OF COMPAKED FILL ABOVE THE TOP OF THE PIPE.
- ALL WATER SERVICE LINES SHALL BE COPPER, AND REQUIRE AN INDIVIDUAL TAP ON THE MAIN. DOUBLE SPLIT SERVICES ARE NOT PERMITTED. LONG SIDE SERVICES ALSO REQUIRE A 2-INCH PVC CASING UNDER THE PAVEMENT. REFERENCE STANDARD DETAIL W05.
- ALL VALVES SHALL BE INSTALLED IN THE SHOULDER OF THE ROADWAY. EVEN IF GRAPHICALLY DEPICTED ON THE PLANS DUE TO SCALING, NO VALVES SHALL BE INSTALLED IN THE PAVEMENT OR IN A SIDEWALK.
- FIRE HYDRANTS SHALL GENERALLY BE LOCATED AT INTERVALS NOT TO EXCEED 500 FEET. INLINE VALVES SHALL BE LOCATED AT INTERVALS NOT TO EXCEED 1,000 FEET WITHIN A RESIDENTIAL SUBDIVISION.
- THE CONTRACTOR SHALL SCHEDULE AND COORDINATE A PRE-CONSTRUCTION MEETING WITH BARROW COUNTY WATER DEPARTMENT PERSONNEL AT LEAST 7 DAYS PRIOR TO BEGINNING WORK.

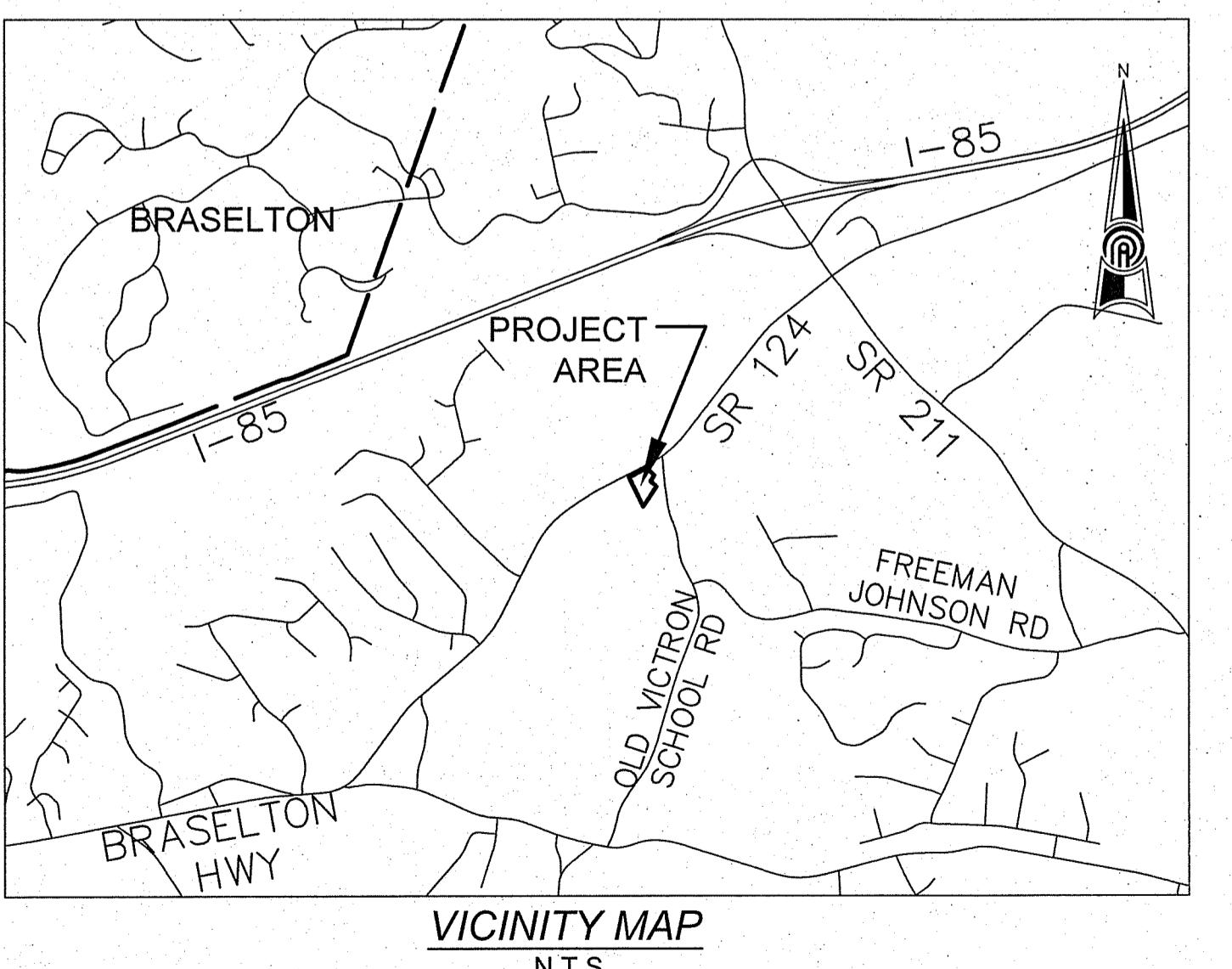
OBSTRUCTIONS ENCOUNTERED:

IN ADDITION TO SHOWING THE STRUCTURES TO BE BUILT FOR THIS PROJECT, THE DRAWINGS SHOW CERTAIN INFORMATION OBTAINED BY THE ENGINEER REGARDING THE PIPES, POLE LINES, CONDUITS AND OTHER STRUCTURES WHICH EXIST ALONG THE LINE OF THE WORK, BOTH AT AND BELOW THE SURFACE OF THE GROUND. THE ENGINEER AND THE OWNER EXPRESSLY DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION GIVEN ON THE DRAWINGS WITH REGARD TO EXISTING STRUCTURES, AND THE CONTRACTOR WILL NOT BE ENTITLED TO ANY EXTRA COMPENSATION ON ACCOUNT OF INACCURACY OR INCOMPLETENESS OF SUCH INFORMATION. SAID STRUCTURES BEING INDICATED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR, WHO MUST VERIFY THE INFORMATION TO HIS OWN SATISFACTION. THE GIVING OF THIS INFORMATION UPON THE CONTRACT DRAWINGS WILL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO SUPPORT AND PROTECT ALL PIPES, CONDUITS, AND OTHER STRUCTURES WHICH MAY BE ENCOUNTERED DURING THE CONSTRUCTION OF WORK, AND TO MAKE GOOD ALL DAMAGES DONE TO SUCH PIPES, CONDUITS, AND OTHER STRUCTURES, AS PROVIDED IN THESE SPECIFICATIONS. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND OBSTRUCTIONS PRIOR TO EXCAVATION SO AS TO PREVENT DAMAGE TO THOSE SERVICES OR OTHER UTILITIES, ANY SUCH DAMAGES MUST BE REPAIRED WITHOUT DELAY AND THE COST OF SUCH REPAIRS SHALL BE PAID FOR BY THE CONTRACTOR.

ALL CONSTRUCTION METHODS, PROCEDURES AND MATERIALS SHALL CONFORM TO THE BARROW COUNTY WATER AND SEWERAGE AUTHORITY CONSTRUCTION STANDARDS AND SPECIFICATIONS.

WATER MAINS AND APPURTENANCES MUST BE COMPLETELY INSTALLED, FLUSHED, AND DISINFECTED WITH SATISFACTORY BACTERIOLOGICAL SAMPLE RESULTS RECEIVED PRIOR TO PERMANENT CONNECTIONS BEING MADE TO THE EXISTING WATER SYSTEM OR SERVICE CONNECTIONS ACTIVATED TO INDIVIDUAL WATER CUSTOMERS. SANITARY CONSTRUCTION PRACTICES MUST BE FOLLOWED DURING INSTALLATION OF THE FINAL CONNECTION, SO THAT THERE IS NO CONTAMINATION OF THE NEW OR EXISTING WATER MAIN WITH FOREIGN MATTER OR GROUNDWATER.

24 HR CONTACT
DEAN GARRETT
UTILITIES MANAGER
PH: (770) 307-3014



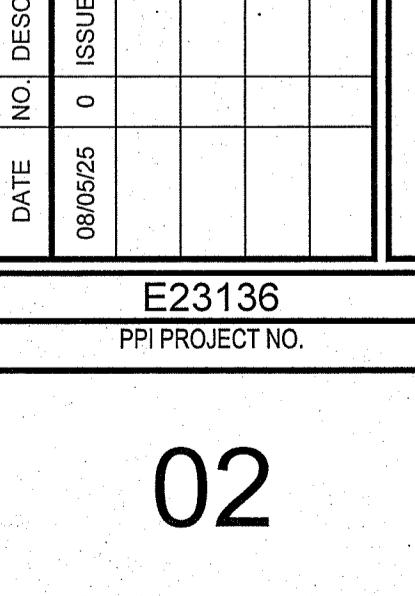
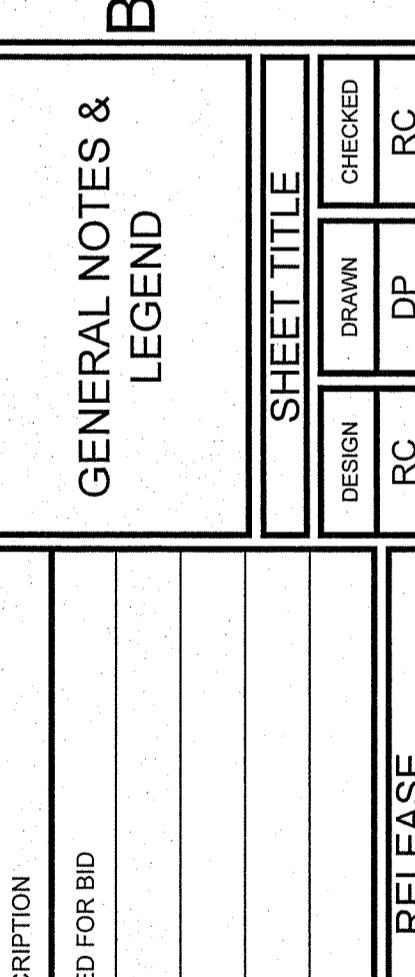
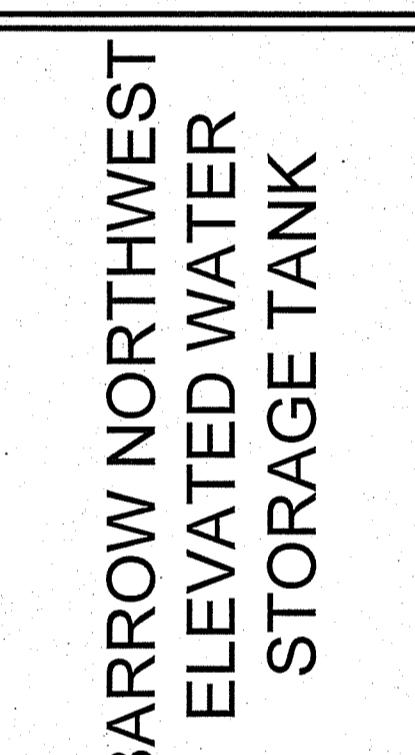
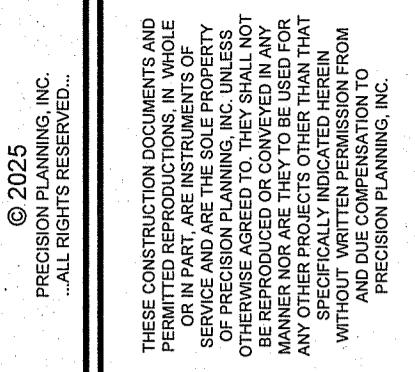
EXISTING	LEGEND	NEW
— W — W —	WATER	— W — W —
— SS — SS —	SANITARY SEWER	N.A.
— FM — FM —	FORCE MAIN	N.A.
— G — G —	GAS LINE	N.A.
— UP — UP —	UNDERGROUND POWER	N.A.
— UT — UT —	UNDERGROUND TELEPHONE	N.A.
— — — — —	ROAD CENTERLINE	— — — — —
— — — — —	EDGE OF PAVEMENT	N.A.
— — — — —	EDGE OF GRAVEL DRIVE	N.A.
— — — — —	GUARDRAIL	N.A.
— X — X —	FENCE	— X — X — X —
— — — — —	TREE LINE	N.A.
— — — — —	CREEK CENTERLINE	N.A.
— — — — —	DITCH CENTERLINE	— — — — —
— 500 — —	STORM DRAIN	— 500 — —
— — — — —	CONTOUR	— 500 — —
— — — — —	RIGHT-OF-WAY	N.A.
— — — — —	PERMANENT EASEMENT	— — — — —
N.A.	TEMPORARY CONSTRUCTION EASEMENT	— — — — —
— — — — — P —	PROPERTY LINE	N.A.
— — — — —	25' STREAM BUFFER	N.A.
— — — — —	50' STREAM BUFFER	N.A.
— — — — —	75' STREAM BUFFER	N.A.
— — — — —	100-YR FLOOD LIMITS	N.A.
— — — — —	POWER POLE	N.A.
— — — — —	GUY WIRE	N.A.
— — — — —	SEWER MANHOLE	N.A.
— — — — —	WATER VALVE	— — — — —
— — — — —	FIRE HYDRANT	— — — — —
— — — — —	WATER METER	N.A.
— — — — —	TELEPHONE PEDESTAL	N.A.
— — — — —	AIR RELEASE VALVE	N.A.
— — — — —	IRON PIN	N.A.
— — — — —	SIGN	N.A.
— — — — —	TREE	N.A.
— — — — —	RIP RAP	— — — — —
— — — — —	WETLANDS	N.A.
— — — — —	BUILDING	— — — — —
— — — — —	CONCRETE PAVING	N.A.
— — — — —	ASPHALT PAVING	— — — — —
— — — — —	GRAVEL	— — — — —

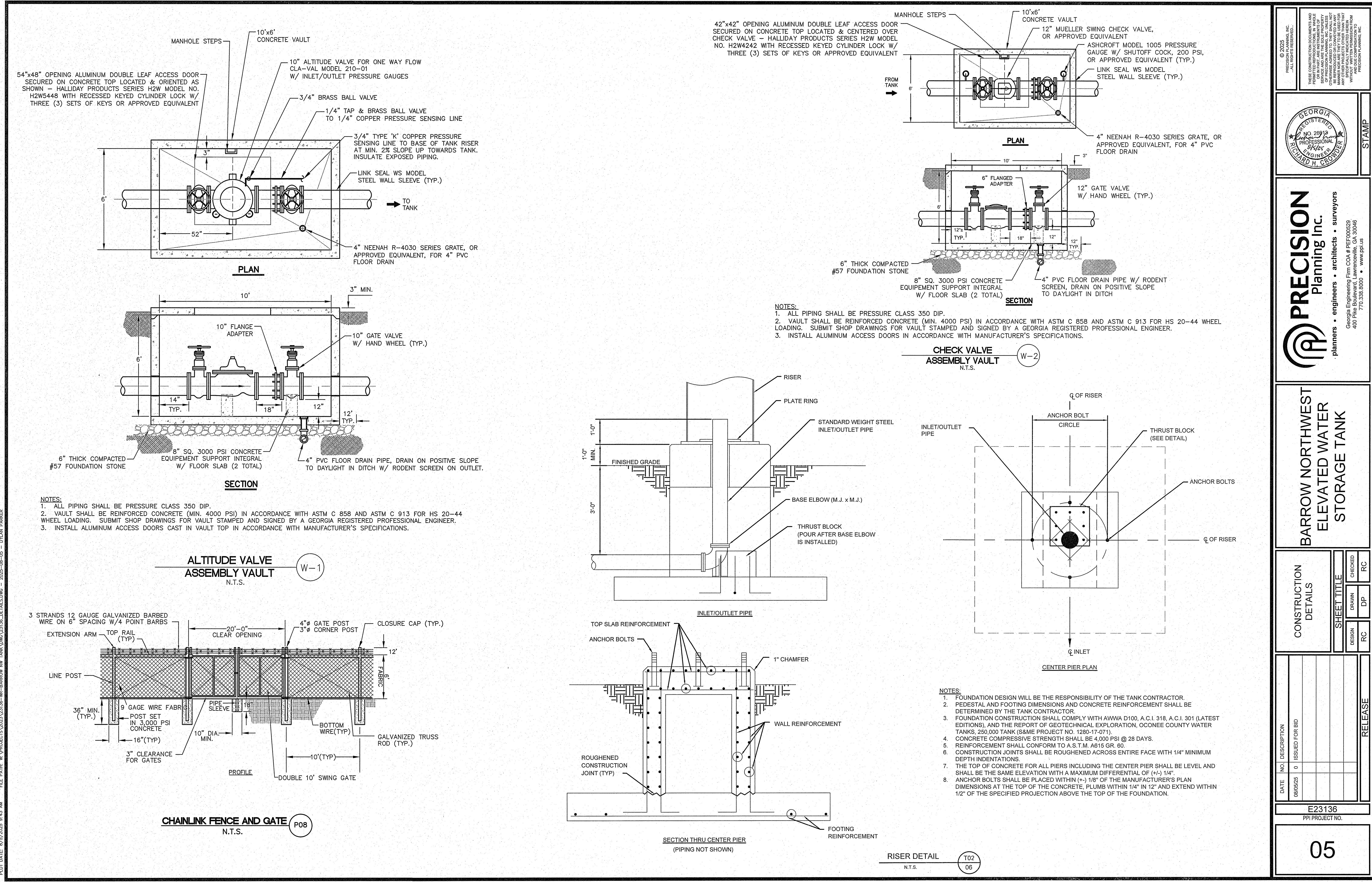
ABBREVIATIONS

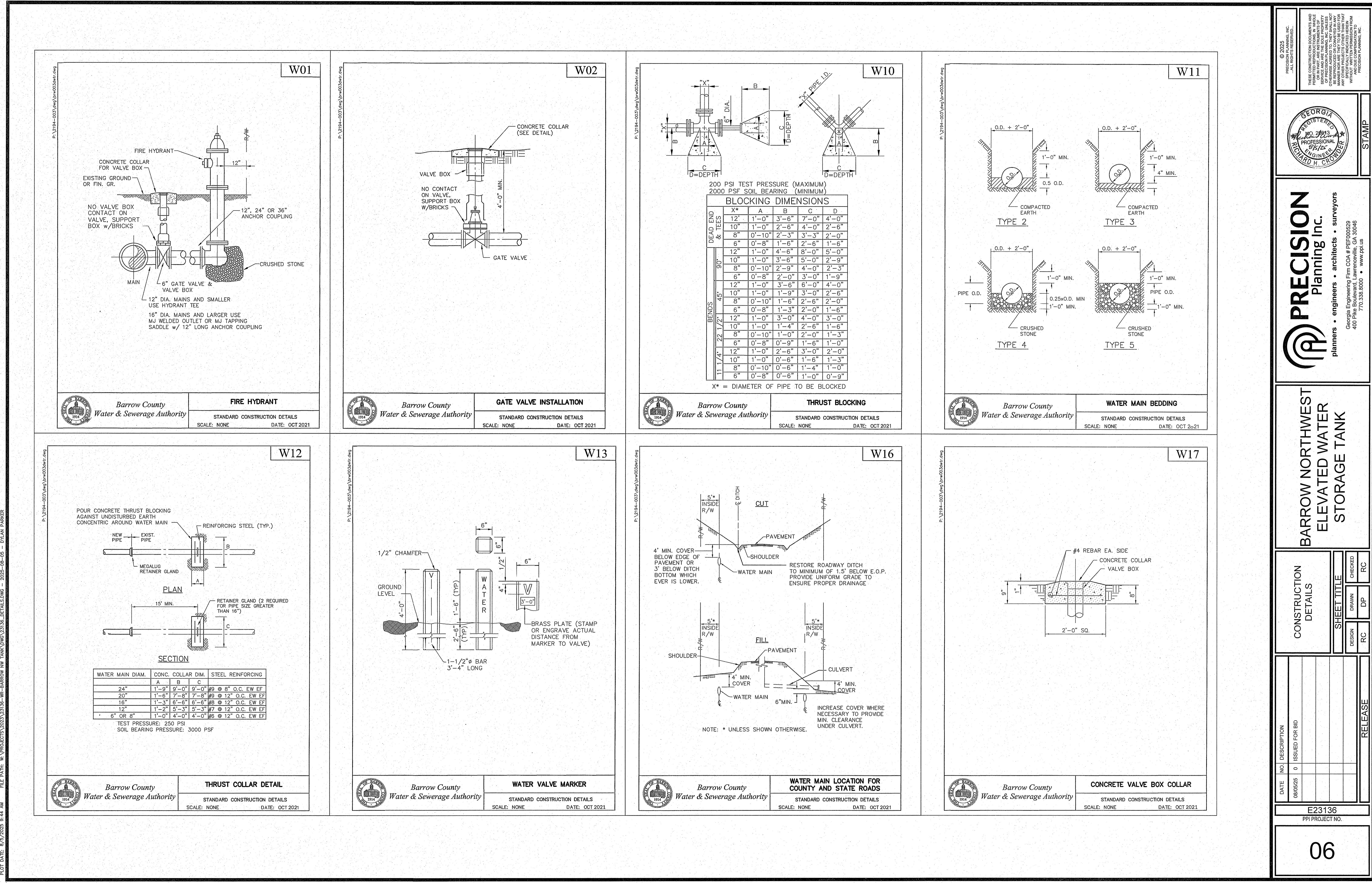
GENERAL NOTES & LEGEND SHEET TITLE	DRAWN BY	RELEASER
DESIGN RC	DRAWN DP	RELEASE
DATE NO. 080525	DESCRIPTION ISSUED FOR BID	
ARV	AIR RELEASE VALVE	HEADWALL
BOC	BACK OF CURB	INVERT ELEVATION
CB	BENCHMARK	IRON PIN FOUND
CF	CATCH BASIN	JUNCTION BOX
CMP	CORRUGATED METAL PIPE	LINEAR FOOT
CO	CLEAN OUT	MANHOLE
CY	CUBIC YARD	NOT APPLICABLE
D.E.	DRAINAGE EASEMENT	NOW OR FORMERLY
DI	DROP INLET	PERMANENT
DIA.	DIA. DIAMETER	PROPERTY LINE
DIP	DUCTILE IRON PIPE	POWER POLE
D/W	DRIVEWAY	PERMANENT UTILITY EASEMENT
ESMT	EASEMENT	POLYVINYL CHLORIDE PIPE
ELEV.	ELEVATION	REINFORCED CONCRETE PIPE
EOP	EDGE OF PAVEMENT	RIGHT-OF-WAY
EX.	EXISTING	SANITARY SEWER EASEMENT
FES	FLARED END SECTION	STATION
FFE	FINISHED FLOOR ELEVATION	TEMPORARY BENCHMARK
FF	FLY HYDRANT	TEMPORARY CONSTRUCTION
GDOT	GEORGIA DEPARTMENT OF TRANSPORTATION	EASEMENT
G.M.D.	GEORGIA MILITIA DISTRICT	TEMPORARY
GV	GAS VALVE	VITRIFIED CLAY PIPE
		WATER LINE
		WATER METER
		WATER VALVE
		VERTICAL CURVE

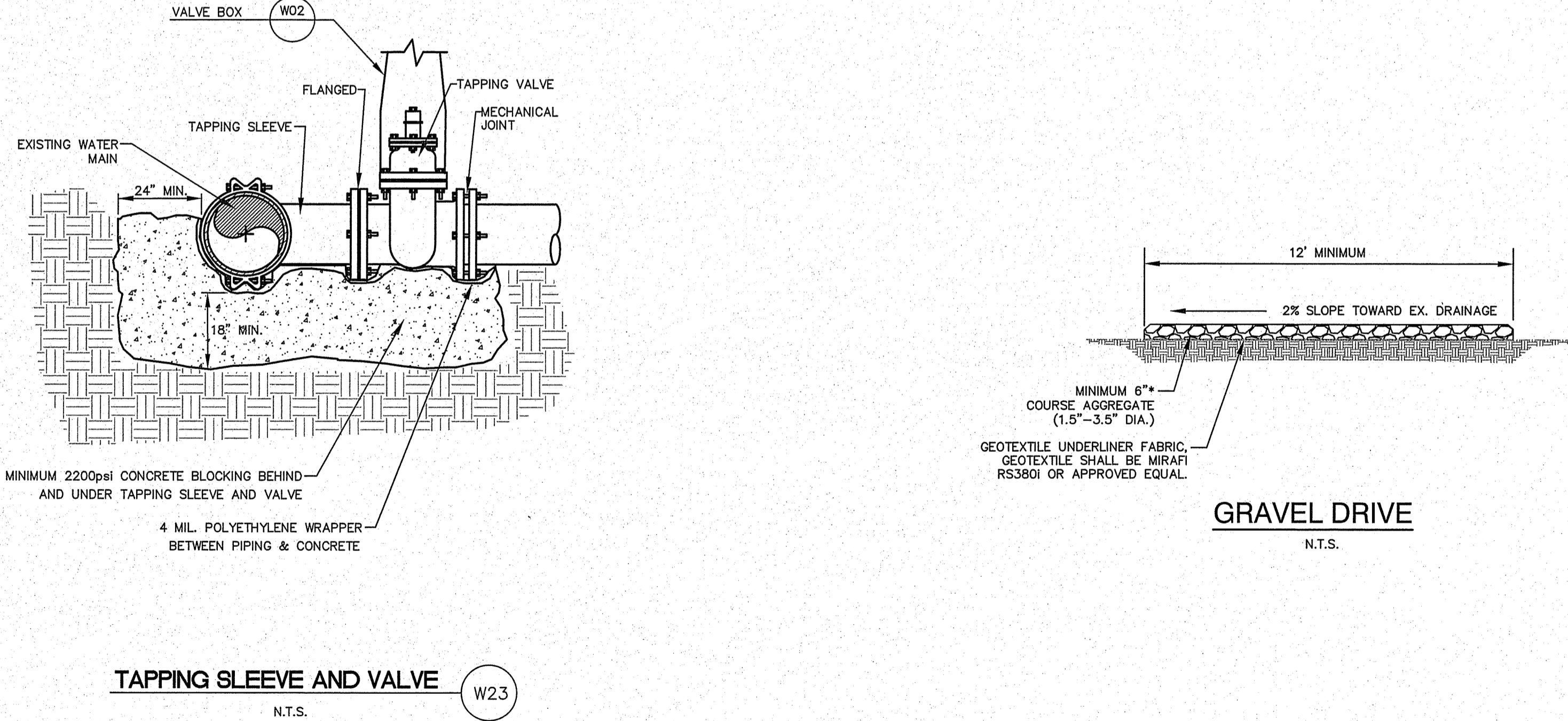
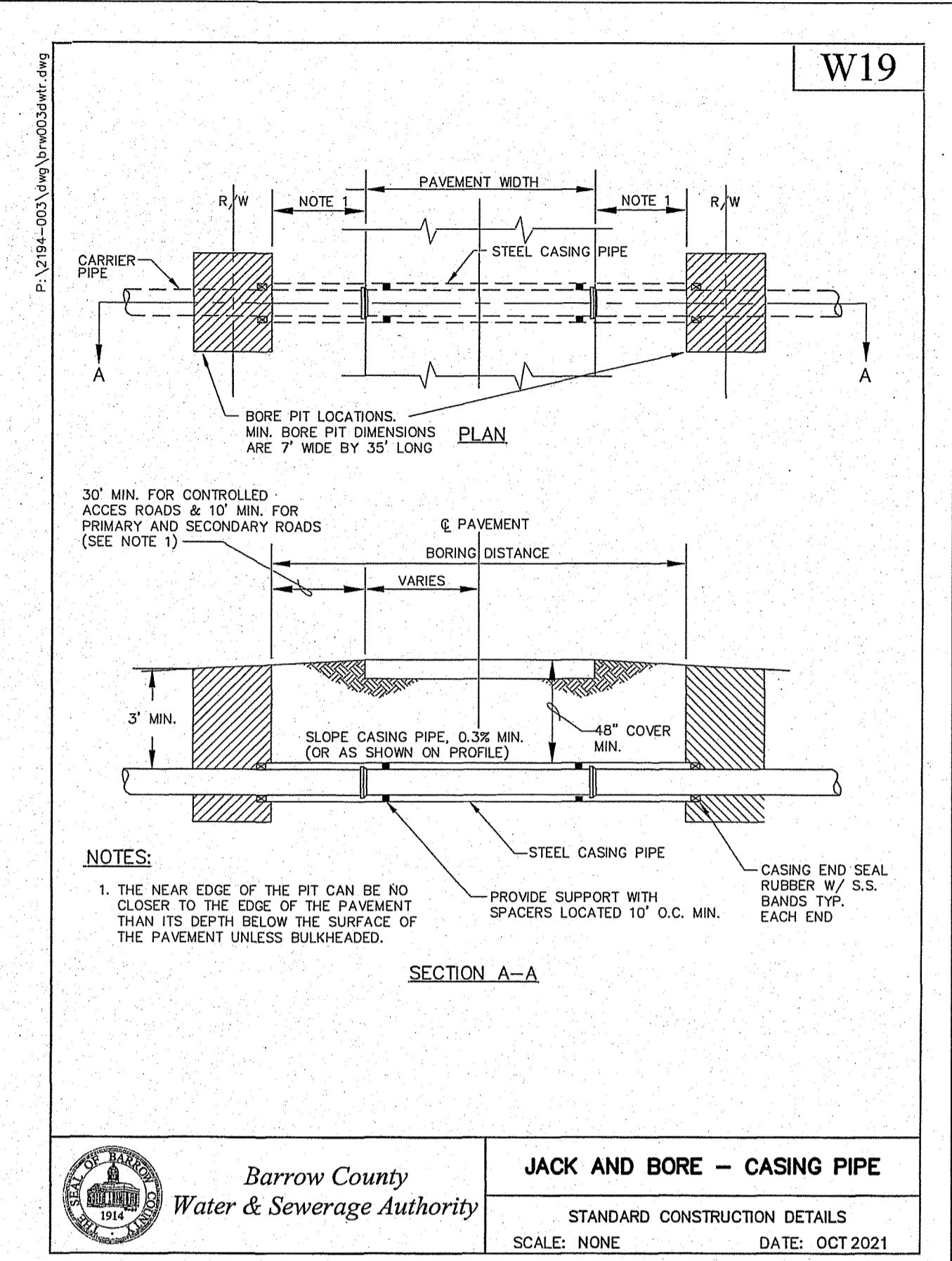
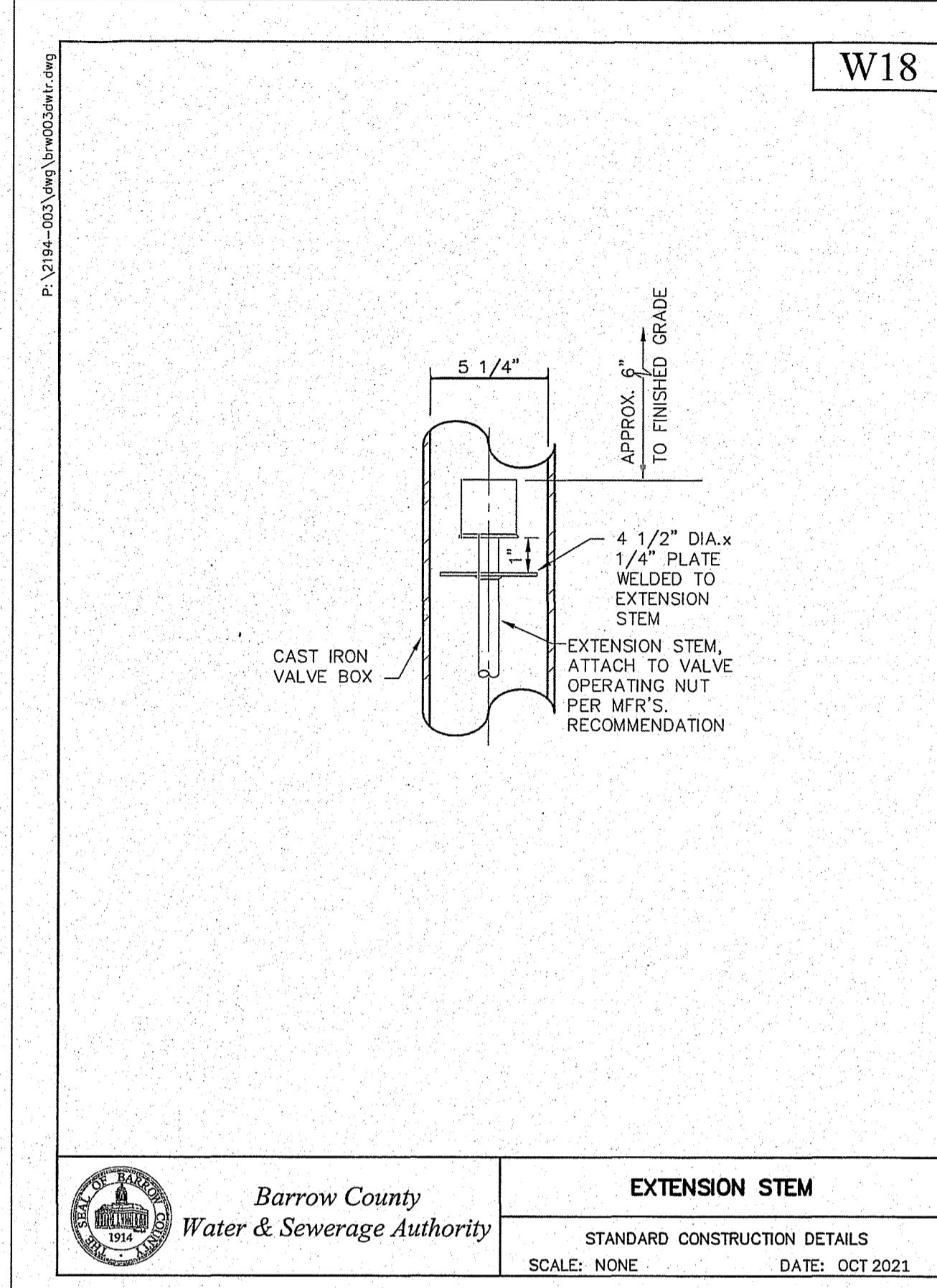


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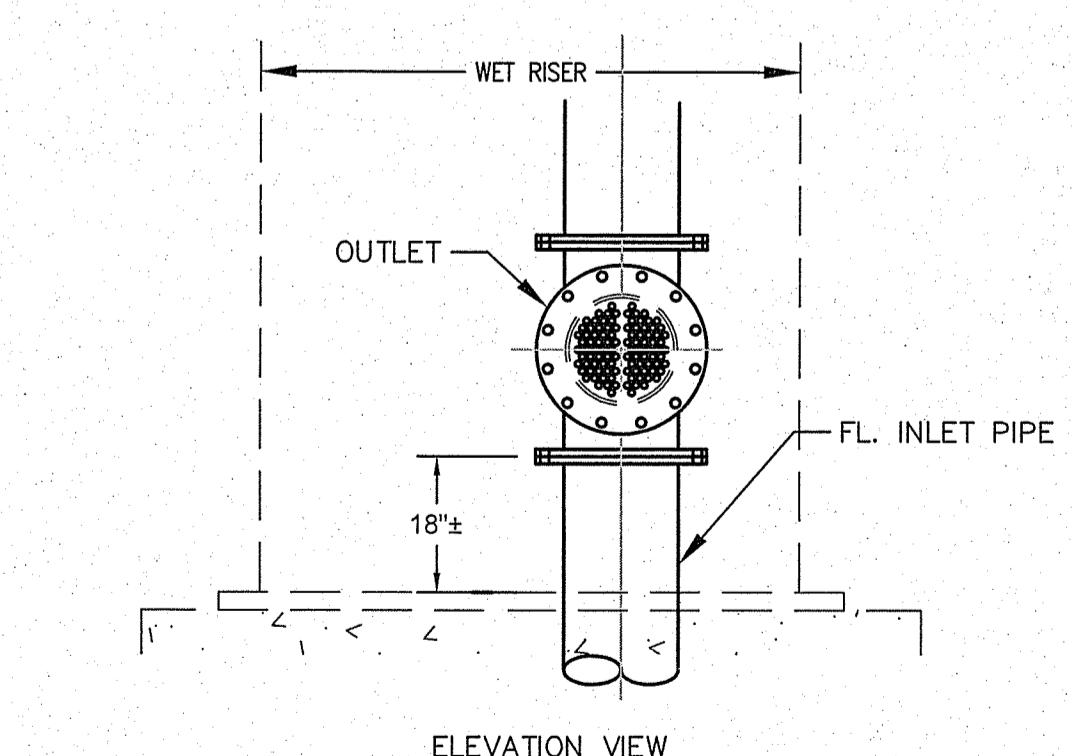
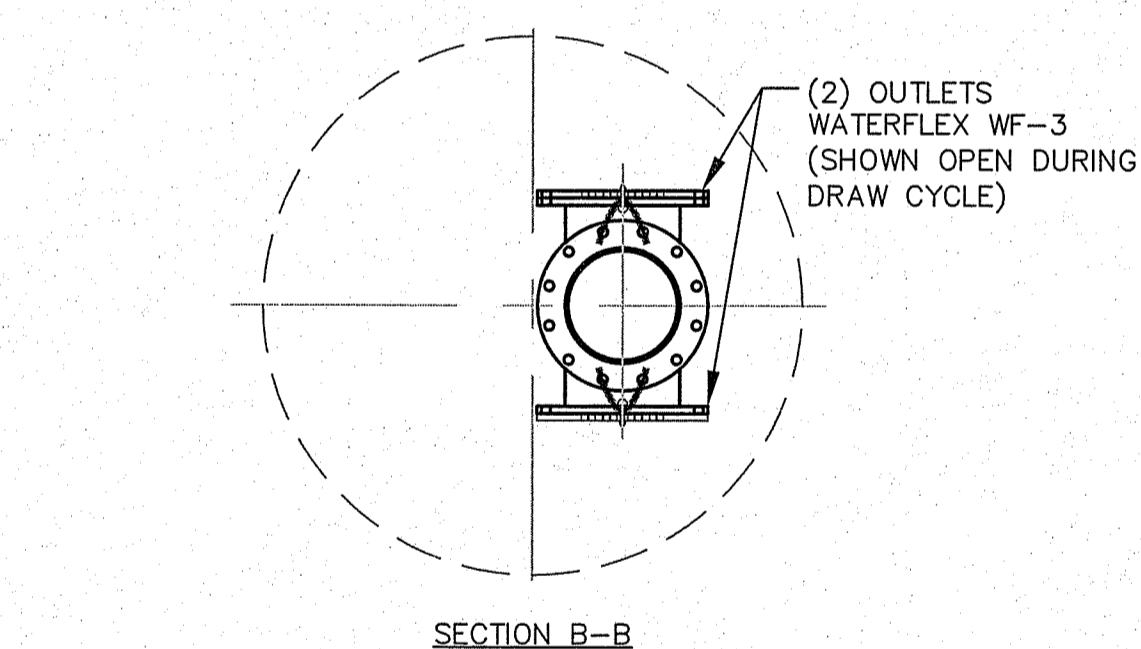
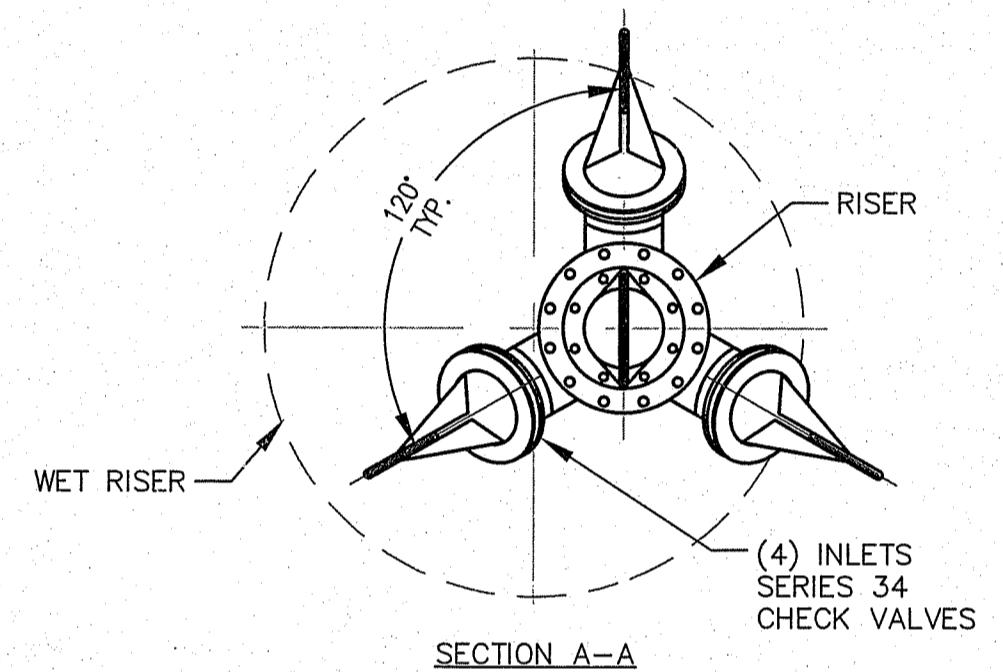
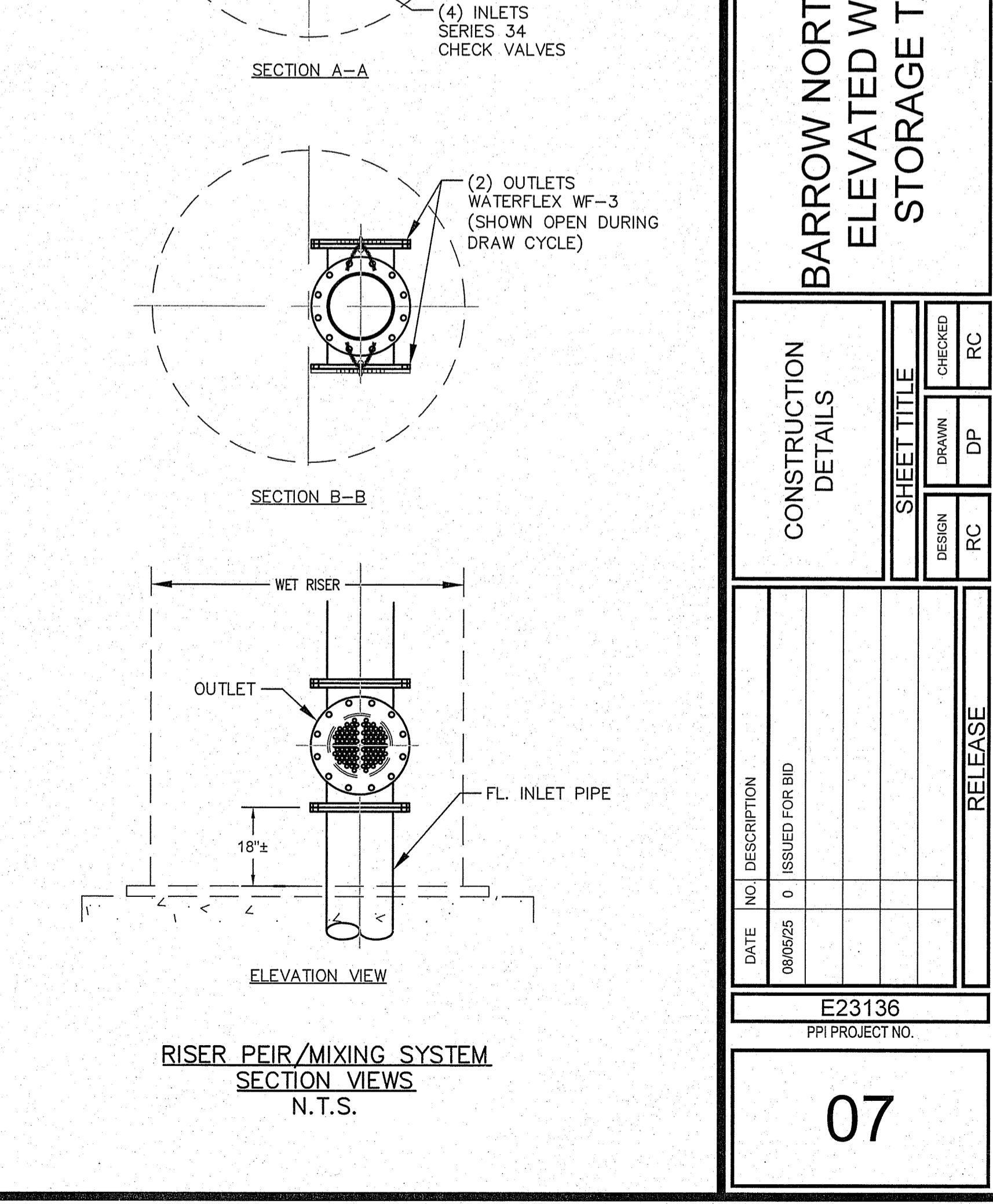






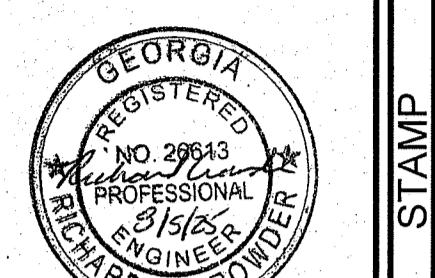
GRAVEL DRIVE

N.T.S.



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GEORGIA811
Utilities Protection Center, Inc.

GSWCC
GEORGIA SOIL AND WATER CONSERVATION COMMISSION
RICHARD H. CROWDER
Level II Certified Design Professional

CERTIFICATION NUMBER 00000111369
ISSUED: 12/26/22 EXPIRES: 12/26/25

SOIL EROSION NOTES

1. DISTURBED AREA CALCULATIONS INDICATE MAXIMUM TOTAL AREA DISTURBED DURING CONSTRUCTION AND IS LIMITED TO EASEMENT AREAS SHOWN. FOR TRENCHING OPERATIONS WITHIN RIGHTS-OF-WAY, THE AREAS INCLUDE TRENCH, EQUIPMENT TRACK, AND SPOIL HEAP WIDTHS.

TOTAL PROJECT AREA: 2.65
TOTAL DISTURBED AREA: 1.26

2. GPS COORDINATES OF THE PROJECT LOCATION ARE LATITUDE 34.0865° N AND LONGITUDE 83.8189° W.

3. DESCRIPTION OF THE NATURE OF CONSTRUCTION ACTIVITY AND EXISTING SITE CONDITIONS: THE EXISTING SITE IS A SMALL HILL, PARTIALLY WOODED, ADJACENT TO AN EXISTING WATER TANK. THIS INFRASTRUCTURE PROJECT INCLUDES CONSTRUCTION OF A 0.75 MGD POTABLE WATER TANK THAT WILL INCLUDE LINERWORK TO TIE INTO THE EXISTING WATER DISTRIBUTION SYSTEM, AND ASSOCIATED SITE WORK. LINERWORK WILL BE INSTALLED BY TRENCHING AND EXISTING GRADE WILL BE RESTORED OVER THE PIPELINE, AND MILD GRADING WILL BE REQUIRED FOR FACILITY SITE WORK.

4. THE RECEIVING WATER IS A TRIBUTARY TO THE MULBERRY RIVER WHICH IS A WARM WATER FISHERY. THERE ARE NO WETLANDS OR OTHER SENSITIVE AREAS IDENTIFIED ON OR ADJACENT TO THE SITE.

5. CERTIFICATION STATEMENTS:

"I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATION DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT UNDER MY SUPERVISION."

"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 GEORGIA SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE 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 PERMIT NO. GAR 100002."

"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 THE 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."

Richard Crowder
SIGNATURE OF DESIGN PROFESSIONAL

6. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.

7. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

8. THERE ARE NO ENCROACHMENTS INTO THE 25-FOOT UNDISTURBED STREAM BUFFER AS PART OF THIS PLAN.

9. AMENDMENTS/REVISONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

10. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

11. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

12. EROSION CONTROL MEASURES SHALL 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.

13. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

14. CONSTRUCTION ACTIVITY DOES NOT DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF ANY PORTION OF A BIOTA-IMPAIRED STREAM SEGMENT.

15. CONCRETE WASHDOWN: WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED. USE BMPs FOR WASHDOWN OF TOOLS, MIXER CHUTES, HOPPERS, AND THE REAR OF VEHICLES.

16. REMEDIATION OF PETROLEUM SPILLS AND LEAKS: ANY LEAKS OR SPILLS OF PETROLEUM PRODUCTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTAIN, CONTROL, AND REMEDIATE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL GUIDELINES, ORDINANCES, AND LAWS.

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
- MATERIAL 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 METAL WASTE CONTAINERS.
- PETROLEUM SPILLS SHALL BE IMMEDIATELY CONTAINED. ALL INLETS MUST BE PLUGGED IMMEDIATELY, AND THE PETROLEUM DIRECTED AWAY FROM RECEIVING WATERS OR STORM DRAINAGE SYSTEMS. CLEANUP MAY BE ACCOMPLISHED BY, BUT IS NOT LIMITED TO, SWEEPING, SHOVELING, AND VACUUMING ALONG WITH THE USE OF SORBENTS AND GELS.
- ANY CONTAMINATED SOILS MUST BE REMOVED FROM THE SITE IMMEDIATELY AND REPLACED WITH SOIL OF SIMILAR PROPERTIES.
- SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.
- 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.
- FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-4424-8802.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ON SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL AT THE CONTRACTOR'S EXPENSE.
- MEASURES INSTALLED TO CONTROL POLLUTANTS IN STORM WATER AFTER CONSTRUCTION: ALL DISTURBED AREAS WILL BE RE-STABILIZED WITH PERMANENT GRASSING OR SOD TO LIMIT POLLUTANTS IN STORM WATER AFTER CONSTRUCTION OPERATIONS HAVE CEASED. ALL DRAINAGE PATTERNS WILL BE RETURNED TO PRE-CONSTRUCTION STATE.

SOIL EROSION NOTES, CONT.

18. DESCRIPTION OF PRACTICES THAT WILL BE USED TO REDUCE AND CONTROL POLLUTANTS IN STORM WATER DISCHARGES: POLLUTANTS OR POTENTIALLY HAZARDOUS MATERIALS, SUCH AS FUELS, LUBRICANTS, LEAD PAINT, CHEMICALS, OR BATTERIES, SHALL BE TRANSPORTED, STORED, AND UTILIZED IN A MANNER TO PREVENT LEAKAGE OR SPILLAGE INTO THE ENVIRONMENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROPER AND LEGAL DISPOSAL OF ALL SUCH MATERIALS. EQUIPMENT, ESPECIALLY CONCRETE OR ASPHALT TRUCKS, SHALL NOT BE WASHED OR CLEANED OUT ON THE PROJECT EXCEPT IN AREAS WHERE UNUSED PRODUCT CONTAMINANTS CAN BE PREVENTED FROM ENTERING WATERWAYS.

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ONSITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATERS, 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.

PAINT/FINISHES/SOLVENTS - ALL PRODUCT 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 MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ONSITE.

FERTILIZER/HERBICIDES - THESE PRODUCTS 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 SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

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.

PRACTICES TO PROVIDE COVER FOR BUILDING MATERIALS AND PRODUCTS ON SITE SHALL INCLUDE MEASURES SUCH AS PLASTIC SHEETING OR TEMPORARY ROOFS TO MINIMIZE EXPOSURE TO PRECIPITATION AND STORMWATER.

19. DESCRIPTION OF CONTROLS AND MEASURES FOR SEDIMENT CONTROL: AT A MINIMUM, THE FOLLOWING EROSION CONTROL MEASURES SHALL BE UTILIZED IN THE CONSTRUCTION OF THE PROJECT AS INDICATED ON THE ES&PC PLAN:

- SILT FENCE SHALL BE INSTALLED AT APPROPRIATE LOCATIONS TO PREVENT SEDIMENT FROM BEING WASHED OFF OF THE SITE.
- RIP RAP CHANNEL STABILIZATION WILL BE USED TO MINIMIZE THE TRANSFER OF DISTURBED SOIL IN EXISTING DITCHES CROSSING THE CONSTRUCTION AREAS.
- TEMPORARY AND PERMANENT GRASSING/SODDING AND MULCHING SHALL BE USED TO REESTABLISH VEGETATION ON THE DISTURBED AREAS AS CONSTRUCTION PROCEEDS.
- SURFACE ROUGHENING AND EROSION CONTROL MATTING WILL BE USED TO STABILIZE SOIL ON DISTURBED SLOPES.
- CONSTRUCTION EXITS SHALL BE USED TO PREVENT THE TRANSPORT OF MUD FROM MATERIAL EQUIPMENT STORAGE AREAS AND CONSTRUCTION ROAD STABILIZATION WILL BE USED WHERE CONSTRUCTION TRAFFIC IS REQUIRED TO PREVENT EROSION FROM THESE AREAS.
- TEMPORARY SEDIMENT BASIN WILL BE CONSTRUCTED TO CAPTURE STORM WATER RUNOFF FROM DISTURBED AREAS.

20. AN ESTIMATE OF THE RUNOFF COEFFICIENT OF THE SITE PRIOR TO CONSTRUCTION ACTIVITIES IS 0.4 AND AFTER CONSTRUCTION ACTIVITIES IS 0.4.

21. JUSTIFICATION TO USE EQUIVALENT CONTROLS FOR SEDIMENT STORAGE ON LINEAR PORTIONS OF THE PROJECT: SEDIMENT STORAGE REQUIREMENT FOR THE SITE CANNOT BE ATTAINED BY INSTALLATION OF A TEMPORARY SEDIMENT BASIN. THEREFORE, A MINIMUM OF 67 CY/ACRE SEDIMENT STORAGE IS PROVIDED USING EQUIVALENT CONTROLS. AT 1/3-FULL (0.83' SEDIMENT DEPTH) AND AT MAXIMUM SLOPE OF 5:1, EACH LINEAR FOOT OF Sd1-SILT FENCE HOLDS 1.74 CF OF SEDIMENT. APPROXIMATELY 449 LF OF SILT FENCE IS SHOWN ON THE PLANS FOR THE LINERWORK WHICH CAN PROVIDE 29 CY OF STORAGE. AN ADDITIONAL 295 CY OF STORAGE IS PROVIDED BY A SEDIMENT TRAP. THE REQUIRED STORAGE IS (67 CY/ACRE x 1.26 ACRE) 84.14 CY TOTAL. AVAILABLE STORAGE EXCEEDS REQUIRED STORAGE.

SEDIMENT SUMMARY:
STORAGE REQUIRED - 28.9 CY
STORAGE PROVIDED - 29 CY (SILT FENCE) + 295 (SEDIMENT TRAP) = 324 CY

22. IT SHALL BE THE RESPONSIBILITY OF THE PERSON PERFORMING THE CONSTRUCTION OPERATIONS TO INSTALL AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES INDICATED ON THESE DRAWINGS OR TO PROVIDE ADDITIONAL MEASURES AS DEEMED NECESSARY BY SITE CONDITIONS.

23. ADDITIONAL MEASURES SHALL BE ADDED IF DETERMINED TO BE NECESSARY BY ON-SITE INSPECTIONS AND/OR BY THE GOVERNING AUTHORITY.

24. STANDARDS AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (LATEST EDITION), PUBLISHED BY THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION.

25. SURVEY INFORMATION: TOPOGRAPHIC INFORMATION FROM SURVEY BY PRECISION PLANNING, INC. AND USGS TOPOGRAPHIC MAP.

26. SOILS INFORMATION: SOILS INFORMATION TAKEN FROM SOIL SURVEY OF BARROW COUNTY, GEORGIA BY USDA SOIL CONSERVATION SERVICE IN COOPERATION WITH UNIVERSITY OF GEORGIA COLLEGE OF AGRICULTURE AGRICULTURAL EXPERIMENT STATIONS.

27. TEMPORARY EROSION MEASURES: TEMPORARY EROSION CONTROL STRUCTURES, MEASURES, AND DEVICES SHALL BE INSTALLED AND OPERATIONAL PRIOR TO ANY LAND DISTURBING ACTIVITY. IF, DURING ANY STAGE OF CONSTRUCTION, ADDITIONAL MEASURES ARE DEEMED NECESSARY THEY SHALL BE INSTALLED AS SOON AS POSSIBLE AFTER NOTIFICATION.

28. MAINTENANCE OF TEMPORARY EROSION CONTROL MEASURES SHALL BE REQUIRED THROUGHOUT ALL STAGES OF CONSTRUCTION. MAINTENANCE SHALL BE IN ACCORDANCE WITH THE EROSION CONTROL MANUAL CHAPTER 6 AND THE EROSION CONTROL DETAILS INCLUDED ON THESE DRAWINGS. MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE PERSON PERFORMING THE CONSTRUCTION.

29. PERMANENT EROSION MEASURES: PERMANENT EROSION CONTROL STRUCTURES SHALL BE INSTALLED AS CONSTRUCTION PROGRESSES. PERMANENT VEGETATIVE MEASURES SHALL BE PLACED IMMEDIATELY DURING THE VARIOUS STAGES OF CONSTRUCTION.

30. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL LAND DISTURBED DURING CONSTRUCTION HAS STABILIZED AND A STRONG STAND OF PERMANENT VEGETATION HAS BEEN ESTABLISHED. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE PROPERLY MAINTAINED UNTIL THE OWNER APPROVES REMOVAL.

31. TRENCH BACKFILL AND COMPACTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS. TRENCHES SHALL BE BACKFILLED AND COMPACTED TO MINIMIZE SETTLEMENT AND SCOURING. IT IS THE RESPONSIBILITY OF THE PERSON PERFORMING THE CONSTRUCTION TO CORRECT ANY SETTLED OR SCOURED AREAS THROUGHOUT THE WARRANTY PERIOD.

32. WATER AND SEWER LINES ARE EXEMPT FROM 50- AND 75-FOOT BUFFERS. A 25-FOOT BUFFER SHALL BE MAINTAINED FOR ALL UTILITIES INCLUDING PERMANENT AND TEMPORARY CONSTRUCTION EASEMENTS.

33. ALL GRASSING/SODDING AND MULCHING SHALL TAKE PLACE AS SOON AS PRACTICAL AFTER BACKFILLING OF TRENCH EXCAVATIONS OR OTHER LAND DISTURBING ACTIVITIES.

34. CONSTRUCTION MATERIAL STORAGE AREA WILL REQUIRE THE INSTALLATION OF A CONSTRUCTION EXIT (Co) TO REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE AREA. SILT FENCE SHALL ALSO BE INSTALLED TO PREVENT SEDIMENT FROM LEAVING THE MATERIAL STORAGE AREA AFTER DEMOBILIZATION. THE MATERIAL STORAGE AREA SHALL BE SEEDED AND MULCHED, AND THE SILT FENCE SHALL REMAIN UNTIL THE AREA IS PERMANENTLY STABILIZED.

35. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

36. THERE IS NO FLOODPLAIN ON THIS PROPERTY FROM A WATER COURSE WITH A DRAINAGE AREA EXCEEDING 100 ACRES OR FLOODPLAIN PER FIRM MAP NUMBER 13013C0050 DATED DECEMBER 1, 2022.

SOIL TYPES (FROM USDA SOIL SURVEY)

SYMBOL	SOIL NAME	DESCRIPTION
ApB	APPLING	SANDY LOAM 2 TO 6% SLOPES
ApC	APPLING	SANDY LOAM 6 TO 10% SLOPES

ANTICIPATED ACTIVITY SCHEDULE

ACTIVITY	MONTH											
	1	2	3	4	5	6	7	8	9	10	11	12
BARROW NW TANK	1	3	4	1	2	3	4	1	2	3	4	1
INSTALLATION OF EROSION CONTROL	1	2	3	4	5	6	7	8	9	10	11	12
MAINTENANCE OF EROSION CONTROL	1	2	3	4	5	6	7	8	9	10	11	12
TANK CONSTRUCTION	1	2	3	4	5	6	7	8	9	10	11	12
WATER MAIN CONSTRUCTION	1	2	3	4	5	6	7	8	9	10	11	12
FINAL CLEANUP AND GRASSING	1	2	3	4	5	6	7	8	9	10	11	12

EROSION CONTROL LEGEND

DESCRIPTION	SYMBOL
Slope Stabilization	N.A.
Rip Rap Channel Stabilization	XX
Construction Exit	Co
Silt Fence	Sd1-S
Surface Roughening	Su
Disturbed Area Limits	—
Temporary Sediment Trap	Sd4-C
Concrete Washout Area	Wa

EROSION CONTROL NOTES

DATE	NO.	DESCRIPTION	DRAWN	DP	RC	RC
08/05/25	0	ISSUED FOR BID				

RELEASE

DATE	NO.	DESCRIPTION	DRAWN	DP	RC	RC
08/05/25	0	ISSUED FOR BID				

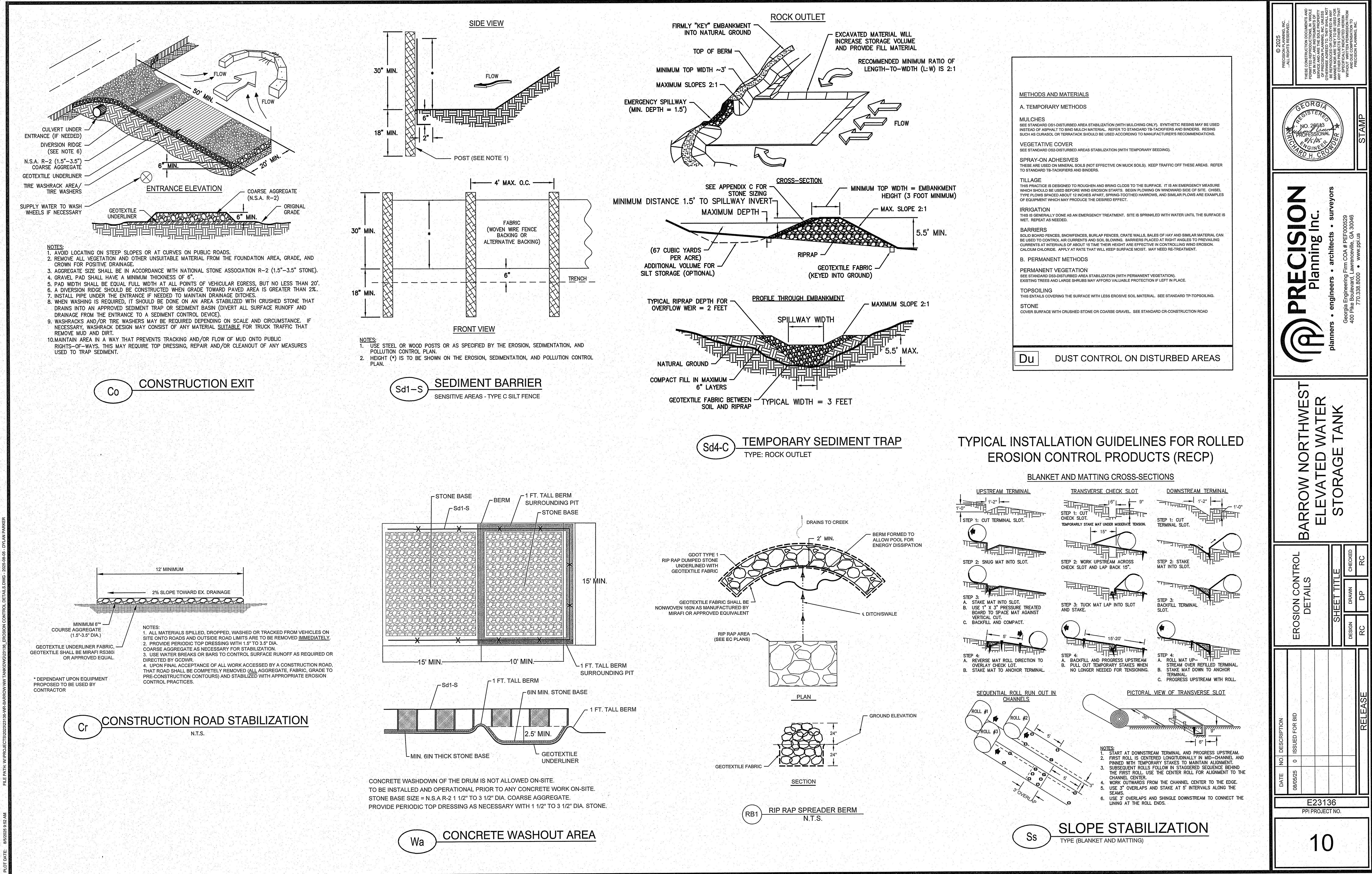
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GEORGIA REGISTERED PROFESSIONAL ENGINEER
NO. 26613
RICHARD H. CROWDER
STAMP

FILE PATH: W:\VPP\PROJECTS\2023\23136-NP-BARROW NW TANK\DRAWINGS\23136-NP-BARROW NW TANK.DWG - DYLAN PARKER
PLOT DATE: 8/5/2025 8:49 AM
E23136
PPI PROJECT NO. 08



The following statements are referenced from "Authorization to Discharge Under The National Pollutant Discharge Elimination System Storm Water Discharges Associated With Construction Activity for Infrastructure Construction" General Permit No. GAR 100002, Part IV. For the purposes of this plan the term Precision Planning, Inc. (PPI) is the Design Professional of these construction documents.

GAR 100002 PART IV.

D. Contents of Plan.

4. Inspections.

(a) 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: (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. Certified personnel shall also conduct inspections 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 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). Post-rain inspections will reset the 14-day inspection frequency requirement. 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), if 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.

5. Maintenance. The Plan shall include a description of procedures to ensure the timely maintenance of vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

6. Sampling Requirements. This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. The following procedures constitute EPD's guidelines for sampling turbidity.

a. Sampling Requirements shall include the following:

(1) A USGS topographic map, a topographic map or a drawing (referred to as a topographic map) that is a scale equal to or more detailed than a 1:24000 map showing the location of the infrastructure construction; (a) the location of all perennial and intermittent streams and other water bodies as shown on a USGS topographic map, and all other perennial and intermittent streams and other water bodies located during mandatory field verification, into which the stormwater is discharged and (b) the receiving water and/or outfall sampling locations for each representative stormwater outfall. When the permittee has chosen to use a USGS topographic map and the receiving water(s) is not shown on the USGS topographic map, the location of the receiving water(s) must be hand-drawn on the USGS topographic map from where the stormwater(s) enters the receiving water(s) to the point where the receiving water(s) combines with the first blue line stream shown on the USGS topographic map;

(2) A written narrative of site specific analytical methods used to collect and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3) When the permittee has determined that some or all outfalls will be sampled, a rationale must be included on the Plan for the NTU limit(s) selected from Appendix B. This rationale must include the size of the construction site, the calculation of the size of the surface water drainage area, and the type of receiving water(s) (i.e., trout stream or supporting warm water fisheries); and

(4) Any additional information EPD determines necessary to be part of the Plan. EPD will provide written notice to the permittee of the information necessary and the time line for submittal.

b. Sample Type. 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-B-92-001" and guidance documents that may be prepared by the EPD.

(1) Sample containers should be labeled prior to collecting the samples.

(2) Samples should be well mixed before transferring to a secondary container.

(3) Large mouth, well cleaned and rinsed glass or plastic jars should be used for collecting samples. The jars should be cleaned thoroughly to avoid contamination.

(4) Manual, automatic or rising stage sampling may be utilized. Samples required by this permit should be analyzed immediately, but in no case later than 48 hours after collection. However, samples from automatic samplers must be collected no later than the next business day after their accumulation, unless flow through automated analysis is utilized. If automatic sampling is utilized and the automatic sampler is not activated during the qualifying event, the permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed directly with a properly calibrated turbidimeter. Samples are not required to be cooled.

(5) Sampling and analysis of the receiving water(s) or outfalls beyond the minimum frequency stated in this permit must be reported to EPD as specified in Part IV.E.

c. Sampling Points.

(1) For construction activities the primary permittee must sample 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 a combination thereof. However, provided for in and in accordance with Part IV.D.6.c.(2) of this permit, primary permittees on an infrastructure construction project may sample the representative perennial and intermittent streams, other water bodies or outfalls, or a combination thereof. Samples taken for the purpose of compliance with this permit shall be representative of the monitored activity and representative of the water quality of the receiving water(s) and/or the storm water outfalls using the following minimum guidelines:

(a) The upstream sample for each receiving water(s) must be taken immediately upstream of the confluence of the first stormwater discharge from the permitted activity (i.e., the discharge farthest upstream at the site) but downstream of any other stormwater discharges not associated with the permitted activity. Where appropriate, several upstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the upstream turbidity value.

(b) The downstream sample for each receiving water(s) must be taken downstream of the confluence of the last stormwater discharge from the permitted activity (i.e., the discharge farthest downstream at the site) but upstream of any other stormwater discharge not associated with the permitted activity. Where appropriate, several downstream samples from across the receiving water(s) may need to be taken and the arithmetic average of the turbidity of these samples used for the downstream turbidity value.

(c) Ideally the samples should be taken from the horizontal and vertical center of the receiving water(s) or the stormwater outfall channel(s).

(d) Care should be taken to avoid stirring the bottom sediments in the receiving water(s) or in the outfall stormwater channel.

(e) The sampling container should be held so that the opening faces upstream.

(f) The samples should be kept free from floating debris.

(g) Permittees do not have to sample sheetflow that flows onto undisturbed natural areas or areas stabilized by the project. For purposes of this section, stabilized shall mean, for unpaved areas and areas not covered by permanent structures, 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscape areas), or equivalent permanent stabilization measures as defined in the Manual (excluding a crop of annual vegetation and a seeding of target crop perennials appropriate for the region). For infrastructure construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use.

(h) All sampling pursuant to this permit must be done in such a way (including generally accepted sampling methods, locations, timing, and frequency) as to accurately reflect whether stormwater runoff from the construction site is in compliance with the standard set forth in Parts III.D.3. or III.D.4., whichever is applicable.

(2) For infrastructure construction projects, the permittee is not required to sample a perennial or intermittent stream or other water bodies (or the associated outfall, if applicable) if the design professional preparing the Plan certifies that an increase in the turbidity of a specific identified receiving water to be sampled will be representative of the increase in the turbidity of a specific identified un-sampled receiving water. A written justification and detailed analysis shall be prepared by the design professional justifying such proposed sampling. A summary chart of the justification and analysis shall include the location and description of the specified sampled and un-sampled receiving water and shall contain a detailed comparison and discussion of each such receiving water in the following areas:

(a) site land disturbances and characteristics;

(b) receiving water watershed sizes and characteristics; and

(c) site and watershed runoff characteristics utilizing the methods in Appendix A-1 (United States Department of Agriculture Soil Conservation Service's TR-55, Urban Hydrology for Small Watersheds) of the most recent version of the "Manual for Erosion and Sedimentation Control in Georgia" for the various precipitation events and any other such considerations necessary to show that the increase in the turbidity of a specific identified sampled receiving water will be representative of the increases in the turbidity of a specific identified un-sampled receiving water(s).

(3) For infrastructure construction projects, when the permittee determines that some receiving water(s) will not be sampled due to representative sampling, the design professional making this determination and preparing the Plan must include and sign the following certification in the Plan:

"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 the turbidity of each specific identified sampled receiving water will be representative of the increase in the 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."

(4) For infrastructure construction projects, if at any time during the life of the project a selected receiving water no longer represents another receiving water, then the permittee shall sample the latter receiving water until selection of an alternative representative receiving water.

(5) For infrastructure projects, if at any time during the life of the project a receiving water is determined not to be represented as certified in the Plan, the permittee shall sample that receiving water until a Notice of Termination is submitted or until the applicable phase is stabilized in accordance with this permit.

(6) For infrastructure construction projects, monitoring obligations shall cease for any phase of the project that has been stabilized in accordance with Part IV.D.6.c.(1).g.

d. Sampling Frequency.

(1) The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any stormwater 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 and automatic sampling are impossible (as defined in this 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 rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours 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 representative 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 stormwater discharge that occurs during normal business hours either 90 days after the first sampling event or after all mass grading operations have been completed, but prior to submittal of a NOT, in the drainage area of the location selected as the representative sampling location, whichever comes first;

(c) 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-rain event inspections determine that BMPs are properly designed, installed and maintained;

(d) 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 sampling obligations under (a), (b) or (c) above; and

(e) 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 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.

7. Non-stormwater discharges. Except for flows from fire fighting activities, sources of non-stormwater listed in Part III.A.2. of this permit that are combined with stormwater discharges associated with construction activity must be identified in the Plan. The Plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-stormwater component(s) of the discharge.

E. Reporting.

(1) 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 storm water 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.

(2) All sampling reports shall include the following information:

a. The rainfall amount, date, exact place, and time of sampling or measurements;

b. The name(s) of the certified personnel who performed the sampling and measurements;

c. 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;

f. References and written procedures, when available, for the analytical techniques or methods used;

g. The results of such analyses, including the bench sheets, instrument readouts, computer disks or tapes, etc., used to determine these results;

h. Results which exceed 1000 NTU shall be reported as "exceeds 1000 NTU"; and

i. Certification statement that sampling was conducted as per the Plan.

(3) All written correspondence required by this permit shall be submitted by return receipt certified mail (or similar service) to the appropriate EPD District Office or delivery receipt email to the appropriate EPD District Office resource mailbox according to the schedule in Appendix A of this permit. The permittee shall retain a copy of the proof of submittal at the construction site or the proof of submittal shall be readily available at a designated location from commencement of construction until such time as a NOT is submitted in accordance with Part VI.

F. Retention of Records.

(1) The Primary Permittee 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 NOT 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 this permit;

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 monitoring information, results, and reports required by this permit;

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 this permit.

(2) Copies of all Notices of Intent, Notices of Termination, inspection reports, sampling reports (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), or other 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 the NOT 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 to the permittee.

PRECISION Planning Inc. 

planners • engineers • architects • surveyors

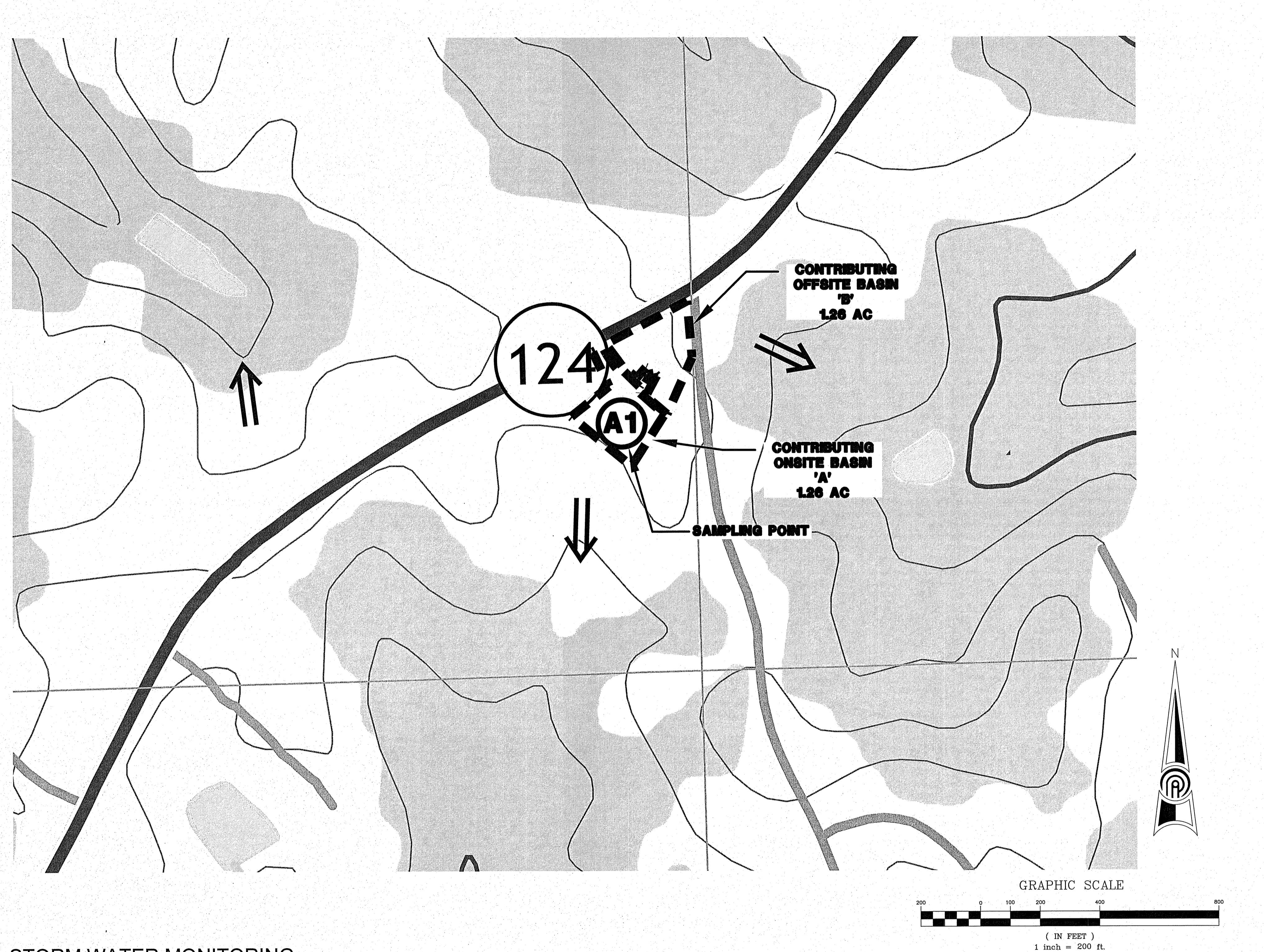
Georgia Engineering Firm CDA # PEP000529

400 Pike Boulevard, Lawrenceville, GA 30046

770.353.6000 • www.ppi.us

BARROW NORTHWEST ELEVATED WATER STORAGE TANK

NPDES NOTES	SHEET TITLE	DESIGN	DRAWN	CHECKED
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STORM WATER MONITORING

CONTRACTOR SHALL PERFORM MONITORING OF STORM WATER LEAVING THE CONSTRUCTION SITE IN ACCORDANCE WITH THE REQUIREMENTS OF GENERAL PERMIT NO. GAR100002. THE MONITORING POINTS FOR STORM WATER SAMPLING FOR THIS PROJECT ARE DESCRIBED AS FOLLOWS:

Monitoring point A1 in an outfall monitoring point is located along the drainage path downstream of the Sd4-C BMP leaving the project site. Disturbed area contributing to this point includes construction of an elevated water storage tank and accompanying water piping for a total disturbed area to this point of 1.26 acres. due to flat topography, additional surface water drainage area to this point is negligible therefore making the total drainage area equal to the disturbed area. Per appendix b of the permit, the allowable ntu value (0.4-9.9 sq. mi. drainage area, 1.00-10 acres site size, warm water) is 75. The location is approximately 0.10 miles east of Old Victron School rd.

NTU SELECTION

No NTU selection from the tables in Appendix B of the General Permit is required since there is no monitoring of outfalls. Monitoring points are on live streams on the upstream and downstream sides of construction. A difference of 25 NTUs will be the maximum allowable difference between the monitoring points.

CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING, SUBMITTING, AND MAINTAINING ALL FORMS, MONITORING DATA REPORTS, INSPECTION REPORTS, ETC. ON A TIMELY BASIS IN ACCORDANCE WITH THE REQUIREMENTS OF GENERAL PERMIT NO. GAR100002.

GPS COORDINATES:

MONITORING POINT A1: 34.085575° N LATITUDE
83.819028° W LONGITUDE

Sampling Rationale Summary

SAMPLING POINT	NTU Limit Selected	Drainage Area	Type of Receiving Water
A1	75 NTU	0.4-9.9 SQ MI	WARM

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST INFRASTRUCTURE CONSTRUCTION PROJECTS

Project Name: Barrow Northwest Elevated Water Storage Tank Address: 1172 SR 124, Hoschton, GA 30548

Local Issuing Authority: Barrow County Date on Plans: 8/5/25

Name & Email of person filling out checklist: Dylan Parker: 833dp@ppi.us

TO BE SHOWN ON ES&PC PLAN

Page # 12 Y

8-12 Y

8 Y

8 Y

8 Y

ALL Y

8 Y

3,12 Y

8 Y

10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.

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.

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 21 of the permit. *

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. *

14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect and certify the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." *

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 unrested 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." *

16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.

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." *

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." *

19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."

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."

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."

22 Any construction activity which discharges storm water into a B10s Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a B10s Impaired Stream Segment, must comply with Part III.C. of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *

23 If a TMDL Implementation Plan for sediment has been finalized for the B10s 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. *

24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. *

25 Provide BMPs for the remediation of all petroleum spills and leaks.

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. *

27 Description of practices to provide cover for building materials and building products on site. *

28 Description of the practices that will be used to reduce the pollutants in storm water discharge. *

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, grading, infrastructure, temporary and final stabilization).

30 Provide complete requirements of Inspections and record keeping by the Primary Permittee. *

31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *

32 Provide complete details for Retention of Records as per Part V.F. of the permit. *

33 Description of analytical methods to be used to collect and analyze the samples from each location. *

34 Appendix R rationale for NTU values at all outfall sampling points where applicable. *

35 Delineate all sampling locations on all phases of the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *

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 sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all BMPs into a single phase plan. *

37 Graphic scale and North arrow.

38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:
Existing Contours USGS 1: 2000 Topographical Sheet
Proposed Contours 1": 400' Centerline Profile

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). 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. Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *

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

42 Delineation of all State Waters and wetlands located on or within 200 feet of the project site.

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

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

45 Estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.

46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.

47 Soil series for the project site and their delineation.

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, referred to as a pond, and a minimum of 100 cubic yards of earth fill per acre drained using a sediment basin. The pond must be created prior to and during land disturbance activities until the construction 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, Permits are required to utilize outlet structures that withdraw water from the surface, unless feasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.

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.

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.

* 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.

Effective January 1, 2025

RELEASE

DATE

NO.

DESCRIPTION

ISSUED FOR BID

DRAWN

CHECKED

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RELEASE

DATE

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ELECTRICAL EQUIPMENT MATERIALS RATING				
NO.	EQUIPMENT	INSTALLATION AREA AND DESIGN CRITERIA		
		OUTDOOR GENERAL AREAS ENVIRONMENT: CORROSIVE; WET (METERING VAULT, VALVE VAULT, ETC.)	BELOW GRADE VAULTS (METERING VAULT, VALVE VAULT, ETC.) ENVIRONMENT: CORROSIVE; WET	UNDERGROUND AND DIRECT BURIED ENVIRONMENT: CORROSIVE; WET
1	RIGID CONDUITS	RMC - ALUMINUM	RMC - ALUMINUM	DIRECT BURIED - PVC 40; CONCRETE ENCASED - PVC 40.
2	FLEXIBLE CONDUITS	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LFMC)	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LFMC)	N/A
3	CABLE TRAYS	LADDER TYPE - ALUMINUM	LADDER TYPE - ALUMINUM	N/A
4	JUNCTION BOXES	STEEL - NEMA 3R	STEEL - NEMA 4	POLYMER CONCRETE
5	PULL BOXES	STEEL - NEMA 3R	STEEL - NEMA 4	POLYMER CONCRETE
6	EQUIPMENT RACKS/SUPPORTS/HARDWARE	ALUMINUM	ALUMINUM	STAINLESS STEEL 304
7	FASTENERS	ALUMINUM	ALUMINUM	STAINLESS STEEL 304
8	SWITCHGEAR	NEMA 3R	N/A	N/A
9	SWITCHBOARD	NEMA 3R	N/A	N/A
10	MOTOR CONTROL CENTER	NEMA 3R	N/A	N/A
11	PANELBOARDS	NEMA 3R	N/A	N/A
12	DRY TYPE TRANSFORMERS	NEMA 3R	N/A	N/A
13	DISCONNECT SWITCHES	NEMA 3R	NEMA 4	N/A
14	MOTOR STARTERS	NEMA 3R	NEMA 4	N/A
15	CONTACTORS	NEMA 3R	NEMA 4	N/A
16	CONTROL PANELS	NEMA 3R	N/A	N/A
17	MOTOR HOUSING MINIMUM PROTECTION RATING	TEFC	TEFC	N/A
18	INSTRUMENTATION MINIMUM PROTECTION RATING	NEMA 4	NEMA 6P	NEMA 6P
19	VALVE ACTUATORS	NEMA 4	NEMA 6P	N/A
20	WIRING DEVICE BOXES	DIE-CAST ALUMINUM; WEATHERPROOF	DIE-CAST ALUMINUM; WEATHERPROOF	N/A
21	DEVICES COVER PLATES	DIE-CAST ALUMINUM; WEATHERPROOF	DIE-CAST ALUMINUM; WEATHERPROOF	N/A
22	OUTLET BOX HOODS	ALUMINUM; WEATHERPROOF (WHILE-IN-USE COVER)	ALUMINUM; WEATHERPROOF (WHILE-IN-USE COVER)	N/A

CABLE TYPES REQUIREMENTS						
	MATERIAL	SERVICE ENTRANCE	VFD MOTOR FEEDERS	POWER	CONTROL	SIGNAL
CABLE TYPES	COPPER, UNLESS NOTED OTHERWISE	XHHW, 600V	SHIELDED VFD CABLES, 1000V	THWN-2, 600V	THWN-2, 600V	SHIELDED TWISTED TYPE, 600V

NOTES:

- POWER CABLES REQUIREMENTS:
 - MINIMUM ALLOWED WIRE GAUGE: #12 AWG.
 - MAXIMUM ALLOWED WIRE GAUGE: 600KCMIL.
 - MAXIMUM MULTICONDUCTOR CABLES SIZE: #1 AWG.
 - MAXIMUM SOLID CORE CABLES SIZE: #10 AWG.
- CONTROL CABLES REQUIREMENTS:
 - CABLES CONSTRUCTION TYPE: SINGLE CONDUCTOR.
 - MINIMUM ALLOWED WIRE GAUGE: #14 AWG.
- SIGNAL CABLES REQUIREMENTS:
 - CABLES CONSTRUCTION TYPE: MULTICONDUCTOR CONDUCTOR WITH OVERALL SHIELD AND DRAIN WIRE.
 - MINIMUM ALLOWED WIRE GAUGE: #16 AWG.
 - MAXIMUM NUMBER OF PAIRS/TRIADS IN MULTI-PAIR/TRID CABLE: 2.

INSTALLATION REQUIREMENTS:

GENERAL:

- ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE UL LISTED.
- ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED OUTDOORS SHALL BE UV RESISTANT.
- ALL ELECTRICAL EQUIPMENT AND MATERIALS OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER AND MODEL LINE.
- ALL FREESTANDING EQUIPMENT SHALL BE INSTALLED ON 4" HOUSEKEEPING PAD, ELEVATED ABOVE THE SURROUNDING SURFACE.
- ALL ELECTRICAL, INSTRUMENTATION AND CONTROL SYSTEM COMPONENTS LOCATIONS SHALL BE ADJUSTED TO PROVIDE NEC REQUIRED WORKING CLEARANCES.
- ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL HAVE CONCRETE PADS EXTENDING 3 FT IN FRONT OF THE EQUIPMENT.
- CONTRACTOR SHALL ADJUST CIRCUIT BREAKER SIZES, CABLES AND CONDUITS FOR ELECTRICAL EQUIPMENT AT NO ADDITIONAL COST BASED ON THE ACTUAL ACCEPTED SHOP DRAWINGS.
- CONTRACTOR SHALL CONFIRM ELECTRICAL EQUIPMENT DIMENSIONS PRIOR TO RELEASING FOR FABRICATION LOCATED IN THE AREAS WITH LIMITED AVAILABLE SPACE TO ENSURE PROPER EQUIPMENT INSTALLATION PROVIDING NEC REQUIRED WORKING CLEARANCES.
- FOR NEW CONSTRUCTION, INSTALLATION AND/OR DEMOLITION THAT INTERRUPTS ANY POWER, CONTROL OR SIGNAL WIRING TO EXISTING EQUIPMENT OR DEVICES THAT SHALL REMAIN IN OPERATION, CONTRACTOR SHALL INCLUDE ALL REQUIRED BREAKERS, CABLES/CONDUITS AND/OR ANY OTHER EQUIPMENT AS REQUIRED TO KEEP THE EXISTING SYSTEM FUNCTIONAL.
- ALL MOTORS USED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED TYPE.
- ALL OUTDOOR ENCLOSURES CABLES ENTRY POINTS SHALL BE IN THE BOTTOM OF THE ENCLOSURE. IN CASE OF INABILITY TO MAKE BOTTOM PENETRATION, SIDE CONNECTION WOULD BE ACCEPTABLE. ENCLOSURES TOP ENTRY ARE NOT ALLOWED.

POWER DISTRIBUTION AND CONDUITS INSTALLATION REQUIREMENTS:

- ALL POWER DISTRIBUTION EQUIPMENT SHALL BE BY THE FOLLOWING MANUFACTURES: EATON, SCHNEIDER ELECTRIC, ABB, ALLEN-BRADLEY, SIEMENS OR APPROVED EQUAL.
- ALL MOTOR STARTERS, VFD'S, RVSS'S SHALL BE BY THE FOLLOWING MANUFACTURES: EATON, SCHNEIDER ELECTRIC, ABB, ALLEN-BRADLEY, SIEMENS OR APPROVED EQUAL.
- ALL CONDUITS ENDS SHALL BE FREE OF METAL SHAVINGS AND BE PROVIDED WITH FITTINGS WITH INSULATED BUSHING.
- ALL EXPOSED CONDUITS SHALL BE MINIMUM OF 3/4". ALL BURIED CONDUIT SHALL BE MINIMUM OF 1".
- ALL UNDERGROUND CONDUITS SHALL HAVE RIGID STEEL ELBOWS.
- ALL METAL CONDUITS SHALL BE PROTECTED WITH A BITUMINOUS COATING WHEN INSTALLED UNDERGROUND OR WHEN IN CONTACT WITH CONCRETE.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CABLES AND EQUIPMENT LUG SIZES. IN CASE THE CABLE IS OF A LARGER SIZE THAN THE EQUIPMENT LUG, CONTRACTOR SHALL PROVIDE THE REQUIRED CONNECTOR AT NO ADDITIONAL CHARGE TO OWNER.
- CONTRACTOR SHALL PROVIDE PULL STRING AND PERMANENTLY ATTACHED IDENTIFICATION LABELS AT EACH CONDUIT END FOR ALL SPARE CONDUITS. EACH TAG SHALL INCLUDE CONDUIT NUMBER, SIZE AND DESTINATION POINT.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED PULL BOXES AND/OR CONDUITES TO MEET NEC ARTICLE 314 FOR CABLE PULLS.
- ALL CABLES INSTALLED IN CABLE TRAYS SHALL BE TCODED.
- CONDUIT FITTING CONNECTION TYPES SHALL BE AS FOLLOWS:
 - FOR RMC AND IMC CONDUITS - THREADED TYPE;
 - FOR EMT CONDUITS - COMPRESSION TYPE;
- RIGID CONDUIT CONNECTIONS TO ENCLOSURES SHALL BE MADE WITH MYERS HUBS.
- ALL OPEN CONDUIT ENDS SHALL BE PROTECTED FROM ELEMENTS PENETRATION TO THE INSIDE THE CONDUIT WITH DUCT SEAL.
- TO EQUIPMENT ENCLOSURES THAT ARE NOT SUITABLE FOR RIGID OR FLEXIBLE CONDUIT CONNECTION, THE CONTRACTOR SHALL PROVIDE A CORD GRIP AT THE CONDUIT END TO PROTECT THE FROM ELEMENTS PENETRATION TO THE INSIDE THE CONDUIT.
- THE CONTRACTOR SHALL INSTALL EXPANSION COUPLINGS AS REQUIRED TO PREVENT CONDUIT DAMAGE DUE TO LONGITUDINAL MOVEMENT AND/OR THERMAL EXPANSION.
- THE CONTRACTOR SHALL INSTALL DEFLECTION COUPLINGS FOR CONDUITS RUNS THAT ARE SUBJECT TO ANGULAR AND PARALLEL MISALIGNMENT.
- THE CONTRACTOR SHALL INSTALL DRAIN FITTING IN VERTICAL CONDUIT RUNS AT LOW POINTS IN CONDUIT SYSTEM TO PREVENT ACCUMULATION OF CONDENSATE ABOVE SEAL-OFF FITTINGS.
- THE CONTRACTOR SHALL INSTALL DRAIN FITTINGS AT LOW POINTS OF CONDUIT RUN TO DRAIN ACCUMULATED CONDENSATE AND TO PROVIDE VENTILATION TO MINIMIZE CONDENSATION.
- FOR OVERHEAD SERVICES THE CONTRACTOR SHALL INSTALL WEATHERED FITTINGS AS REQUIRED, FOR SERVICE CABLE INSTALLATION THROUGH THE ROOF, USE SERVICE ENTRANCE MAST KITS.
- THE CONTRACTOR SHALL INSTALL GROUNDING BUSHING AS REQUIRED BY NEC, AS WELL AS FOR THE FOLLOWING CONDITIONS:
 - FOR METALLIC RACEWAYS CONTAINING SERVICE CONDUCTORS
 - FOR METALLIC RACEWAYS TERMINATED AT NON-METALLIC ENCLOSURES
 - FOR METALLIC RACEWAYS TERMINATED ON RING KNOCKOUTS REMAINING AND THE CIRCUIT EXCEEDING 250V TO GROUND NOMINAL
 - FOR METALLIC RACEWAYS NOT TERMINATED AT ENCLOSURE

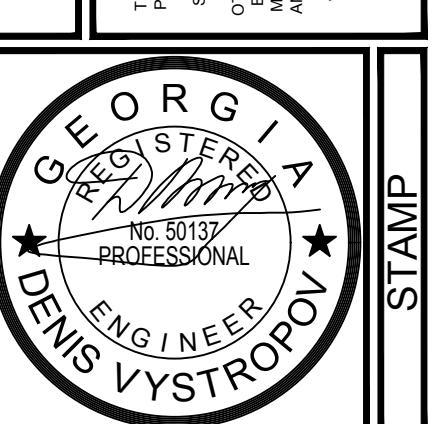
INSTRUMENTATION AND CONTROLS:

- ALL FIELD MOUNTED INDICATING TRANSMITTERS SHALL BE PROVIDED WITH SUN/RAIN HOOD.
- ALL CONTROL CABINETS INSTALLED OUTDOORS SHALL BE PROVIDED WITH SUN PROTECTING COVER OVER DISPLAYS TO AVOID DETERIORATION FROM UV EXPOSURE.

GROUNDING:

- MAXIMUM DISTANCE BETWEEN DRIVEN GROUND RODS IS NOT TO EXCEED 50' UNLESS OTHERWISE NOTED.
- ALL GROUNDING CONDUCTORS TO BE BARE, STRANDED, SOFT DRAWN, COPPER, SIZED AS INDICATED ON THE DESIGN DRAWINGS.
- MAIN RING GROUND WIRE TO BE MAXIMUM 3" OUTSIDE FOUNDATIONS AND 2"-6" BELOW FINISH GRADE.
- CONTRACTOR TO DETERMINE ACTUAL LOCATION OF ANY EQUIPMENT UTILIZING BONDS TO GROUNDING TAILS. CONTRACTOR TO LOCATE 1" PVC GROUNDING STUB-UPS IN ACCORDANCE WITH EQUIPMENT VENDOR INFORMATION OR DRAWING REQUIREMENTS.
- FOR COMPRESSION APPLICATIONS, APPLY A COAT OF "NO-OXIDE" COMPOUND ONTO COPPER CABLE AND COMPRESSION CONNECTORS PRIOR TO CRIMPING CONNECTION OR USE PRE-FILLED CONNECTORS.
- ALL GROUND CABLES STUBBING UP THROUGH CONCRETE SHALL STUB UP THRU PVC CONDUIT, SIZED PER PLAN DRAWINGS. PVC CONDUIT SHALL EXTEND A MINIMUM OF 6" ABOVE AND 6" BELOW THE CONCRETE.
- PIGTAILS SHOULD BE INSTALLED THRU 1" PVC CONDUIT, 10" LONG U.N.O.
- EXOTHERMIC WELDS SHALL BE UTILIZED IN UNDERGROUND INSTALLATIONS ONLY. ALL SUCH WELDS SHALL BE INSPECTED BY THE SITE ENGINEER REPRESENTATIVE PRIOR TO COVER.
- ALL ABOVE GROUND GROUNDING CONNECTIONS SHALL EMPLOY PROPERLY RATED COMPRESSION CONNECTORS.
- THE MAIN GROUNDING RING CONDUCTOR SHALL BE RUN AS MECHANICALLY CONTINUOUS AS POSSIBLE WITH A MINIMUM OF CUTS AND SPLICES.

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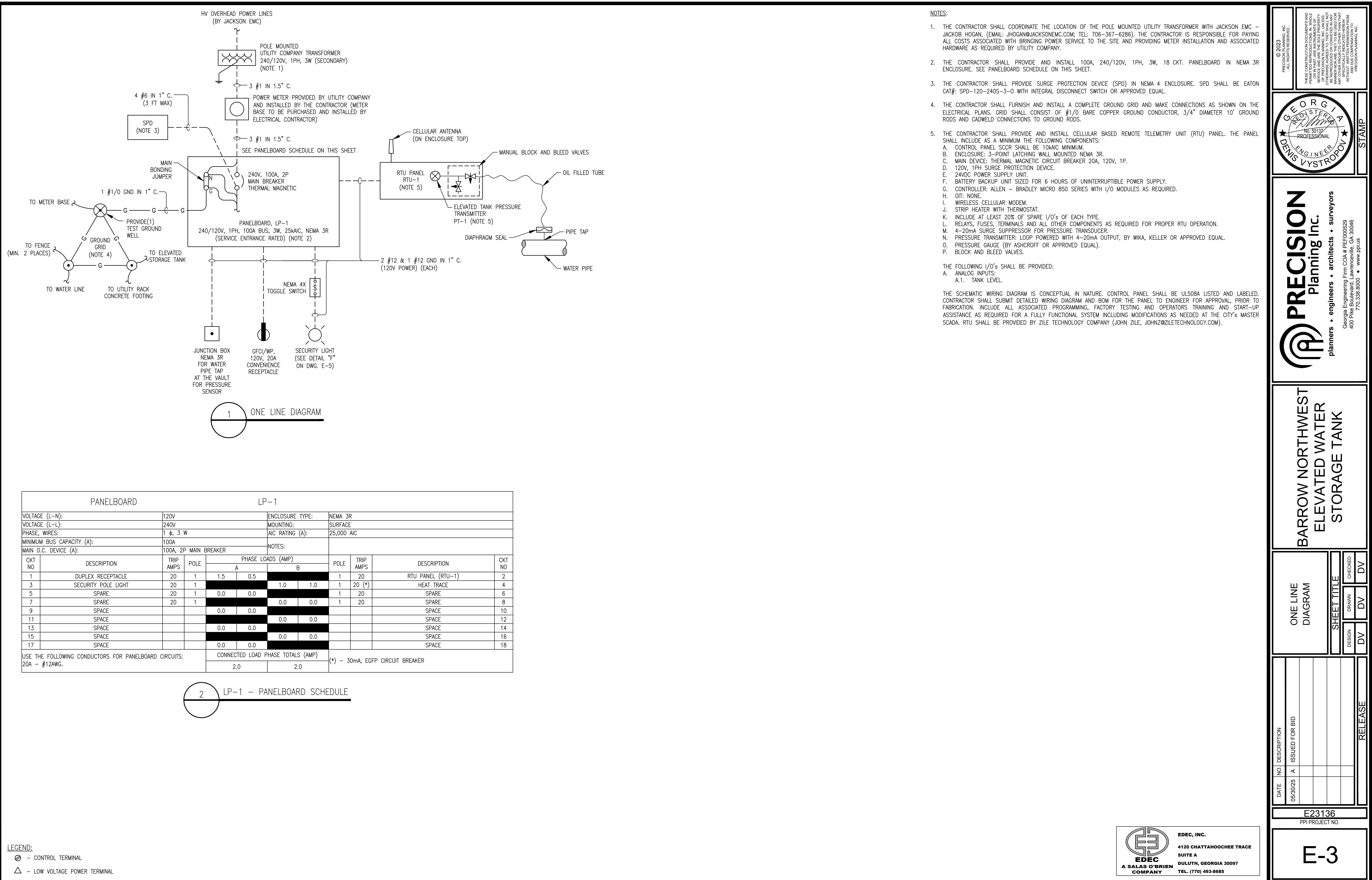
BARROW NORTHWEST
ELEVATED WATER
STORAGE TANK

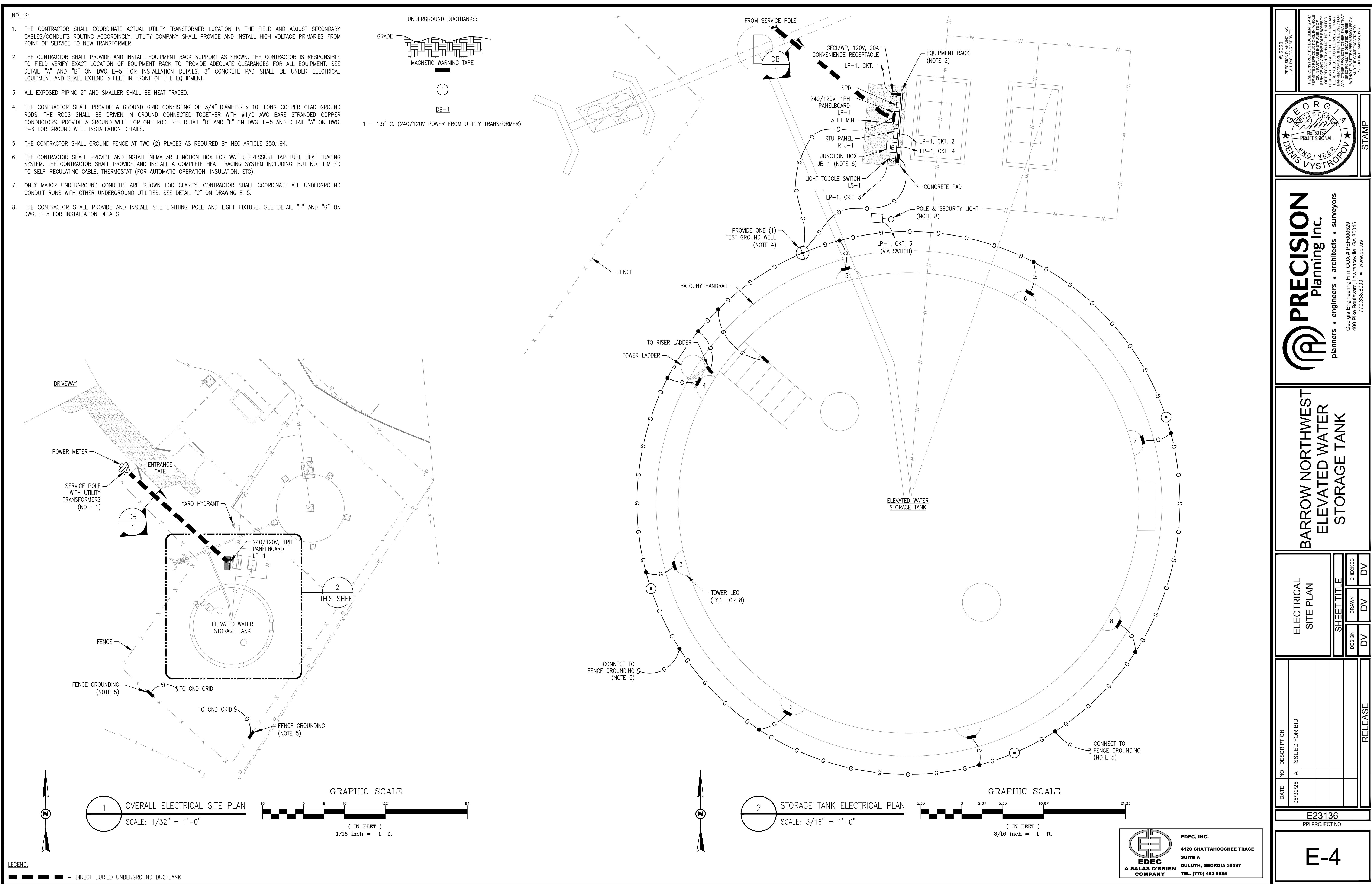
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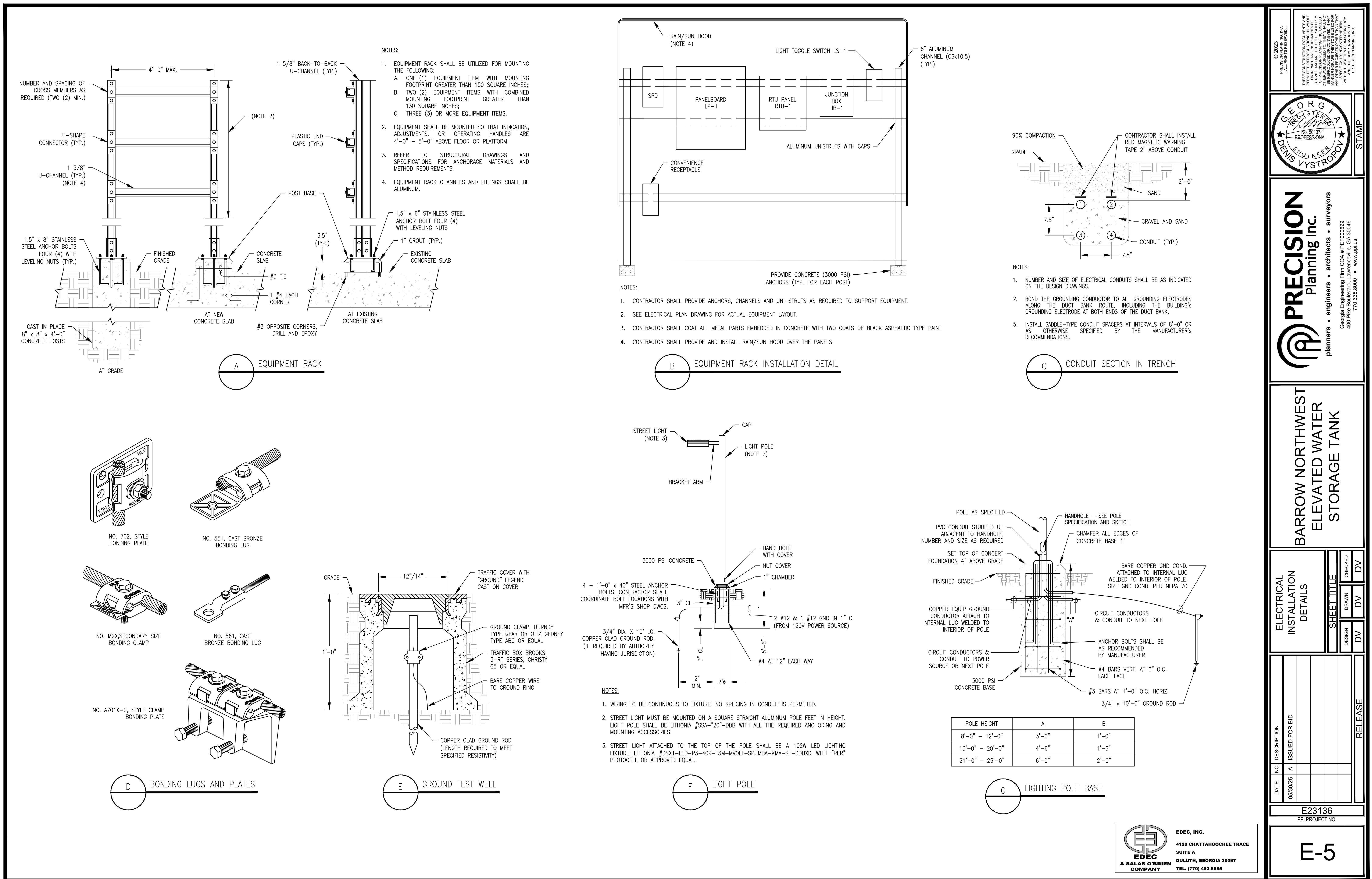
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E-2	

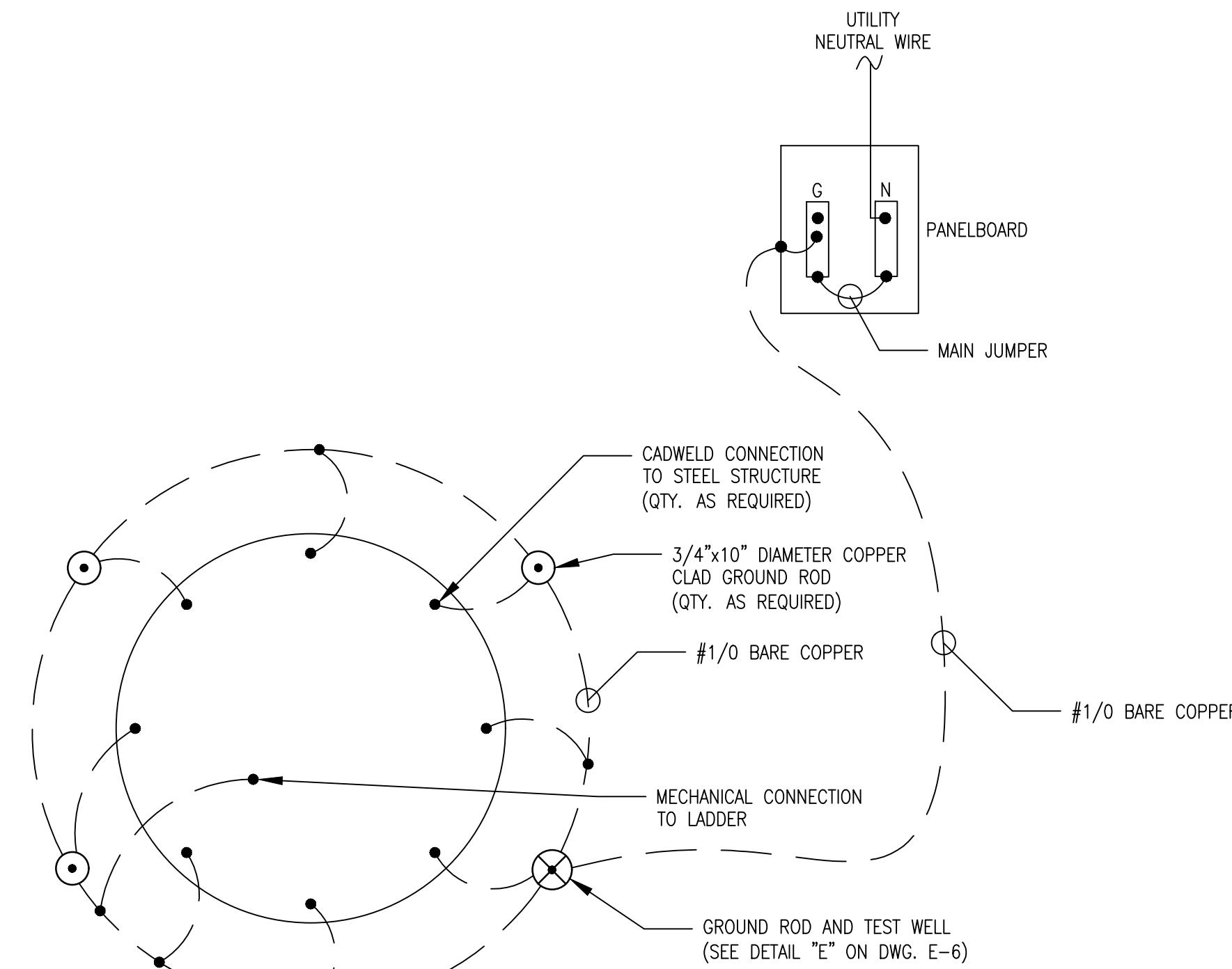
EDEC, INC.
4120 CHATTAHOOCHEE TRACE
SUITE A
DULUTH, GEORGIA 30097
A SALAS O'BRIEN COMPANY
TEL. (770) 493-8685

E-2





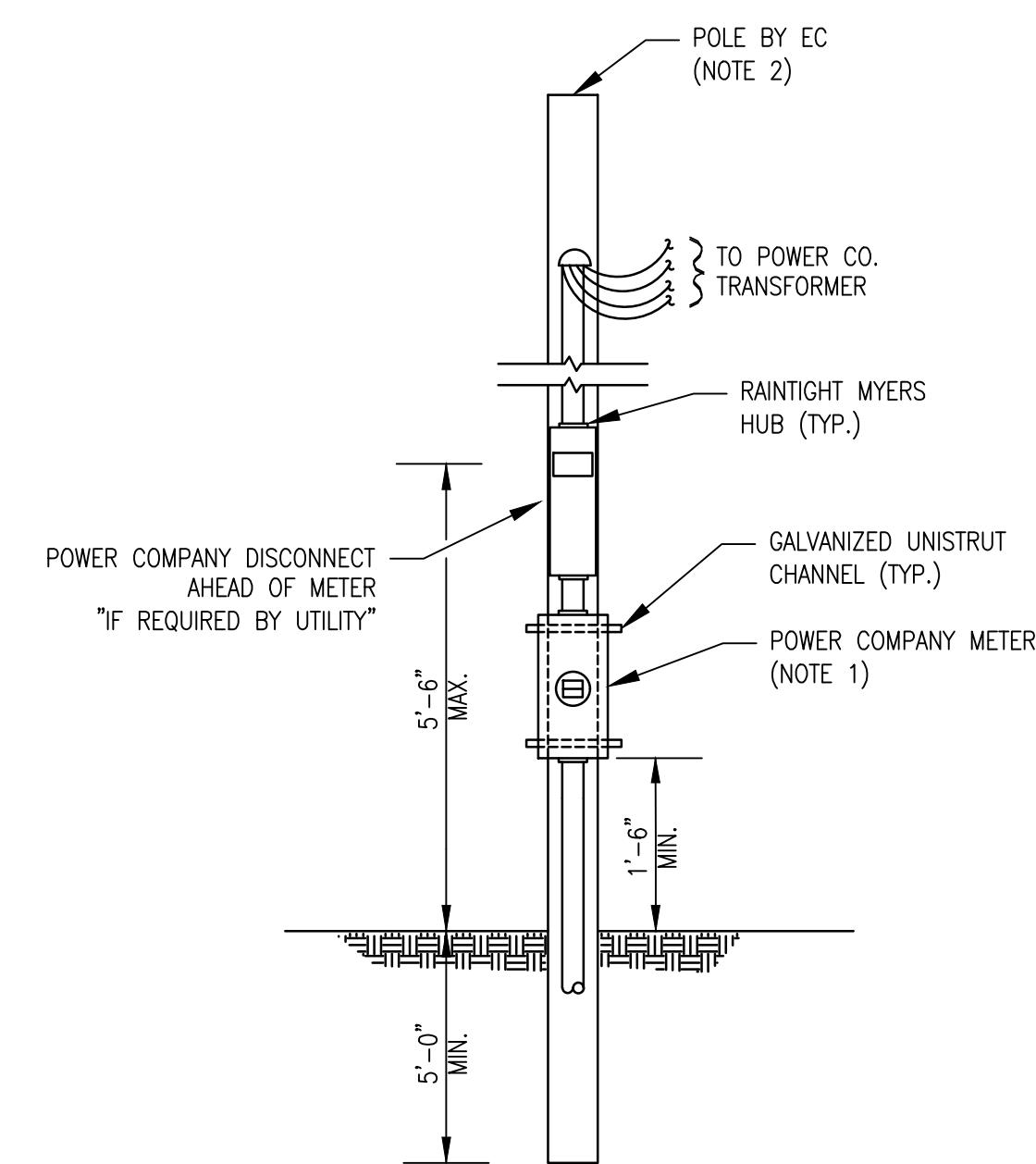




NOTE:

1. CONTRACTOR SHALL PROVIDE A GROUND RING CONSISTING OF 3/4" DIAMETER x 10' LONG COPPERWELD GROUND RODS AND ONE (1) GROUND TEST WELL. THE RODS SHALL BE DRIVEN IN GROUND CONNECTED TOGETHER WITH #1/0 AWG BARE STRANDED COPPER CONDUCTORS. THE GROUND CONDUCTORS TO PANELBOARD AND ELEVATED TANK STEEL SHALL BE CADWELD. PROVIDE A GROUND WELL FOR ONE (1) ROD.

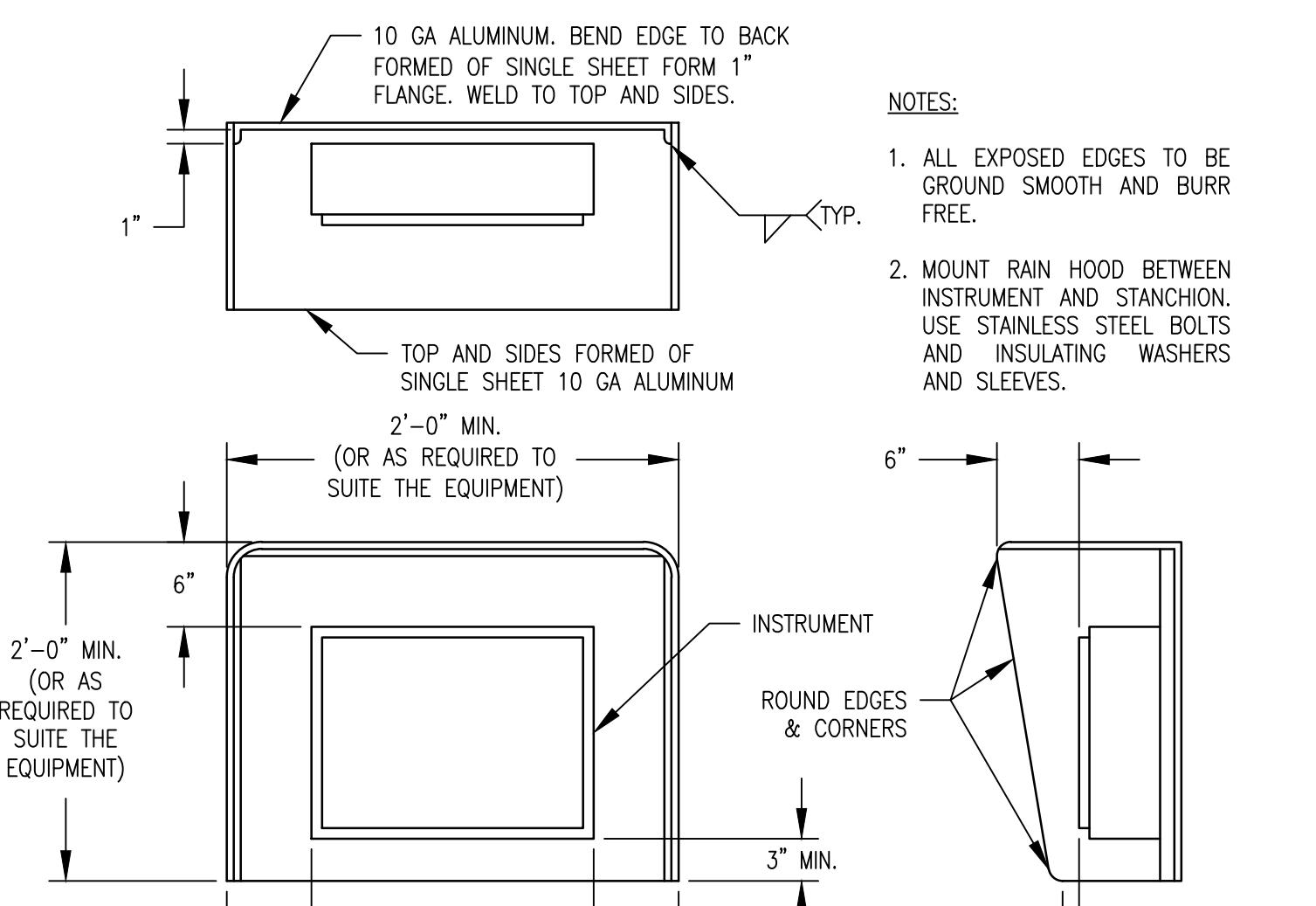
A ELEVATED STORAGE TANK GROUNDING SYSTEM



NOTES:

1. INSTALL THE METER SO THE METER READINGS CAN BE TAKEN WITHOUT ENTERING THE GATE.
2. UTILITY POLE SHALL BE CLASS 5, 20FT, PRESSURE SALT TREATED SOUTHERN PINE UTILITY GRADE POLE, STRAIGHT AND TRUE WITH NO KNOTS, SPLITS OR OFFSETS, CANTED TOP, STAMPED AND DATED, AND SET IN GROUND PLUMB TO UTILITY STANDARDS.

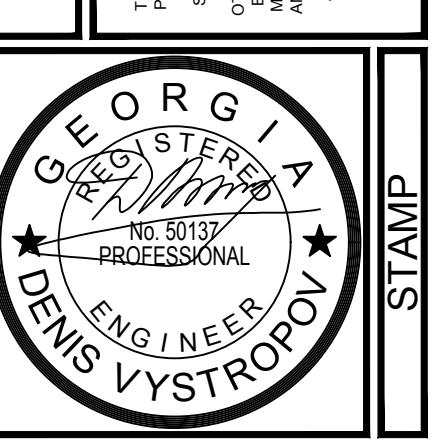
B POWER POLE



- NOTES:
1. ALL EXPOSED EDGES TO BE GROUND SMOOTH AND BURR FREE.
 2. MOUNT RAIN HOOD BETWEEN INSTRUMENT AND STANCHION. USE STAINLESS STEEL BOLTS AND INSULATING WASHERS AND SLEEVES.

C SUN/RAIN HOOD

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**BARROW NORTHWEST
ELEVATED WATER
STORAGE TANK**

RELEASE		ELECTRICAL INSTALLATION DETAILS		SHEET TITLE	
DATE	NO. DESCRIPTION	DESIGN	DRAWN	CHECKED	DV
05/30/25	A ISSUED FOR BID				

E23136	PPI PROJECT NO.
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