# SITE DEVELOPMENT PLANS FOR 129 PIPEMAKERS CIRCLE

# POOLER, CHATHAM COUNTY, GEORGIA

Prepared for

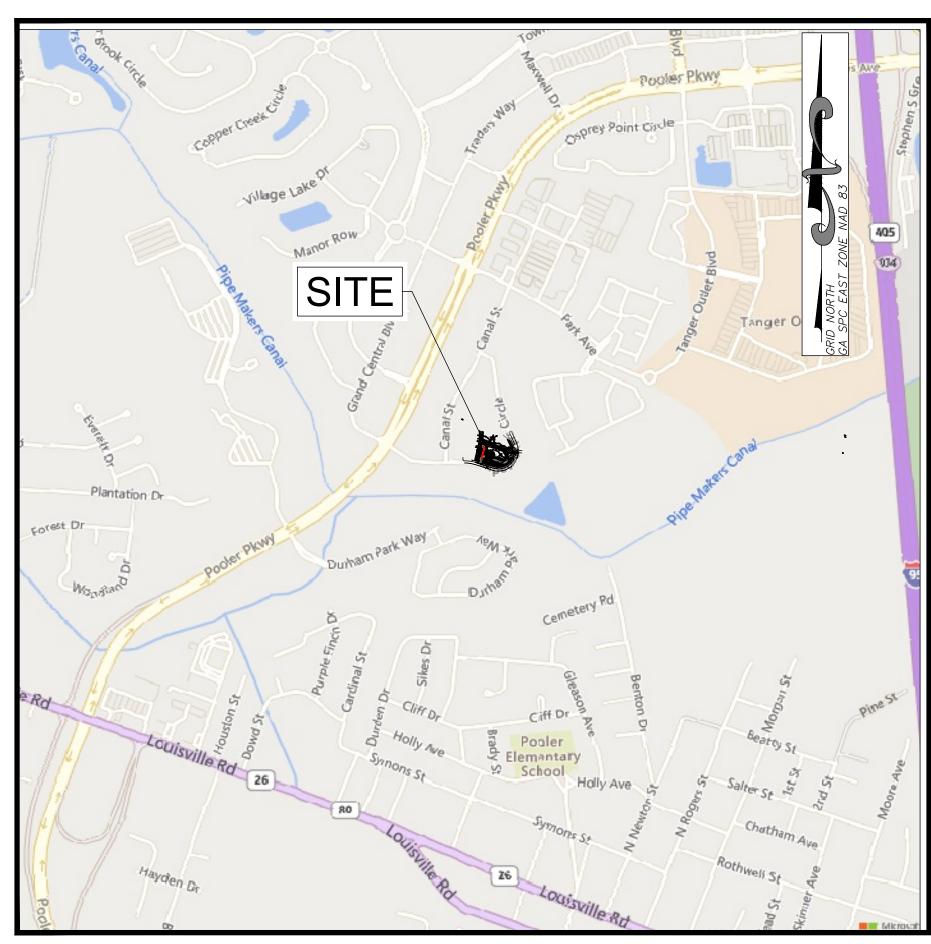
COMBAT VETERANS, LLC

# PROJECT DATA OWNER/DEVELOPER: COMBAT VETERANS, LLC 107 GODLY WAY POOLER, GA 31322 24HR CONTACT: ALEC METZGER (912) 644-3223 TAX MAP & PARCEL NUMBER: 50017B05077 PARCEL AREA: 1.66 AC ZONING CLASSIFICATION: PUD PROPOSED USE: COMMERCIAL IMPERVIOUS AREA: 0.95 AC DISTURBED AREA: 1.56 AC 21,600 SF

UTILITY LOCATION DISCLAIMER

PARKING SPACES REQUIRED:

PARKING SPACES PROVIDED: 72



VICINITY MAP

PROJECT LOCATION: 129 PIPEMAKERS CIRCLE POOLER, CHATHAM COUNTY, GEORGIA

FEBRUARY 2025





# EMC ENGINEERING SERVICES, INC.

ENVIRONMENTAL- MARINE - CIVIL - SURVEY

OF P	DEPARTMENT OF PLANNING & DEVELOPMENT
API	PROVED BY: rjarles
	TE: 10:30 am, Nov 04 2025

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-0056 129 PIPEMAKERS CIRCLE\DWG\24

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF POOLER SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF POOLER'S ORDINANCES, STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF POOLER
- PRIOR TO INSTALLATION OF ANY UTILITY LINES, THE CONTRACTOR SHALL GIVE THE UTILITY COMPANIES THREE (3) WORKING DAYS 2. NOTICE TO ALLOW TIME FOR EXISTING UTILITIES TO BE STAKED. BEFORE CALLING (811) THE CONTRACTOR SHALL HAVE THE FOLLOWING INFORMATION READY: COUNTY, TOWN, LOCATION, NEAREST STREET INTERSECTIONS, TYPE OF WORK (SEWER, WATER, PAVING, ETC.) YOUR COMPANY NAME, TELEPHONE NUMBER, OWNER'S NAME, DATE AND TIME YOU EXPECT TO COMMENCE CONSTRUCTION, AND WHERE AND HOW YOU CAN BE REACHED AND THE BEST TIME TO CONTACT YOU. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY 3. COMPANIES, AND THE CONTRACTOR SHALL COOPERATE WITH THEM DURING RELOCATION OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY VARIANCES PRIOR TO COMMENCEMENT OF WORK OR PURCHASING ANY MATERIALS.
- ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON THE PLANS AND ARE NOT NECESSARILY ACCURATE AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES, EXCEPT AS NOTED BELOW. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR THE COST OF 4. REPAIRS TO DAMAGED UTILITY FACILITIES OTHER THAN SERVICE LINES FROM STREET MAINS TO ABUTTING PROPERTY WHEN SUCH FACILITIES ARE NOT SHOWN ON THE PLANS AND THEIR EXISTENCE IS UNKNOWN TO THE CONTRACTOR PRIOR TO THE DAMAGES OCCURRING PROVIDING THE ENGINEER DETERMINES THE CONTRACTOR HAS OTHERWISE FULLY COMPLIED WITH THE 5. SPECIFICATIONS.
- IT IS THE OBLIGATION OF THE CONTRACTOR TO MAKE HIS OWN INTERPRETATION OF ALL SURFACE AND SUBSURFACE DATA AS TO THE NATURE AND EXTENT OF THE MATERIALS TO BE EXCAVATED. THE INFORMATION SHOWN ON THESE PLANS AND SPECIFICATIONS DOES 6. NOT IN ANY WAY GUARANTEE THE AMOUNT OR NATURE OF THE MATERIAL WHICH MAY BE ENCOUNTERED.
- ALL REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO ASTM C76, CLASS III. MINIMUM PIPE DIAMETER SHALL BE 15". PIPE 7. JOINTS SHALL BE MADE BY USE OF A CONTINUOUS TYPE II OR III RUBBER GASKET CONFORMING TO THE REQUIREMENTS OF ASTM
- FILL SHALL CONSIST OF SUITABLE MATERIALS WHICH ARE GENERALLY COMPOSED OF SANDS, CLAY-SAND MIXTURES, AND SILT-SAND MIXTURES AND ARE FREE OF ROOTS, TRASH, AND OTHER DELETERIOUS MATERIAL. CLAYS, SILTS, AND ORGANIC SOILS SHALL BE CONSIDERED AS UNSUITABLE MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND FURNISHING THE BORROW MATERIAL NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT. BORROW MATERIAL SHALL BE CAPABLE OF BEING SHAPED AND COMPACTED TO THE REQUIRED
- DURING CONSTRUCTION IN THE AREA OF AN INTERSECTION, WORK WILL BE PERFORMED IN SUCH A MANNER AS TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNAGE SHALL BE INSTALLED, AS DIRECTED BY THE ENGINEER, TO ALLOW TRAFFIC TO FLOW AS FREELY AS POSSIBLE. WHEN AN INTERSECTION IS INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL TRAFFIC. ALL TRAFFIC CONTROL DEVICES AND METHODS SHALL BE PER THE
- 10. A COMPLETE PERMIT SET OF PLANS MUST BE KEPT ON SITE AT ALL TIMES.
- PROTECTION OF EXCAVATED AREAS: TEMPORARY FENCING SHALL BE USED AROUND OPEN EXCAVATIONS AT ALL TIMES, EXCEPT AS 9. NECESSARY FOR IMMEDIATE CONSTRUCTION. WHEN WORK IS NOT IN PROGRESS, FENCING SHALL ENCLOSE EXCAVATED AREAS. UTILITY TRENCHES SHALL BE BACKFILLED TO GRADE AT THE END OF THE DAY, ALLOWING FOR A MAXIMUM OF 10' (FENCE-PROTECTED) TRENCH TO REMAIN OPEN.
- 12. THE CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
- 13. LABORATORY COMPACTION, STABILITY AND DENSITY TESTS ARE REQUIRED FOR THE PAVEMENT WITH COMPRESSION FOR THE 11. CONCRETE CURB AND GUTTFR
- 14. CONSTRUCTION WILL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN THE STATE OF GEORGIA.
- BE IN ACCORDANCE WITH MUTCD SPECIFICATIONS LATEST EDITION. SELECT FILL SHALL BE USED IN ALL DRIVEWAYS TO BE LOCATED IN THE CITY'S R/W AND THE FILL SHALL BE COMPACTED TO 100%

THERMOPLASTIC PAVEMENT MARKINGS ARE REQUIRED WITHIN RIGHT OF WAY. ALL ROAD SIGNAGE AND PAVEMENT MARKINGS SHALL

- STANDARD PROCTOR (ASTM D 698).
- 17. TRAFFIC SIGNS INSTALLED INSIDE THE PUBLIC R/W MUST HAVE HIGH INTENSITY OR DIAMOND GRADE SHEETING.
- GDOT PERMIT IS REQUIRED IF ANY WORK IS PROPOSED IN A STATE OR US ROUTE. A COPY OF THE GEORGIA DOT ENCROACHMENT PERMIT 15. APPROVAL PRIOR TO OBTAINING A LAND DISTURBANCE PERMIT.
- AT LEAST TWO BENCHMARKS SHALL BE ESTABLISHED WITHIN A SUBDIVISION. SUCH BENCHMARKS SHALL BE AT OPPOSITE CORNERS OF THE 16. PROPERTY BEING SUBDIVIDED.
- GREENBELT REQUIRED AS A BUFFER BETWEEN INCOMPATIBLE ZONINGS.
- MINIMUM STREET PROFILE GRADE IS 0.3%.
- PAVEMENT REQUIREMENTS: STANDARD PAVEMENT 6.0 INCHES CRUSHED STONE BASE AND 2 INCHES ASPHALT WEARING SURFACE IN ACCORDANCE WITH CITY OF POOLER STANDARD DETAILS. HEAVY DUTY CONCRETE PAVEMENT - 8" OF 4,000 PSI CONCRETE, 6"X6" WELDED WIRE 20. ALL WATER AND SEWER LINES RUNNING UNDER STREETS/SIDEWALKS SHALL BE SLEEVED. AND 8" SAND CLAY GRANULAR SOIL OR 6" GAB
- 23. ALL PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL ITEMS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MUTCD ON BOTH PUBLIC STREETS AND PRIVATE STREETS THAT ARE "OPEN TO PUBLIC TRAVEL"
- 24. IN CASE OF CONFLICT BETWEEN THESE PLANS AND THE CITY OF POOLER'S ORDINANCES, STANDARDS, SPECIFICATIONS OR DETAILS, THE CITY OF POOLER STANDARDS ARE TO TAKE PRECEDENCE.
- 25. LABORATORY COMPACTION, STABILITY AND DENSITY TESTS ARE REQUIRED FOR THE PAVEMENT WITH COMPRESSION FOR THE CONCRETE CURB
- 26. CONSTRUCTION WILL BE PERFORMED UNDER THE SUPERVISION OF A REGISTERED ENGINEER.
- 27. ALL ROAD SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH MUTCD SPECIFICATIONS.
- 28. THERMOPLASTIC PAVEMENT MARKINGS ARE REQUIRED WITHIN THE RIGHT OF WAY.
- 29. SELECT FILL SHALL BE USE IN ALL ROADS TO BE DEDICATED TO THE CITY. 30. ROAD FILL SHALL BE COMPACTED TO 100% STANDARD PROCTOR OR 95% MODIFIED PROCTOR (ASTM D698 OR ASTM D1557)
- 31 STREET NAME SIGNS SHALL BE PROVIDED BY THE DEVELOPER
- 32. TRAFFIC SIGNS INSTALLED INSIDE PUBLIC R/W MUST HAVE HIGH INTENSITY OR DIAMOND GRADE SHEETING
- THE OWNER MUST CERTIFY THAT ALL LAND DISTURBING AND DEVELOPMENT ACTIVITIES WILL BE COMPLETED IN ACCORDANCE WITH THE 8. APPROVED STORMWATER MANAGEMENT DESIGN PLAN.
- THE DESIGNER MUST CERTIFY THAT THE DESIGN MEETS THE REQUIREMENTS OF THE CITY OF POOLER AND THE LATEST EDITION OF THE COASTAL 9. STORMWATER SUPPLEMENT TO THE GEORGIA STORMWATER MANAGEMENT MANUAL, AND ANY RELEVANT LOCAL ADDENDA.
- 35. EXCAVATIONS
  - a. NO PERSON SHALL REMOVE, DIG, EXCAVATE, BORE UNDER, TRENCH, PLOW OR DESTROY ANY PORTION OF ANY SIDEWALK, PUBLIC WAY, 11. PIPE MATERIAL: FOR LINE SIZE < 4" POLYETHYLENE PIPE, 200 PSI, SIDR-7CTS RIGHT-OF-WAY AND/OR ROAD, FOR ANY PURPOSE OTHER THAN FOR EMERGENCY UTILITY REPAIRS OR LAYING WATER MAINS, STORM DRAINS OR SANITARY SEWER UNDER THE SUPERVISION AND CONTROL OF THE CITY, WITHOUT FIRST OBTAINING A PERMIT FROM THE
  - IS SCHEDULED TO BEGIN. THE COST OF OBTAINING A PERMIT SHALL BE AS SET FORTH IN THE SCHEDULE OF FEES AND CHARGES. PERMITS CAN BE OBTAINED FROM THE PUBLIC WORKS DEPARTMENT AND/OR THE CITY DESIGNEE
  - IF THERE IS ANY CONFLICT IN THE INTERPRETATION OF REGULATIONS REGARDING EXCAVATION OF UTILITIES, THE INTERPRETATION OF THE CITY OF POOLER SHALL GOVERN

#### PRECONSTRUCTION AND CLOSEOUT REQUIREMENTS: ALL PROJECTS CONSTRUCTED WITHIN THE CITY LIMITS OF POOLER AND/OR CONNECTING TO THE CITY OF POOLER WATER

- AND SEWER SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF POOLER STANDARD SPECIFICATIONS. NO EXCEPTIONS SHALL BE MADE FOR PRIVATELY MAINTAINED SYSTEMS.
- PLANE COORDINATES HORINZONTAL DATUM AND SHALL BE BASED ON US SURVEY FEET. PRIOR TO BEGINNING OF CONSTRUCTION A PRE-CONSTRUCTION CONFERENCE WILL BE SCHEDULED AND SHALL BE
- ATTENDED BY THE ENGINEER OF RECORD OR OTHER OWNER'S REPRESENTATIVES, THE CONTRACTOR, AND CITY

ALL PROJECTS SHALL BE TIED TO AND SHALL BE COMPLETED ON THE NAVD 1988 VERTICAL DATUM AND THE NAD 83 STATE

- RECORD DRAWINGS OF THE APPROVED CONSTRUCTION PLANS IN THE FOLLOWING FORMAT SHALL BE DELIVERED TO THE 9. CITY BY THE OWNER'S REPRESENTATIVE IN THE REQUIRED COORDINATE SYSTEM.
  - a. (1) SET ON REPRODUCIBLE MYLAR b. (2) SETS ON BOND
  - c. (1) COMPLETE SET OF DIGITAL RECORD DRAWINGS ON AUTOCAD FILE AND PDF
- (1) ORIGINAL LETTER, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA, CERTIFYING THE PROJECT HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE CITY.
- (3) COPIES OF ALL WARRANTIES, BONDS, AND OPERATION MANUALS SHALL BE SUBMITTED TO THE CITY.
- (3) COPIES OF RECORDED PLATS SHOWING ALL REQUIRED ROW AND.OR EASEMENTS FOR PUBLIC AND/OR PRIVATE STREETS, DRAINAGE, UTILITIES, ANF/OR FACILITIES SHALL BE SUBMITTED TO THE CITY.

- THE PIPES, FITTINGS, VALVES AND OTHER ACCESSORIES SHALL, UNLESS OTHERWISE DIRECTED, BE UNLOADED AT THE POINT OF DELIVERY, AND STORED WHERE THEY WILL BE PROTECTED AND WILL NOT BE HAZARDOUS TO TRAFFIC. THEY SHALL AT ALL TIMES BE HANDLED WITH CARE TO AVOID DAMAGE. THE INTERIOR OF ALL PIPE, FITTINGS AND OTHER ACCESSORIES SHALL BE
- KEPT FREE FROM ALL FOREIGN MATTER AT ALL TIMES. ANY DEFECTIVE, DAMAGED, OR UNSOUND PIPES SHALL BE REJECTED. ALL FOREIGN MATTER SHALL BE REMOVED FROM THE INSIDE OF THE PIPE BEFORE IT IS LOWERED INTO ITS POSITION IN THE TRENCH AND IT SHALL BE KEPT CLEAN BY APPROVED MEANS DURING AND AFTER LAYING. CARE SHALL BE TAKEN TO PREVENT FOREIGN MATTER FROM ENTERING THE JOINT SPACE.

AT TIMES WHEN PIPE LAYING IS NOT IN PROGRESS, THE OPEN ENDS OF THE PIPE SHALL BE PLUGGED OR CAPPED BY APPROVED

- MEANS TO FORM A WATER TIGHT SEAL. NO TRENCH WATER SHALL BE PERMITTED TO ENTER THE PIPE. ALL WET TAPS SHALL INCLUDE TAPPING SADDLES, SLEEVES, VALVES AND VALVE BOXES OR MANHOLES AS NOTED ON UTILITIES SHEET. ALL EXCAVATION, PROVIDING AND INSTALLING OF TAPPING SLEEVE, TAPPING VALVE IN A MANHOLE, THRUST RESISTANCE BLOCKS/TIE-RODS/MEGALUGS, BACKFILL, COMPRESSOR, MANPOWER, ETC. WILL BE PROVIDED BY THE CONTRACTOR. THE DEVELOPER/CONTRACTOR IS TO COORDINATE THE WET TAP WITH THE CITY OF POOLER PUBLIC WORKS
- TAPPING SLEEVES SHALL BE MECHANICAL JOINT TYPE, MUELLER NO. H-615, CLOW F-5205, OR APPROVED EQUAL. TAPPING VALVES SHALL BE MECHANICAL JOINT TYPE GATE VALVES, MUELLER NO 667, CLOW F-5093, OR APPROVED EQUAL.
- GATE VALVES SHALL BE AMERICAN, WATEROUS, OR EQUAL AND SHALL BE FURNISHED WITH STANDARD OPERATING NUTS. BALL VALVES 2" AND SMALLER SHALL BE DESIGNED FOR A WORKING PRESSURE OF NOT LESS THAN 300 PSI, DOMESTIC MADE BRASS, AND SHALL CONFORM TO AWWA C 800-89.
- FIRE HYDRANTS SHALL BE 5-1/4" MINIMUM AMERICAN DARLING, MUELLER, M&H, OR APPROVED EQUAL AND SHALL CONFORM TO AWWA C502.

#### WATER MAINS. FLUSHING WATER AND SUPER CHLORINATED WATER WILL BE DISPOSED OF BY A METHOD APPROVED BY THE ENGINEER. CHLORINATED DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE EXISTING OR PROPOSED STORM DRAINAGE SYSTEMS

CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS IN ADVANCE OF ANY DISINFECTION AND FLUSHING OF NEWLY CONSTRUCTED

- A. FLUSHING WATER MAY BE DISCHARGED INTO THE SANITARY SEWER SYSTEM AFTER BEING FILTERED OF LARGE SOLIDS AND SEDIMENT UNDER THE SUPERVISION OF THE ENGINEER.
- B. FLUSHING PROCEDURES SHALL INCLUDE OPEN-ENDED FLUSHING IN ORDER TO INSURE THE LINE IS CLEAR. FLUSH NEW PIPE LINES UNTIL THE WATER RUNS CLEAR AT THE END OF ALL MAINS AND LATERALS. THIS SHALL BE DONE AFTER PRESSURE TEST AND BEFORE DISINFECTION
- D. THE LINES SHALL BE FLUSHED USING A METHOD ACCEPTABLE TO THE CITY PRIOR TO CONNECTION TO THE WATER SYSTEM. LINES SHALL BE FLUSHED FOR 30 MINUTES AT A VELOCITY SUFFICIENT TO PURGE THE LINES OF ANY FOREIGN MATTER
- CLEAN THE INTERIOR OF ALL PIPE BY BRUSHING, SWABBING, OR WASHING OUT ALL DIRT BEFORE LAYING.
- ALL WATER USED FOR CONSTRUCTION SHALL BE METERED THROUGH AN APPROVED BACK FLOW PREVENTION DEVICE AND FIRE
- PRIOR TO CONNECTING TO ANY EXISTING WATER MAINS, REUSE MAINS, OR SANITARY SEWER LINES AND PRIOR TO DIGGING FOR PROPOSED CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY OWNER A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO DIGGING.
- AN APPROVED WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT, SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON THE SITE.
- ALL MATERIALS USED AND THAT 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 SANITARY FOUNDATION STANDARD 61 (ANSI/NSF STANDARD 61).
- MAINTAIN A MINIMUM OF 36" OF COVER FOR ALL MAINS 12" AND SMALLER. A MAXIMUM COVER OF 60" FROM FINISHED GRADE SHALL BE USED UNLESS APPROVED TO AVOID CONFLICT. IF THE COVER IS LESS THAN 36", DUCTILE IRON PIPE SHALL BE USED.
- ALL PHASES OF CONSTRUCTION OF THE WATER SYSTEM SHALL COMPLY WITH THE GA EPD RULES FOR SAFE DRINKING WATER,
- CHAPTER 391-3-5 AND THE LATEST EDITION OF THE EPD MINIMUM STANDARDS FOR PUBLIC WATER SYSTEMS. MAXIMUM JOINT DEFLECTION AND BENDING OF PVC PIPE SHALL NOT EXCEED MANUFACTURER'S SPECIFICATIONS AND
- INSTALLATION RECOMMENDATIONS
- A #12 GAUGE SOLID COPPER TRACING WIRE SHALL BE INSTALLED ON ALL WATER MAINS, WATER LATERALS, FIRE HYDRANTS, POST HYDRANTS, AND/OR BLOW OFFS AND ALONG ALL SANITARY SEWER LINES, LATERALS, AND FORCE MAINS.
- UNDERGROUND MARKING TAPE SHALL BE INSTALLED OVER ALL WATER MAINS (18" BELOW GRADE)
- 17. UTILITIES SHALL NOT BE PLACED LONGITUDINALLY UNDER STREET PAVEMENT.
- 18. MAINTAIN A MINIMUM OF 10' SEPARATION HORIZONTAL AND 18" VERTICAL BETWEEN WATER & SEWER LINES.
- 19. WATER MAINS MUST BE DIP WHEN CROSSING STORM OR SEWER MAINS.
- ALL PUBLICLY OWNED UTILITIES SHALL BE INSTALLED IN THE ROAD RIGHTS-OF-WAY OR APPROVED ACCESS EASEMENTS
- SANITARY SEWER, WATER MAINS, SERVICE LATERALS OR OTHER PUBLICLY OWNED UTILITIES SHALL NOT BE INSTALLED BEHIND OR BETWEEN LOTS WITHOUT THE EXPRESS APPROVAL OF THE CITY OF POOLER. IF ALLOWED THE UTILITY WILL NEED TO BE IN A PROPER EASEMENT.
- ALL PUBLIC FIRE HYDRANTS SHALL BE PAINTED YELLOW.
  - RESIDENTIAL WATER LATERALS: 1" DIAMETER MINIMUM.

DISINFECTION AND FLUSHING WATER MAINS:

- RESIDENTIAL WATER LATERALS SHALL BE INSTALLED NO MORE THAN 5' FEET FROM THE PROPERTY CORNER.
- THE WATER MAINS AT THE CUL-DE-SAC SHALL BE INSTALLED AROUND THE CUL-DE-SAC THEREBY ELIMINATING THE LATERALS FROM BEING
- CUT-OFF VALVES WILL BE LOCATED AT ALL TEES WHERE LINES ARE TWO INCHES OR LARGER.
- ALL GATE VALVES 4" OR LARGER THAT ARE INSTALLED ON A TRANSMISSION LINE SHALL BE INSTALLED IN A MANHOLE. ALL GATE VALVES AT THE ENTRANCE OF A SUBDIVISION THAT TIE INTO A TRANSMISSION LINE SHALL BE INSTALLED IN A MANHOLE. ALL OTHER GATE VALVES CAN BE INSTALLED IN A CAST IRON VALVE BOX WITH A CONCRETE COLLAR AND CONCRETE VALVE MARKER POSTS.
- ALL VALVES SHALL HAVE A CONCRETE MONUMENT WITH 'I W/VALVE" INSCRIBED ON TWO SIDES OF THE MONUMENT, INSTALLED NO MORE THAN 6" AWAY FROM THE VALVE.
- ALL METER CONNECTION POINTS MUST HAVE AN APPROVED, REDUCED PRESSURE BACKFLOW DEVICE. THIS INCLUDES FIRE LINES, IRRIGATION LINES. AND DOMESTIC SUPPLY LINES.
- MAINTAIN A MINIMUM OF 3 FEET OF COVER.
- SERVICE LATERALS UNDER ROADS ARE TO BE SLEEVED AND AT LEAST 30" BENEATH THE ROAD SURFACE.
- FOR LINE SIZE 4" 12" PVC C900 DR 18
  - FOR LINE SIZE > 12" DIP IS REQUIRED. ANSI / AWWA C151 A21.51 AND THICKNESS ACCORDING TO ANSI / AWWA C150 A21.50 FOR PRESSURE CLASS 250. FLANGE PIPE OR VICTAULIC GROOVED PIPE SHALL BE PRESSURE CLASS 350.

#### b. PERMITS SHALL BE APPLIED FOR NOT LESS THAN 72 HOURS, NOT INCLUDING WEEKENDS AND/OR HOLIDAYS, BEFORE ANY EXCAVATION **SANITARY SEWER:**

- SANITARY MANHOLES SHALL NOT EXCEED 350-FOOT SPACING.
- PIPE DIAMETER SHALL BE A MINIMUM OF 8 INCHES.
- MINIMUM SIZE OF SANITARY LATERAL IS 4 INCHES.
- LATERALS SHALL CONNECT DIRECTLY TO THE MANHOLE WHEN POSSIBLE, ENTERING AT AN ANGLE OF AT LEAST 90 DEGREES TO THE
- RESIDENTIAL SEWER LATERALS SHALL BE INSTALLED WITHIN 15 FEET OF THE PROPERTY CORNER.
- SANITARY SEWER CLEANOUTS SHALL BE FLOOD PROOFED AND DESIGNED TO PREVENT INFILTRATION OF FLOOD WATERS INTO THE SYSTEM. USE WATERTIGHT MANHOLE RINGS AND COVERS WITHIN OR BELOW BASE FLOOD ELEVATION + 1'.
- CLEANOUTS SHALL BE PROVIDED EVERY 100' AND AT THE BENDS. CLEANOUTS LOCATED WITHIN THE PAVEMENT SHALL BE TRAFFIC RATED.
- MANHOLES SHALL NOT BE PLACED IN SIDEWALKS UNLESS APPROVED BY THE CITY OF POOLER. PIPF MATERIAL:
- SDR 26 PVC SEWER PIPE MEETING THE REQUIREMENTS OF ASTM D3034 FOR PIPES 15" AND SMALLER AND ASTM F679 FOR 18" AND LARGER. DIP MANUFACTURED IN ACCORDANCE WITH ANSI A21.51 WITH THICKNESS ACCORDING TO ANSI A21.50.
- MAINTAIN A MINIMUM COVER OF 3 FEET.
- DROP MANHOLES ARE REQUIRED WHEN THE 'INVERT IN' IS 2.0 FEET OR MORE ABOVE THE 'INVERT OUT'. THE MH MUST BE A 6' DIAMETER PRECAST MH AND CONFORM TO ASTM C478. THE DROP PIPE SHALL BE THE SAME SIZE AS THE INFLUENT PIPE. ALL HARDWARE ON DUCTILE IRON PIPING ASSOCIATED WITH DROP MANHOLES MUST BE STAINLESS STEEL
- SANITARY SEWER LINE MINIMUM SLOPE:

42" 0.04%

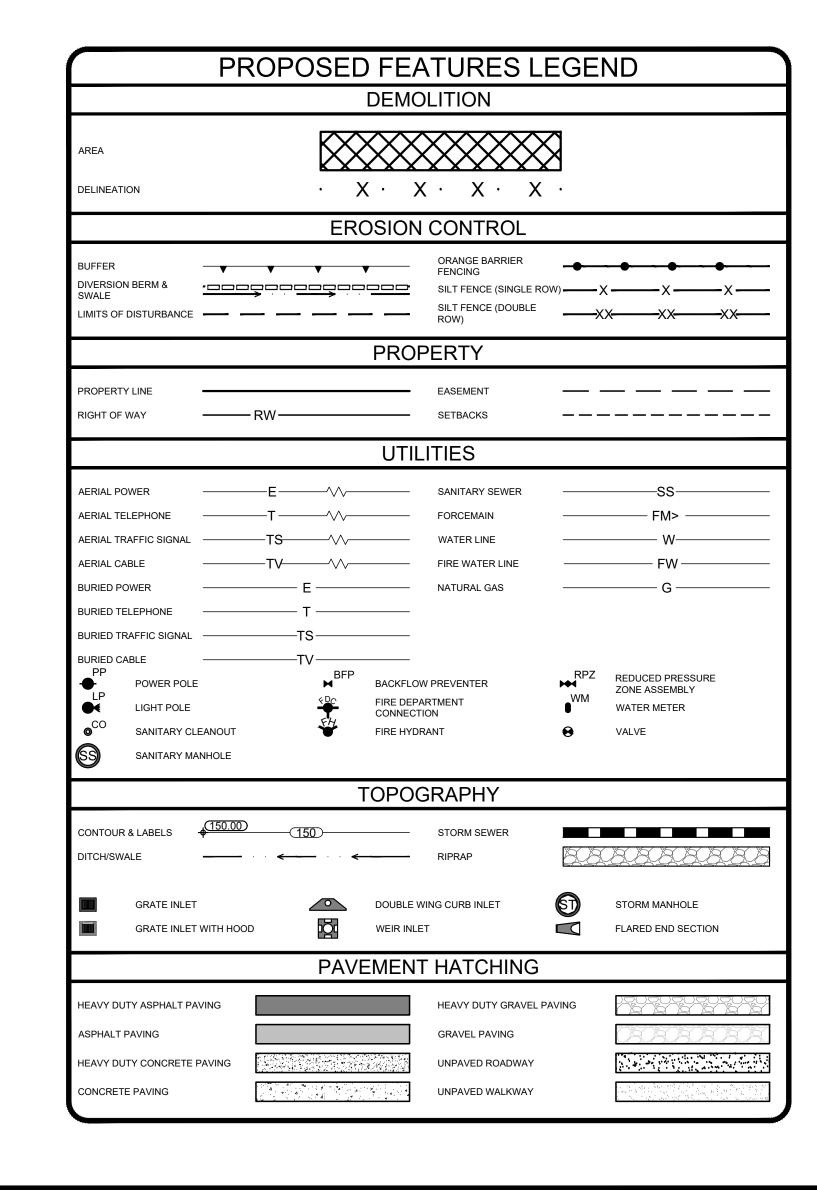
1.00% IO" 0.28% 24" 0.08% 12" 0.22% 27" 0.07% 30" 0.06% 14" 0.17% 0.15% 33" 0.05% 16" 0.14% 36" 0.05%

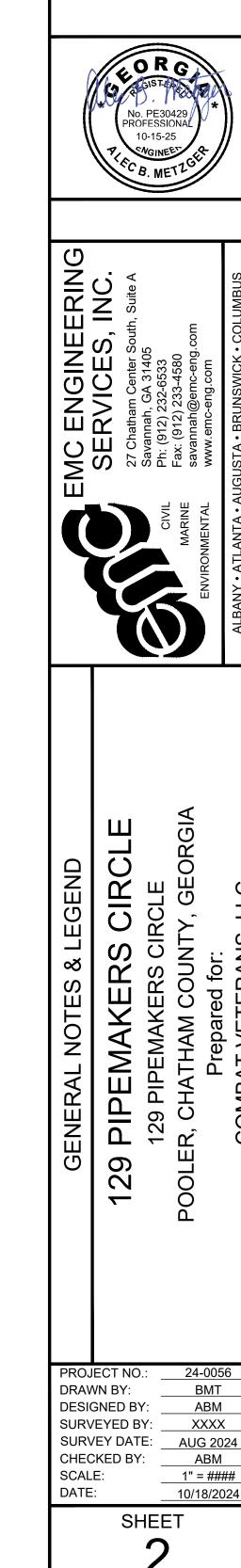
18" 0.12%

#### **DRAINAGE NOTES:**

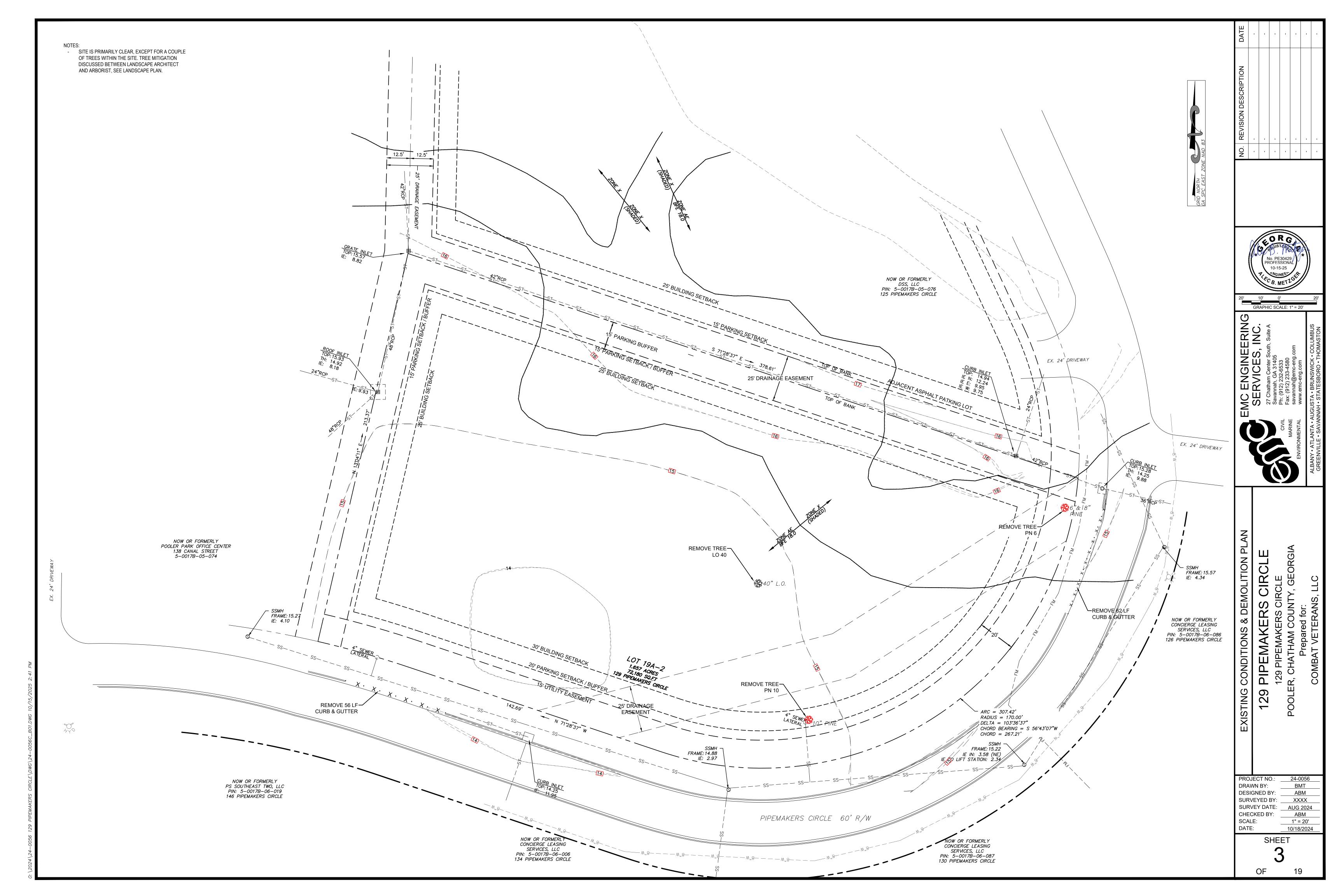
- 1. STORM DRAIN PIPE BENEATH CITY MAINTAINED STREETS SHALL BE A MINIMUM OF 18 INCHES IN DIAMETER AND SHALL BE RCP (CLASS III).
- STORM SIDE-DRAIN UNDER DRIVEWAYS AND WALKWAYS SHALL BE 15 INCH MINIMUM. PLASTIC CULVERTS ARE ACCEPTABLE BUT SHALL HAVE CONCRETE HEADWALLS TO PROTECT THE PIPE ENDS.
- 3. LOT DRAINAGE SHALL BE FROM THE REAR TO THE FRONT OF LOTS; 0.5% GRADE MINIMUM. EXCEPTIONS WILL BE CONSIDERED.
- SIDE LOT DRAINAGE SHALL BE PIPED; DITCHES ON SIDE LOT LINES ARE NOT PERMITTED. EXCEPTIONS WILL BE CONSIDERED.
- MINIMUM LOT ELEVATION: FINISHED FLOOR ELEVATIONS SHALL BE AT LEAST ONE FOOT ABOVE THE LEVEL OF THE IOC-YEAR FLOOD. THE
- 6. THE CITY WILL NOT ACCEPT DETENTION AREAS FOR MAINTENANCE OR OWNERSHIP.

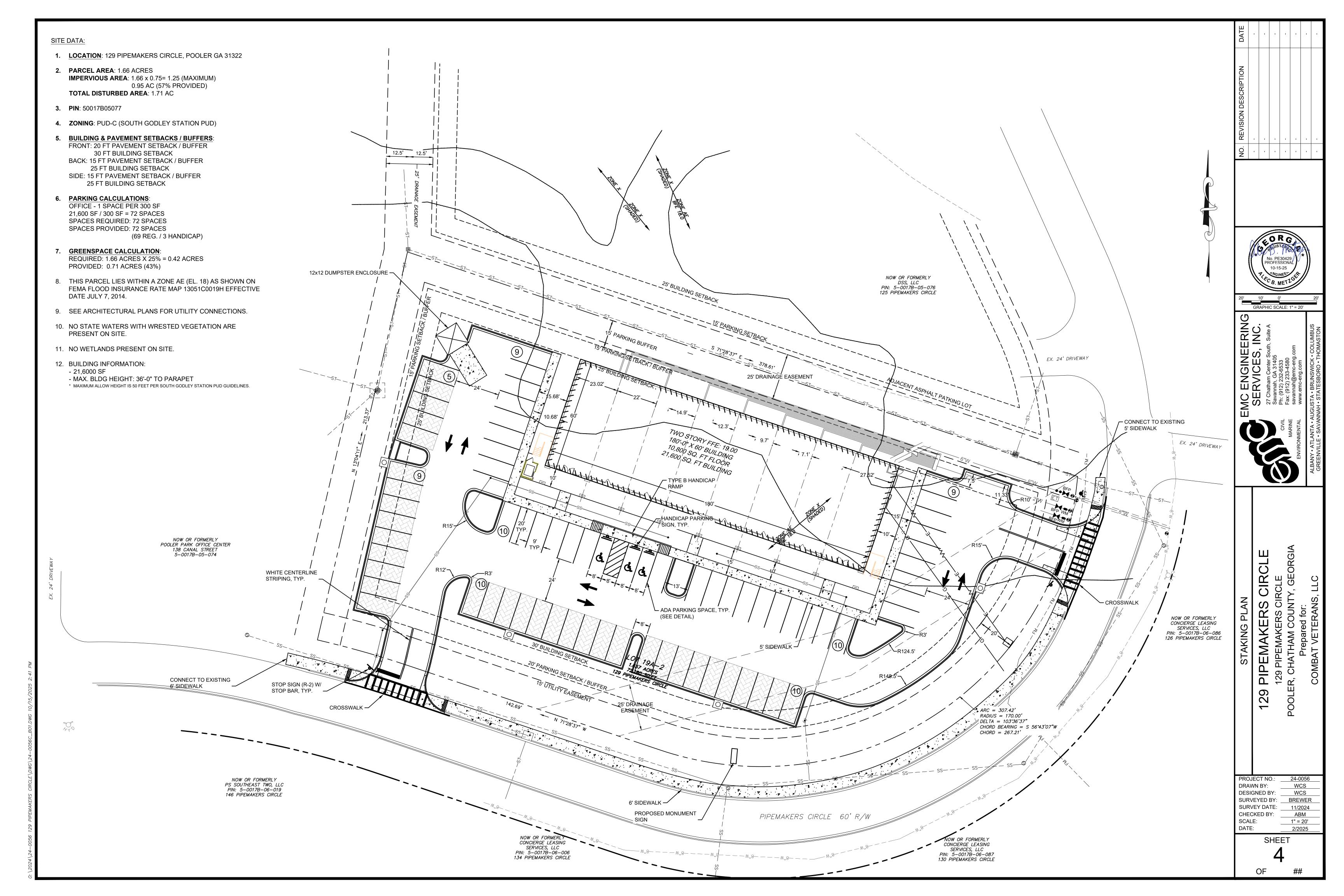
ENTIRE LOT SHALL BE PROPERLY DRAINED.

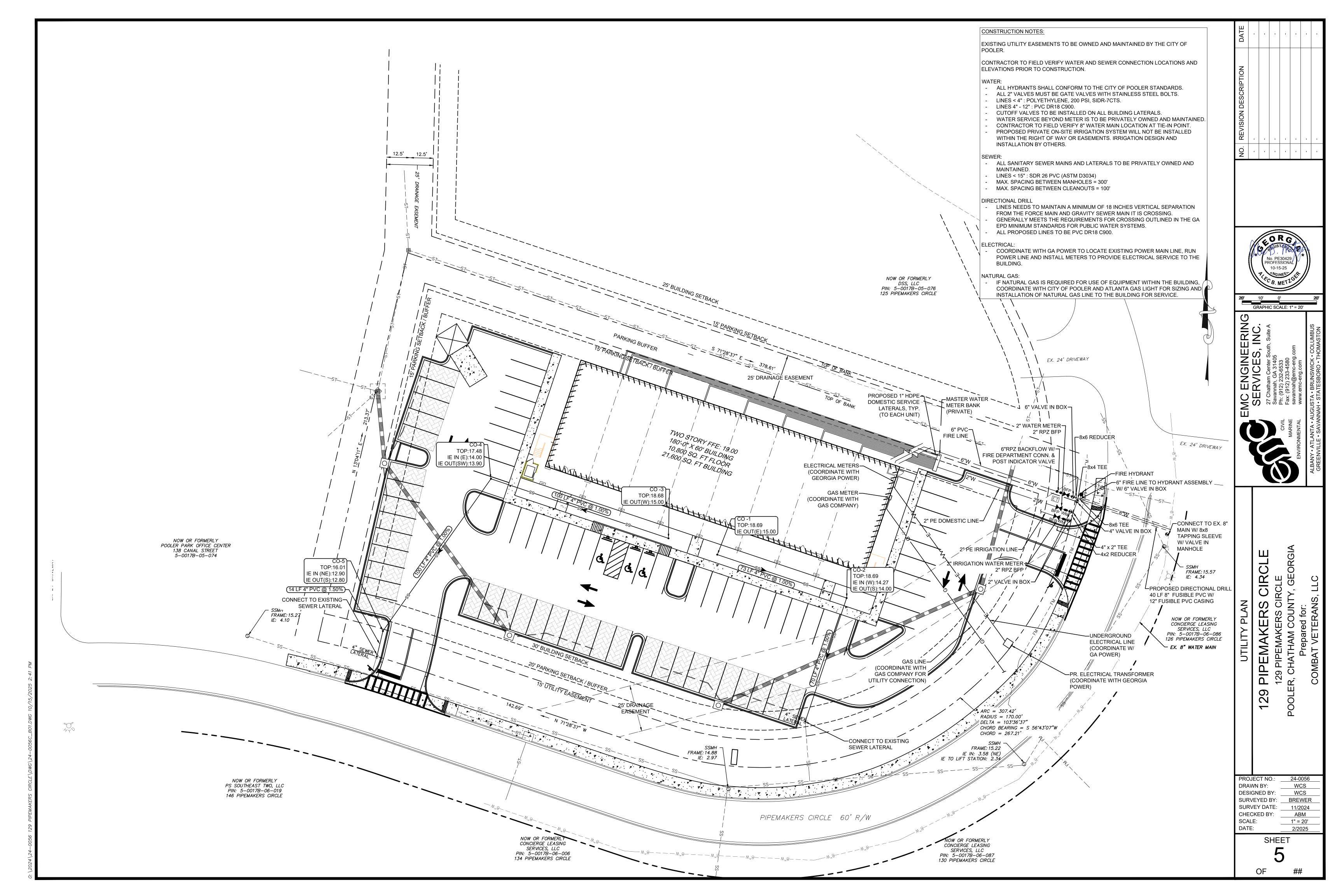


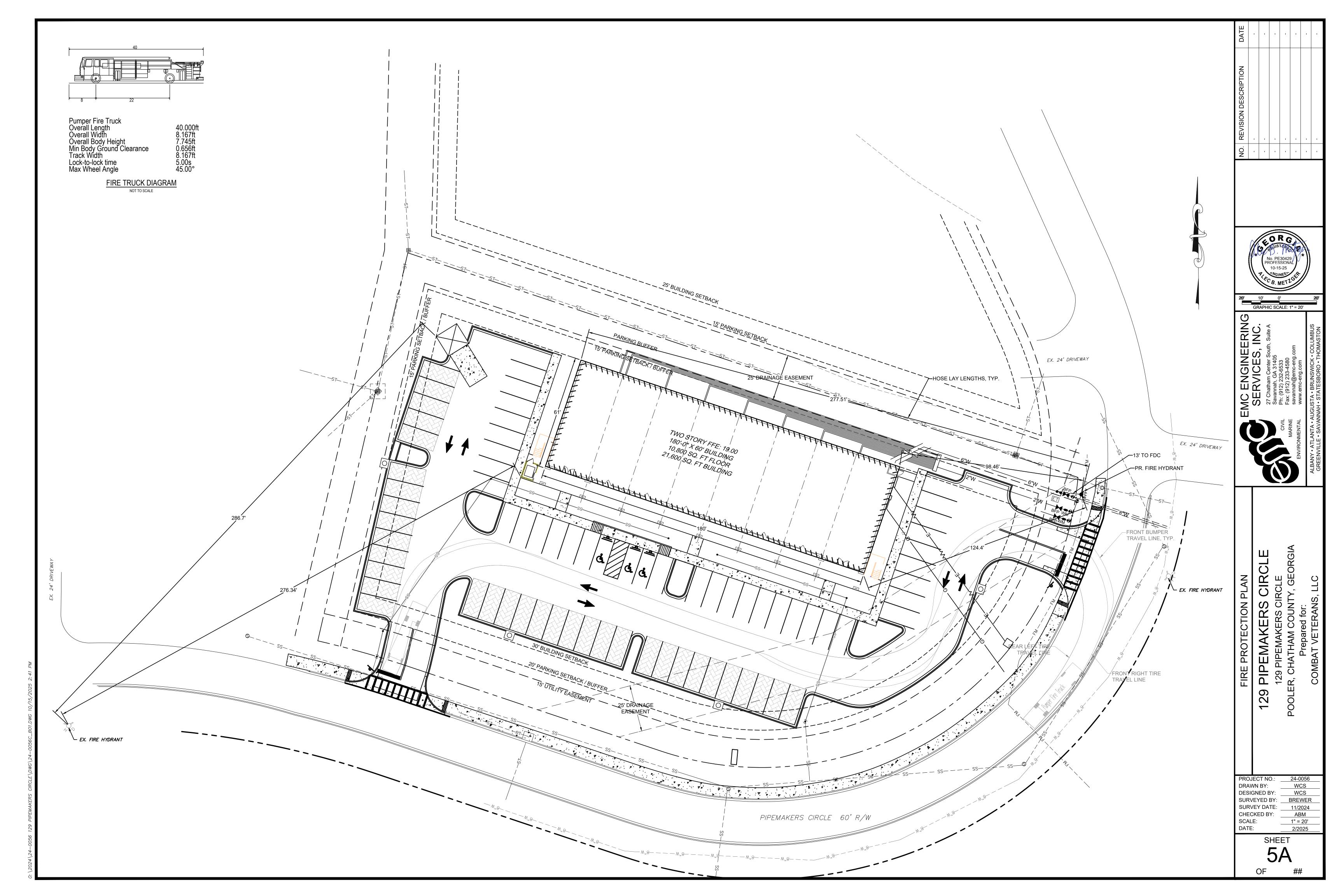


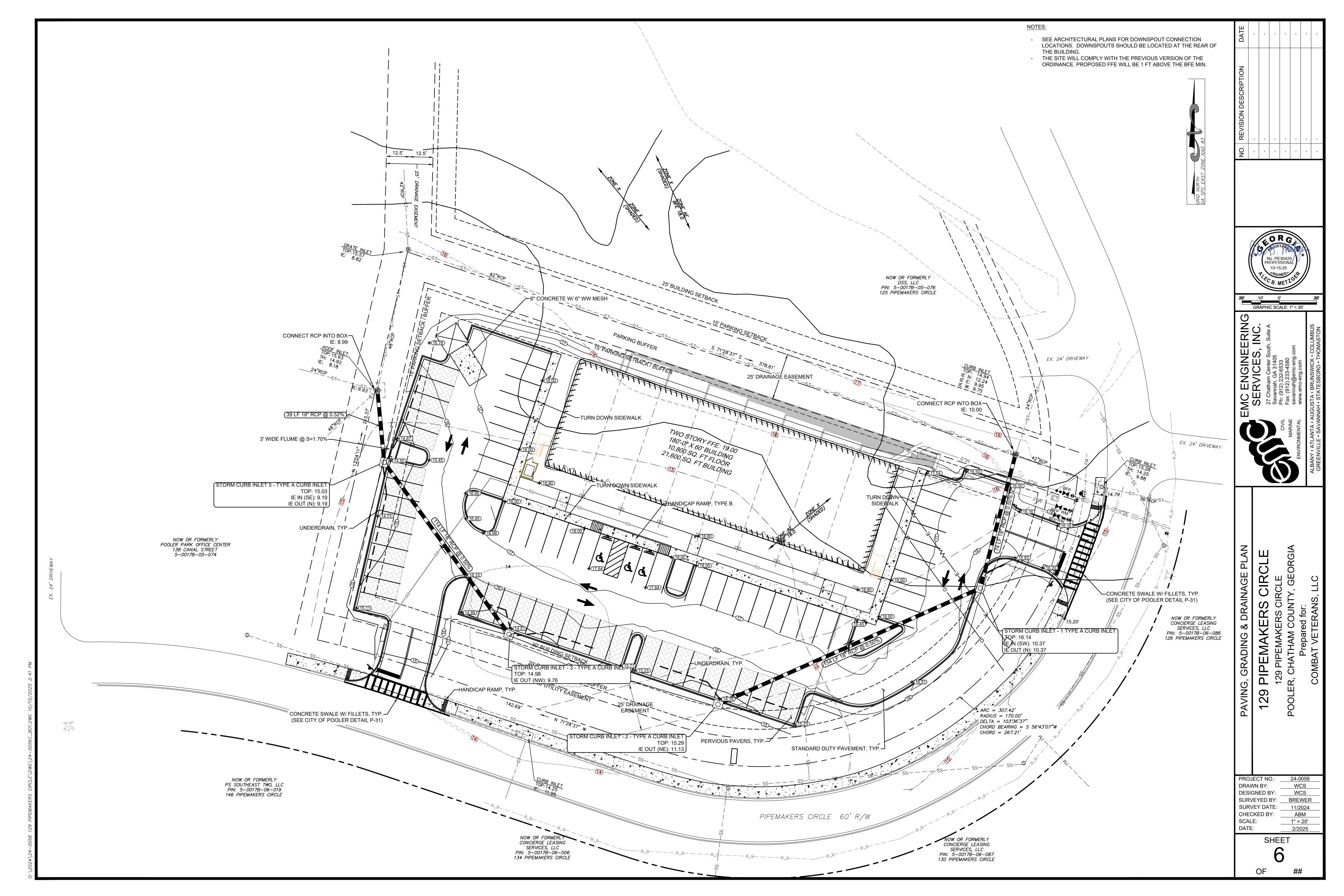
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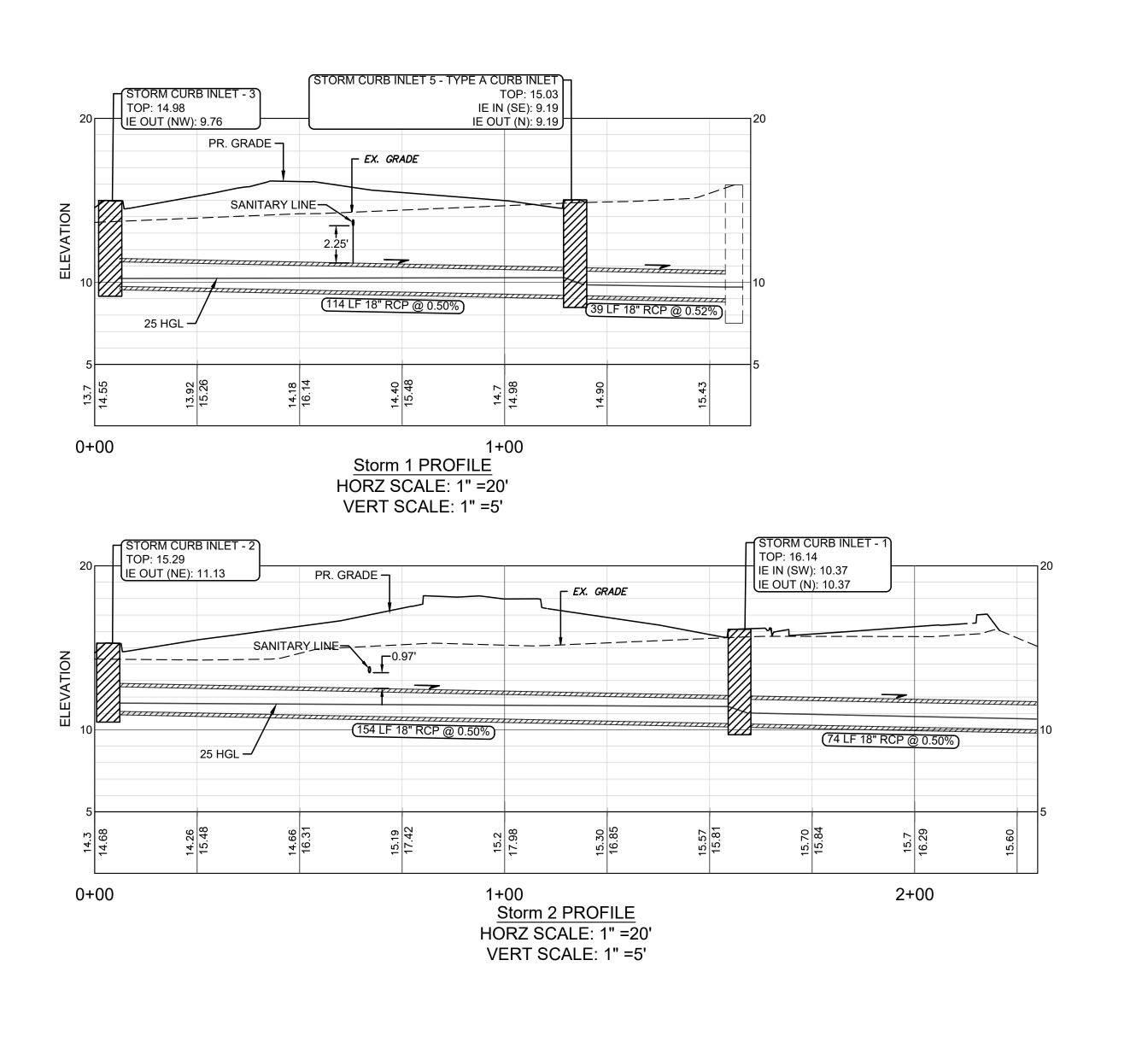












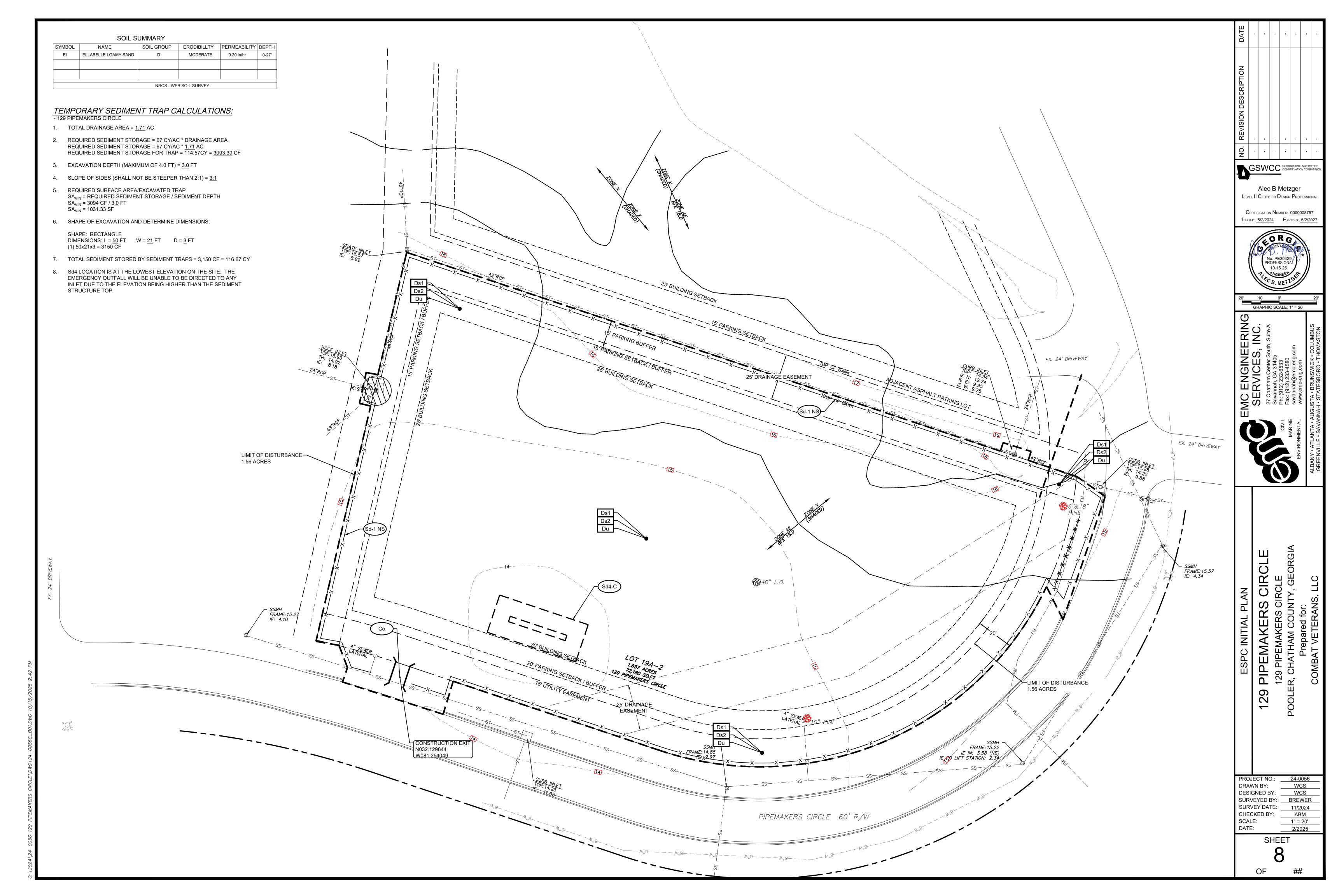
20" 10' 0' GRAPHIC SCALE: 1" = 20'

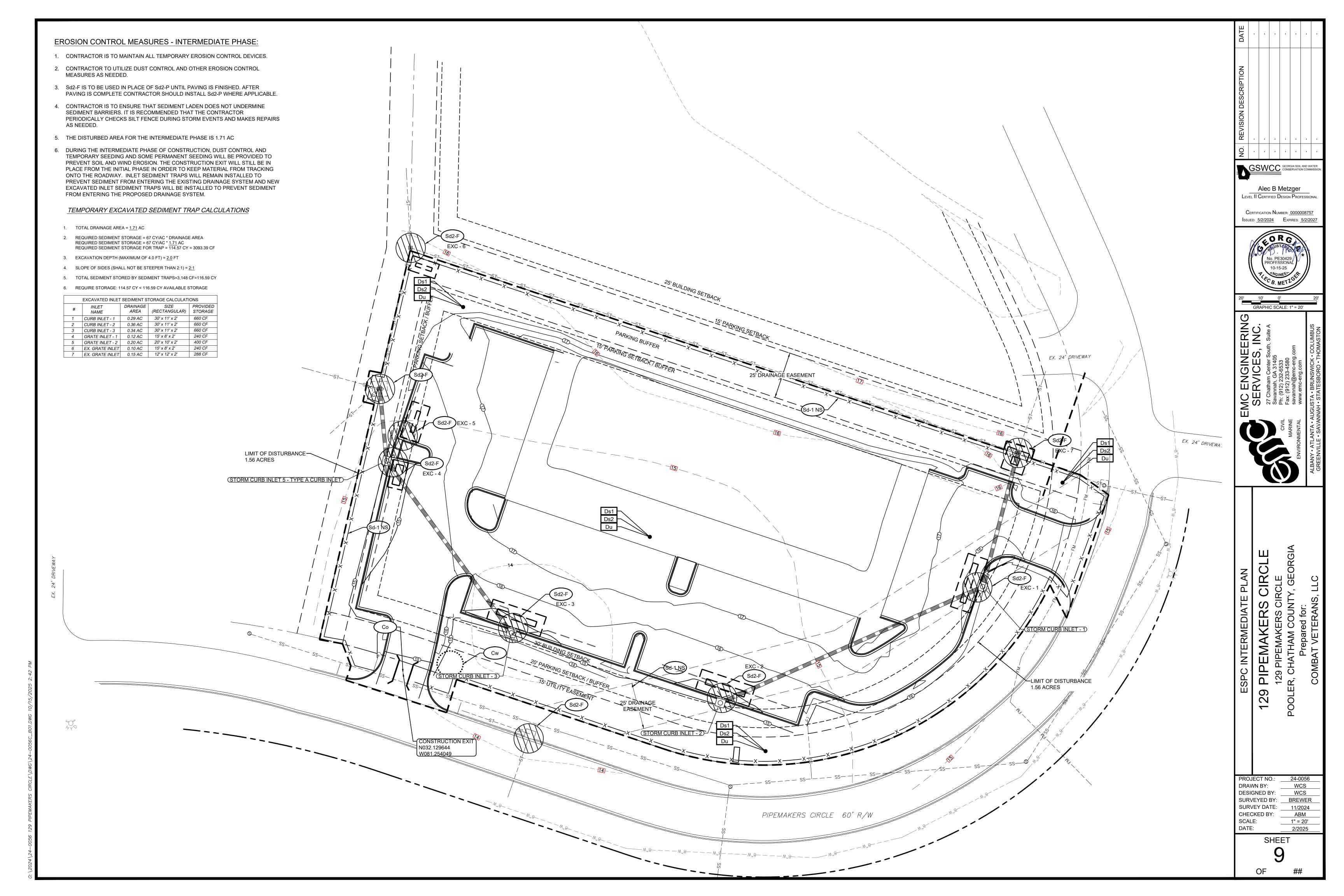
STORM DRAINAGE PROFILES

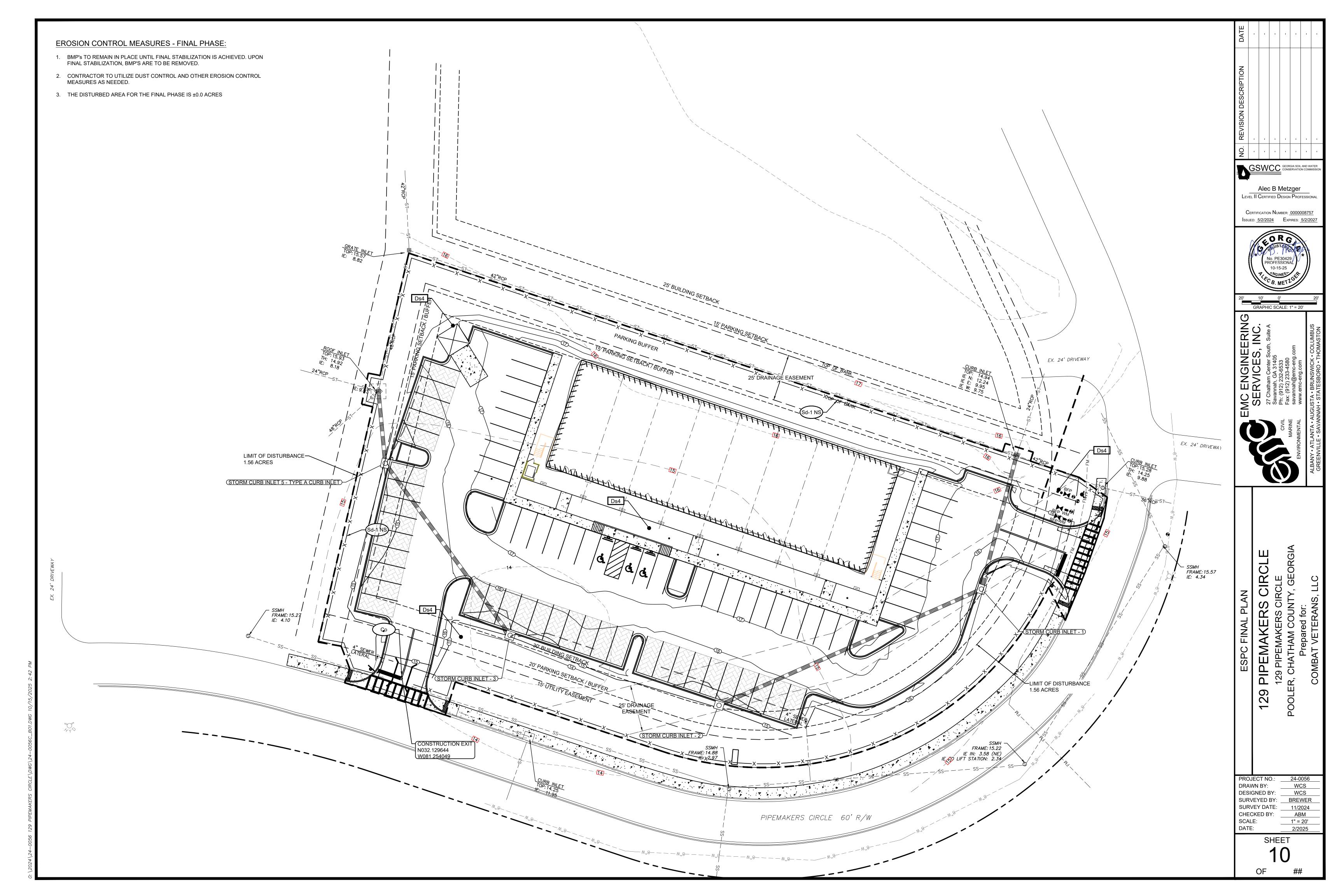
129 PIPEMAKERS CIRCLE
POOLER, CHATHAM COUNTY, GEORGIA
Prepared for:
COMBAT VETERANS, LLC

PROJECT NO.:
DRAWN BY:
DESIGNED BY:
SURVEYED BY:
SURVEY DATE:
CHECKED BY:
SCALE:
DATE: 24-0056
WCS
WCS
: BREWER
: 11/2024
ABM
1" = 20'
2/2025

SHEET









CERTIFICATION #

YES 28. DESCRIPTION OF THE PRACTICES THAT WILL BE USED TO REDUCE THE POLLUTANTS IN STORM WATER DISCHARGES.\*

HAZARDOUS WASTE - 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 SORTED AND/OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESPCP FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS 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 (SCCC) PLAN FOUND WITHIN THE ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS 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 STORMWATER. IT 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 WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE UNITS WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. 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 PLAN BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

FERTILIZER/HERBICIDE - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPEC. OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

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 MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

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

WASTE MATERIALS - ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. 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.

WASTE MATERIAL SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. THE STORM WATER DETENTION FACILITY AND PERMANENT BMPS SHALL HELP PREVENT ANY POLLUTANTS, THAT MAY HAVE DISCHARGED INTO THE STORM DRAINAGE SYSTEM, FROM ESCAPING THE SITE.

YES 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).

#### TENTATIVE ACTIVITY SCHEDULE

ACTIVITY	10M	NTH	1-2	2	М	ONTH	1 3-	· 4	М	ONTH	H 5-	-6	N	MONT	Ή 7-	-8
INITIAL BMP'S (Co,Sd1,Tree Protection)																
CLEARING & GRUBBING, DEMO																
UTILITY & STORM DRAINAGE INSTALLATION																
INTERMEDIATE BMP'S (Sd2-F, Cd,St)																
DUST CONTROL, MULCHING, TEMP. SEED.																
BUILDING CONSTRUCTION																
PAVING, CURB & GUTTER, SIDEWALKS																
FINAL BMP'S (Sd2-Bg)						_										
PERMANENT SEEDING																
MAINTENANCE OF ES&PC BMPs																

YES 30. PROVIDE COMPLETE REQUIREMENTS OF INSPECTIONS AND RECORD KEEPING BY THE PRIMARY PERMITTEE OR TERTIARY PERMITTEE.\*

INSPECTIONS AND RECORD KEEPING: CONSTRUCTION ACTIVITIES WILL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS. RULES. AND REGULATIONS. CONSTRUCTION SITE MUST BE INSPECTED DAILY, WEEKLY, AND MONTHLY BY CERTIFIED PERSONNEL. RECORDS OF INSPECTIONS MUST BE KEPT IN ACCORDANCE WITH PART IV.D.4.A OF THE GENERAL PERMIT.

#### PRIMARY PERMITTEE REQUIREMENTS

- A. EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKE PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNELPROVIDED 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.
- 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.
- C. CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) 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 5:00PM 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.
- D. 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 RECEIVED BY 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
- 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.
- F. 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 PROJECT 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 CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PAR V.G.2. OF THIS

Alec B Metzger LEVEL II CERTIFIED DESIGN PROFESSIONAL

Certification Number: 0000008757 ISSUED: <u>5/2/2024</u> EXPIRES: <u>5/2/2027</u>



GRAPHIC SCALE: 1" = ####

M

PROJECT NO.: 24-0056 DRAWN BY: WCS DESIGNED BY: WCS SURVEYED BY: BREWER SURVEY DATE: 11/2024 CHECKED BY: ABM

SCALE:

DATE:

1" = #### 2/2025 SHEET

12 YES 33. DESCRIPTION OF ANALYTICAL METHODS TO BE USED TO COLLECT AND ANALYZE THE SAMPLES FROM EACH LOCATION. ALL SAMPLING SHALL BE COMPLETED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH

> THE UPSTREAM SAMPLE MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY, BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY.

THE DOWNSTREAM SAMPLE MUST BE TAKEN DOWNSTREAM OF CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY,

BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. IDEALLY THE SAMPLE SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE STORM WATER OUTFALL CHANNEL. CARE SHOULD BE

COLLECTING THE SAMPLE. IT SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM. F. THE SAMPLE SHOULD BE KEPT FREE FROM FLOATING DEBRIS.

\*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.

SITE FLOW CHARACTERISTICS AND SAMPLING LOCATION: STORM WATER RUNOFF SHALL SHEET FLOW ACROSS THE PROPERTY AND BE COLLECTED BY INLETS. STORM WATER COLLECTED BY INLETS WILL THEN BE CONVEYED VIA STORM DRAINAGE PIPING AND DISCHARGED INTO THE DETENTION POND. TURBIDITY SAMPLES SHALL BE TAKEN AT THE DISCHARGE POINT.

12 YES 34. APPENDIX B RATIONALE FOR NTU VALUES AT ALL OUTFALL SAMPLING POINTS WHERE APPLICABLE.\*

SAMPLE ANALYSIS: STORM WATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT BOTH OUTFALL 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 AT EITHER LOCATION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN GENERAL PERMIT. THE NTU IS BASED UPON THE DISTURBED ACREAGE FOR EACH BASIN'S RESPECTIVE OUTFALL LOCATION, 8.43 AC AND 3.77 AC, WHICH MAKE UP THE TOTAL PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF 0.013 AND 0.005-SQUARE MILES FOR DRAINAGE BASINS A AND B RESPECTIVELY, AND THE RECEIVING WATER: AN UNNAMED TRIBUTARY OF CULVERT SWAMP, WHICH

9-10 YES 35. DELINEATE ALL SAMPLING LOCATIONS ON ALL PHASES OF THE PLAN, PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES INTO WHICH STORM WATER IS DISCHARGED.\*

12 YES 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.\*

> FOR THE INITIAL PHASE ONLY THE PERIMETER SILT FENCE & CONSTRUCTION EXIT SHALL BE INSTALLED. ONCE CLEARING/GRUBBING & DEMOLITION HAS OCCURRED ROUGH GRADING SHALL BEGIN. FOR THE INTERMEDIATE PHASE INSTALLATION OF THE STORM DRAINAGE SYSTEM AND MASS GRADING SHALL COMMENCE. ALL INLET AND OUTLET PROTECTION FOR THE STORM DRAINAGE SYSTEM SHALL BE INSTALLED. DUST CONTROL, MULCHING, AND TEMP. SEEDING SHALL BE UTILIZED AS NEEDED. THEN BUILDING CONSTRUCTION WILL BEGIN. FOR THE FINAL PHASE ALL PAVING, CURB & GUTTER, AND WALKWAYS SHALL BE INSTALLED. INLET PROTECTION AND PERIMETER SILT FENCING SHALL REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ACHIEVED ON THE PROJECT SITE.

8-10 YES 37. GRAPHIC SCALE AND NORTH ARROW.

38. EXISTING AND PROPOSED CONTOUR LINES WITH CONTOUR LINES DRAWN AT AN INTERVAL IN ACCORDANCE WITH THE FOLLOWING

Map Scale	Ground Slope	Contour Intervals, ft.
1 inch = 100ft or	Flat 0 - 2%	0.5 or 1
larger scale	Rolling 2 - 8%	1 or 2
	Steep 8% +	2,5 or 10

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 EPD OR THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION). PLEASE REFER TO THE ALTERNATIVE BMP GUIDANCE DOCUMENT FOUND AT WWW.GASWCC.ORG.

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.

N/A YES 41. 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.

THIS DOES NOT APPLY TO THIS PROJECT.

42. DELINEATION OF ON-SITE WETLANDS AND ALL STATE WATERS LOCATED ON AND WITHIN 200 FEET OF THE PROJECT SITE. THIS DOES NOT APPLY TO THIS PROJECT.

HYDRO YES

43. DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS ON THE PROJECT SITE.

45. AN ESTIMATE OF THE RUNOFF COEFFICIENT OR PEAK DISCHARGE FLOW OF THE SITE PRIOR TO AND AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED. FOR SOLAR FARM PROJECTS, POST-CONSTRUCTION IMPERVIOUS AREA SHALL BE CALCULATED AS

70% OF TOTAL SOLAR PANEL SQUARE FOOTAGE.

44. PROVIDE HYDROLOGY STUDY AND MAPS OF DRAINAGE BASINS FOR BOTH PRE AND POST-DEVELOPMENT CONDITIONS.

STORM DRAIN PIPE AND WEIR VELOCITIES WITH APPROPRIATE OUTLET PROTECTION TO ACCOMMODATE DISCHARGES WITHOUT EROSION IDENTIFY/DELINEATE ALL STORM WATER DISCHARGE POINTS.

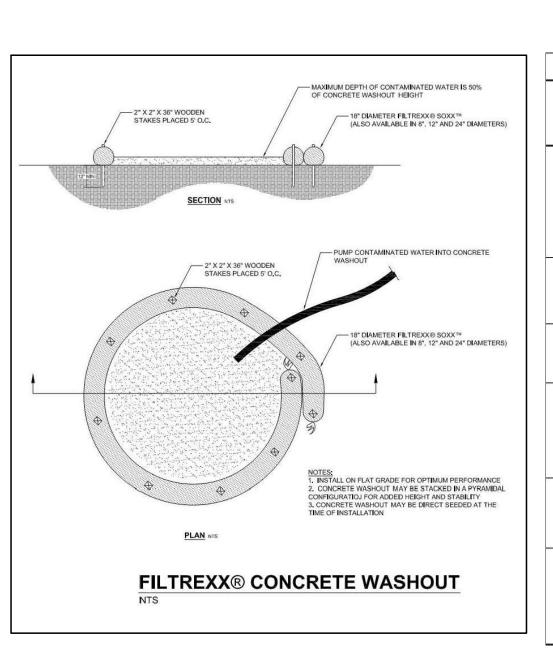
8-10 YES 48. THE LIMITS OF DISTURBANCE FOR EACH PHASE OF CONSTRUCTION.

47. SOIL SERIES FOR THE PROJECT SITE AND THEIR DELINEATION.

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

#### SËDIMENT STORAGE NOTE:

BASIN IS 1.56-ACRES. THE REQUIRED SEDIMENT STORAGE VOLUME FOR THIS ACREAGE IS 104.5 CY. THE SEDIMENT WILL BE TRAPPED BY THE EXCAVATED INLETS. TEMPORARY SEDIMENT TRAPS WILL BE USED FOR SEDIMENT STORAGE DURING THE INITIAL PHASE. ANY BYPASS WILL BE CAPTURED BY THE PERIMETER SILT FENCE. SEE SEDIMENT STORAGE CALCULATIONS BELOW FOR VOLUME REQUIRED < VOLUME PROVIDED.



Grass	Varieties	Resource Area	Growing Season
Bermudagrass	Common Tifway Tifgreen Tiflawn	M-L,P,C P,C P,C P,C	warm weather
Bahiagrass	Bahiagrass Pensacola		
Centipede	I	P,C	warm weather
St. Augustine	Common Bitterblue Raleigh	С	warm weather
Zoysia	Emerald Myer	P,C	warm weather
Tall Fescue	Kentucky	M-L,P	cool weather

Table 6-6.2 Sod Planting Requirements

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.

#### GEORGIA UNIFORM CODING SYSTEM **ESPC STRUCTURAL PRACTICES**

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
CO	CONSTRUCTION EXIT		(LABEL)	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
CW	CONCRETE WASH AREAS		CW	LOCATION TO BE DETERMIND IN FIELD, USED TO CONTROL WASH DOWN OF CONCRETE TOOLS AND DRUM. TRUCK WASH OUT IS PROHIBITED.
Sd1	SEDIMENT BARRIER		(INDICATE TYPE)	A BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT MAY BE SANDBAGS, BALES OF STRAW OR HAY, BRUSH, LOGS AND POLES, OR A SILT FENCE.
Sd2	INLET SEDIMENT TRAP	*		A TEMPORARY PROTECTIVE DEVICE FORMED AT OR AROUND AN INLET TO A STORM DRAIN TO TRAP SEDIMENT.
Sd4	TEMPORARY SEDIMENT TRAP			A SMALL TEMPORARY POND THAT DRAINS A DISTURBED AREA SO THAT SEDIMENT CAN SETTLE OUT. THE PRINCIPLE FEATURE DISTINGUISHING A TEMPORARY SEDIMENT TRAP FROM A TEMPORARY SEDIMENT BASIN IS THE LACK OF A PIPE OR RISER.
				ODINIO OVOTENA

#### GEORGIA UNIFORM CODING SYSTEM ESPC VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDLINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)		Ds2	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	K, M, G, W, W	Ds3	ESTABLISHING A PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON DISTURBED AREAS.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODABLE OR CRITICALLY ERODED LANDS.
Du	DUST CONTROL ON DISTURBED AREAS	(a)	Du	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.

PROVIDE DETAILED DRAWINGS FOR ALL STRUCTURAL PRACTICES. SPECIFICATIONS MUST, AT A MINIMUM, MEET THE GUIDELINES SET FORT 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 WILL TAKE PLACE AND FOR THE APPROPRIATE GEOGRAPHIC REGION OF GEORGIA.

SEEDING, FERTILIZER, LIME AND MULCHING RATES. VEGETATIVE PLAN SHALL BE SITE SPECIFIC FOR APPROPRIATE TIME OF YEAR THAT

#### TEMPORARY AND PERMANENT SEEDING SCHEDULE

	SEEDING -			PORARY & PERMANE		-
		RATE PE			RATE PE	
MONTH	TEMPORARY COVER	SEEDED	ADDED	PERMANENT COVER	SEEDED	ADDED
		ALONE	TO MIX		ALONE	TO MIX
JANUARY	RYEGRASS	40 LBS	_	UNHULLED BERMUDA	10 LBS	6 LBS
	RYE	3 BU	0.5 BU	SERLCEA LESPEDEZA (1)	75 LBS	L <u> </u>
FEBRUARY	ANNUAL LESPEDEZA	40 LBS	10 LBS	UNHULLED BERMUDA	10 LBS	6 LBS
	RYEGRASS	40 LBS	_	SERLCEA LESPEDEZA (1)	75 LBS	_
	RYE	3 BU	0.5 BU			
MARCH	WEEPING LOVEGRASS	4 LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS
	ANNUAL LESPEDEZA	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS
				SERLCEA LESPEDEZA (2)	60 LBS	_
APRIL	WEEPING LOVEGRASS	4 LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS
	SUDON GRASS	60 LBS	<del>-</del>	WEEPING LOVEGRASS	4 LBS	2 LBS
	BROWN TOP MILLET	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS
MAY	WEEPING LOVEGRASS	4 LBS	2 LBS	PENSACOLA BAHIA	60 LBS	30 LBS
	SUDON GRASS	60 LBS		WEEPING LOVEGRASS	4 LBS	2 LBS
	BROWN TOP MILLET	40 LBS	10 LBS	HULLED BERMUDA	10 LBS	6 LBS
	PEARL MILLET	50 LBS		SERLCEA LESPEDEZA (2)	60 LBS	
JUNE	PEARL MILLET	50 LBS		PENSACOLA BAHIA	60 LBS	30 LBS
	SUDON GRASS	60 LBS	_	HULLED BERMUDA	10 LBS	6 LBS
	BROWN TOP MILLET	40 LBS	10 LBS			
JULY	PEARL MILLET	50 LBS		PENSACOLA BAHIA	60 LBS	30 LBS
	SUDON GRASS	60 LBS				-
	BROWN TOP MILLET	40 LBS	10 LBS			
AUGUST	PEARL MILLET	50 LBS		PENSACOLA BAHIA	60 LBS	30 LBS
	RYE	3 BU	0.5 BU			-
SEPTEMBER	RYEGRASS	40 LBS	_	SERLCEA LESPEDEZA (1)	75 LBS	_
	OATS	4 BU	1 BU			-
	WHEAT	, 3 BU	0.5 BU	i i		-
OCTOBER	WHEAT	3 BU	0.5 BU	SERLCEA LESPEDEZA (1)	75 LBS	_
	RYEGRASS	40 LBS	_			-
	RYE	3 BU	0.5 BU			-
	BARLEY	3 BU	0.5 BU			-
	OATS	4 BU	1 BU			-
NOVEMBER	SAME AS OCTOBER		1 - 1 - 1	UNHULLED BERMUDA	10 LBS	6 LBS
DECEMBER	SAME AS OCTOBER			UNHULLED BERMUDA	10 LBS	6 LBS

UNSCARIFIED

season

SCARIFIED

CENTIPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THRU OCTOBER.

4. LISTED IN THE ORDER OF PREFERENCE. 5. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED.

RATE OF 35 POUNDS PER 1,000 SQUARE FEET, RAKING LIGHTLY INTO THE SOIL

APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. THE AGRICULTURAL LIME SHALL MEET THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.

1. FERTILIZING - APPLY 6-12-12 FERTILIZER AT THE

3. DRY STAW SHALL BE APPLIED AT THE RATE OF 2

Fertilizer Requirements for Sod								
Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)				
cool season grasses	first second maintenance	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100 - 30				
warm	firet	6-12-12	1500	50-100				

grasses maintenance 10-10-10 400

second 6-12-12 800 50-100

Table 6-6.3

TONS PER ACRE AND DRY HAY SHALL BE	APPLIE
AT A RATE OF 2.5 TONS PER ACRE.	
WATER IMMEDIATLEY AFTER MULCHING.	

DRAWN BY: DESIGNED BY: SURVEYED BY: SURVEY DATE: CHECKED BY: SCALE: DATE:

EMAKEI

2/2025 SHEET

Alec B Metzger

LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION NUMBER: 0000008757

Issued: <u>5/2/2024</u> Expires: <u>5/2/2027</u>

GRAPHIC SCALE: 1" = ####

WCS

WCS

BREWER

11/2024

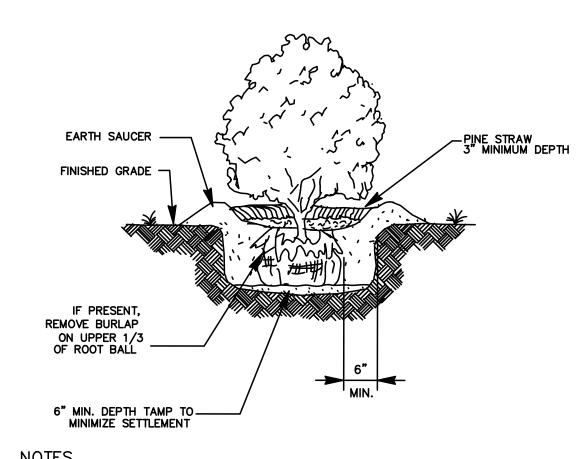
1" = ####

#### LANDSCAPE NOTES:

- 1. ALL DISTURBED AREAS NOT COVERED BY STRUCTURES, PAVING, OR LANDSCAPING SHALL BE GRASSED BY BERMUDA SOD/SEED. OWNER WILL DETERMINE EXTENT OF SODDING VS. SEEDING. THE CONTRACTOR WILL UTILIZE EXISTING GRASS WHENEVER POSSIBLE.
- 2. ALL PLANT BEDS SHALL BE MULCHED WITH 3" OF PINE STRAW.
- 3. NO TREES SHALL BE PLANTED WITHIN 10 FEET OF ANY UNDERGROUND UTILITY LINE OR STORM DRAIN. LANDSCAPE CONTRACTOR SHALL VERIFY LOCATION OF UTILITIES PRIOR TO BEGINNING PLANT INSTALLATION. LANDSCAPE ARCHITECT TO APPROVE ALL REVISIONS TO PLANT LOCATIONS. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY UTILITY LINES DAMAGED DURING PLANTING.
- 4. SEE DETAILS ON THIS SHEET FOR SHRUB AND TREE INSTALLATION.
- 5. TOP SOIL SHALL BE ADDED TO WITHIN 1" OF TOP OF CURB / EDGE OF PAVEMENT.
- 6. AN UNDERGROUND IRRIGATION SYSTEM, IF INSTALLED, SHALL COMPLY WITH ALL THE REQUIREMENTS AND REGULATIONS OF THE CITY AND ALSO COMPLY WITH THE LATEST NATIONAL ELECTRIC CODE RULES FOR ALL ELECTRIC WORKS AND MATERIALS.
- 7. QUANTITIES ARE SHOWN FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR HIS/HER OWN TAKEOFF.
- 8. ALL PROPOSED TREES SHALL MEET THE SPECIFICATIONS OF AMERICAN ASSOCIATION OF NURSERYMAN STANDARD FOR NURSERY STOCK
- THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND PLANT MATERIAL TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE PROJECT. CONTRACTOR SHALL REPLACE ANY PLANT MATERIAL FOUND TO BE DEFECTIVE WITHIN THE PERIOD OF GUARANTEE AT NO COST TO THE OWNER, EXCEPT REPAIRS OR REPLACEMENT NECESSITATED BY DAMAGE BY OTHERS OR DIEBACK DUE TO INSUFFICIENT IRRIGATION/WATERING SCHEDULE.

CODE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY	REMARKS
TREES						
AB	ACER BARBATUM	SOUTHERN SUGAR MAPLE	2"-2.5" CAL.	AS SHOWN	2	
IAS	ILEX X ATTENUATA 'SAVANNAH'	SAVANNAH HOLLY	2" CAL.	AS SHOWN	4	TREE-FORM
JVB	JUNIPERUS VIRGINIANA 'BRODIE'	BRODIE EASTERN REDCEDAR	2" CAL.	15' O.C.	8	
LT	LIRIODENDRON TULIPIFERA	TULIP POPLAR	2"-2.5" CAL.	AS SHOWN	4	
QV	QUERCUS VIRGINIANA	SOUTHERN LIVE OAK	6" CAL.	AS SHOWN	4	USED FOR TREE MITIGATION
UAP	ULMUS AMERICANA 'PRINCETON'	PRINCETON AMERICAN ELM	2"-2.5" CAL.	AS SHOWN	3	
SHRUB CJ	S CLEYERA JAPONICA	JAPANESE CLEYERA	7 GAL.	5' O.C.	6	
ICC	ILEX CORNUTA 'CARISSA'	CARISSA CHINESE HOLLY	3 GAL.	3' O.C.	38	
IGS	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	3 GAL.	3' O.C.	40	
IVS	ILEX VOMITORIA 'SCHILLINGS DWARF'	SCHILLINGS DWARF YAUPON HOLLY	3 GAL.	3.5' O.C.	35	
MSG	MISCANTHUS SINENSIS 'GRACILLIMUS'	MAIDEN GRASS	3 GAL.	4' O.C.	6	
PMP	PODOCARPUS MACROPHYLLUS 'PRINGLES'	PRINGLES DWARF YEW PODOCARPUS	3 GAL.	3' O.C.	54	
VS	VIBURNUM SUSPENSUM	SANDANKWA VIBURNUM	5 GAL.	4' O.C.	42	
	·	•	•		•	•
	ID COVERS	1	T			
HH	HEMEROCALLIS HYBRIDA	EVERGREEN DAYLILY	1 GAL.	2' O.C.	22	RED/YELLOW FLOWER
LMB	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILYTURF	1 GAL.	2' O.C.	15	

EX. 24' DRIVEWAY



TREE REQUIREMENT: 15 TREES PER 1 ACRE

25

11 (44%)

10 (40%)

4 (16%)

MITIGATION REQUIREMENT: INCHES IN DIAMETER REMOVED MUST

BE REPLACED WITH THE SAME NUMBER OF INCHES IN DIAMETER USING TREES OF THE SAME SPECIES AS THE TREE REMOVED.

40" DBH LIVE OAK TO BE REMOVED = 40" MITIGATION INCHES REQ.

NOTE: A DECREASE IN THE MITIGATION REQUIREMENT BY 50%

DUE TO TREE DECAY HAS BEEN PREVIOUSLY AGREED UPON.

REPLACEMENT TREES MUST BE MINIMUM 6" CAL.

CALIPER INCHES REQUIRED: 20" CALIPER INCHES PROVIDED: 24"

TREES REQUIRED:

TREES PROPOSED:

TREE MITIGATION:

(4) 6" LIVE OAK TREES

LARGE TREES:

MEDIUM TREES:

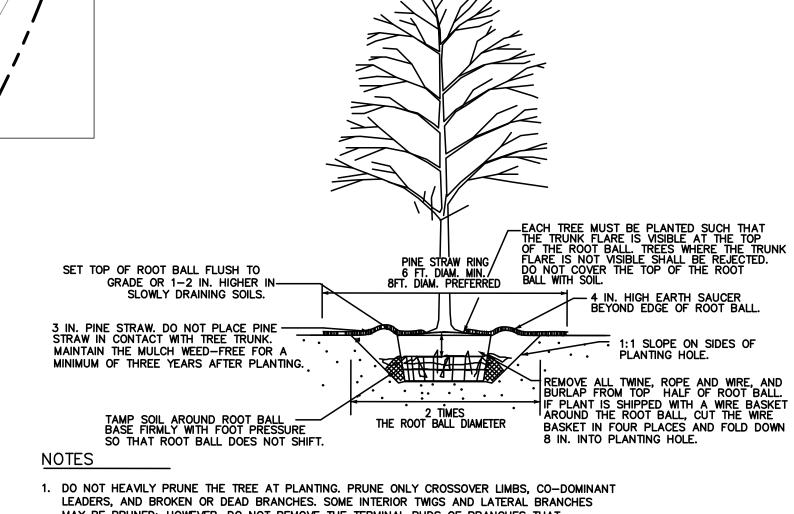
SMALL TREES:

25 (15 TREES X 1.66 AC)

NOTES

1. CLEANLY PRUNE ONLY DAMAGED, DISEASED AND OR WEAK BRANCHES IF NECESSARY. 2. FINISHED GRADE AROUND PLANT TO BE THE SAME AS ORIGINAL GRADE OF PLANT WHEN GROWN.

SHRUB PLANTING
NOT TO SCALE



MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

2. STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT (SEE STAKING DETAILS).

TREE PLANTING NOT TO SCALE

GRAPHIC SCALE: 1" = 20'

PROJECT NO.: DRAWN BY: SRT DESIGNED BY: SRT SURVEYED BY: BREWER SURVEY DATE: 11/2024 CHECKED BY: DWF SCALE: \_\_\_\_1" = 20' DATE: 06/2025

SHEET

PIPEM 6 RS CIRCLE 60' R/W

180'-O' X 60' BUILDING

10,800 SQ. FT FLOOR
21,600 SQ. FT BUILDING

#### Du DUST CONTROL ON DISTURBED AREAS

#### MATERIALS:

#### TEMPORARY METHODS

- MULCHES SEE Ds1. REFER TO SPECIFICATION TAC-TACKIFIERS FOR THE USE OF SYNTHETIC **RESIN TO BIND MULCH MATERIAL**
- VEGETATIVE COVER SEE Ds2
- SPRAY-ON ADHESIVES FOR USE ON MINERAL SOILS, NOT MUCK SOILS.
- TILLAGE DESIGNATED TO ROUGHEN AND BRING CLODS TO THE SOIL SURFACE. BEGIN PLOWING ON WINDWARD SIDE OF SITE. USE CHISEL TYPE PLOWS, SPRING TOOTHED HARROWS, OR SIMILAR PLOWS TO ACHIEVE DESIRED EFFECT. THIS IS AN EMERGENCY MEASURE TO BE USED BEFORE WIND EROSION STARTS.
- IRRIGATION SPRINKLE THE SITE WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED.
- BARRIERS USED SOLID BOARD FENCE, SNOW FENCE, BURLAP FENCE, CRATE WALLS, BALES OF HAY, OR SIMILAR MATERIAL TO CONTROL AIR CURRENTS AND SOIL BLOWING. PLACE BARRIERS AT RIGHT ANGLES AT INTERVALS OF 15x THEIR HEIGHT TO CONTROL WIND EROSION. CALCIUM CHLORIDE - APPLY AT A RATE TO KEEP THE SURFACE MOIST.

#### PERMANENT METHODS

• PERMANENT VEGETATION - SEE Ds3. EXISTING TREES AND LARGE SHRUBS MAY AFFORD

CRUSHED STONE CONSTRUCTION EXIT ©

**EXIT DIAGRAM** 

**ENTRANCE ELEVATION** 

. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND

AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).

. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'. . A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%..

. 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

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

RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES

D.MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC

AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.

DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).

INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.

. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".

- VALUABLE PROTECTION IF LEFT IN PLACE. TOPSOILING - SEE SPECIFICATION TP - TOPSOILING
- STONE COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL

#### MAINTENANCE:

- PROHIBIT TRAFFIC ON SURFACE AFTER SPRAYING.
- SUPPLEMENT SURFACE COVERING AS NEEDED.

#### \*CHEMICAL CONTROL

ENTRANCE (IF NEEDED)

N.S.A. R-2 (1.5"-3.5") COARSE AGGREGATE

GEOTEXTILE UNDERLINER -

TIRE WASHRACK AREA/

SUPPLY WATER TO WASH

CROWN FOR POSITIVE DRAINAGE.

USED TO TRAP SEDIMENT.

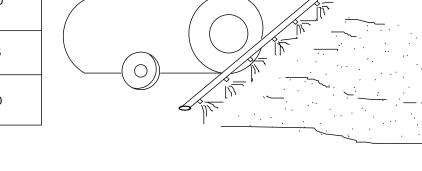
WHEELS IF NECESSARY

DIVERSION RIDGE

(SEE NOTE 6)

TIRE WASHERS

ADHESIVE	WATER DILUTION	NOZZLE	RATE (GAL/AC
ANIOIC ASPHALT EMULSION	7:1	SPRAY	1,200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN-IN- WATER EMULSION	ATER 4:1		300



HARD SURFACE PUBLIC ROAD

· SEDIMENT TRAP

(SEE NOTE 8)

- COARSE AGGREGATE

ORIGINAL

(N.S.A. R-2)

#### DISTURBED AREA STABILIZATION Ds1

# (MULCHING ONLY)

#### INSTALLATION:

- APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE.
- APPLICABLE TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER.
- MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO 6 MONTHS. APPLY AT THE APPROPRIATE DEPTH. REFER TO TABLE 1 FOR SPECIFIC MATERIALS.

#### TABLE 1: MULCHING APPLICATION REQUIREMENTS

MATERIAL	RATE	DEPTH
STRAW OR HAY	2 - 2.5 TONS/ACRE	2" TO 4"
WOOD WASTE, CHIPS, SAWDUST, BARK	-	2" TO 3"
POLYETHYLENE FILM	SECURE WITH SOIL, ANCHORS, WEIGHTS	-
GEOTEXTILES, JUTE MATTING, NETTING, ETC.	SEE MANUFACTURER'S RECOMMENDATIONS	-

#### SITE PREPARATION:

- GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH. • INSTALL NEEDED EROSION CONTROL MEASURES SUCH AS DIKES, BERMS, AND SEDIMENT
- LOOSEN COMPACTED SOIL TO A MINIMUM DEPTH OF 3".

#### APPLYING MULCH:

- APPLY DRY STRAW OR HAY AND WOOD CHIPS UNIFORMLY BY HAND OR BY MECHANICAL
- APPLY 20-30 LBS OF NITROGEN / ACRE IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION.
- APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

#### ANCHORING MULCH:

- PRESS STRAW OR HAY INTO THE SOIL WITH A DISK HARROW IMMEDIATELY AFTER APPLICATION. TACKIFIERS MAY BE USED WHEN SPREADING MULCH WITH BLOWER-TYPE EQUIPMENT.
- ANCHOR WOOD WASTE USING THE APPROPRIATE SIZE NETTING.

#### • TRENCH POLYETHYLENE AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

THE APPROPRIATE DEPTH AND 90% COVER SHALL BE MAINTAINED AT ALL TIMES.

SILT FENCE - TYPE NON-SENSITIVE

SIDE VIEW

FRONT VIEW

—— 6' MAX. O.C. ——►

FABRIC

TRENCH

## DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

#### **INSTALLATION:**

- APPLY MULCH OR TEMPORARY GRASSING TO ALL EXPOSED AREAS WITHIN 14 DAYS OF
- APPLICABLE TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN 6 MONTHS. COORDINATE WITH PERMANENT MEASURES TO ENSURE ECONOMICAL AND EFFECTIVE
- TAKE NOTE OF WHICH SPECIES ARE NOT APPROPRIATE FOR COMPANION CROP PLANTINGS. • WHEN THE SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, SCARIFY THE SOIL IN ORDER TO PROVIDE A PLACE FOR THE SEED TO LODGE AND GERMINATE.
- APPLY AGRICULTURAL LIME A THE RATE DETERMINED BY SOIL TEST PH. (TYP. 1 TON/ACRE) APPLY LIME BEFORE LAND PREPARATION AND INCORPORATE WITH A DISK, RIPPER, OR CHISEL
- ON STEEP SLOPES, APPLY FERTILIZER HYDRAULICALLY. SELECT GRASS OR GRASS-LEGUME MIXTURES BASED ON THE AREA AND SEASON OF THE YEAR.
- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTI-PACKER-SEEDER, OR
- THE APPROPRIATE DEPTH OF PLANTING IS 10x THE SEED DIAMETER.
- APPLY IRRIGATION AT A RATE THAT WILL NOT CAUSE RUNOFF AND EROSION. THOROUGHLY WET THE SOIL TO INSURE GERMINATION OF THE SEED.

#### MAINTENANCE:

 RE-SEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE. IF OPTIMUM CONDITIONS FOR TEMPORARY VEGETATION IS LACKING, MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE.

#### TABLE 1. SOME TEMPORARY PLANT SPECIES, SEEDING RATES, AND PLANTING DATES

PLANTING DAYS BY REGION

SPECIES	RATE PER 1,000 SQ.	TDATE DED ACDE	PLANTING DATS BT REGION		
JI LOILS	NATE 1 EN 1,000 3Q.	I MATE TEN AONE	M - L	Р	С
BARLEY ALONE BARLEY IN MIXTURES	3.3 LBS 0.6 LBS	3.0 BU 0.5 BU	9/1-10/31	9/15-11/15	10/1-12/31
LESPEDEZA, ANNUAL LESPEDEZA IN MIXTURES	0.9 LBS 0.2 LBS	40 LBS 10 LBS	3/1-3/31	3/1-3/31	2/1-2/28
LOVEGRASS, WEEPING LOVEGRASS IN MIXTURES	0.1 LBS 0.05 LBS	4.0 LBS 2.0 LBS	4/1-5/31	4/1-5/31	3/1-5/31
MILLET, BROWNTOP MILLET IN MIXTURES	0.9 LBS 0.2 LBS	40 LBS 10 LBS	4/15-6/15	4/15-6/30	4/15-6/30
MILLET, PEARL	1.1 LBS	50 LBS	5/15-7/15	5/1-7/31	4/15-8/15
OATS ALONE OATS IN MIXTURES	2.99 LBS 0.7 LBS	4.0 BU 1.0 BU	9/15-11/15	9/15-11/15	9/15-11/15
RYE (GRAIN) ALONE RYE IN MIXTURES	3.9 LBS 0.6 LBS	3.0 BU 0.5 BU	8/15-10/31	9/15-11/30	10/1-12/31
RYEGRASS	0.9 LBS	40 LBS	8/15-11/15	9/1-12/15	9/15-12/31
SUDANGRASS	1.4 LBS	60 LBS	5/31-7/31	5/31-7/31	4/1-7/31
TRITICALE ALONE TRITICALE IN MIXTURES	3.3 LBS 0.6 LBS	3.0 BU 0.5 BU	N/A	N/A	10/15-11/30
WHEAT ALONE WHEAT IN MIXTURES	4.1 LBS 0.7 LBS	3.0 BU 0.5 BU	9/15-11/30	10/1-12/15	10/15-12/31

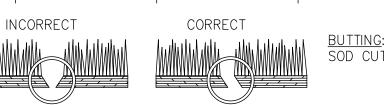
#### TABLE 2: FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS/ACRE)	N TOP DRESSING RATE (LBS/ACRE)
COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 1000 400	50-100  30
COOL SEASON GRASSES & LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 1000 400	0-50  
TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500	30
WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 800 400	50-100 50-100 30

# DS4 SOD MAINTENANCE AND INSTALLATION

### SOD LAYOUT AND PREPARATION

LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.



BUTTING: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

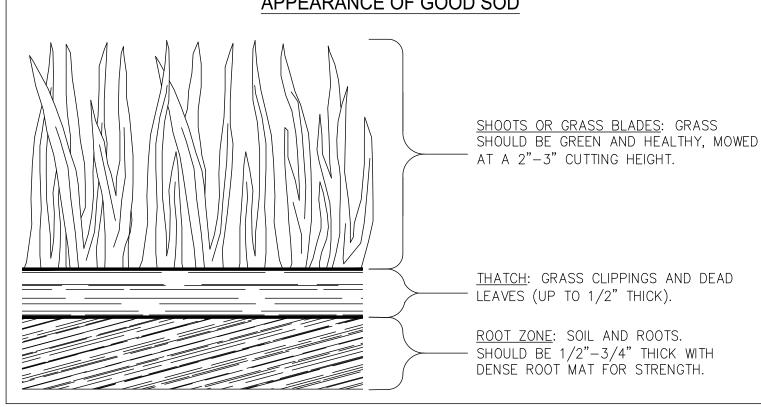
#### DIRECTIONS FOR INITIAL MAINTENANCE

ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

2 . Water to a depth of 4" as needed. Water well as soon as the sod  $\cdot$  is laid.

Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER high (2"-3").

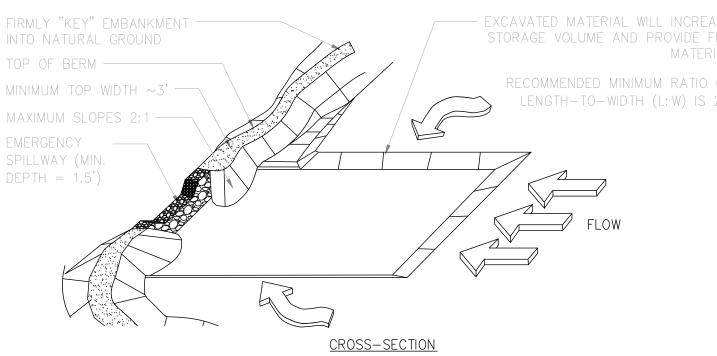
#### APPEARANCE OF GOOD SOD

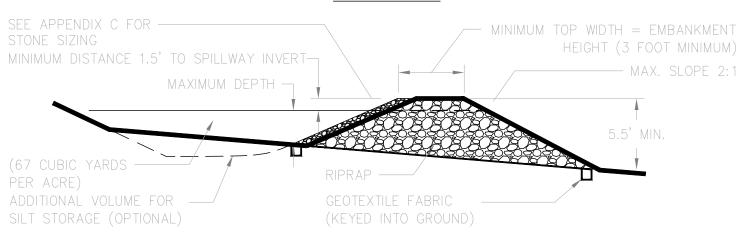


# TEMPORARY SEDIMENT TRAP

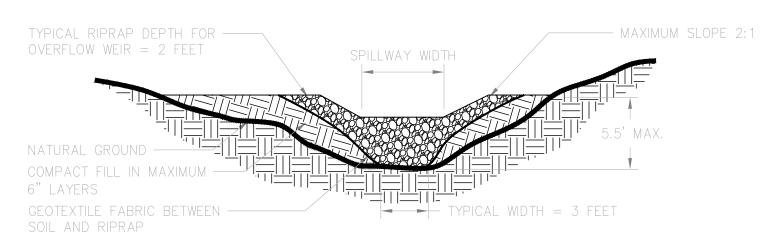
COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT **ROCK OUTLET** 

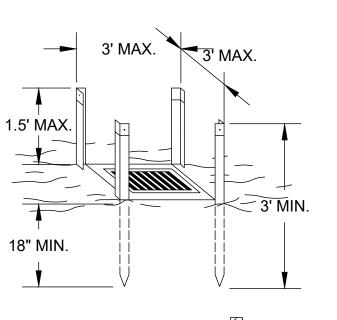




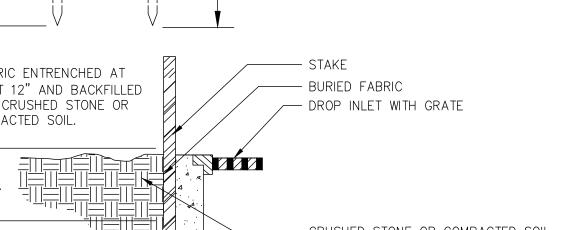


#### PROFILE THROUGH EMBANKMENT





- 1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS). 2. THE STEEL POSTS SUPPORTING THE SILT FÉNCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3'
- AT LEAST 18" DEEP. 4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST





\*FABRIC ENTRENCHED AT LEAST 12" AND BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL. 12" MIN - CRUSHED STONE OR COMPACTED SOIL

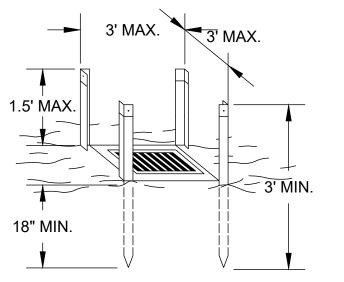
AND POLLUTION CONTROL PLAN. 2. HEIGHT (\*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION

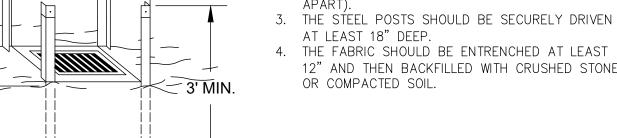
CONTROL PLAN.

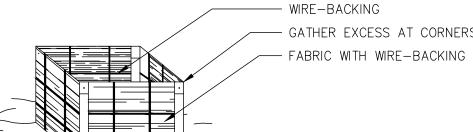
# 1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION,

# FABRIC AND SUPPORTING FRAME FOR Sd2-F **INLET PROTECTION**

# STEEL FRAME AND SILT FENCE INSTALLATION





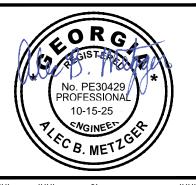


GSWCC GEORGIA SOIL AND WATER CONSERVATION COMMISSION

Alec B Metzger LEVEL II CERTIFIED DESIGN PROFESSIONAL

CERTIFICATION NUMBER: 0000008757

ISSUED: 5/2/2024 EXPIRES: 5/2/2027



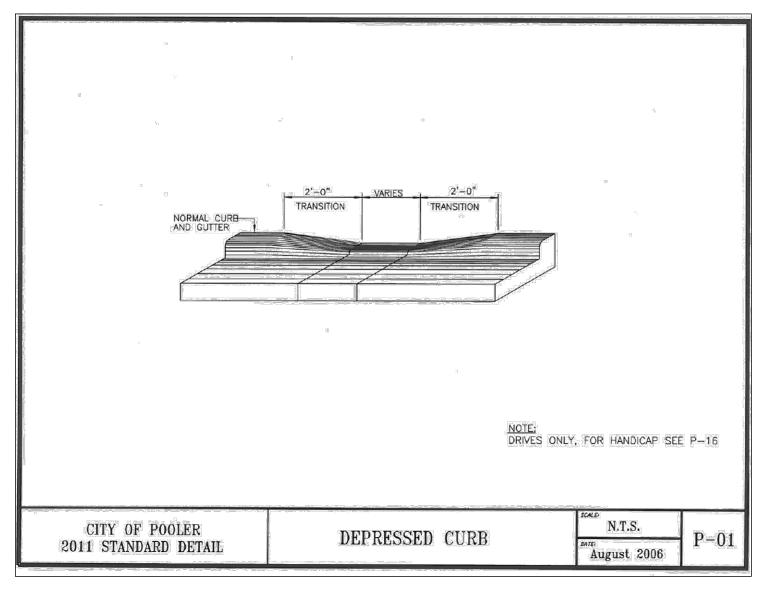
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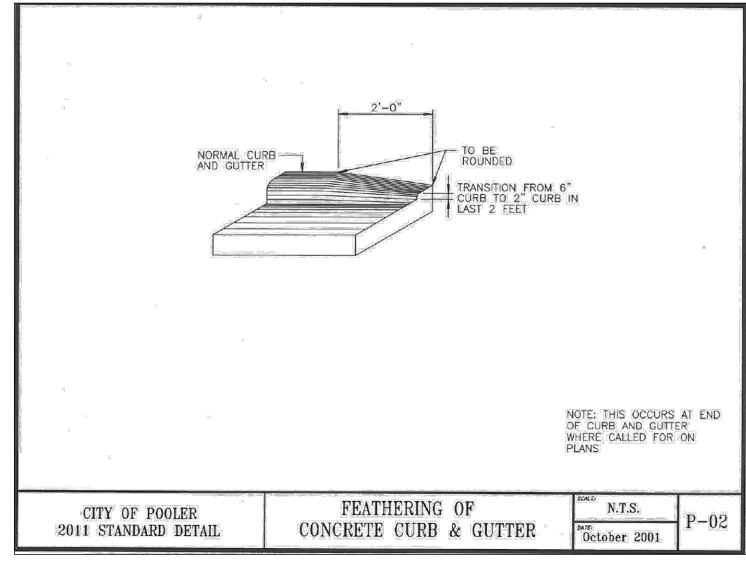
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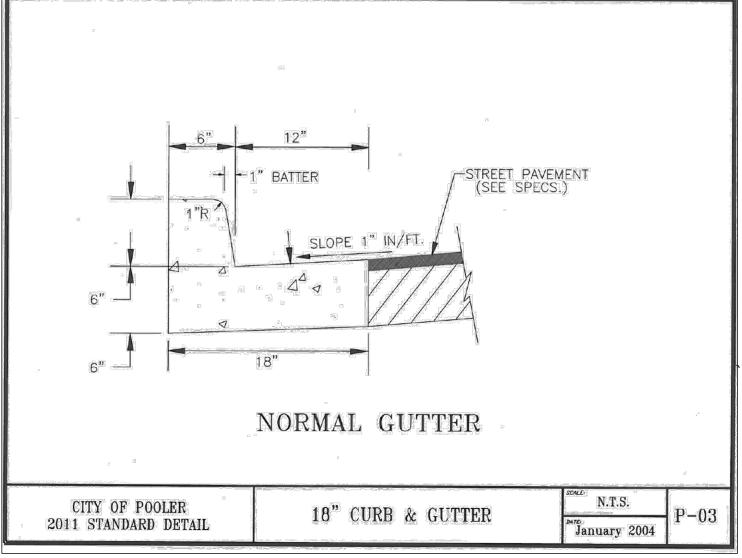
PROJECT NO.: 24-0056 DRAWN BY: WCS DESIGNED BY: WCS SURVEYED BY: BREWER SURVEY DATE: 11/2024

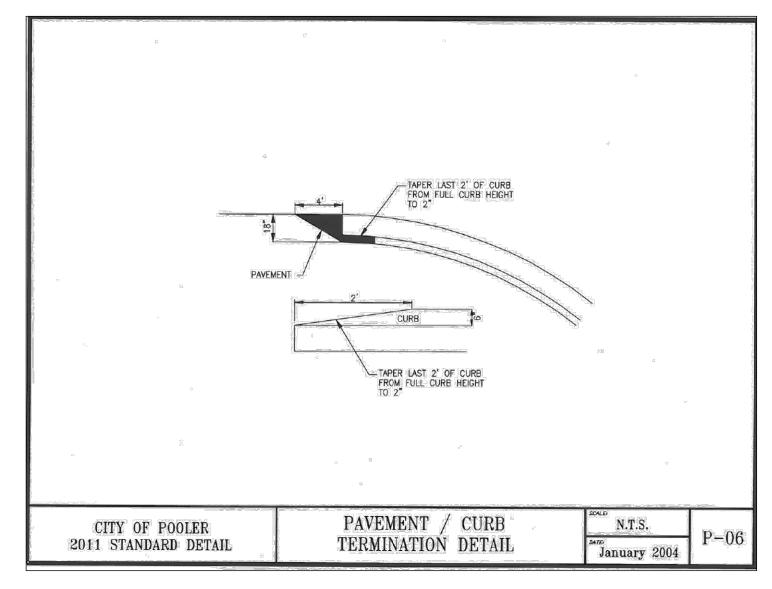
CHECKED BY: ABM SCALE: 1" = #### 2/2025 SHEET

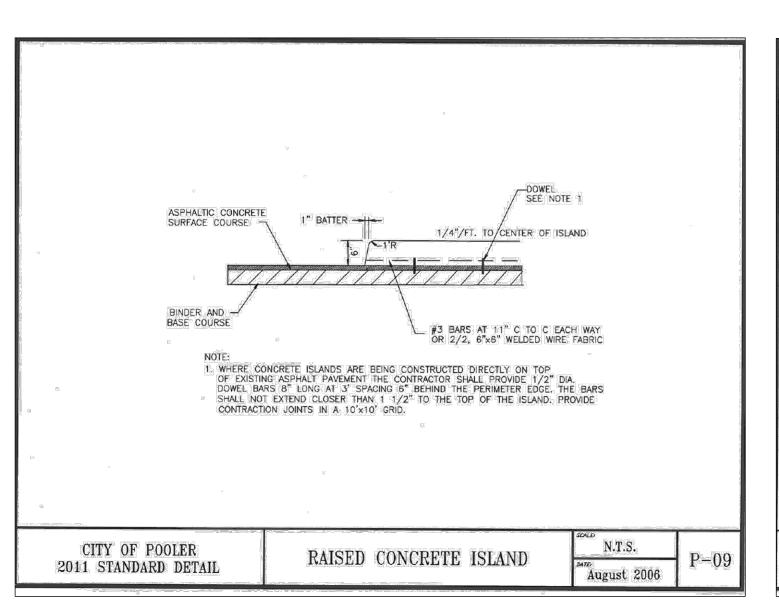
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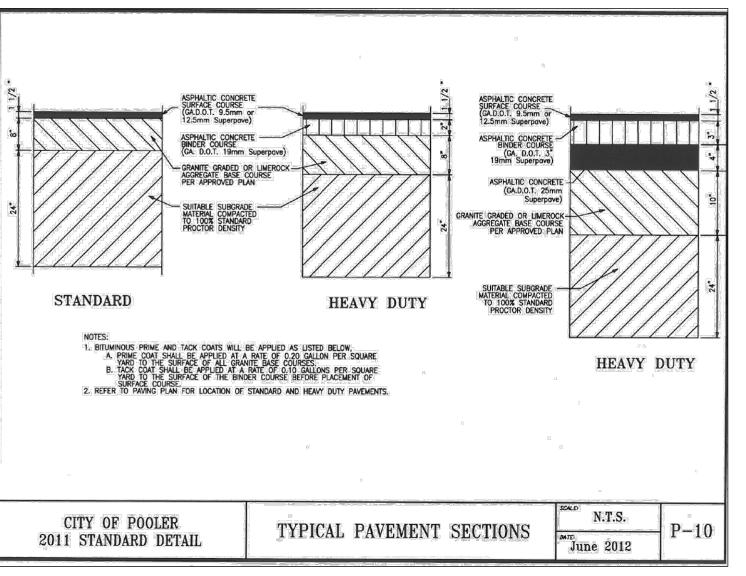


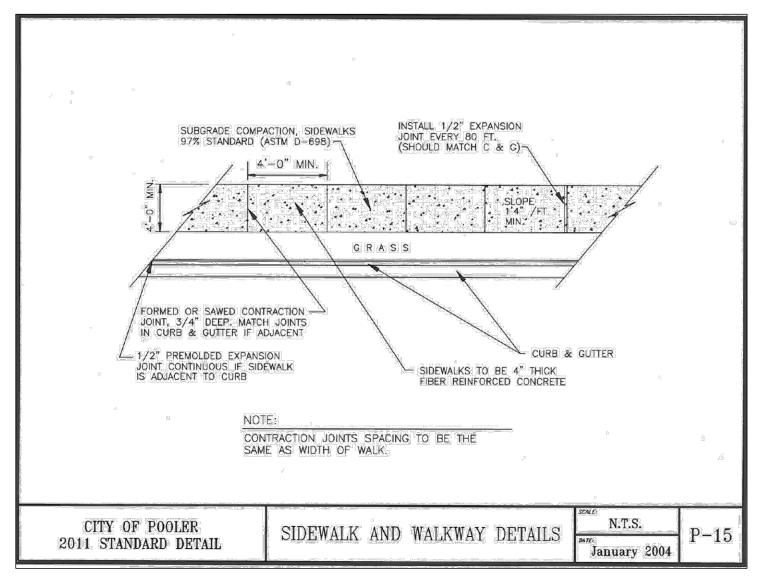


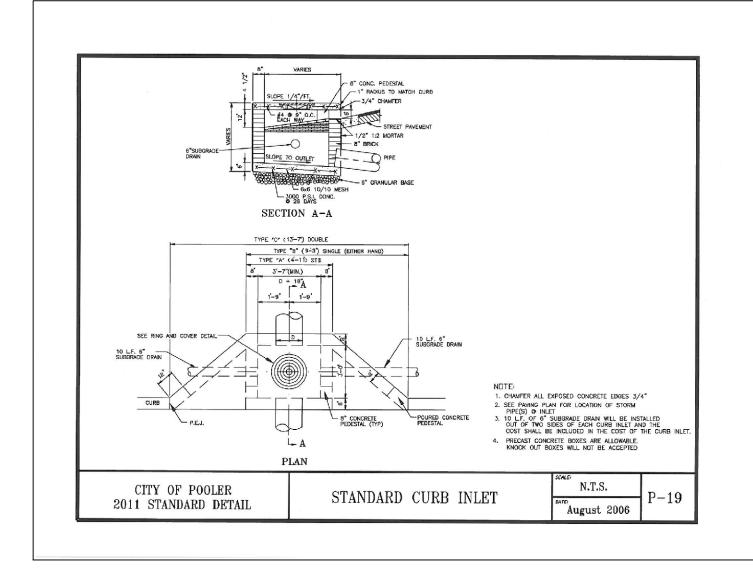


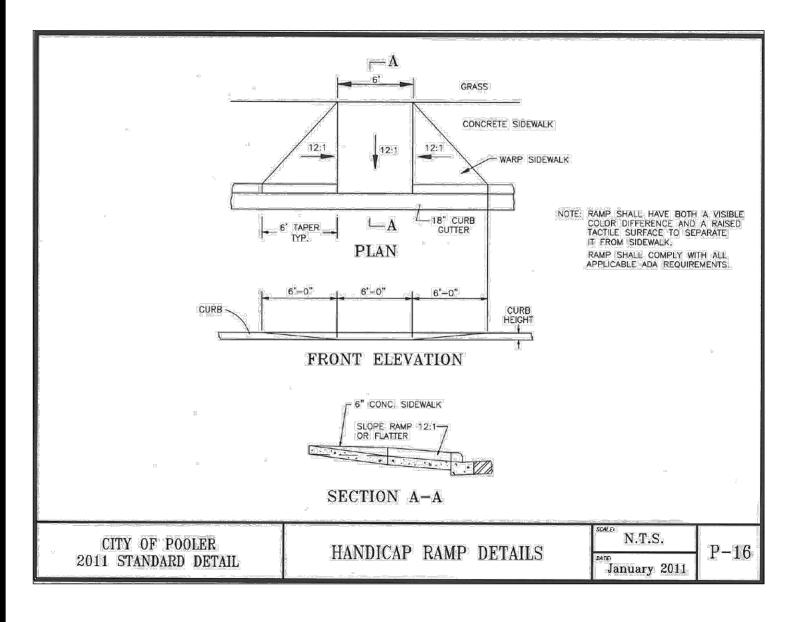


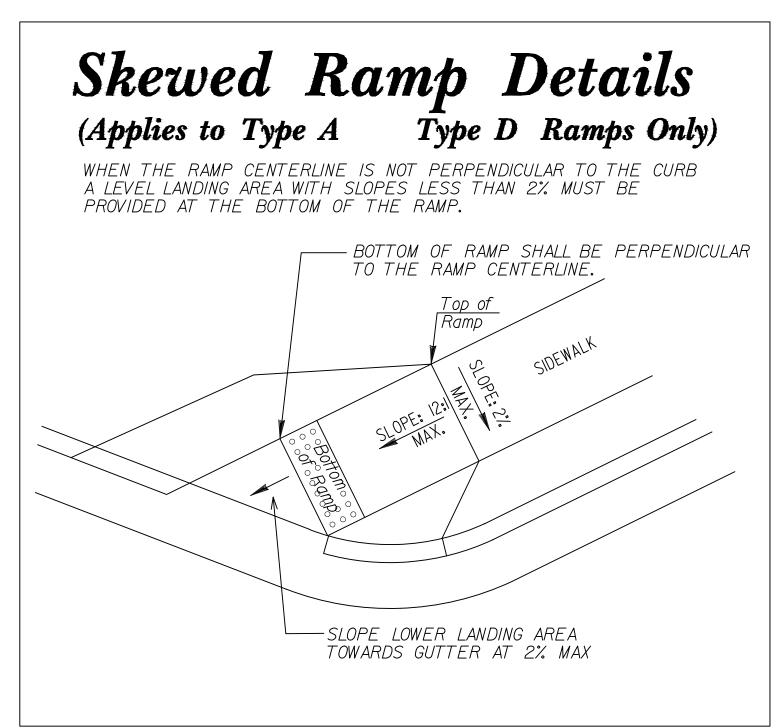


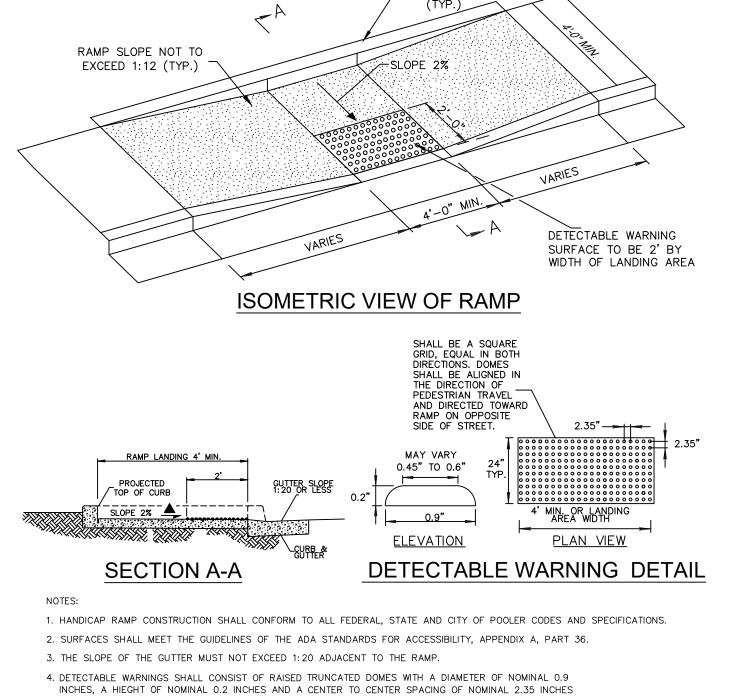






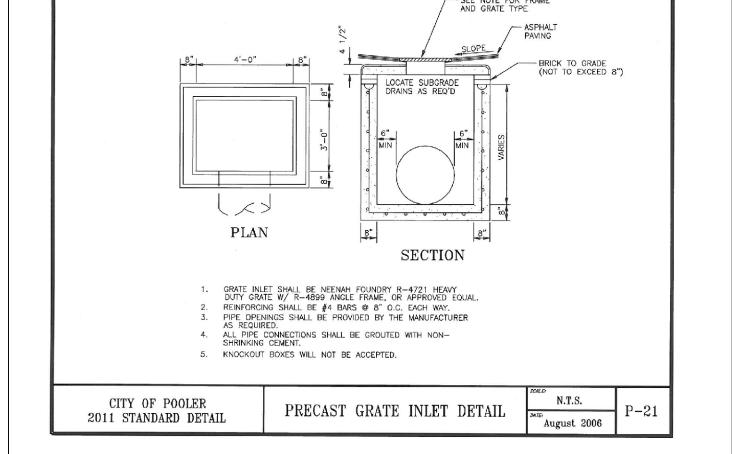


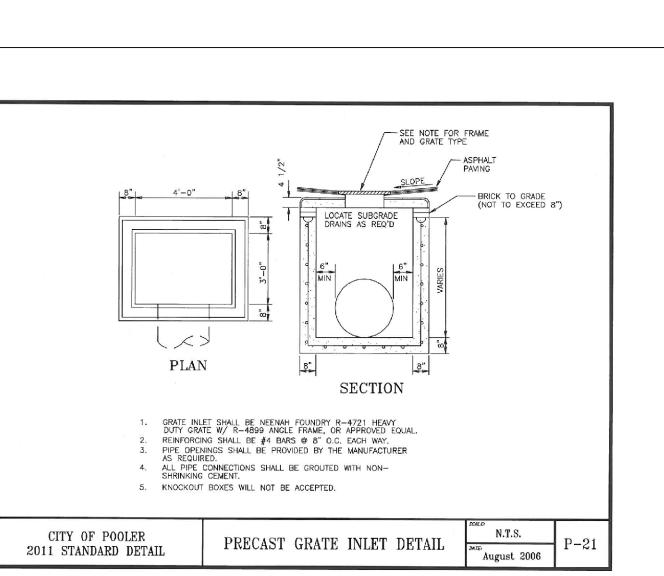




AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES. IF THE SIDEWALK AND RAMP ARE CONSTRUCTED OF CONCRETE, THE WARNING AREA SHALL BE RED BRICK IN COLOR. IF THE SIDEWALK AND RAMP

ARE CONSTRUCTED OF RED BRICK, THE WARNING AREA SHALL BE GREY IN COLOR. THE COLOR USED TO



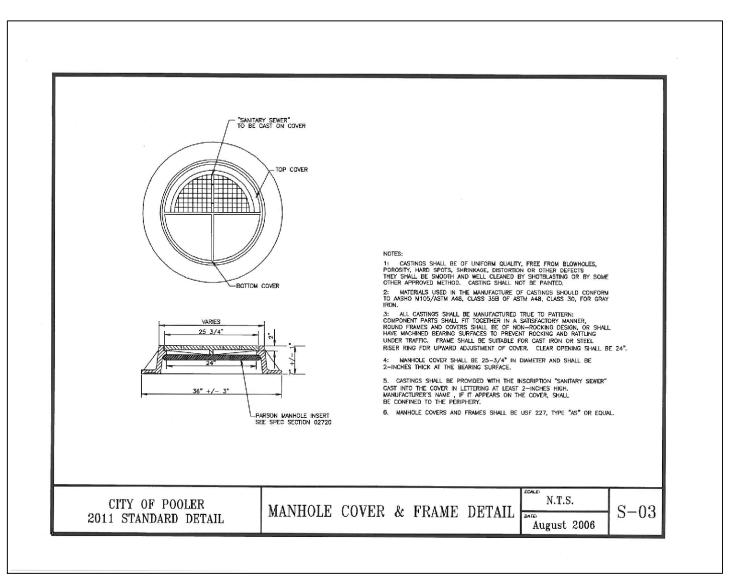


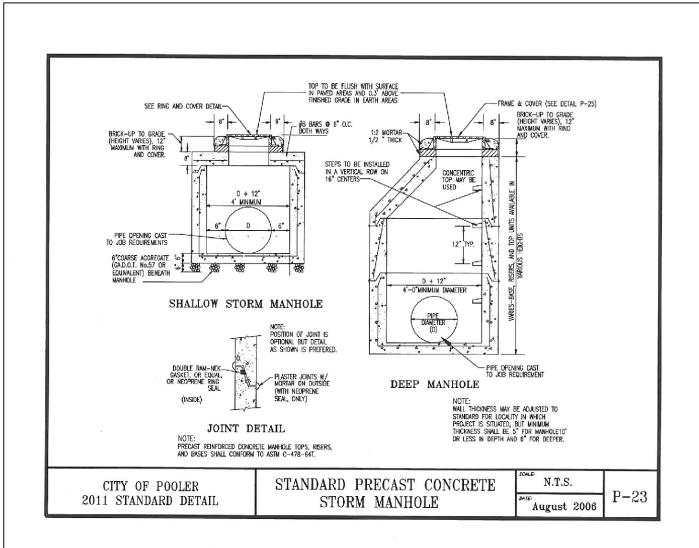
GRAPHIC SCALE: 1" = ####

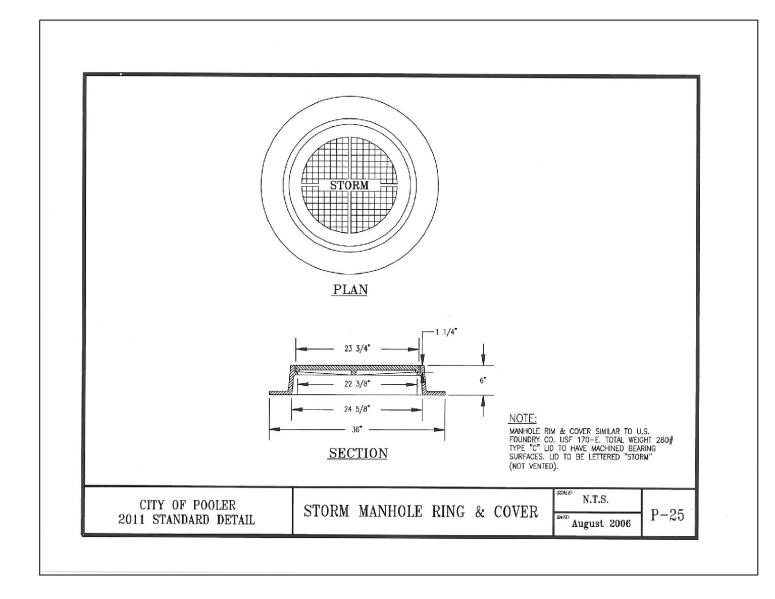
24-0056 DRAWN BY: WCS DESIGNED BY: WCS SURVEYED BY: BREWER SURVEY DATE: 11/2024 CHECKED BY: ABM SCALE: \_\_\_1" = #### 2/2025

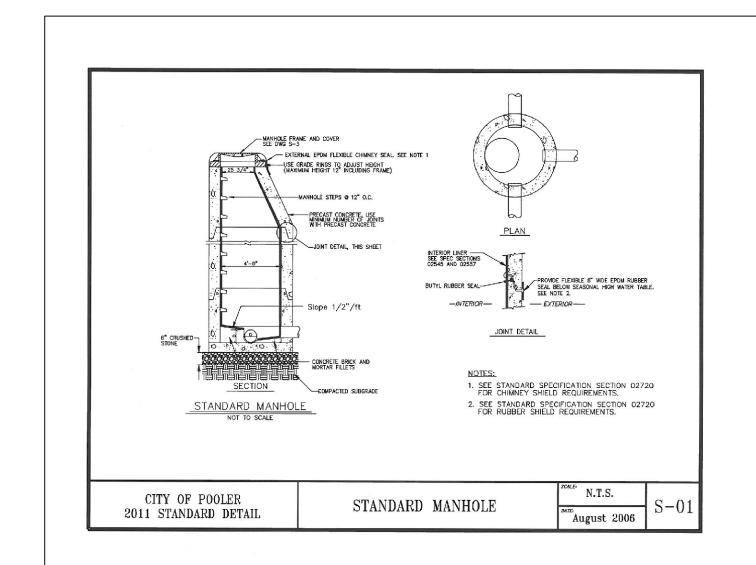
SHEET

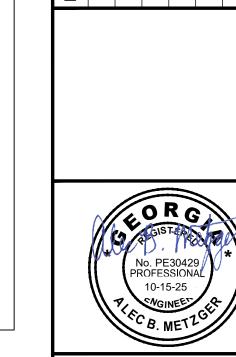
TYPE B HANDICAP RAMP N.T.S.



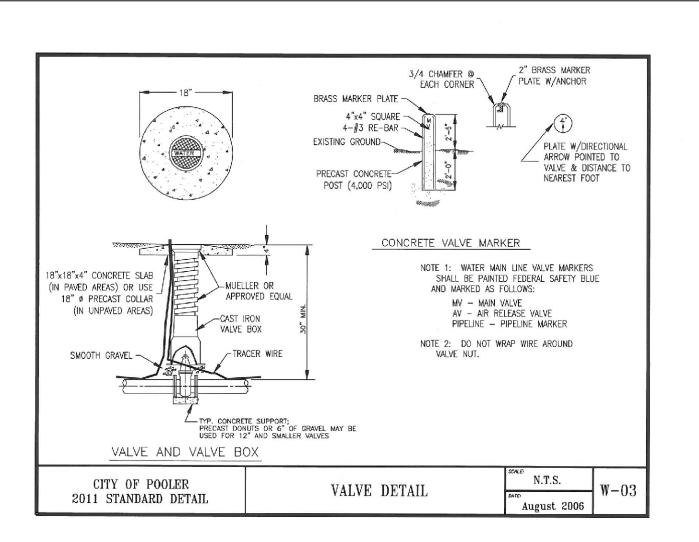








GRAPHIC SCALE: 1" = ####

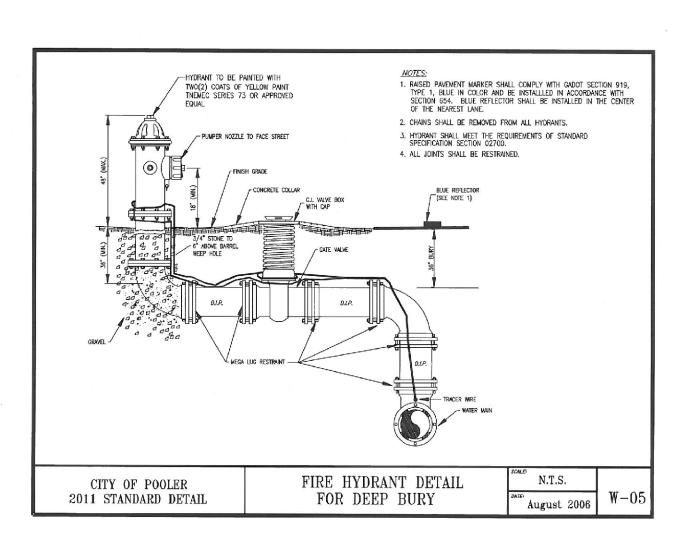


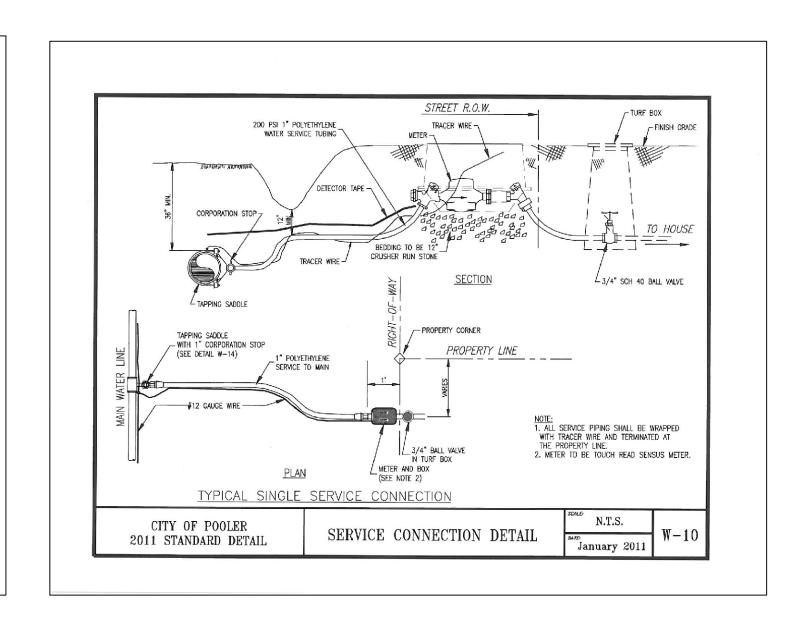
ALL TAPS ON WATER LINES WILL REQUIRE A TAPPING SADDLE.

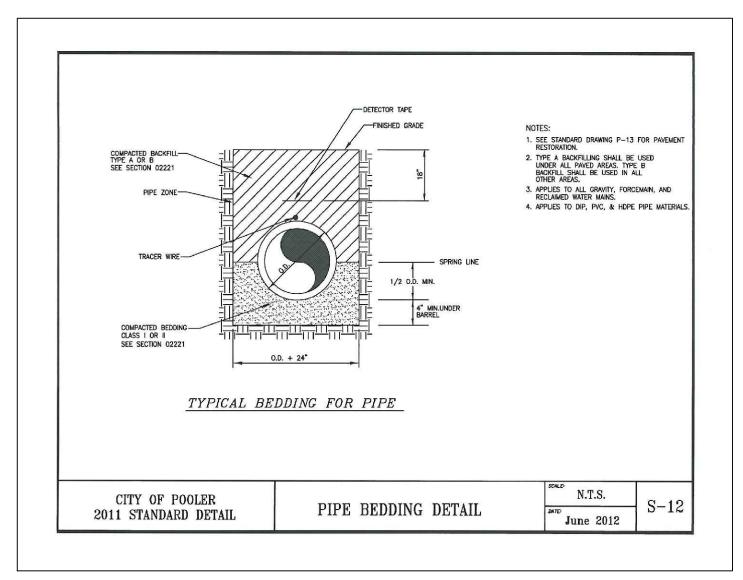
1" & 2" TAPPING SADDLE

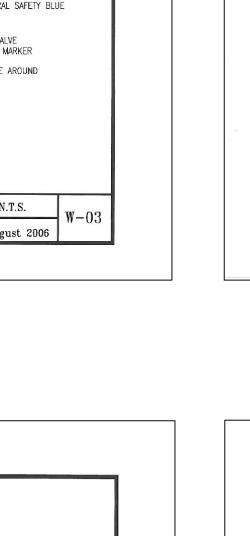
N.T.S.

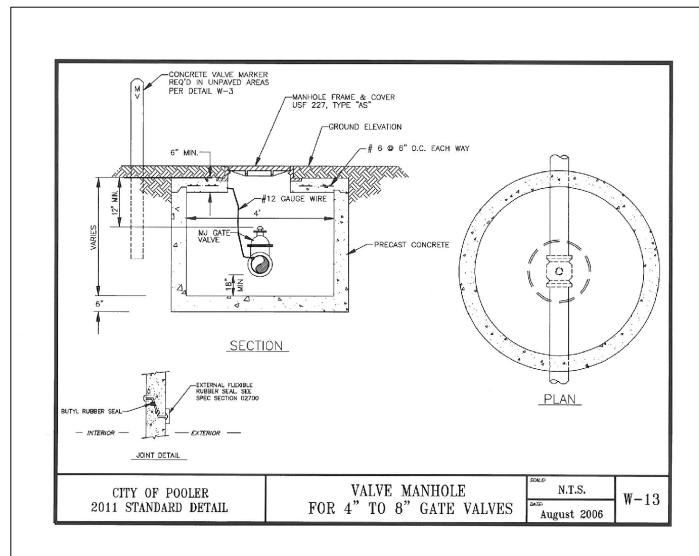
August 2006

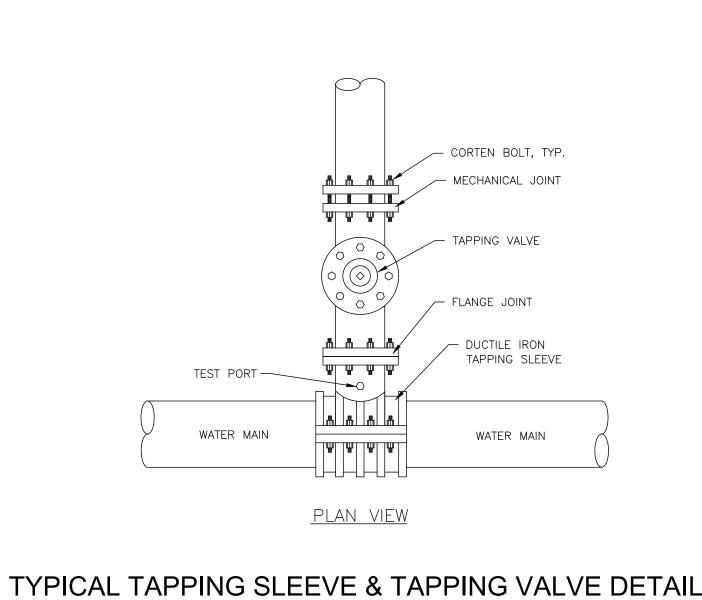


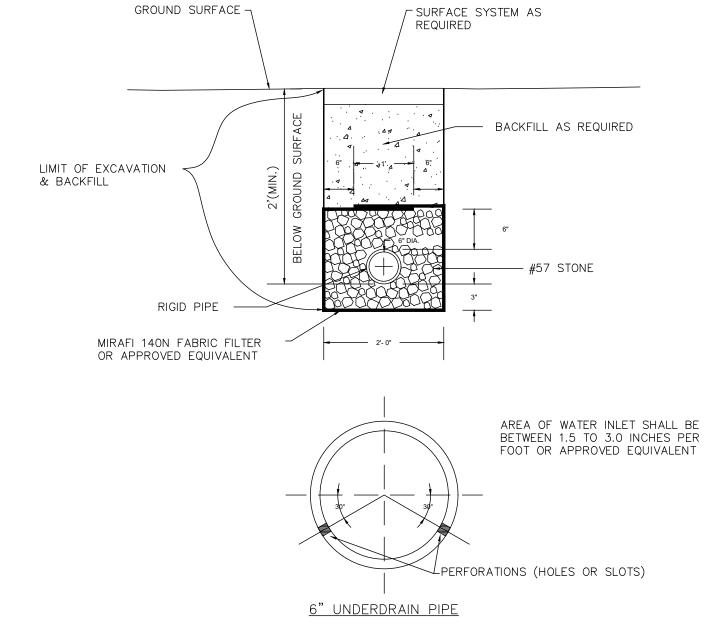




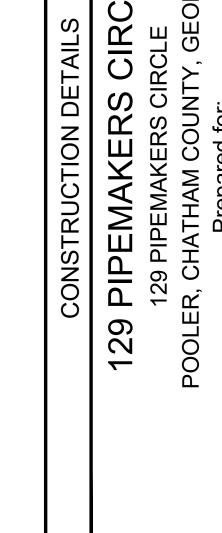










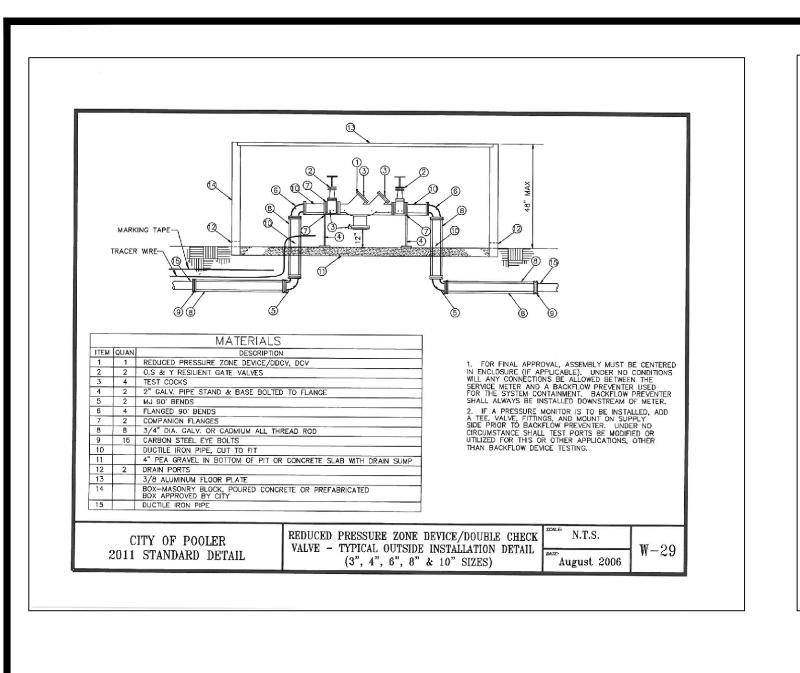


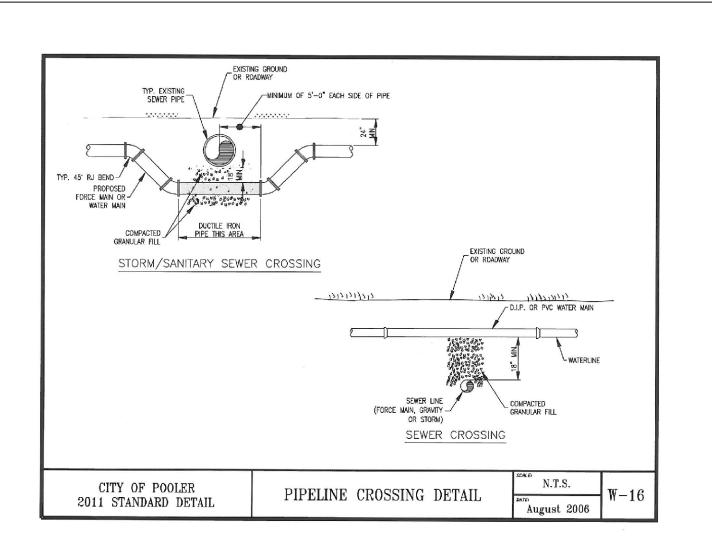
PROJECT NO.:	24-0056					
DRAWN BY:	WCS					
DESIGNED BY:	WCS					
SURVEYED BY:	BREWER					
SURVEY DATE:	11/2024					
CHECKED BY:	ABM					
SCALE:	1" = ####					
DATE: <u>2/2025</u>						
SHEET						

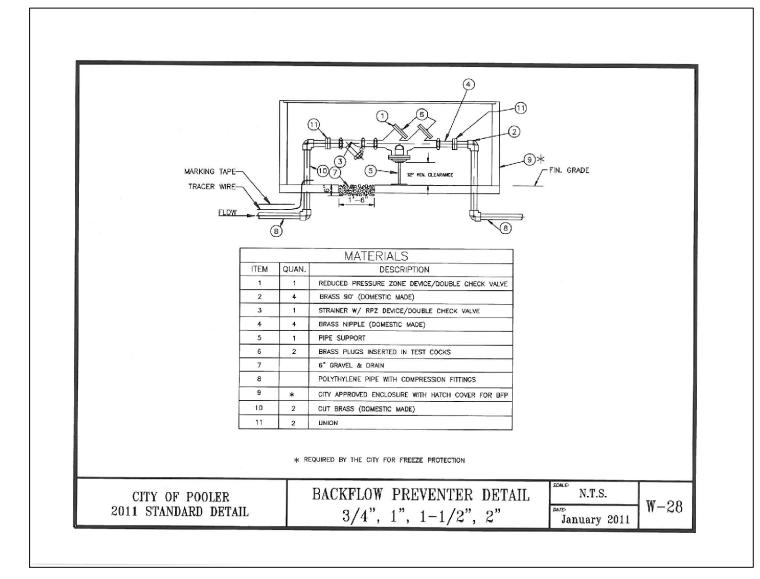
16

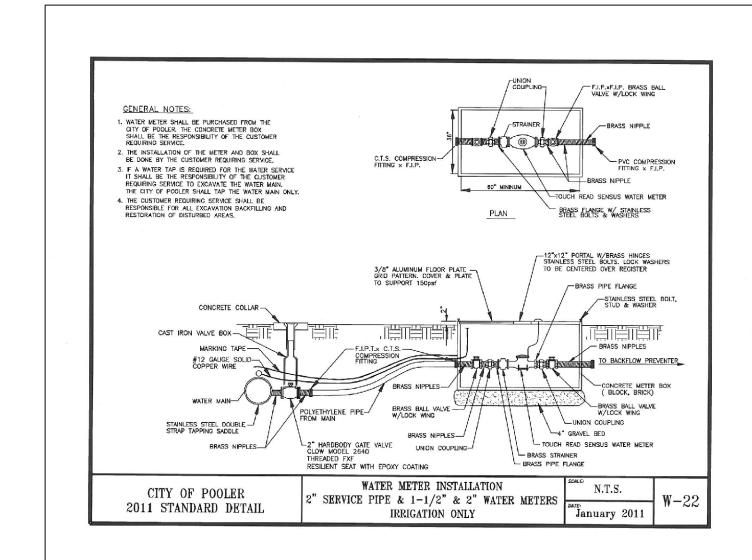
CITY OF POOLER

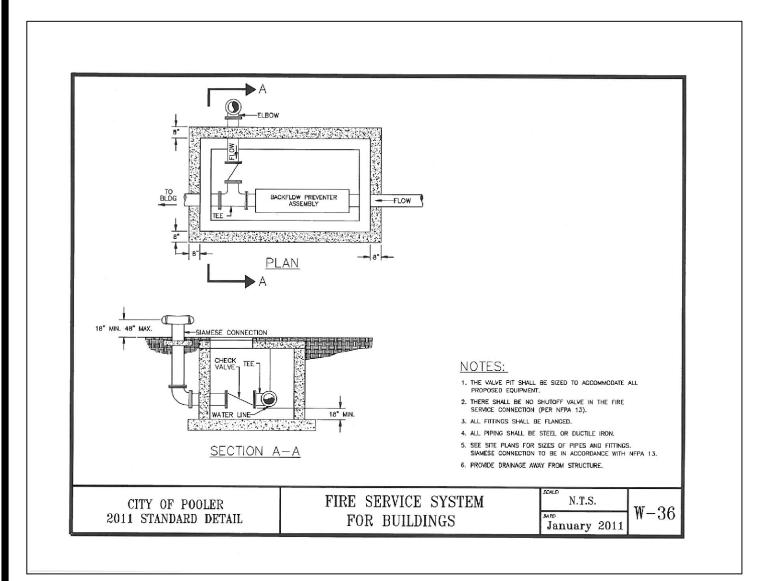
2011 STANDARD DETAIL

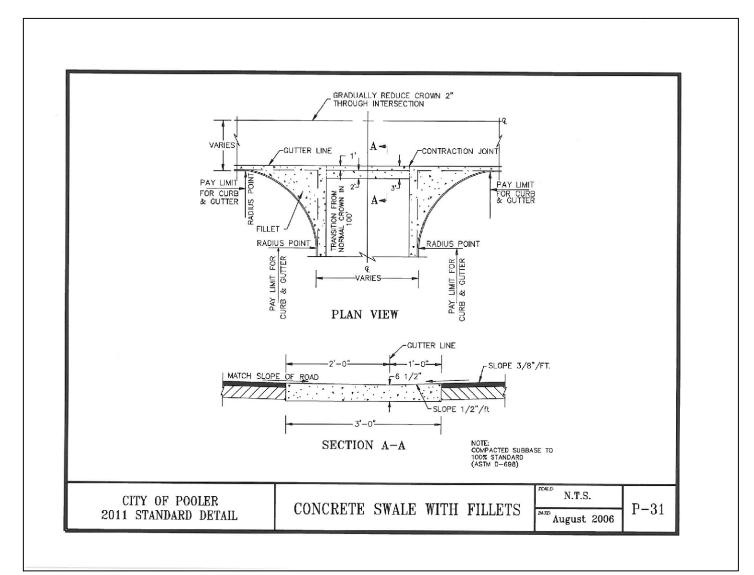




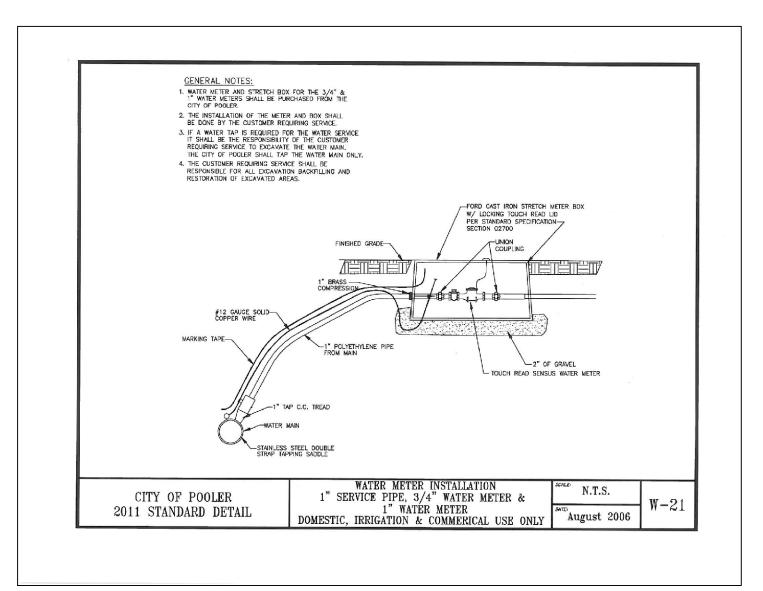


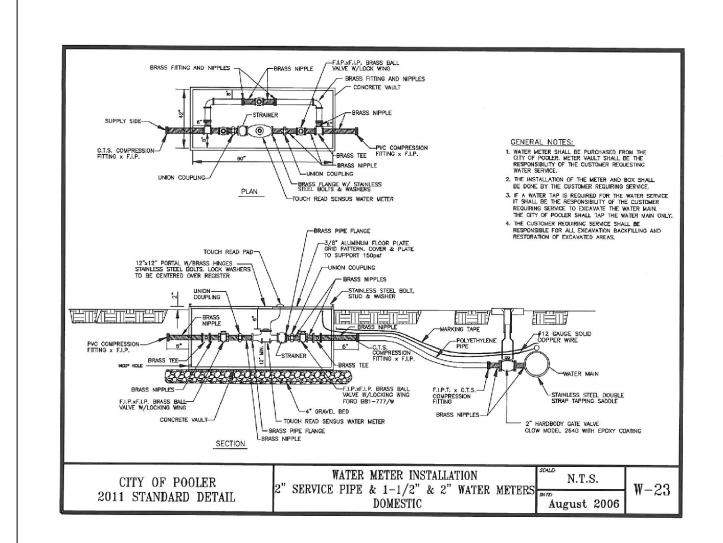


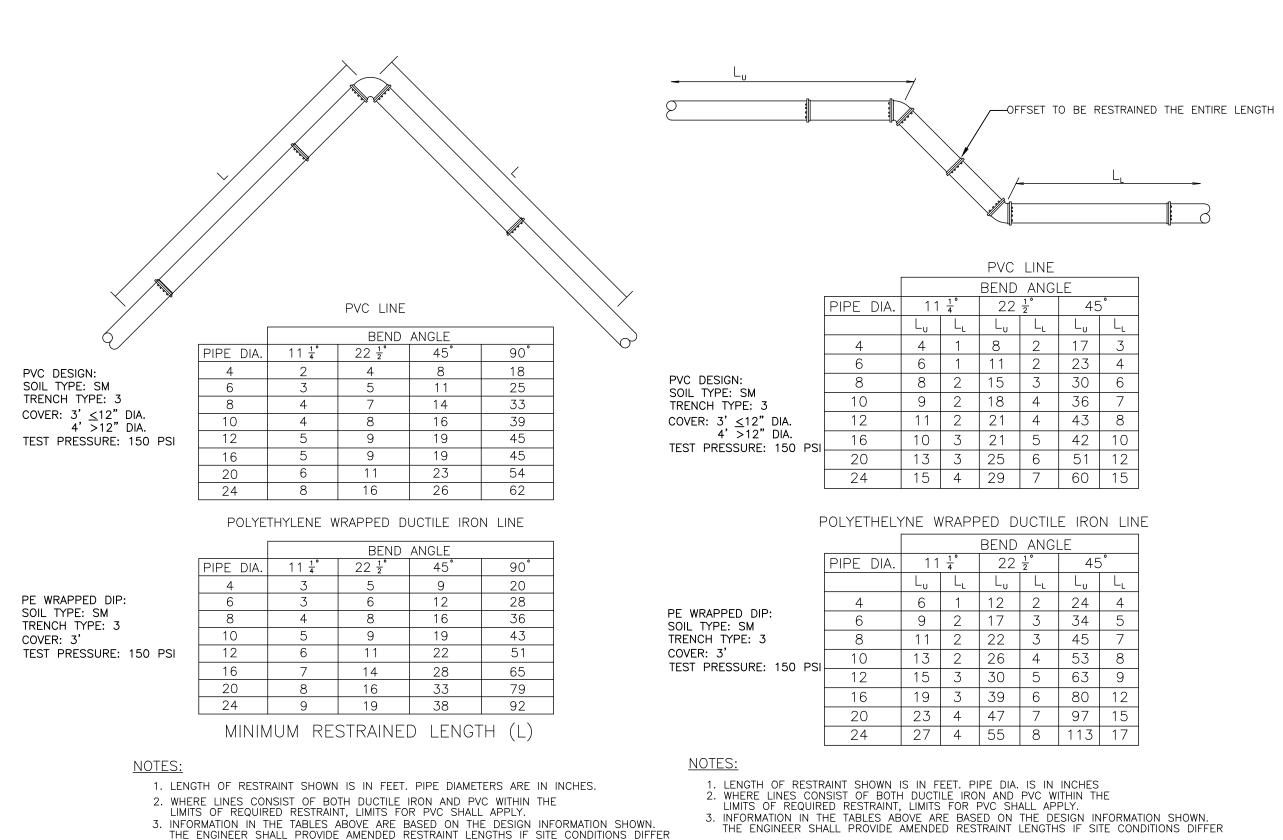




**VERTICAL BEND RESTRAINT** 

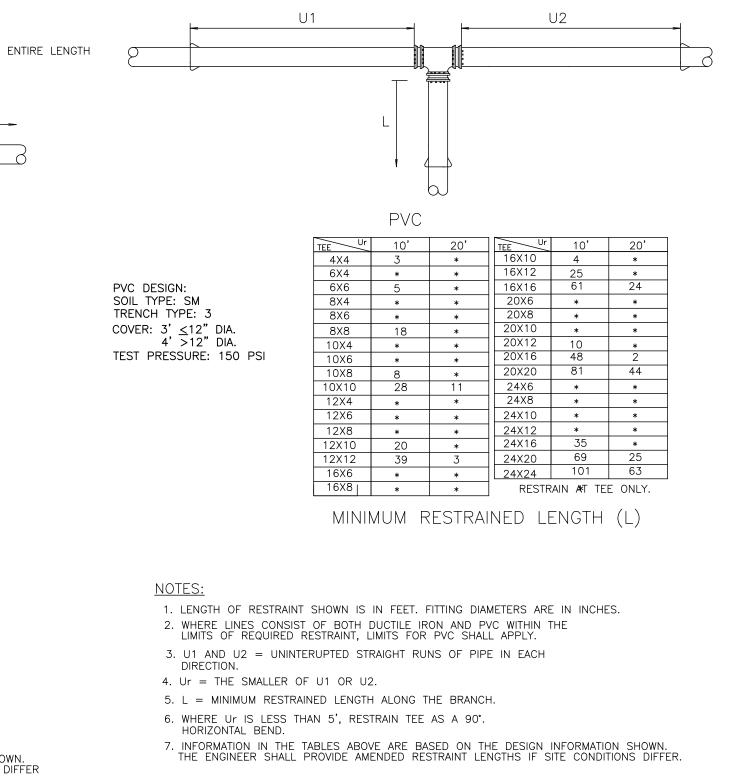




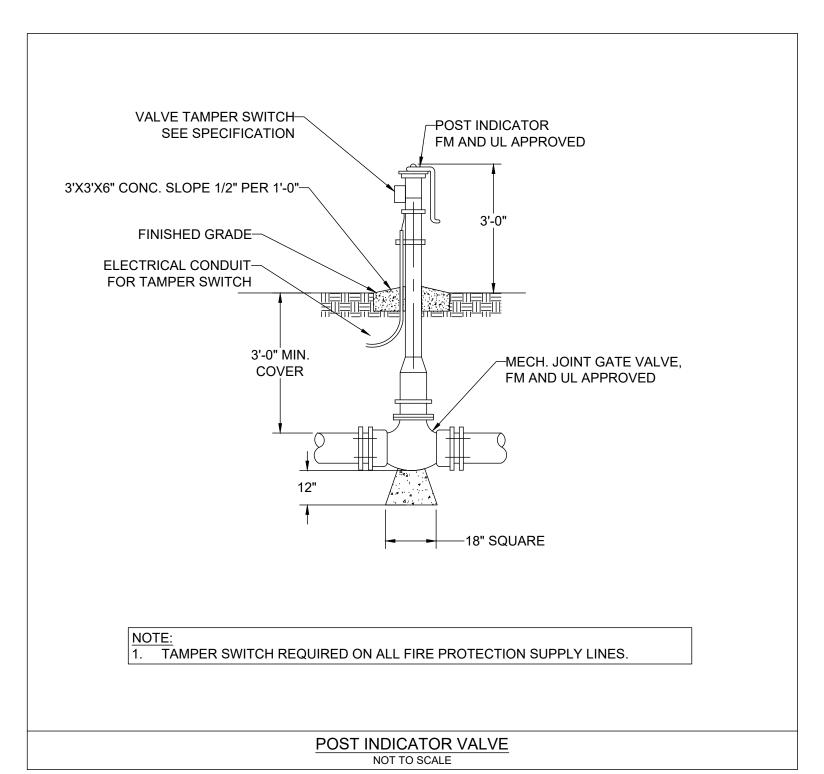


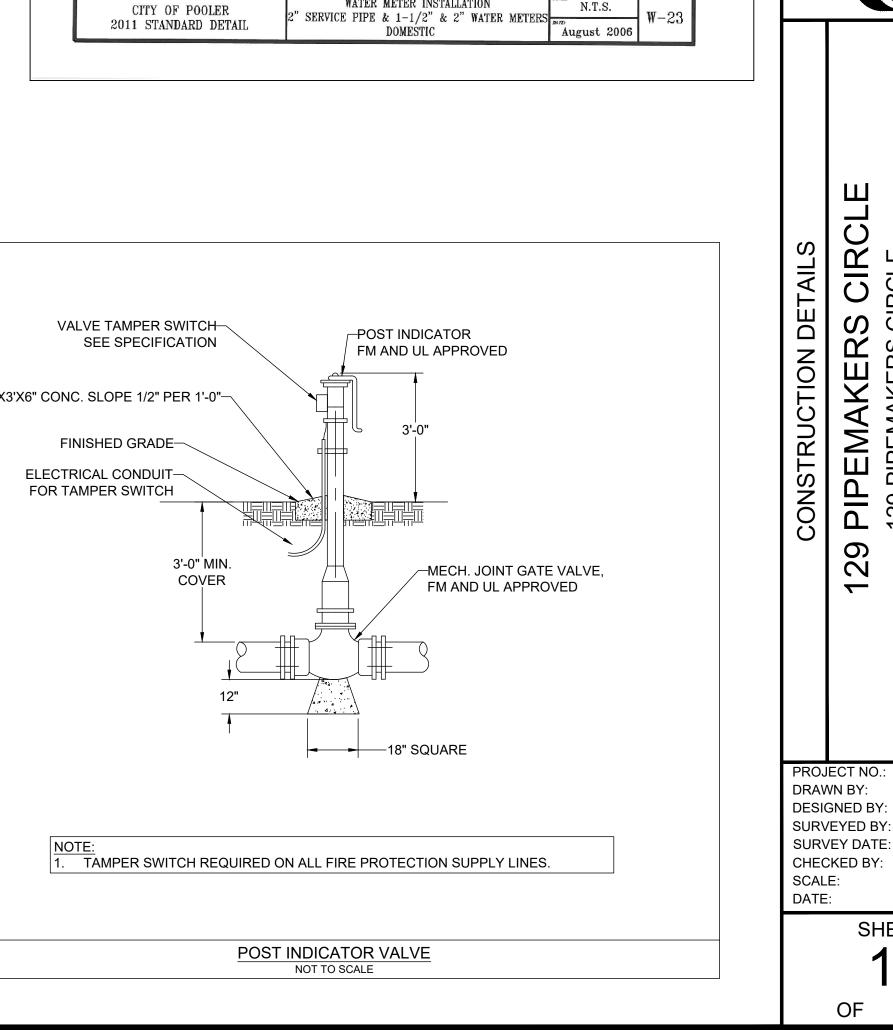
WHERE LINES CONSIST OF BOTH DUCTILE IRON AND PVC WITHIN THE LIMITS OF REQUIRED RESTRAINT, LIMITS FOR PVC SHALL APPLY.
 INFORMATION IN THE TABLES ABOVE ARE BASED ON THE DESIGN INFORMATION SHOWN. THE ENGINEER SHALL PROVIDE AMENDED RESTRAINT LENGTHS IF SITE CONDITIONS DIFFER

HORIZONTAL BEND RESTRAINT



TEE RESTRAINT (PVC PIPE)





SURVEYED BY: BREWER SURVEY DATE: 11/2024 CHECKED BY: ABM SCALE: 1" = #### 2/2025 SHEET

24-0056

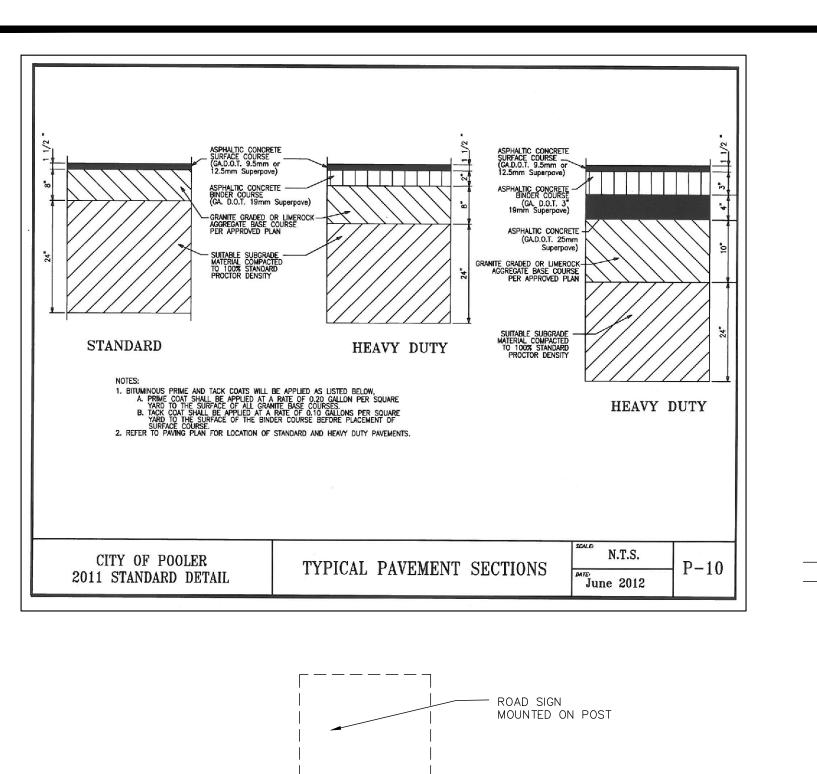
WCS

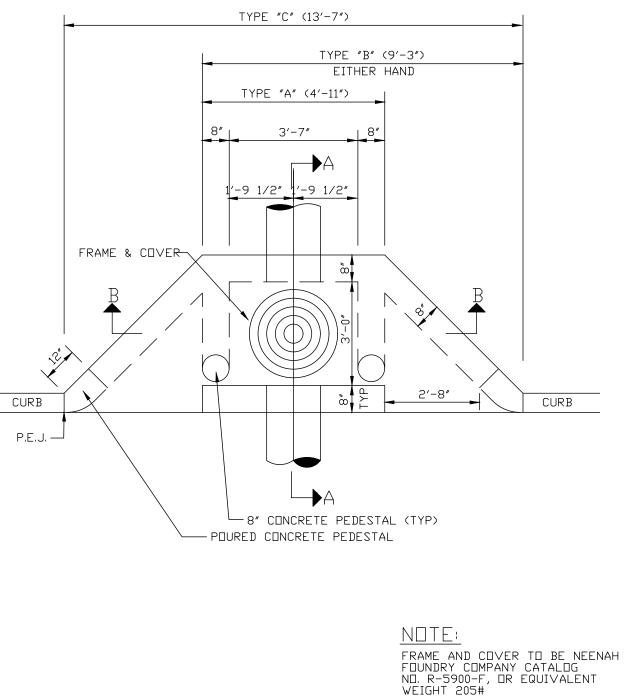
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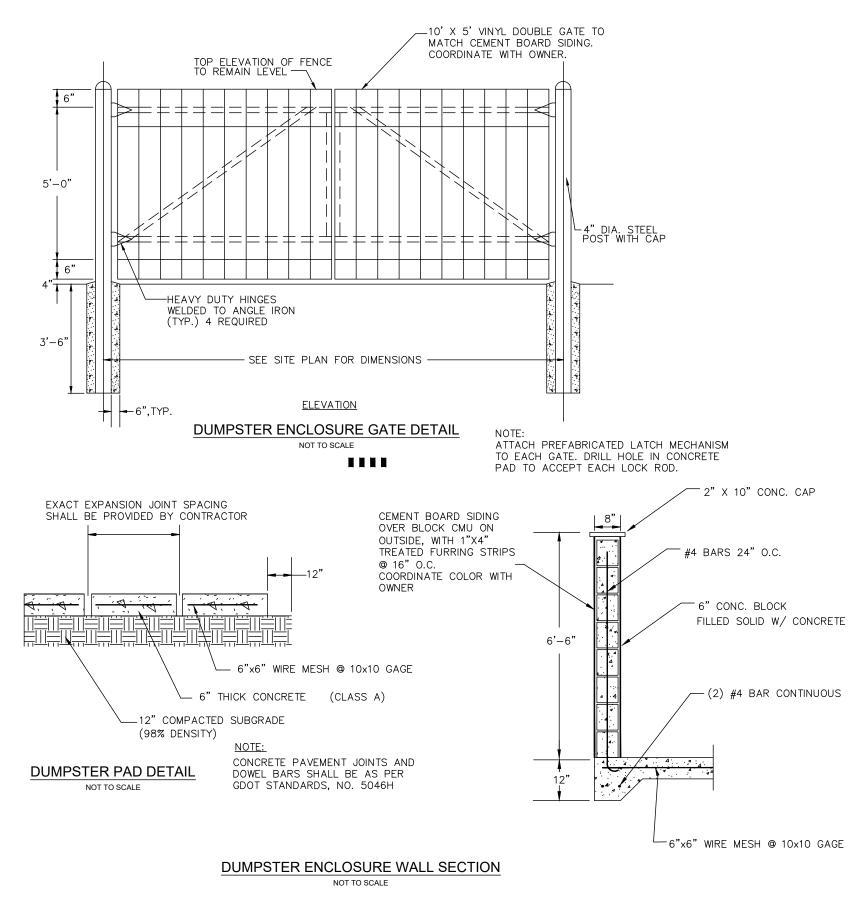
**PIPEMAKE** 

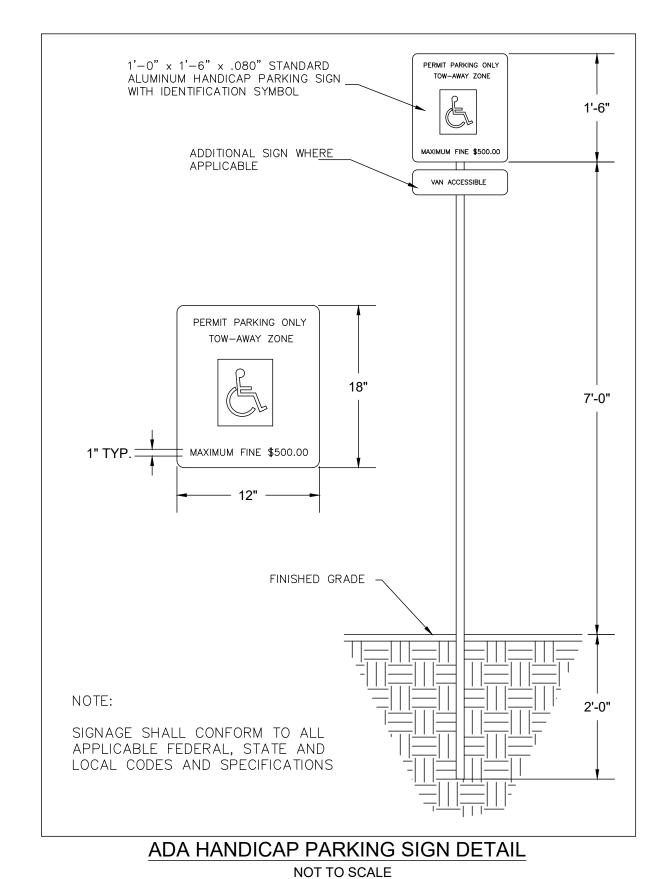
GRAPHIC SCALE: 1" = ####

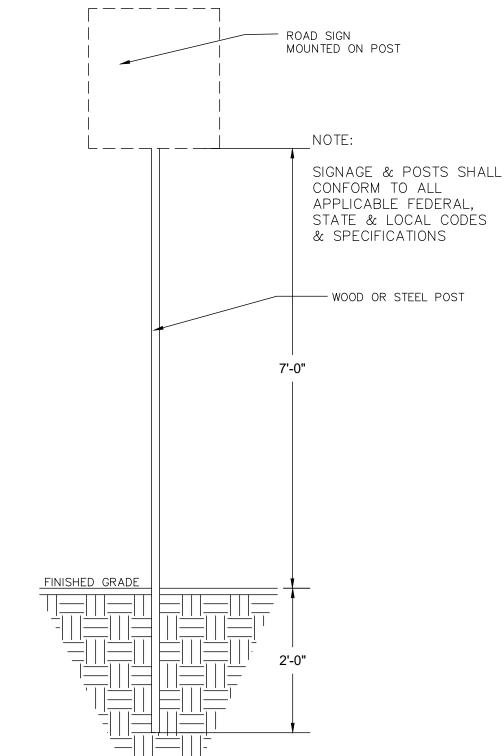
ENGINE! RVICES,





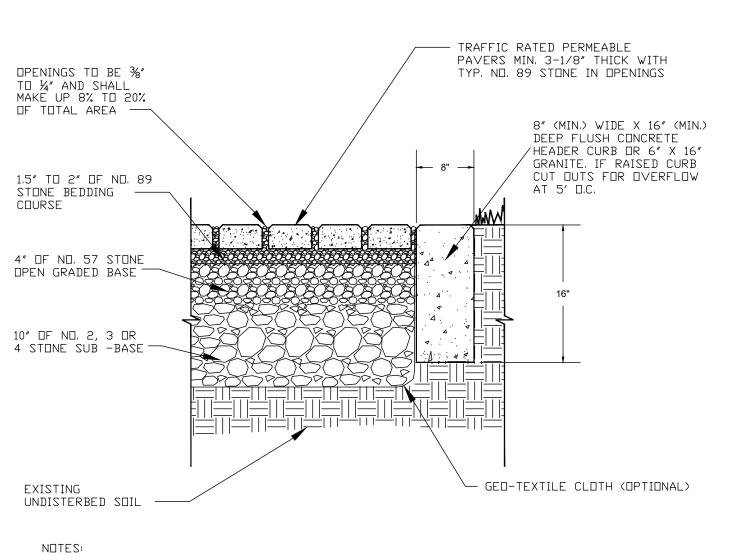






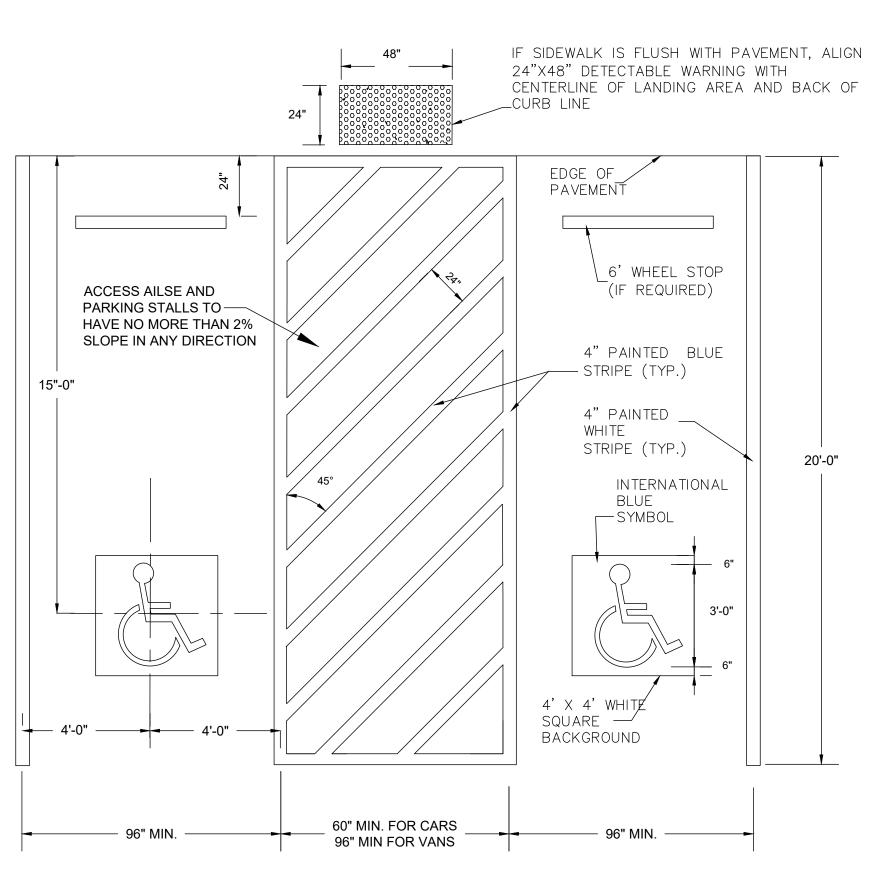


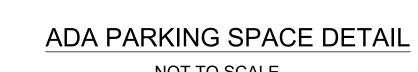
**CURB INLET DETAIL** 



- 1. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE CITY OF POOLER DEVELOPMENT
- 2. CONCRETE HEADER CURB DIMENSIONS MAY DIFFER BASED ON PROJECT SPECIFIC DESIGN
- 4. CONTRACTION JOINTS TO BE SAW CUT NO LATER THAN 24 HOURS AFTER THE POUR.

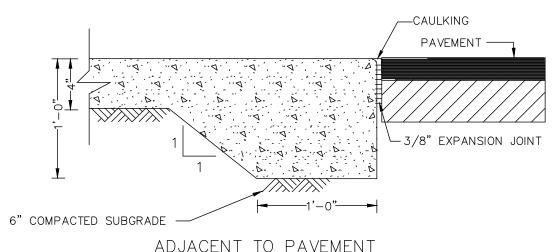
#### PERMEABLE PAVEMENT DETAIL

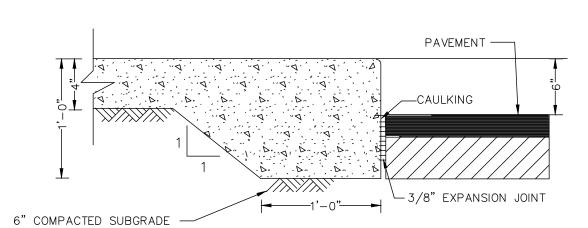




# TYPICAL ROAD SIGN INSTALLATION

NOT TO SCALE





ADJACENT TO PAVEMENT

TURN DOWN SIDEWALK DETAIL

<u>ADJACENT TO PAVEMENT</u>

GUIDELINES, TECHNICAL SPECIFICATIONS AND STANDARD DETAILS.

3. BASE COMPACTION UNDER CURB TO BE 98% (ASTM D698).

SHEET

PROJECT NO.:

DESIGNED BY:

SURVEYED BY:

SURVEY DATE:

CHECKED BY:

SCALE:

DATE:

DRAWN BY:

24-0056

WCS

WCS

BREWER

11/2024

\_\_\_1" = ####

2/2025

ABM

GRAPHIC SCALE: 1" = ####

NOT TO SCALE