

CIVIL CONSTRUCTION DOCUMENTS FOR FAYETTE COUNTY NORTH BEND COURT - CULVERT REPLACEMENT

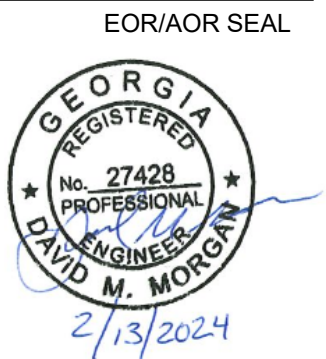
LAND LOT 202, 5TH DISTRICT, FAYETTE COUNTY, GA.

February 14, 2024

100% DESIGN SUBMITTAL

COUNTY PROJECT NUMBER: 21SAL

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092
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CLIENT INFORMATION

FAYETTE COUNTY
140 STONEWALL AVE W, STE 203
FAYETTEVILLE, GA. 30214

PROJECT NAME

**NORTH BEND COURT
CULVERT
REPLACEMENT**
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW
DRAWN BY: MDW
CHECKED BY: DMM/MDM
SUBMITTED BY: DMM
DATE: February 14, 2024
PROJECT # 1210492

SHEET TITLE

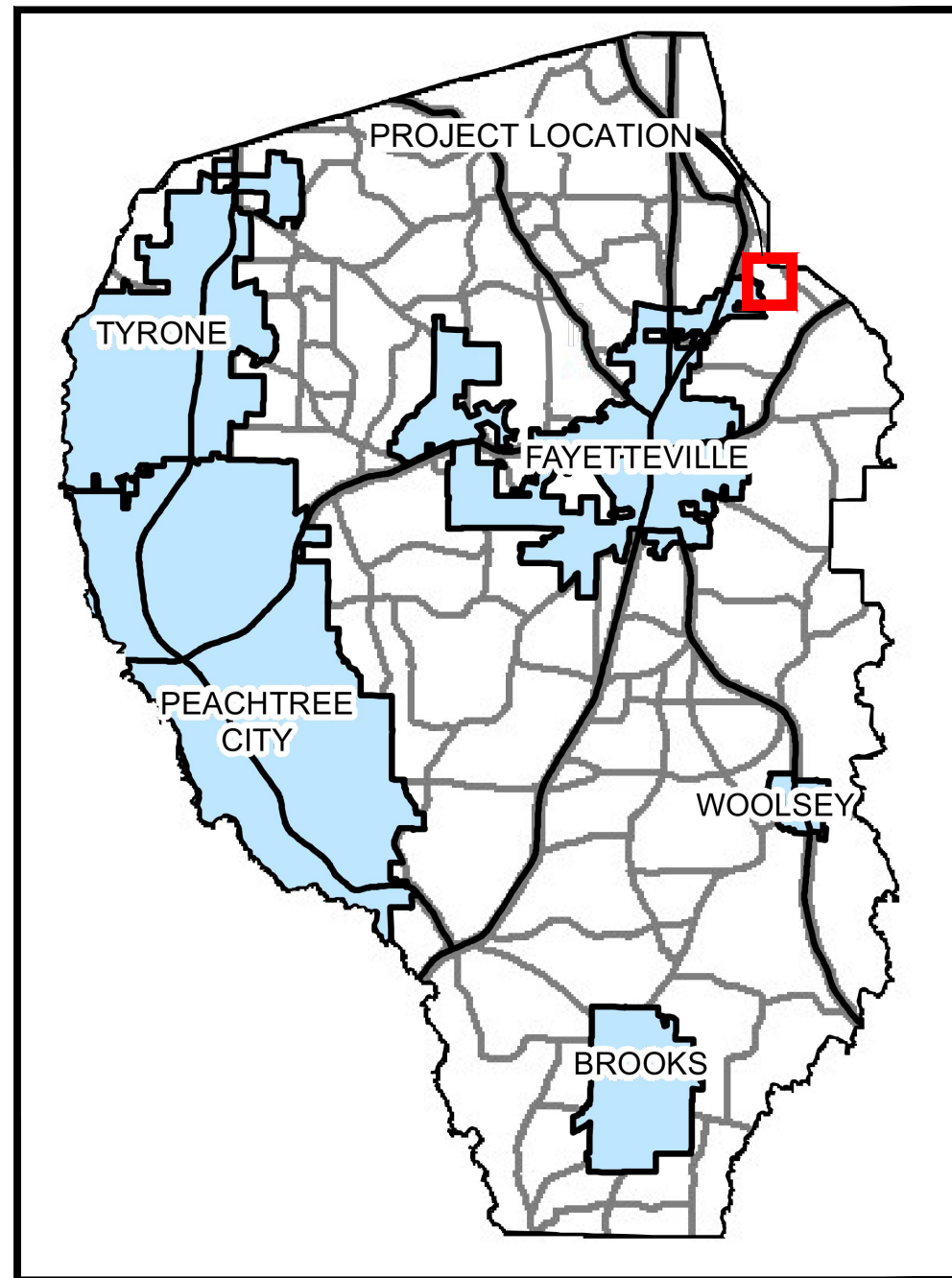
CIVIL COVER SHEET

SHEET NUMBER

G-001

SHEET 1 OF 19

ORIGINAL SHEET SIZE:
22" X 34"



VICINITY MAP
SCALE: NTS



CLIENT INFORMATION	
OWNER CONTACT (24-HR): PHIL MALLON PHONE (770) 313-9855 publicworks@FayetteCountyGA.GOV	CLIENT INFORMATION: FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT 140 STONEWALL AVE. W., SUITE 203, FAYETTEVILLE, GA. 30214
CIVIL DESIGN TEAM	
PROJECT MANAGER: DAVID MORGAN, P.E. MorganD@pondco.com CIVIL ENGINEER: DAVID MORGAN, P.E.	POND AND COMPANY 3500 PARKWAY LANE SUITE 500 PEACHTREE CORNERS, GA 30092 PHONE (678) 336-7740 FAX (678) 336-7744 WEB: www.pondco.com

IT IS THE OWNER'S/DEVELOPER'S RESPONSIBILITY TO BE IN COMPLIANCE WITH APPLICABLE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND CLEAN WATER ACT REQUIREMENTS.

PROJECT DESCRIPTION:
THE PROJECT CONSISTS OF REMOVING THE EXISTING DETERIORATED 42-INCH DIAMETER CMP STORM DRAINS. THE STORM DRAINS ARE TO BE REPLACED WITH 43 LF OF 54-INCH STORM DRAINS.

PROJECT INFORMATION:

DISTURBED AREA:
0.15 ACRES

IMPERVIOUS SURFACE AREA:
0.01 ACRES

REFERENCE DATUM:
HORIZONTAL: NAD 1983 (2011) - STATE PLANE COORDINATE SYSTEM OF GEORGIA - WEST ZONE.
VERTICAL: NAVD 1988.

PROJECT SPECIFICATION:
THE CONTRACTOR SHALL REFER TO AND USE THE SUPPLIED COUNTY PROJECT SPECIFICATIONS. FOR OTHER APPLICABLE STANDARDS OR SPECIFICATIONS, CONTRACTOR TO USE THE CURRENT GDOT APPROVED STANDARD SPECIFICATION CONSTRUCTION OF TRANSPORTATION SYSTEM DOCUMENT FOR THIS PROJECT.

UTILITY NOTIFICATION/RELOCATION CHECKBOX				
UTILITY COMPANY	PLAN PHASE	CONTACT	DATE NOTIFIED	UTILITY RESPONSE
SOUTHERN COMPANY GAS	35% DESIGN	MILTON FLOYD MFLOYD@SOUTHERNCO.COM CHRIS BRITTIAN WCBRITTI@SOUTHERNCO.COM	1/21/2022	NO RESPONSE
	65% DESIGN		5/2/2022	2" PLASTIC MAIN ON PROJECT
	95% DESIGN		7/7/2022	
FAYETTE COUNTY WATER SYSTEM (FCWS)	35% DESIGN	JAMES ROSSER (JROSSER@FAYETTECOUNTYGA.GOV) DAVID SCHREIBER (DSCHREIBER@FAYETTECOUNTYGA.GOV)	1/21/2022	NO RESPONSE
	65% DESIGN		5/2/2022	NO RESPONSE
	95% DESIGN		7/7/2022	6" PVC
COMCAST	35% DESIGN	REGINALD ARNEY (REGINALD_ARNEY@COMCAST.COM)	1/21/2022	NO RESPONSE
	65% DESIGN		5/2/2022	NO RESPONSE
	95% DESIGN		7/7/2022	
COWETA-FAYETTE EMC	35% DESIGN	STEVE JONES (STJONES@UTILITY.ORG)	1/21/2022	NO RESPONSE
	65% DESIGN		5/2/2022	NO RESPONSE
	95% DESIGN		7/7/2022	
AT&T	35% DESIGN	ANDRE WALTON (AW9750@ATT.COM)	1/21/2022	NO RESPONSE
	65% DESIGN		5/2/2022	NO RESPONSE
	95% DESIGN		7/7/2022	
ZAYO	35% DESIGN	ZAYOGEORGIARELOCATIONS@COBBFENDLEY.COM	5/31/2022	NO FACILITIES LETTER RECEIVED 5/31/2022
	65% DESIGN		NA	
	95% DESIGN			

CIVIL INDEX	
SHEET NUMBER	SHEET TITLE
G-001	CIVIL COVER SHEET
C-001	LEGEND AND ABBREVIATIONS
C-002	CIVIL GENERAL NOTES
V-001	TOPOGRAPHIC SURVEY
CD101	CIVIL SITE DEMOLITION PLAN
CG101	SITE AND GRADING PLAN
CG201	STORM DRAIN PROFILE
CG301	EASEMENT EXHIBIT
CE001	EROSION AND SEDIMENTATION CONTROL NOTES AND LEGEND
CE002	EROSION AND SEDIMENTATION CONTROL NOTES AND LEGEND
CE003	EROSION AND SEDIMENTATION CONTROL NOTES AND LEGEND
CE101	EROSION AND SEDIMENTATION CONTROL PLAN - INITIAL PHASE
CE201	EROSION AND SEDIMENTATION CONTROL PLAN - FINAL PHASE
CE501	EROSION CONTROL DETAILS
CE502	EROSION CONTROL DETAILS
CE503	EROSION CONTROL DETAILS
CE504	EROSION CONTROL DETAILS
C-501	CONSTRUCTION DETAILS
C-502	CONSTRUCTION DETAILS

811 Know what's below.
Call before you dig.
Dial 811
Or Call 800-282-7411

100% DESIGN ISSUED FOR CONSTRUCTION

FILE PATH: X:\FY21\1210492\04.CAD_BIM\04.02.CAD\IG-001.PLOTTED BY: MACHUCA, KELANI DATE: 2/14/24

GENERAL NOTES

- 1. BENCHMARK FOR CONSTRUCTION HAS BEEN PROVIDED ON SHEET V-001.
- 2. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND FAYETTE COUNTY STANDARDS. WHERE CONFLICTS OR OMISSIONS EXIST, FAYETTE COUNTY STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATION FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
- 3. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 4. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND FAYETTE COUNTY DEVELOPMENT REGULATIONS, LATEST EDITION, UNLESS OTHERWISE WAIVED.
- 5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE, SHALL BE FULLY BORNE BY THE CONTRACTOR.
- 6. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FIRST. ANY FEES ASSOCIATED WITH UTILITY RELOCATIONS SHALL BE BORNE IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY STANDARDS. IT IS REQUESTED UTILITY COMPANIES MOVE THEIR PARTICULAR UTILITIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. DIAL 811 BEFORE DIGGING OR CALL 800-282-7411.
- 7. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING TO BE HELD BETWEEN FAYETTE COUNTY, UTILITIES, ENGINEER OF RECORD, CONTRACTOR AND ANY SUBCONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 8. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING LANDSCAPE SPRINKLERS, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- 9. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST 48 HOURS BEFORE REQUIRED INSPECTION ON EACH AND EVERY PHASE OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY SCHEDULED TESTING. NO PRESSURE TESTING, OR FINAL TESTING WILL BE ACCEPTED UNLESS WITNESSED BY THE ENGINEER'S REPRESENTATIVE. THE CONTRACTOR IS REQUIRED TO NOTIFY 48 HOURS TO FAYETTE COUNTY FOR PROOF ROLL, OF GAB PLACEMENT.
- 10. ALL CONTRACTORS, FAYETTE COUNTY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR THEIR RESPECTIVE SURVEYING AND LAYOUT FROM BENCHMARK PROVIDED ON CONSTRUCTION PLANS. ANY SURVEY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED LAND SURVEYOR.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY CONSTRUCTION ACTIVITIES FROM TAKING PLACE OUTSIDE OF THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS. ANY ON-SITE OR OFFSITE AREAS DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
- 12. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TWO (2) SETS OF RECORD DRAWINGS TO THE ENGINEER OF RECORD WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS BEEN COMPLETED ON EACH PHASE.
- 13. TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS TAKEN FROM SURVEY PROVIDED BY: GEOSURVEY, LTD., DATED: 10-19-2021.
- 14. ANY CONSTRUCTION BEYOND THE RIGHT-OF-WAY AND/OR ESTABLISHED EASEMENT LINES, ONTO ADJACENT PROPERTY, REQUIRES ADJACENT PROPERTY OWNER PERMISSION AND NECESSARY EASEMENTS PRIOR TO PERFORMING ANY WORK. THE CONTRACTOR IS TO VERIFY SUCH EASEMENTS AND PERMISSIONS PRIOR TO DISTURBING ANY OFF-SITE PROPERTY.
- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO N.T.P. CONSTRUCTION TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
- 16. CLEAR AREAS INDICATED SHALL BE COMPLETELY CLEAR OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND.
- 17. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, PRESENCE OF ROCK, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE, ALL OF WHICH WILL AFFECT THE PRICING. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL, AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.
- 18. NEITHER OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR ERRORS OR MISINTERPRETATIONS RESULTING FROM USE OF INCOMPLETE SETS OF BIDDING DOCUMENTS.

DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND LICENSES FOR PERFORMING THE DEMOLITION WORK AND SHALL FURNISH A COPY OF THESE ITEMS TO THE ENGINEER PRIOR TO COMMENCING THE WORK. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE PERMITS.
- 2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR LOCAL AUTHORITIES FURNISHING GAS, WATER, ELECTRICAL, TELEPHONE, OR SEWER SERVICE SO THEY CAN REMOVE, RELOCATE, DISCONNECT, CAP OR PLUG THEIR EQUIPMENT IN ORDER TO FACILITATE DEMOLITION. DIAL 811 BEFORE DIGGING OR CALL 800-282-7411.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES, STRUCTURES, AND UTILITIES NOT MARKED FOR REMOVAL OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.
- 4. THE CONTRACTOR SHALL REMOVE PAVING MARKED FOR DEMOLITION WHICH INCLUDES ALL ASPHALT, CONCRETE, BASE, AND RETAINING WALLS (INCLUDING THE FOOTERS).
- 5. THE CONTRACTOR SHALL REMOVE TREES MARKED FOR REMOVAL WHICH INCLUDES THE ROOTS ASSOCIATED WITH THE TREE. TREES NOT MARKED FOR REMOVAL SHALL BE PROTECTED IN ACCORDANCE WITH THE FAYETTE COUNTY REGULATIONS.
- 6. THE CONTRACTOR SHALL REMOVE UNSALVAGEABLE MATERIALS AND YARD WASTE FROM THE SITE IMMEDIATELY AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS
- 7. THE CONTRACTOR SHALL SAW-CUT A SMOOTH STRAIGHT EDGE ON ANY PAVEMENT PROPOSED FOR DEMOLITION PRIOR TO ITS REMOVAL. PRIOR TO CONNECTING PROPOSED PAVEMENT TO EXISTING PAVEMENT, THE CONTRACTOR SHALL ENSURE THAT THE EDGE OF THE EXISTING PAVEMENT IS STRAIGHT AND UNIFORM.
- 8. THE DEMOLITION SHALL BE PHASED TO PROVIDE AT LEAST ONE 12 FOOT LANE OF TRAFFIC AT ALL TIMES.
- 9. CONTRACTOR TO FOLLOW ALL APPLICABLE OSHA STANDARDS FOR ALL EXCAVATIONS.

FAYETTE COUNTY WATER SYSTEM NOTES:

- 1. ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH FAYETTE COUNTY WATER SYSTEM SPECIFICATIONS.
- 2. ALL MATERIALS SHALL CONFORM TO FAYETTE COUNTY DEVELOPMENT SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE FAYETTE COUNTY WATER SYSTEM SUBMITTALS ON ALL PIPE AND MATERIALS USED FOR APPROVAL. ANY WORK DONE BY THE CONTRACTOR SHALL BE AT HIS OWN RISK UNTIL REVIEW AND APPROVAL OF THESE SUBMITTALS ARE COMPLETE.
- 3. THE CONTRACTOR SHALL NOTIFY THE FAYETTE COUNTY WATER SYSTEM 48 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE.
- 4. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE FAYETTE COUNTY WATER SYSTEM BEFORE ANY WORK IS HIDDEN FROM VIEW.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING THE LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND COORDINATE HIS WORK WITH EXISTING UTILITIES WHICH CONFLICT WITH HIS WORK. CONTRACTOR SHALL MAINTAIN SUCH UTILITIES SHOWN OR NOT SHOWN ON THIS PLAN.
- 7. ALL VALVE BOXES ARE TO HAVE COLLARS AND MARKERS AS REQUIRED BY THE FAYETTE COUNTY WATER SYSTEM DEPARTMENT.
- 8. WATER LINES SHALL HAVE A MINIMUM COVER OF 4 FEET FROM FINISHED GRADE.
- 9. MINIMUM HORIZONTAL DISTANCE BETWEEN WATER LINES AND SEWER SHALL BE 10 FEET AND VERTICAL DISTANCE MINIMUM OF 2 FEET.
- 10. ALL OTHER UNDERGROUND UTILITIES OR STRUCTURES SHALL BE A MINIMUM HORIZONTAL AND VERTICAL DISTANCE OF 2 FEET FROM WATER LINES.
- 11. WATER LINES SHALL BE LOCATED 7'-0" FROM THE BACK OF THE CURB OR PER AS APPROVED UTILITY PLACEMENT DETAIL.
- 12. ALL WATER SERVICES SHALL BE MARKED WITH A SAWED "V" NOTCH PAINTED BLUE ON THE CURB.
- 13. ALL WATER MAIN CROSSING UNDER PAVEMENT SHALL BE DIP IN STEEL CASING AS PER FAYETTE COUNTY WATER SYSTEM SPECIFICATIONS.
- 14. ALL VALVES AND FITTINGS ARE TO BE RESTRAINED WITH APPROPRIATE TYPE AND NUMBER OF EBBA IRON OR UNIFLANGE RESTRAINT SYSTEM APPURTENANCES APPROVED BY THE FAYETTE COUNTY WATER SYSTEM PRIOR TO CONSTRUCTION. ANY CONCRETE BLOCKING THAT IS ALLOWED SHALL BE INSTALLED TO UNDISTURBED EARTH.
- 15. ALL SERVICE LINES CROSSING UNDER PAVEMENT OR IN FRONT OF LOTS SHALL BE ENCASED IN 2" CONDUIT MATERIAL APPROVED BY FAYETTE COUNTY WATER SYSTEM.

ESPC NOTES

- 1. 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.
- 2. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- 3. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- 4. SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
- 5. INSPECT AND DOCUMENT THE CONDITION OF RUNOFF CONTROLS EVERY 7 DAYS, OR EVERY 14 DAYS AND WITHIN 24 HOURS AFTER EACH RAIN OF 0.5 INCH OR MORE.
- 6. PERMITEE SHALL SUBMIT A SIGNED NOTICE OF TERMINATION (NOT) FORM TO THE GEORGIA DIVISION OF WATER AFTER THE SITE HAS BEEN FINALLY STABILIZED.
- 7. 67 CY/AC SEDIMENT STORAGE SUBSTANTIALLY HANDLED BY SILT FENCE. THE LINEAR NATURE OF THIS PROJECT COUPLED WITH LIMITED WORK AREA (ESPECIALLY ADJACENT TO STATE WATER) DOES NOT PROVIDE OPPORTUNITY FOR INSTALLATION OF PERMANENT BMPS TO PREVENT POLLUTANTS FROM DISCHARGING THE SITE WITHOUT FURTHER ENCROACHMENT INTO ADJACENT PRIVATE PROPERTY. DURING CONSTRUCTION, SILT FENCE WILL BE USED TO PREVENT POLLUTANTS FROM DISCHARGING THE SITE. AFTER CONSTRUCTION IS COMPLETE ALL AREAS WILL BE STABILIZED.
- 8. SOIL STOCKPILES MUST BE LOCATED AWAY FROM STREAMS, PONDS, SWALES AND CATCH BASINS. STOCKPILES MUST BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.
- 9. SEDIMENT-LADEN WATER ENCOUNTERED DURING TRENCHING, BORING, OR OTHER EXCAVATION ACTIVITIES MUST BE PUMPED TO A SEDIMENT TRAPPING OR FILTERING DEVICE AND CLEANED BEFORE BEING DISCHARGED. DISCHARGES TO STORM DRAINS, DITCHES, OR WATER BODIES MUST BE COVERED UNDER A EPD PERMIT.
- 10. ALL BARE SOIL AREAS NOT SUBJECT TO ACTIVE CLEARING, EXCAVATION, GRADING, OR FILL ACTIVITIES MUST BE STABILIZED WITH TEMPORARY OR PERMANENT SEEDING OR MULCHING WITHIN 14 DAYS.
- 11. GOOD HOUSEKEEPING PRACTICES MUST BE APPLIED TO PREVENT CONTAMINATED RUNOFF OR OTHER IMPACTS FROM PAINT OR CONCRETE WASTES, FUELS AND OILS, TRASH AND LITTER, OR OTHER MATERIALS.
- 12. SILT FENCES, DITCH CHECKS, NON-PERMANET SEDIMENT TRAPS, AND OTHER TEMPORARY CONTROLS MUST BE REMOVED AFTER VEGETATION IN UPGRADIENT AREAS IS ESTABLISHED AND DITCHES ARE STABLE.
- 13. GOOD HOUSEKEEPING MEASURES FOR MATERIALS STORAGE AND HANDLING, VEHICLE FUELING AND MAINTENANCE, SPILL RESPONSE AND CLEANUP, AND WASTE MANAGEMENT MUST BE FOLLOWED TO ENSURE THAT RUNOFF FROM THE SITE IS FREE OF CONTAMINANTS.
- 14. ALL BMPS SELECTED SHALL BE INSTALLED, OPERATED, AND MAINTAINED ACCORDING TO GSWCC FIELD MANUAL, GEORGIA DIVISION OF WATER GUIDELINES, MANUFACTURER'S REQUIREMENTS, OR STANDARD INDUSTRY PRACTICE, AS APPROPRIATE.
- 15. APPROVED PLANS AND NPDES DAILY LOG MUST BE ONSITE AT ALL TIMES.

EARTHWORK, GRADING, STABILIZATION, PAVING AND DRAINAGE NOTES

- 1. COMPACT ALL UTILITY TRENCHES WITHIN ROADWAYS TO 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180) AND TO 95% WITHIN OTHER AREAS.
- 2. ALL ORGANIC SOILS AS DETERMINED WITHIN UTILITY TRENCHES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AND COMPACTED TO NO LESS THAN 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180).
- 3. STABILIZED SUBGRADE TO MEET SPECIFIED REQUIREMENTS.
- 4. ASPHALTIC CONCRETE TO GDOT STANDARD SPECIFICATION (LATEST EDITION) SECTION 916.1 AND FAYETTE COUNTY, WHICHEVER IS GREATER.
- 5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- 6. ALL CONCRETE FLUMES, WALKS, AND CURBS SHALL BE CONSTRUCTED WITH 3000 PSI CONCRETE.
- 7. ALL ON-SITE AREAS DISTURBED BY THE CONSTRUCTION SHALL BE STABILIZED USING MEASURES THAT MATCH THE EXISTING VEGETATIVE CONDITIONS OF THE SITE. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION OF PERMANENT GRASSING.
- 8. THE REINFORCED CONCRETE PIPE SHALL BE CLASS III WITH WALL THICKNESS "B" CONFORMING TO ASTM C - 76 OR AWWWA 302 -74 AND GASKETS SHALL BE IN ACCORDANCE WITH ASTM C - 443 OR ASTM D - 412.
- 9. ALL PIPE CALL OUTS ARE MEASURED CENTER LINE TO CENTER LINE FOR MANHOLES AND INLETS AND FROM THE END OF THE PIPE FOR MITERED END SECTIONS.
- 10. ALL DEWATERING COSTS ASSOCIATED WITH THE INSTALLATION AND CONSTRUCTION OF THE UNDERGROUND UTILITIES; STORM WATER PIPES AND MANHOLES; SANITARY SEWER MAINS, FORCE MAINS, MANHOLES, AND LIFT STATIONS; AND STORM WATER MANAGEMENT SYSTEMS SHALL BE INCLUDED AS PART OF THE CONSTRUCTION BID COSTS. THE CONTRACTOR SHALL SUBMIT FOR WATER USE PERMITS IF REQUIRED FOR DEWATERING ACTIVITIES.
- 11. ALL PIPES SHALL HAVE 3 FEET MINIMUM COVER UNLESS OTHERWISE SPECIFIED IN PLANS, CONTRACTOR SHALL TAKE CARE TO PROVIDE PROPER GRADE ELEVATIONS AND ALIGNMENTS.
- 12. THE CONTRACTOR MUST INSTALL AND MAINTAIN GRASS OR SOD ON EXPOSED SLOPES WITHIN 48 HOURS OF COMPLETED FINAL GRADES, AS NOTED ON PLANS, AND AT ANY OTHER TIME AS NECESSARY TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES TO ANY DOWNSTREAM WATER BODY, WETLAND, OR OFF-SITE PROPERTY. SODDING ON SLOPES 3:1 AND STEEPER SHALL BE STAKED.
- 13. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY AND SEDIMENT INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AND SILT FENCES AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY AND SEDIMENT BARRIERS MUST BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS.
- 14. EXISTING RUNOFF CURVE NUMBER FOR THE PROJECT: 65. PROPOSED RUNOFF CURVE NUMBER FOR THE PROJECT: 65.
- 15. ALL CONCRETE STRUCTURES SHOWN ARE PRE-CAST FROM AN APPROVED VENDOR. CAST-IN-PLACE METHODS MAY BE USED FOR STRUCTURE COMPONENTS WHERE APPLICABLE FOR APPROVAL.

OTHER UTILITY INFORMATION

- 1. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES WHICH MAY HAVE THEIR UTILITIES WITHIN THE CONSTRUCTION AREAS TO LOCATE THEIR FACILITIES IN THE FIELD FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION. DIAL 811 BEFORE DIGGING OR CALL 800-282-7411.
- 2. DUCTILE IRON PIPE SHALL BE ENCASED IN POLYETHYLENE TWENTY-FIVE (25) FEET ON EACH SIDE OF ANY PERPENDICULAR CROSSING OF METALLIC GAS MAINS OR ANY OTHER CATHODICALLY PROTECTED PIPELINE AND FOR LOCATIONS PARALLEL TO AND WITHIN TEN FEET OF METALLIC GAS MAINS OR OTHER CATHODICALLY PROTECTED PIPE AND THROUGH THE AREA OF INFLUENCE OF CATHODIC PROTECTION ANODE BED.

SPILL CONTROL NOTES:

- 1. IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS NOTES OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
 - a. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
 - b. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
 - c. SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.
 - d. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
 - e. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
- 2. PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY 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 IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

TRAFFIC CONTROL NOTES

- 1. THE CONTRACTOR SHALL SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN TO THE COUNTY FOR APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 2. ALL REQUIRED TRAFFIC SIGNAGE MUST MEET MUTCD STANDARDS.
- 3. ALL REQUIRED TRAFFIC STRIPING MUST MEET MUTCD AND GDOT PLAN SPECIFICATIONS AND MUST BE THERMO-PLASTIC.
- 4. ALL STRIPING LAYOUTS MUST BE APPROVED BY THE COUNTY TRAFFIC ENGINEER PRIOR TO FINAL APPLICATION.
- 5. CONTRACTOR TO COORDINATE LANE CLOSURES WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES.

FILE PATH: X:\FY21\1210482\04_CAD_BIM\04_02_CAD\C-001_PLOTTED BY: MACHUCA, KELANI DATE: 2/14/24

D

C

B

A



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EOR/AOR SEAL



CLIENT INFORMATION

FAYETTE COUNTY

140 STONEWALL AVE W, STE 203
FAYETTEVILLE, GA 30214

PROJECT NAME

**NORTH BEND
COURT
CULVERT
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW
DRAWN BY: MDW
CHECKED BY: DMM/MDM
SUBMITTED BY: DMM
DATE: February 14, 2024
PROJECT # 1210492

SHEET TITLE

CIVIL GENERAL NOTES

SHEET NUMBER

C-002

SHEET 3 OF 19

ORIGINAL SHEET SIZE: 22" X 34"

SITE PHOTOGRAPHS

VICINITY MAP

UTILITY NOTE

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY:
SUBSURFACE UTILITY INVESTIGATIONS, LLC
 898 SWEET BRIAR TRAIL
 CONYERS, GEORGIA 30094
 (770) 557-4142

SUBSURFACE UTILITY INVESTIGATIONS, LLC UTILIZED SEVERAL TECHNIQUES INCLUDING, BUT NOT LIMITED TO, ELECTROMAGNETIC, MAGNETIC LOCATION FOR FERROUS METALS, ACROUSTIC AND PASSIVE FREQUENCIES TO GEOMATE AND MARK BURIED UTILITIES ON THE SURFACE WITH PAINT AND FLAGS COVERING THE ENTIRE AREA OF THE PROJECT.

THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON THIS SITE BUT NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

INFORMATION REGARDING MATERIAL AND SIZE OF UTILITIES IS BASED ON RECORDS ACQUIRED FROM THE UTILITY OWNERS.

LEGEND

STANDARD ABBREVIATIONS	STANDARD SYMBOLS
AC	AIR CONDITIONER
BH	BORE HOLE
BSL	BUILDING SETBACK LINE
CI	CURB INLET
CMP	CONCRETE METAL PIPE
CM	CONCRETE MONUMENT
CD	SANITARY CLEANOUT
CRP	COMMUNICATION FEDESTAL
CTP	CRIMPED TOP PIPE
D	DROP INLET
DIP	DUCTILE IRON PIPE
DWB	DOUBLE WING CATCH BASIN
FNC	FENCE
FM	FINDING
GM	GAS METER
JB	JUNCTION BOX
MH	MANHOLE
OCS	OUTLET CONTROL STRUCTURE
OTF	OPEN TOP PIPE
PM	POWER METER
PS	POST SIGN
PBS	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
RCP	RENFORCED CONCRETE PIPE
RBR	IRON RENEORCING BAR
RST	5/8" IRON SET SCREW OF 1/2"
SS	SANITARY SEWER
SWB	SINGLE WING CATCH BASIN
TRANS	ELECTRIC TRANSFORMER
OT	OVERHEAD TRAFFIC SIGNAL LIGHT
QW	QUIV WIRE
PL	POWER LINE
LP	LIGHT POLE
TR	ELECTRIC TRANSFORMER
WV	WATER VAULT
GV	GAS VALVE
GM	GAS METER
WV	WATER VALVE
WM	WATER METER
FH	FIRE HYDRANT
UL	UNDERGROUND ELECTRIC LINE
UGL	UNDERGROUND GAS LINE
UCM	UNDERGROUND COMMUNICATION LINE
UGW	UNDERGROUND WATER LINE
PI	PHOTO POSITION INDICATOR
RPSC	REGULAR PARKING SPACE COUNT
HPSP	HANDICAP PARKING SPACE
TI	TREE POSITION INDICATOR
SI	SI

CLOSURE STATEMENT

THE FIELD CLOSURE UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 33,333... AND WAS ADJUSTED USING THE LEAST SQUARES METHOD. A TRIMBLE SC SERIES TOTAL STATION AND TRIMBLE TSC-3 DATA COLLECTOR WERE USED TO COLLECT THIS FIELD DATA.

THIS PLAT HAS BEEN CALCULATED FOR CLOSURE AND WAS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 33,333... FEET, 333,333... INCHES.

IF YOU DIG

811 Know what's below.
 Call before you dig.
 Dial 811
 Or Call 800-282-7411

TOPOGRAPHIC SURVEY OF
NORTH BEND COURT CULVERT
 FOR
Pond & Company, Inc.

Land Surveying • JD Laser Scanning
 1560 Barnes Mill Road
 Marietta, Georgia 30062
 Phone: (770) 795-9900
 Fax: (770) 795-8880
 www.geosurvey.com
 EMAIL: info@geosurvey.com
 Certificate of Authorization #LS-000621

GS JOB NO.	20217150	DRAWING SCALE:	SURVEY DATE:
FIELD WORK:	ZM	STATE:	GA
PROJ. MGR:	CAJ	COUNTY:	FAYETTE
REVIEWED:	BC	LAND LOT:	202
DWG FILE:	20217150.dwg	DISTRICT:	5TH

EOR/AOR SEAL

CLIENT INFORMATION

FAYETTE COUNTY
 140 STONEWALL AVE W, STE 203
 FAYETTEVILLE, GA. 30214

PROJECT NAME

NORTH BEND COURT CULVERT REPLACEMENT
 FAYETTE COUNTY, GA

DRAWING ISSUE

DATE	DESCRIPTION	MARK

DESIGNED BY: MDW
 DRAWN BY: MDW
 CHECKED BY: DMM/MDM
 SUBMITTED BY: DMM
 DATE: February 14, 2024
 PROJECT #: 1210492

SHEET TITLE

TOPOGRAPHIC SURVEY

SHEET NUMBER

V-001

SHEET 4 OF 19
 ORIGINAL SHEET SIZE: 22" X 34"

A1 TOPOGRAPHIC SURVEY
 SCALE: 1" = 30'



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Georgia 30092
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CLIENT INFORMATION

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140 STONEWALL AVE W, STE 203
FAYETTEVILLE, GA. 30214

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FAYETTE COUNTY, GA

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CHECKED BY: DMM/MDM
SUBMITTED BY: DMM
DATE: February 14, 2024
PROJECT # 1210492

SHEET TITLE

**CIVIL SITE
DEMOLITION
PLAN**

SHEET NUMBER

CD101

SHEET 5 OF 19

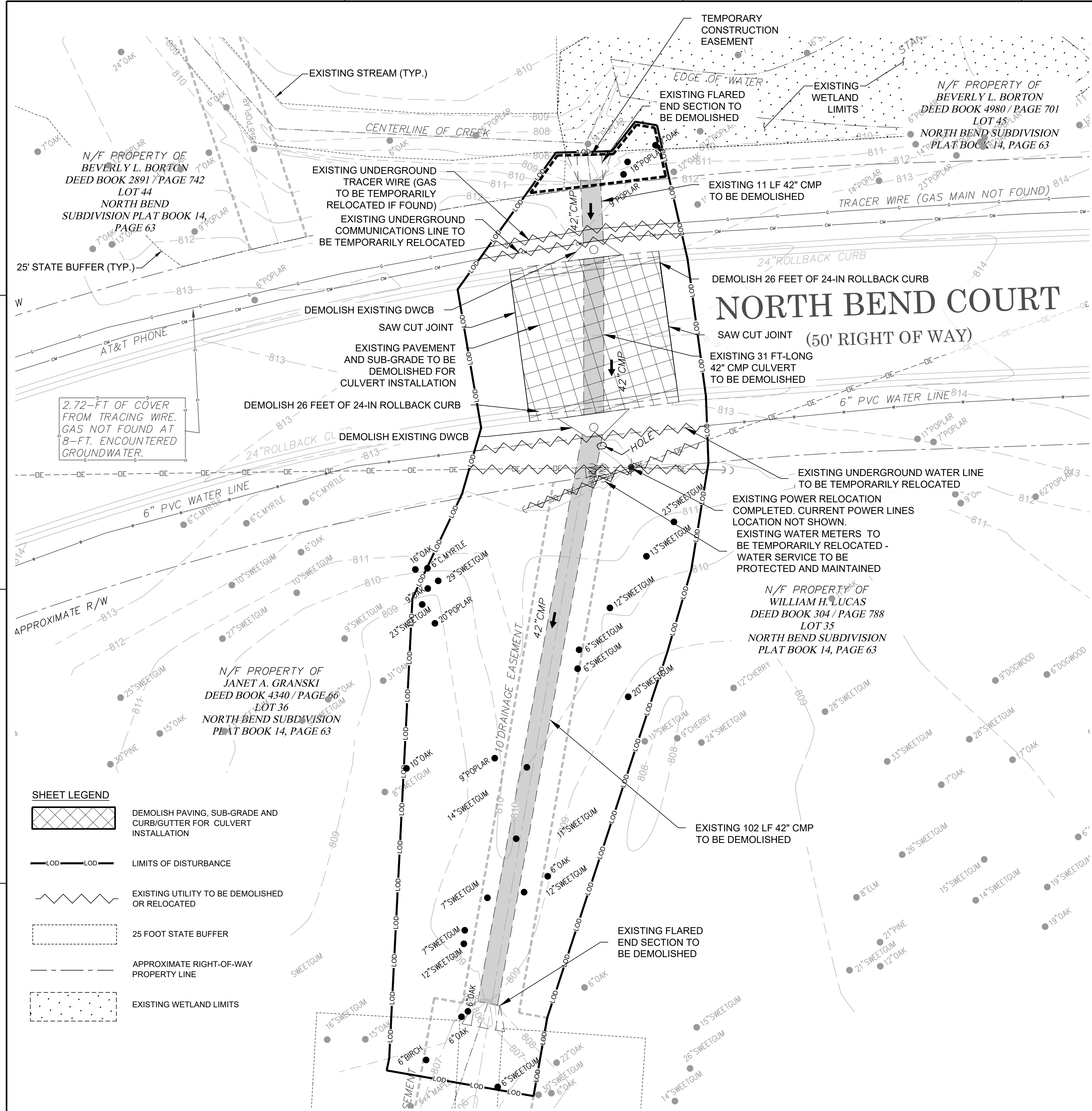
ORIGINAL SHEET SIZE:
22" X 34"

GENERAL SHEET NOTES:

- REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS, AND CIVIL NOTES.
- THIS SHEET IS PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
- CONTRACTOR TO COORDINATE LANE CLOSURE WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES.
- ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY THE FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTORS REPRESENTATIVE BEFORE CONCRETE IS PLACED.
- AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. (SHALL BE CERTIFIED BY A GEORGIA REGISTERED LAND SURVEYOR)
- CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
- CONTRACTOR TO MAINTAIN UTILITY SERVICES DURING CONSTRUCTION, WITH MINIMAL INTERRUPTION.
- CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB, DRIVEWAYS, ASPHALT, FENCING OR EXISTING ROADWAY OUTSIDE OF PAVING LIMITS DURING CONSTRUCTION.
- ANY DAMAGED ASPHALT OUTSIDE OF THE RESURFACE OR PAVING LIMITS SHOWN ON PLANS WILL REQUIRE TO BE MILLED AND RESURFACED.
- CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO PROTECT OR RELOCATE THE EXISTING INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO GAS, COMMUNICATIONS, POWER, AND WATER.
- EXISTING CONDITIONS AS SHOWN ARE BASED ON SURVEY PROVIDED IN GENERAL NOTES #13 FROM SHEET C-002. EXISTING CONDITIONS SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE CONFIRMED BY CONTRACTOR PRIOR TO WORK.
- LIMITS OF DISTURBANCE TO BE ENTIRELY CLEARED OF VEGETATION. REMOVE ALL CLEARED MATERIAL(S).
- TOPOGRAPHIC SURVEY FOR NORTH BEND COURT FOR FAYETTE COUNTY, PREPARED BY: GEOSURVEY, LTD., DATED: 10/19/2021.
- FAYETTE COUNTY TO COORDINATE AND OBTAIN REQUIRED EASEMENTS.
- UTILITIES SHOWN ON PLANS LOCATED IN FIELD BY UNITED CONSULTING. PROJECT NUMBER ARCD5-21-GA-05657-01, DATED SEPTEMBER 7, 2021.

DEMOLITION NOTES:

- A. PROTECTION:**
- PERFORM DEMOLITION SO AS TO PREVENT DAMAGE TO ADJACENT IMPROVEMENTS AND FACILITIES TO REMAIN TO INCLUDE AREAS OUTSIDE OF APPROVED LIMITS OF DISTURBANCE
 - PROTECT NEW OR EXISTING WORK FROM DAMAGE DURING DEMOLITION OPERATIONS.
 - PROTECT EXISTING SITE APPURTENANCES AND LANDSCAPING TO REMAIN.
 - DAMAGES: WITHOUT COST TO THE OWNER AND WITHOUT DELAY, REPAIR ANY DAMAGES CAUSED TO FACILITIES TO REMAIN. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED ROADWAY/ASPHALT DURING PROJECT CONSTRUCTION.
 - CONTRACTOR TO ESTABLISH TEMPORARY BENCHMARKS ON SITE AT LOCATIONS THAT WILL REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
 - CONTRACTOR TO COORDINATE WITH THE COUNTY AND UTILITY COMPANIES ON THE RELOCATION OF UTILITIES.
 - CONTRACTOR TO MAINTAIN ACCESS TO AFFECTED PROPERTIES AT ALL TIMES.
 - WATER SERVICE TO BE PROTECTED AND MAINTAINED.
- B. REMOVAL & DISPOSAL OF DEMOLISHED MATERIALS:**
- ALL DEMOLISHED OR REMOVED ITEMS AND MATERIALS SHALL BE CONSIDERED SCRAP EXCEPT FOR THOSE INDICATED TO REMAIN, THOSE INDICATED TO BE REINSTALLED, THOSE INDICATED TO BE SALVAGED, AND HISTORICAL ITEMS.
 - ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
 - PROMPTLY DISPOSE OF MATERIALS RESULTING FROM DEMOLITION OPERATIONS. DO NOT ALLOW MATERIALS TO ACCUMULATED ON SITE.
 - TRANSPORT MATERIALS RESULTING FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF-SITE.
 - OFF-SITE DISPOSAL LOCATION SHALL NOT BE WITHIN ONE-HALF MILE OF ANY PORTION OF THE PROJECT SITE OR WITHIN SIGHT OF THE PROJECT SITE.
 - DO NOT BURN REMOVED MATERIALS ON PROJECT SITE.
 - CONTRACTOR TO COORDINATE THE LOCATION OF ANY MATERIAL LAYDOWN AREAS WITH THE COUNTY AND MAINTAIN ENOUGH CLEAR SPACE FOR CONSTRUCTION EQUIPMENT ACCESS.
 - ONSITE EXCAVATED MATERIAL MAY NOT BE SUITABLE FOR RE-USE. CONTRACTOR PRICING SHALL INCLUDE ALL MATERIALS INCLUDING IMPORTED FILL, AS NECESSARY.
- C. POLLUTION CONTROLS:**
- CONTROL THE SPREAD OF DUST AND DIRT WITH PRACTICAL MEANS.
 - OBSERVE ENVIRONMENTAL PROTECTION REGULATIONS.
 - DO NOT ALLOW WATER USAGE THAT RESULTS IN FREEZING OR FLOODING.
 - DO NOT ALLOW ADJACENT IMPROVEMENTS TO REMAIN TO BECOME SOILED BY DEMOLITION OPERATIONS.
- D. CLEANING:**
- REMOVE TOOLS AND EQUIPMENT. DISPOSE OF SCRAP.
 - LEAVE EXTERIOR AREAS FREE OF DEBRIS.
 - CLEAN SOIL, SMUDGES, AND DUST FROM SURFACES TO REMAIN.
 - RETURN STRUCTURES AND SURFACES TO REMAIN TO CONDITION EXISTING PRIOR TO COMMENCEMENT OF DEMOLITION.

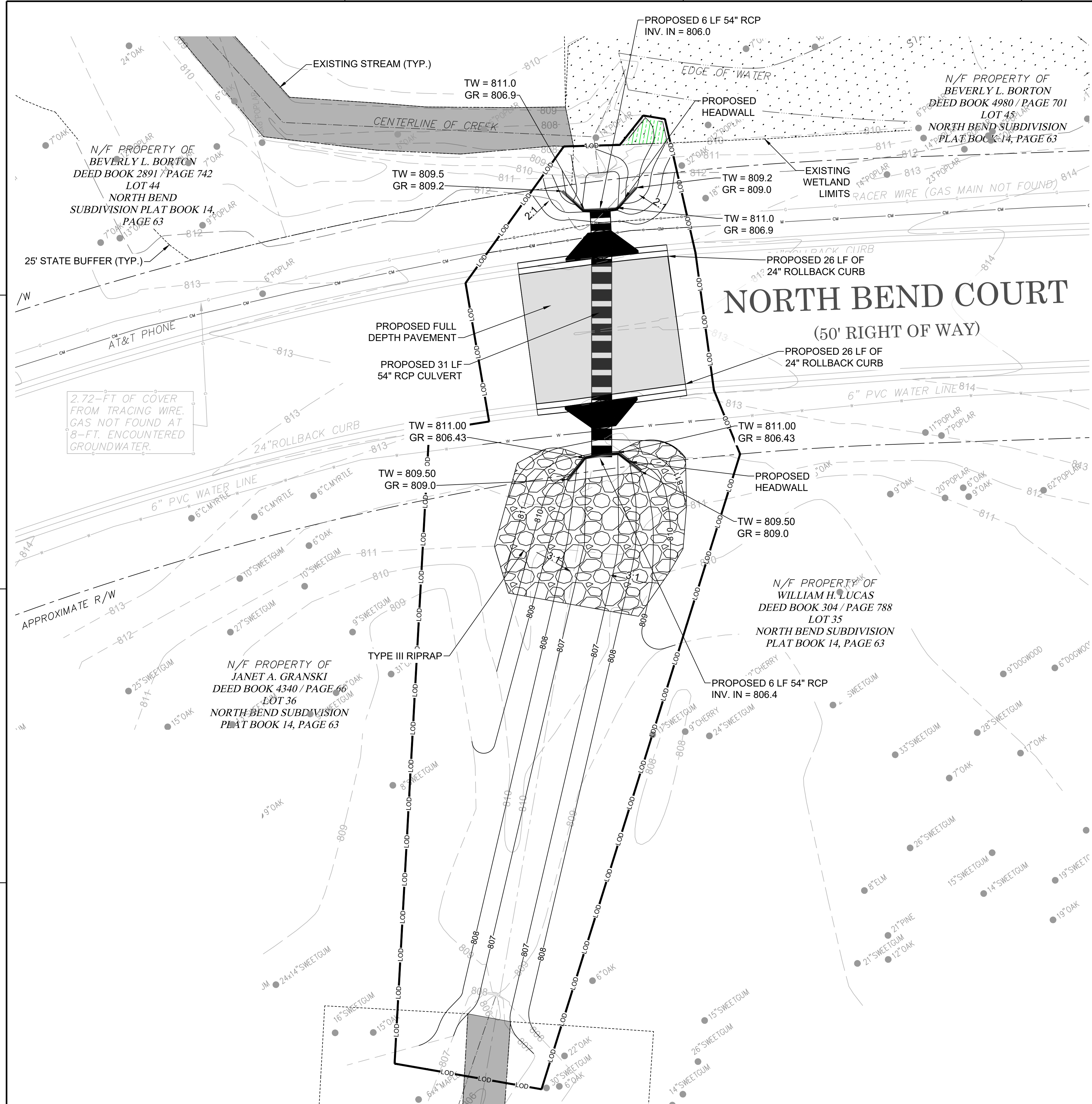


SHEET LEGEND

- DEMOLISH PAVING, SUB-GRADE AND CURB/GUTTER FOR CULVERT INSTALLATION
- LIMITS OF DISTURBANCE
- EXISTING UTILITY TO BE DEMOLISHED OR RELOCATED
- 25 FOOT STATE BUFFER
- APPROXIMATE RIGHT-OF-WAY PROPERTY LINE
- EXISTING WETLAND LIMITS

(A1) CIVIL SITE DEMOLITION PLAN
SCALE: 1" = 10'

FILE PATH: X:\FY21\1210492\04\CAD_BIM\04_02\CAD\CD101 PLOTTED BY: MACHUCA, KELANI DATE: 2/14/24



GENERAL SHEET NOTES

- REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS, AND CIVIL NOTES.
- THIS SHEET IS PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
- CONTRACTOR TO COORDINATE LANE CLOSURE WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES. CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD) AND GDOT STANDARDS.
- ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY ENGINEER'S OR OWNER'S FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTOR'S REPRESENTATIVE BEFORE CONCRETE IS PLACED.
- AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. (ALL AS-BUILT DRAWINGS SHOULD BE CERTIFIED BY A GEORGIA REGISTERED LAND SURVEYOR).
- CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
- CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB OR DRIVEWAYS DURING CONSTRUCTION.
- CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED ROADWAY/ASPHALT DURING PROJECT CONSTRUCTION, AS WELL AS REPLACEMENT AND RELOCATION OF MAILBOXES.
- THE STRUCTURE SHOP DRAWINGS ARE TO BE APPROVED BY ENGINEER FOR OWNER.
- 22.4 SQ. FT. OF IMPACT TO EXISTING WETLANDS.
- UTILITIES SHOWN ON PLANS LOCATED IN FIELD BY UNITED CONSULTING, PROJECT NUMBER ARCD5-21-GA-05657-01, DATED SEPTEMBER 7, 2021.

GRADING NOTES:

- ROAD TO BE GRADED FROM CROWN TO EDGE OF ASPHALT AT 1/4" PER 1'
- MAXIMUM SLOPES ALLOWED WITHIN FAYETTE COUNTY RIGHT-OF-WAY SHALL BE 2:1. PROVIDE GENTLER SLOPES WHERE POSSIBLE.

NOTE

TEMPORARY AND PERMANENT EASEMENTS ARE SHOWN ON CG301.

SHEET LEGEND

	FULL DEPTH ASPHALT PAVING AND CURB/GUTTER (FOUNDATION TYPE REFER TO FAYETTE COUNTY TYPICAL)
	LIMITS OF DISTURBANCE
	APPROXIMATE RIGHT OF WAY PROPERTY LINE
	25 FOOT STATE BUFFER
	EXISTING WETLAND LIMITS
	EXISTING STREAM LIMITS
	TYPE I RIPRAP
	WATERLINE
	OVERHEAD ELECTRICAL
	COMMUNICATION LINE
	GAS LINE
	DISTURBED WETLANDS. 23 S.F. OF IMPACT TO EXISTING WETLAND

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 CLIENT INFORMATION

FAYETTE COUNTY
 140 STONEWALL AVE W, STE 203
 FAYETTEVILLE, GA. 30214

PROJECT NAME
**NORTH BEND COURT
 CULVERT
 REPLACEMENT**
 FAYETTE COUNTY, GA

DRAWING ISSUE	DATE	DESCRIPTION	MARK

DESIGNED BY: MDW
 DRAWN BY: MDW
 CHECKED BY: DMM/MDM
 SUBMITTED BY: DMM
 DATE: February 14, 2024
 PROJECT # 1210492

SHEET TITLE
**SITE AND
 GRADING PLAN**

SHEET NUMBER
CG101
 SHEET 6 OF 19
 ORIGINAL SHEET SIZE:
 22" X 34"

(A1) SITE AND GRADING PLAN
 SCALE: 1" = 10'

FILE PATH: X:\FY21\1210492\04-CAD_BIM\04_02-CAD\CG101 PLOTTED BY: MACHUCA, KELANI DATE: 2/14/24

GENERAL SHEET NOTES

- 1. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS AND DEPTHS.

FLOW SUMMARY TABLE				
STORM FREQUENCY	FLOW (CFS)	HEADWATER ELEVATION (FT)	OUTLET VELOCITY (FPS)	DOWNSTREAM VELOCITY (FPS)
10-YEAR	85.9	808.71	6.81	13.66
25-YEAR	102.2	808.97	8.10	14.32
100-YEAR	127.8	809.33	10.14	15.22

DRAINAGE AREA = 76 ACRES
 AVERAGE STREAM SLOPE = 0.7%



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CLIENT INFORMATION

FAYETTE COUNTY

140 STONEWALL AVE W, STE 203
 FAYETTEVILLE, GA. 30214

PROJECT NAME

**NORTH BEND COURT
 CULVERT
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FAYETTE COUNTY, GA

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DESIGNED BY: MDW
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 PROJECT # 1210492

SHEET TITLE

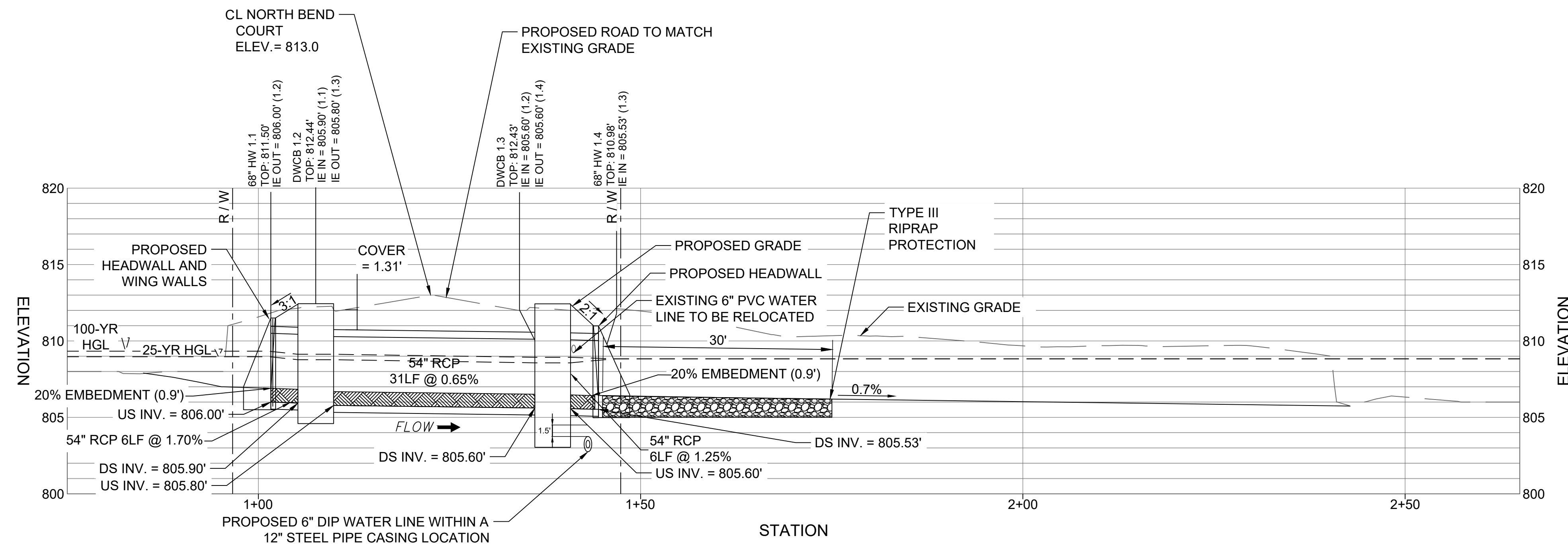
**STORM DRAIN
 PROFILE**

SHEET NUMBER

CG201

SHEET 7 OF 19

ORIGINAL SHEET SIZE:
 22" X 34"



PROPOSED 54" RCP CULVERT PROFILE

HORIZ. SCALE 1" = 10'

VERT. SCALE 1" = 5'

N/F PROPERTY OF
BEVERLY L. BORTON
DEED BOOK 2891 / PAGE 742
LOT 44
NORTH BEND
SUBDIVISION PLAT BOOK 14,
PAGE 63

PARCEL 3
PERMANENT EASEMENT
142 S.F., 0.003 AC

N70° 19' 02.79"E
8.655'

PARCEL 3 POB (POINT OF BEGINNING)
N: 1269495.71
E: 2219796.07

PARCEL 1
PERMANENT EASEMENT
399 S.F., 0.009 AC

S66° 20' 37.72"E
8.173'

N/F PROPERTY OF
JANET A. GRANSKI
DEED BOOK 4340 / PAGE 66
LOT 36
NORTH BEND SUBDIVISION
PLAT BOOK 14, PAGE 63

PARCEL 1 & 2 TCE POB
(POINT OF BEGINNING)
N: 1269433.12
E: 2219759.60

PARCEL 1
TEMPORARY EASEMENT
1873 S.F., 0.043 AC

N45° 29' 25.76"W
16.000'

S56° 53' 00.75"E
9.752'

N73° 02' 39.50"E
6.496'

S46° 07' 56.20"E
3.214'

S21° 44' 49.41"W
9.072'

N/F PROPERTY OF
BEVERLY L. BORTON
DEED BOOK 4980 / PAGE 701
LOT 45
NORTH BEND SUBDIVISION
PLAT BOOK 14, PAGE 63

A=24.22'
R=553.88'
C=24.22'
N62°31'33"W

NORTH BEND COURT

(50' RIGHT OF WAY)

N44° 30' 34.24"E
23.441'

A=26.14'
R=504.21'
C=26.13'
S62°01'55"E

PARCEL 2
PERMANENT EASEMENT
622 S.F., 0.014 AC

PARCEL 1 & 2 PE POB
(POINT OF BEGINNING)
N: 1269449.83
E: 2219776.03

N/F PROPERTY OF
WILLIAM H. LUCAS
DEED BOOK 304 / PAGE 788
LOT 35
NORTH BEND SUBDIVISION
PLAT BOOK 14, PAGE 63

N46° 04' 06.23"W
7.346'

S46° 04' 06.23"E
7.346'

N45° 14' 20.17"W
13.670'

S45° 14' 20.17"E
13.670'

PARCEL 2
TEMPORARY EASEMENT
1305 S.F., 0.030 AC

N45° 31' 44.74"W

S64° 44' 15.67"E
21.179'

S44° 30' 34.24"W

S44° 30' 34.24"E

N44° 30' 34.24"E

N44° 28' 15.26"E
16.472'

N44° 30' 34.24"E

S44° 30' 34.24"W

S44° 30' 34.24"E

N44° 30' 34.24"E

S44° 30' 34.24"W

N44° 30' 34.24"E

S44° 30' 34.24"W

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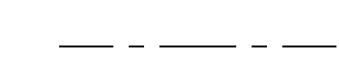
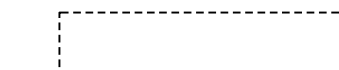
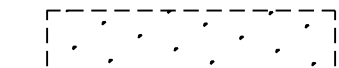


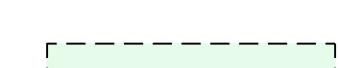



N44° 30' 34.24"E

S44° 30' 34.24"W

N44° 30' 34.24"E

S44° 30' 34.24"W

GENERAL SHEET NOTES

-  FULL DEPTH ASPHALT PAVING AND CURB/GUTTER (FOUNDATION TYPE REFER TO FAYETTE COUNTY TYPICAL)
-  APPROXIMATE RIGHT OF WAY PROPERTY LINE
-  25 FOOT STATE BUFFER
-  EXISTING WETLAND LIMITS
-  EXISTING STREAM LIMITS
-  PARCEL 1 TEMPORARY EASEMENT
-  PARCEL 1 PERMANENT EASEMENT
-  PARCEL 2 TEMPORARY EASEMENT
-  PARCEL 2 PERMANENT EASEMENT
-  PARCEL 3 PERMANENT EASEMENT



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EOR/AOR SEAL



CLIENT INFORMATION

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140 STONEWALL AVE W, STE 203
FAYETTEVILLE, GA. 30214

PROJECT NAME

NORTH BEND COURT CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW
DRAWN BY: MDW
CHECKED BY: DMM/MDM
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SHEET TITLE

EASEMENT EXHIBIT

SHEET NUMBER

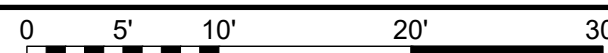
CG301

SHEET 8 OF 19

ORIGINAL SHEET SIZE:
22" X 34"

A1 EASEMENT EXHIBIT

SCALE: 1" = 10'



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..

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.

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

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

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.

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

ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.

DESIGN PROFESSIONAL CERTIFICATION:

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

February 14, 2024
DATE

DAVID MORGAN, P.E.
GSWCC LEVEL II CERTIFICATION # 0000011643
EXPIRES: 06/03/2024

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN GENERAL NOTES
(IN CONFORMANCE WITH STATE OF GEORGIA GENERAL NPDES PERMIT NO. GAR 100001.)

OWNER/ PRIMARY PERMITEE: FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT
PHIL MALLON
140 STONEWALL AVE. W., SUITE 203, FAYETTEVILLE, GA. 30214
PHONE (770) 305-5410
PUBLICWORKS@FAYETTECOUNTYGA.GOV

ENGINEER: POND & COMPANY
3500 PARKWAY LANE, SUITE 500
PEACHTREE CORNERS, GEORGIA 30092
PHONE: (678) 336-7740
FAX: (678) 336-7744

CONTACT: DAVID MORGAN, PE
GA. P.E. # 27428 , E&S LEVEL II CERTIFICATION # 0000011643

CONTRACTOR: TO BE DETERMINED

24-HOUR EROSION AND SEDIMENT CONTROL CONTACT: PHIL MALLON -770-313-9855

TOTAL SITE AREA: 0.15 ACRES
DISTURBED AREA: 0.15 ACRES

EXISTING LAND USE: THE EXISTING LAND USE CONSISTS OF TWO LANE PAVED ROAD WITH 42" CMP CULVERTS.

PROPOSED LAND USE: THE PROJECT CONSISTS OF REMOVING THE EXISTING DETERIORATED 42-INCH DIAMETER CMP STORM DRAINS. THE STORM DRAINS ARE TO BE REPLACED WITH 43 LF OF 54-INCH STORM DRAINS.

GPS COORDINATES OF SITE: 33°29'22.7"N, 84°25'06.8"W

NAME OF RECEIVING WATERS: FLINT RIVER
AREA OF ON-SITE WETLANDS: 0 AC

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
- With BFE or Depth (Zone AE, A9, A9, VE, AH)
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood with average depth less than one foot or with drainage areas of less than one square mile (Zone X)
- Future Conditions 1% Annual Chance Flood Hazard (Zone X)
- Area with Reduced Flood Risk due to Levees, See Notes, (Zone D)
- Area with Flood Risk due to Levees (Zone D)

OTHER AREAS OF FLOOD HAZARD

- Area of Minimal Flood Hazard (Zone X)
- Effective LOMRs
- Area of Undetermined Flood Hazard (Zone D)

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- Digital Data Available
- No Digital Data Available
- Unmapped

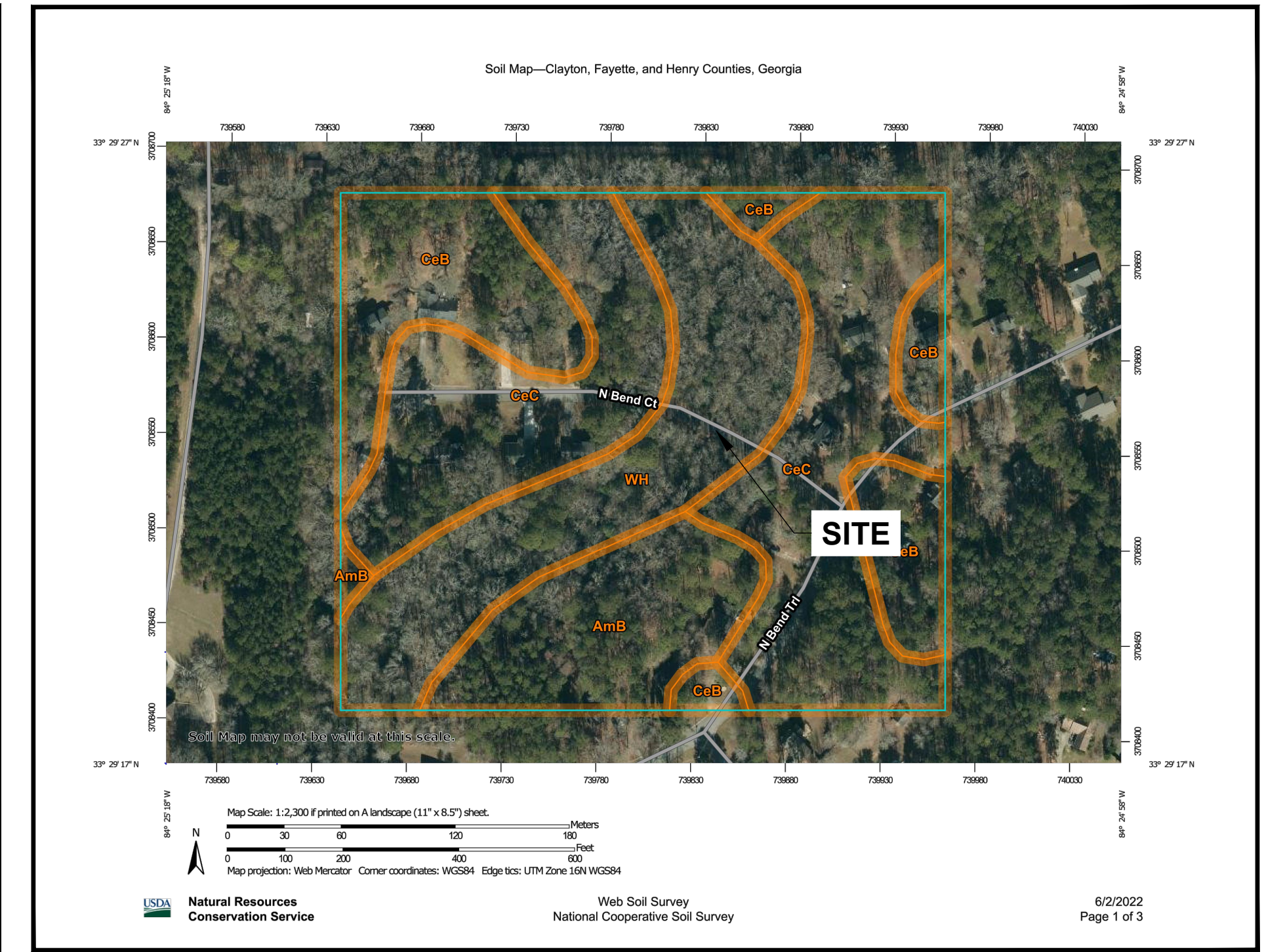
MAP PANELS

- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/2/2022 at 5:30 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and undetermined areas cannot be used for regulatory purposes.



SOIL MAP

SOILS LEGEND

SYMBOL	DESCRIPTION
AmB	Appling sandy loam, 2 to 6 percent slopes
CeB	Cecil sandy loam, 2 to 6 percent slopes
CeC	Cecil sandy loam, 6 to 10 percent slopes
WH	Wehadkee soils, 0 to 2 percent slopes, frequently flooded



FEMA FLOOD MAP - 1311C0118E
SCALE: NTS DATED 09/26/2008

THERE ARE KNOWN WETLANDS LOCATED WITHIN 200 FEET OF PROJECT AREA.
STATE WATERS DO EXIST WITHIN 200 FEET OF PROJECT AREA.

EROSION CONTROL LEGEND

- Ds1** TEMPORARY MULCHING - DETAIL A4/CE-501
- Ds2** TEMPORARY SEEDING - DETAIL A1/CE-502
- Ds4** DISTURBED AREA STABILIZATION W/ SOODING - DETAIL A3/CE-502
- Ss** SLOPE STABILIZATION DETAIL A1/CE-504
- Sd1-S 28"** SILT FENCING DETAIL C2/CE-501
- Du** DUST CONTROL - DETAIL A1/CE-501
- Cd-Fs** FILTER SOCK DETAIL C4/CE-502
- Tr** TREE PROTECTION DETAIL __/CE-50_
- Co** CONSTRUCTION EXIT DETAIL __/CE-50_

ACTIVITY SCHEDULE (FOR PERMITTING REFERENCE ONLY)

ACTIVITY	TIME / 16 WEEKS															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
INSTALL SILT FENCE, CONSTRUCTION EXIT	█															
CLEARING AND GRUBBING	█	█														
INSTALL REMAINDER OF INITIAL PERIMETER CONTROLS INCLUDING SEDIMENT BASINS, CHECK DAMS, ROCK DAMS, DIVERSION BERMS, ROCK FILTER, DOWN DRAINS, INLET SEDIMENT TRAPS, AND FILTER RINGS,			█													
DEMOLITION OF SURFACE PAVEMENT, OR ANY OTHER MISCELLANEOUS REQUIRED BMP, FENCES, EXISTING CULVERTS AND UTILITY POLES				█												
UTILITY RELOCATION				█	█	█	█	█	█							
ROUGH GRADING OPERATIONS							█	█	█	█	█					
INSTALLATION OF PROPOSED CULVERTS										█	█	█	█	█		
FINAL PAVING AND GRADING															█	█
PERMANENT SEEDING																█
REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES																█
MAINTENANCE OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

DESIGN PROFESSIONAL:
DAVID MORGAN, P.E.
LEVEL II CERTIFICATION
No.: 0000011643
EXPIRES : 06/03/2024

811 Know what's below.
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POND
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Suite 500
Peachtree Corners
Georgia 30092
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EOR/AOR SEAL

CLIENT INFORMATION

FAYETTE COUNTY
140 STONEWALL AVE W, STE 203
FAYETTEVILLE, GA. 30214

PROJECT NAME
NORTH BEND COURT CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE
DESCRIPTION
MARK

DESIGNED BY: MDW
DRAWN BY: MDW
CHECKED BY: DMM/MDM
SUBMITTED BY: DMM
DATE: February 14, 2024
PROJECT # 1210492
SHEET TITLE

EROSION AND SEDIMENTATION CONTROL NOTES AND LEGEND

SHEET NUMBER
CE001
SHEET 9 OF 19
ORIGINAL SHEET SIZE: 22" X 34"

STRUCTURAL PRACTICES:

THE STRUCTURAL PRACTICES SHOWN ON THIS PLAN HAVE BEEN DESIGNED TO REDUCE EROSION & SEDIMENTATION OF DISTURBED AREAS.

SILT FENCE (SD1-TYPE "S"), TEMPORARY SEDIMENT BASINS, AND DIVERSION DITCHES WILL BE INSTALLED PRIOR TO CLEARING AND GRADING OPERATIONS TO KEEP SEDIMENT CONTAINED WITHIN THE SITE AS NECESSARY. DISTURBED AREA STABILIZATION SHALL BE STABILIZED WITH MULCH (Ds1), TEMPORARY SEEDING (Ds2), AND PERMANENT SEEDING (Ds3) AS NECESSARY. INLET SEDIMENT TRAP PROTECTION WILL BE USED TO HELP PREVENT SEDIMENT FROM ENTERING ANY EXISTING INLETS. SEDIMENT STORAGE OF 67 CY PER DISTURBED ACRE IS PROVIDED BY TEMPORARY SEDIMENT BASINS.

CRITICAL WORK ZONE:

ALL SLOPES 3:1 OR STEEPER AND HIGHER THAN 5 FEET, AND ALL SLOPES ADJACENT TO BUFFERS SHALL RECEIVE SURFACE ROUGHENING, AND EROSION CONTROL MATTING. SILT FENCING WILL BE USED TO PREVENT SEDIMENT FROM LEAVING THE DISTURBED AREA. INLET PROTECTION WILL BE USED TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER.

CONSTRUCTION PERIOD STORM WATER POLLUTANT CONTROL:

SEDIMENTATION AND FUEL SPILLS ARE POTENTIAL SOURCES OF STORM WATER POLLUTION DURING THE CONSTRUCTION PROCESS. THESE POLLUTANTS WILL BE REMOVED AND/OR REDUCED VIA THE BMP'S CONTAINED WITHIN THIS PLAN

STABILIZATION MEASURES:

THE STABILIZATION MEASURES SHOWN ON THESE PLANS HAVE BEEN DESIGNED TO STABILIZE THE DISTURBED AREAS FOLLOWING THE TEMPORARY OR PERMANENT COMPLETION OF CONSTRUCTION. ALL EXPOSED AREAS SHALL BE STABILIZED WITH TEMPORARY MULCHING (DS1) IMMEDIATELY AFTER TRENCHING IF THEY ARE TO REMAIN INACTIVE FOR 14 DAYS OR MORE. ALL DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY (DS2) OR PERMANENT (DS3) VEGETATION AS INDICATED ON THE PLAN. SLOPES GREATER 3:1 ARE TO BE STABILIZED WITH EROSION CONTROL MATTING (MB). DUST CONTROL (DU) SHALL ALSO BE PROVIDED AS NEEDED DURING GRADING ACTIVITIES. SEE EROSION, SEDIMENTATION, AND POLLUTION CONTROL (ESPCP) DETAIL SHEETS FOR MORE DETAILS REGARDING THESE STABILIZATION MEASURES.

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, EXCEPT:

WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER OR OTHER ADVERSE WEATHER CONDITIONS, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL.

WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.

KEEPING PLANS CURRENT:

THE PRIMARY, SECONDARY OR TERTIARY PERMITTEES, AS APPLICABLE, SHALL AMEND THEIR PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT (I.E., THOSE BMP'S WHERE THE DESIGN IS BASED UPON RAINFALL INTENSITY, DURATION AND RETURN FREQUENCY STORMS) OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED UNDER PART IV.D.3. OF THIS PERMIT. AMENDMENTS TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT. SECONDARY PERMITTEES MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24-HOURS OF BECOMING AWARE OF ANY SUSPECTED BMP DESIGNED DEFICIENCIES WHICH ARE NOT EFFECTIVE IN CONTROLLING THE DISCHARGE OF POLLUTANTS FROM THE SECONDARY PERMITTEE'S SITE. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER THESE DEFICIENCIES EXIST WITHIN 48-HOURS OF SUCH NOTICE, AND IF THESE DEFICIENCIES ARE FOUND TO EXIST MUST AMEND THE PLAN IN ACCORDANCE WITH THIS PARAGRAPH TO ADDRESS THOSE DEFICIENT BMP'S WITHIN SEVEN (7) DAYS OF BEING NOTIFIED BY THE SECONDARY PERMITTEE. WHEN THE PLAN IS AMENDED, THE PRIMARY PERMITTEE MUST NOTIFY AND PROVIDE A COPY OF THE AMENDMENT TO ALL AFFECTED SECONDARY PERMITTEES WITHIN THIS SEVEN (7) DAY PERIOD. THE SECONDARY PERMITTEE(S) MUST IMPLEMENT ANY NEW PLAN REQUIREMENTS AFFECTING THEIR SITE(S) WITHIN 48-HOURS OF NOTIFICATION BY THE PRIMARY PERMITTEE. NOTWITHSTANDING THE FOREGOING, THE PRIMARY OR TERTIARY PERMITTEE REMAINS RESPONSIBLE FOR INSURING THAT THE PLAN, AS APPROPRIATE, MEETS THE REQUIREMENTS OF THIS PERMIT.

PROPER OPERATION AND MAINTENANCE:

THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT AND WITH THE REQUIRED PLANS. PROPER OPERATION AND MAINTENANCE ALSO INCLUDES ADEQUATE LABORATORY CONTROLS AND APPROPRIATE QUALITY ASSURANCE PROCEDURES. PROPER OPERATION AND MAINTENANCE REQUIRES THE OPERATION OF BACKUP OR AUXILIARY FACILITIES OR SIMILAR SYSTEMS, INSTALLED BY AN PERMITTEE ONLY WHEN NECESSARY TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT.

EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION AND SEDIMENT CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

REFER TO THE DETAILS CONTAINED WITHIN THIS PLAN SET FOR ADDITIONAL MAINTENANCE INSTRUCTION.

NON-STORM WATER DISCHARGES:

NON-STORM WATER DISCHARGES (DISCHARGES FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, POTABLE WATER SOURCES INCLUDING WATER LINE FLUSHING, IRRIGATION DRAINAGE, AIR CONDITIONING CONDENSATE, SPRINGS, UNCONTAMINATED GROUNDWATER, AND FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS OR POLLUTANTS) THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY SHALL BE DISCHARGED TO THE PROPOSED STORM DRAINAGE SYSTEM AND ROUTED THROUGH THE EROSION AND SEDIMENTATION CONTROLS IDENTIFIED WITHIN THIS PLAN. NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF THIS IS NOT POSSIBLE.

WASTE MATERIALS AND DISPOSAL:

ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER OR OTHER APPROPRIATE WASTE MANAGEMENT FACILITY PERMISSIBLE UNDER GAR PERMIT NO. 100001. WASTE MANAGEMENT FACILITIES SHALL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE WASTE MANAGEMENT FACILITIES. WASTE MANAGEMENT FACILITIES SHALL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH SHALL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE SHALL BE BURIED ON-SITE.

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

LOCATE WASTE COLLECTION AREAS AWAY FROM STREETS, GUTTERS, WATERCOURSES AND STORM DRAINS. WASTE COLLECTION AREAS, SUCH AS DUMPSTERS, ARE OFTEN BEST LOCATED NEAR CONSTRUCTION SITE ENTRANCES TO MINIMIZE TRAFFIC ON DISTURBED SOILS.

HAZARDOUS WASTES:

ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER AS REQUIRED 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, SHALL 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 SHALL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS SHALL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS SHALL BE MAINTAINED IN THE EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN (ESPCP) FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO HANDLES 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 (SPCC) PLAN FOUND WITHIN THIS ESPCP AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES SHALL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE SHALL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM WATER. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PROPERLY TRAIN ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. § 12-8-60, ET SEQ. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA ANNOTATED; NOR IS THE OPERATOR RELIEVED FROM ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 311 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

SANITARY WASTES:

ALL PERMITTEES SHALL ENSURE THAT THIS PLAN IS IN COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS.

A MINIMUM OF ONE PORTABLE SANITARY UNIT SHALL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH THE LOCAL STATE REGULATIONS.

ALL SANITARY WASTE UNITS SHALL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT OF BMP'S SHALL BE IMPLEMENTED AS NECESSARY, SUCH AS GRAVEL BAGS OR SPECIFICALLY DESIGNED PLASTIC SKID CONTAINERS AROUND THE BASE, TO PREVENT WASTE FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

OFFSITE VEHICLE TRACKING / DUST CONTROL:

OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. A STABILIZED CONSTRUCTION EXIT (CO) SHALL BE PROVIDED TO REDUCE VEHICLE TRACKING OF SEDIMENT. SEE ESPCP PLAN AND DETAIL SHEETS FOR THE CONSTRUCTION EXIT LOCATIONS AND DETAIL. THE PAVED STREET ADJACENT TO THE CONSTRUCTION EXIT SHALL BE INSPECTED DAILY BY A REPRESENTATIVE OF THE SITE CONTRACTOR FOR TRACKING OF MUD, DIRT, OR ROCK. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPAULIN. DUST CONTROL (DU) SHALL BE APPLIED AS NECESSARY TO PREVENT SURFACE AND AIR MOVEMENT OF DUST.

INVENTORY FOR POLLUTION PREVENTION PLAN

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

SPILL PREVENTION

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

GOOD HOUSEKEEPING

QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.

- A. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.
- B. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.
- C. PRODUCT MIXING, PRODUCT DISPOSAL, AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- D. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN GENERAL NOTES

(IN CONFORMANCE WITH STATE OF GEORGIA GENERAL NPDES PERMIT NO. GAR 100001)

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAINMENT. 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.

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

CONCRETE/MASONRY - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON SITE. THE CONCRETE PROVIDER HAS RESPONSIBILITY TO ENSURE APPROPRIATE TRAINING HAS BEEN PROVIDED TO THEIR TRUCK DRIVERS, AND MUST PROVIDE APPROPRIATE DETAILS AND RESOURCES TO ENABLE THEM TO COMPLETE A DELIVERY WITHOUT CAUSING POLLUTION. CHUTES, BARRELS, WHEELBARROWS AND OTHER EQUIPMENT MUST BE RINSED IN THE SITE WASH-DOWN AREA. SWEEP OR SHOVEL ANY SPILLS THAT OCCUR AND ALLOW RESIDUE TO SET BEFORE REMOVING. THE HARDENED RESIDUE MAY THEN BE PLACED IN A DESIGNATED CONCRETE/MASONRY RECYCLING BIN ON SITE. DO NOT WASH CONCRETE/MASONRY INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. TRUCKS SHOULD NOT TRACK ANY CONCRETE OR MUD AND SEDIMENT OFF SITE.

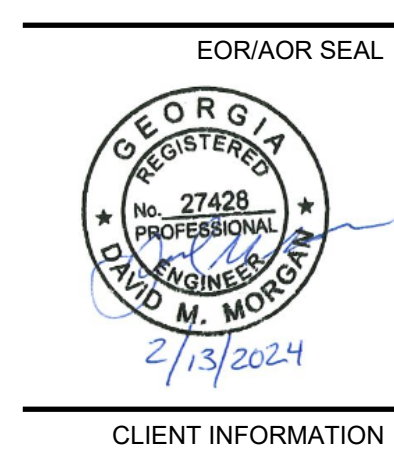
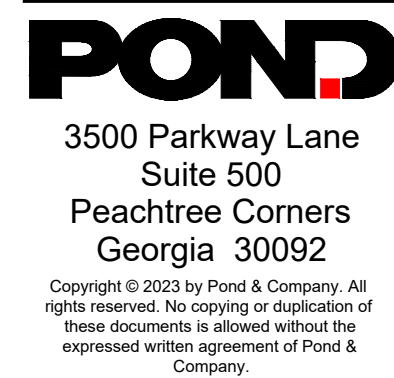
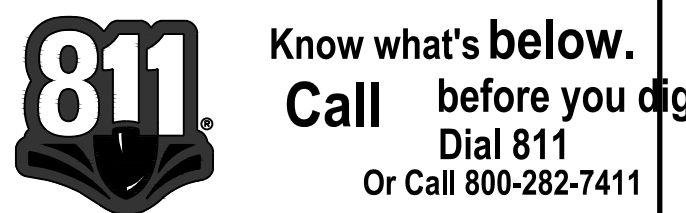
FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS, THE CROP ESTABLISHMENT GUIDELINES, OR THE SPECIFICATIONS CONTAINED WITHIN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.

SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN:

- A. LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES SHALL BE MADE AVAILABLE TO SITE PERSONNEL.
- B. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL 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.
- C. SPILL PREVENTION PRACTICES AND PROCEDURES SHALL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
- D. ALL SPILLS WILL BE CLEANED IMMEDIATELY UPON DISCOVERY. ALL SPILLS SHALL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
- E. THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM A SITE SHALL BE PREVENTED.
- F. WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. SEC. 12-14-2, ET SEQ.), 40 CFR 117, OR 40 CFR 302 OCCURS DURING A 24-HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY EPD AT (404) 656-4863 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802 IN ACCORDANCE WITH THE REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. SEC. 12-14-2, ET SEQ.), 40 CFR 117, AND 40 CFR 302 AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE.
- G. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER) OR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HOURS AT (800) 424-8802.
- H. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD SHALL BE CONTACTED WITHIN 24 HOURS AT (404) 656-4863 OR (800) 241-4113.
- I. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL SHALL BE CLEANED AND LOCAL AGENCIES SHALL BE CONTACTED AS REQUIRED.
- J. GENERAL NPDES PERMIT NO. GAR 100002 DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (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 A LICENSED PROFESSIONAL.

DESIGN PROFESSIONAL:
DAVID MORGAN, P.E.
LEVEL II CERTIFICATION
No.: 0000011643
EXPIRES : 06/03/2024



FAYETTE COUNTY
140 STONEWALL AVE W, STE 203
FAYETTEVILLE, GA, 30214

**NORTH BEND COURT
CULVERT
REPLACEMENT**

FAYETTE COUNTY, GA

DESIGNED BY: MDW
DRAWN BY: MDW
CHECKED BY: DMM/MDM
SUBMITTED BY: DMM
DATE: February 14, 2024
PROJECT # 1210492

**EROSION AND
SEDIMENTATION
CONTROL
NOTES AND
LEGEND**

SHEET NUMBER
CE002
SHEET 10 OF 19
ORIGINAL SHEET SIZE:
22" X 34"

FILE PATH: X:\FY21\1210492\04\CAD_BIM\04_02\CAD\ICE-001 PLOTTED BY: MACHUCA, KELANI DATE: 2/14/24

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD: TOWLINGA

Project Name: NORTH BEND COURT Address: 25 NORTH BEND CT
Local Issuing Authority: FAYETTE COUNTY Date on Plans: 1/22/2024
Name & Email of person filling out checklist: DAVID MORGAN MORGAND@PONDSCO.COM

Plan Included TO BE SHOWN ON ES&PC PLAN
Page # Y/N

Table with 2 columns: Plan Page #, Included Y/N. Rows include CE003, ALL CE, CE001, CE001, CE001, N/A, CE001, CE001, CE001, CE001, N/A, N/A, N/A, N/A, CE001, CE001, CE001, N/A, N/A, N/A, CE001.

Table with 3 columns: Code, Status, Description. Rows 16-31 describe various erosion and sediment control requirements.

Table with 3 columns: Code, Status, Description. Rows 32-52 describe various construction and BMP requirements.

Effective January 1, 2024



3500 Parkway Lane Suite 500 Peachtree Corners Georgia 30092

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CLIENT INFORMATION

FAYETTE COUNTY

140 STONEWALL AVE W, STE 203 FAYETTEVILLE, GA. 30214

PROJECT NAME

NORTH BEND COURT CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW
DRAWN BY: MDW
CHECKED BY: DMM/MDM
SUBMITTED BY: DMM
DATE: February 14, 2024
PROJECT # 1210492

SHEET TITLE

EROSION AND SEDIMENTATION CONTROL NOTES AND LEGEND

SHEET NUMBER

CE003

SHEET 11 OF 19

ORIGINAL SHEET SIZE: 22" X 34"



Know what's below. Call before you dig. Dial 811 Or Call 800-282-7411

100% DESIGN ISSUED FOR CONSTRUCTION

SUMMARY OF AREAS

TOTAL SITE AREA: 0.15 ACRES

ONSITE DISTURBED AREA: 0.15 ACRES

AREA TO SILT FENCE: 0.27 ACRES
 (CONSISTS OF PERIMETER AREAS, WHERE SEDIMENT STORAGE IS NOT OBTAINABLE. SEDIMENT REMOVAL IS PROVIDED BY SILT FENCING)
 [1/4 ACRE TREATED PER 100 LF SILT FENCE]
 [236 LF SILT FENCE REQUIRED]
 [506 LF SILT FENCE PROVIDED]

GENERAL SHEET NOTES

- REFER TO SHEET CE001 FOR GENERAL CIVIL NOTES, LEGENDS, AND ABBREVIATIONS.
- THIS SHEET IS PART OF A MULTI-SHEET SET OF EROSION CONTROL PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
- 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.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- ANY DISTURBED AREA LEFT IDLE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH PERMANENT SEEDING.
- CONSTRUCTION ENTRANCE TO BE DETERMINED BY COUNTY AND CONTRACTOR PRIOR TO CONSTRUCTION.
- CONTRACTOR TO SOD COUNTY R/W WITHIN LOD AND PERMANENT SEEDING ELSEWHERE. REPLACE ANY EXISTING SOD IN KIND WITH SOD.

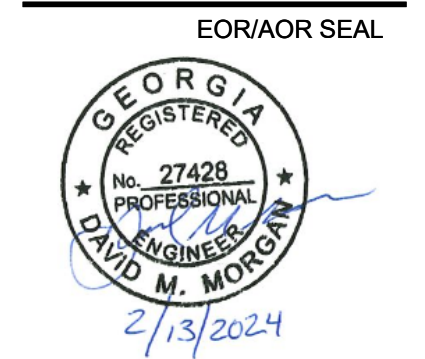
NOTE

TEMPORARY AND PERMANENT EASEMENTS ARE SHOWN ON CG301.



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FAYETTE COUNTY
 140 STONEWALL AVE W, STE 203
 FAYETTEVILLE, GA. 30214

PROJECT NAME

**NORTH BEND COURT
 CULVERT
 REPLACEMENT**

FAYETTE COUNTY, GA

MARK	DATE	DESCRIPTION

DESIGNED BY: MDW
 DRAWN BY: MDW
 CHECKED BY: DMM/MDM
 SUBMITTED BY: DMM
 DATE: February 4, 2025
 PROJECT #: 1210492

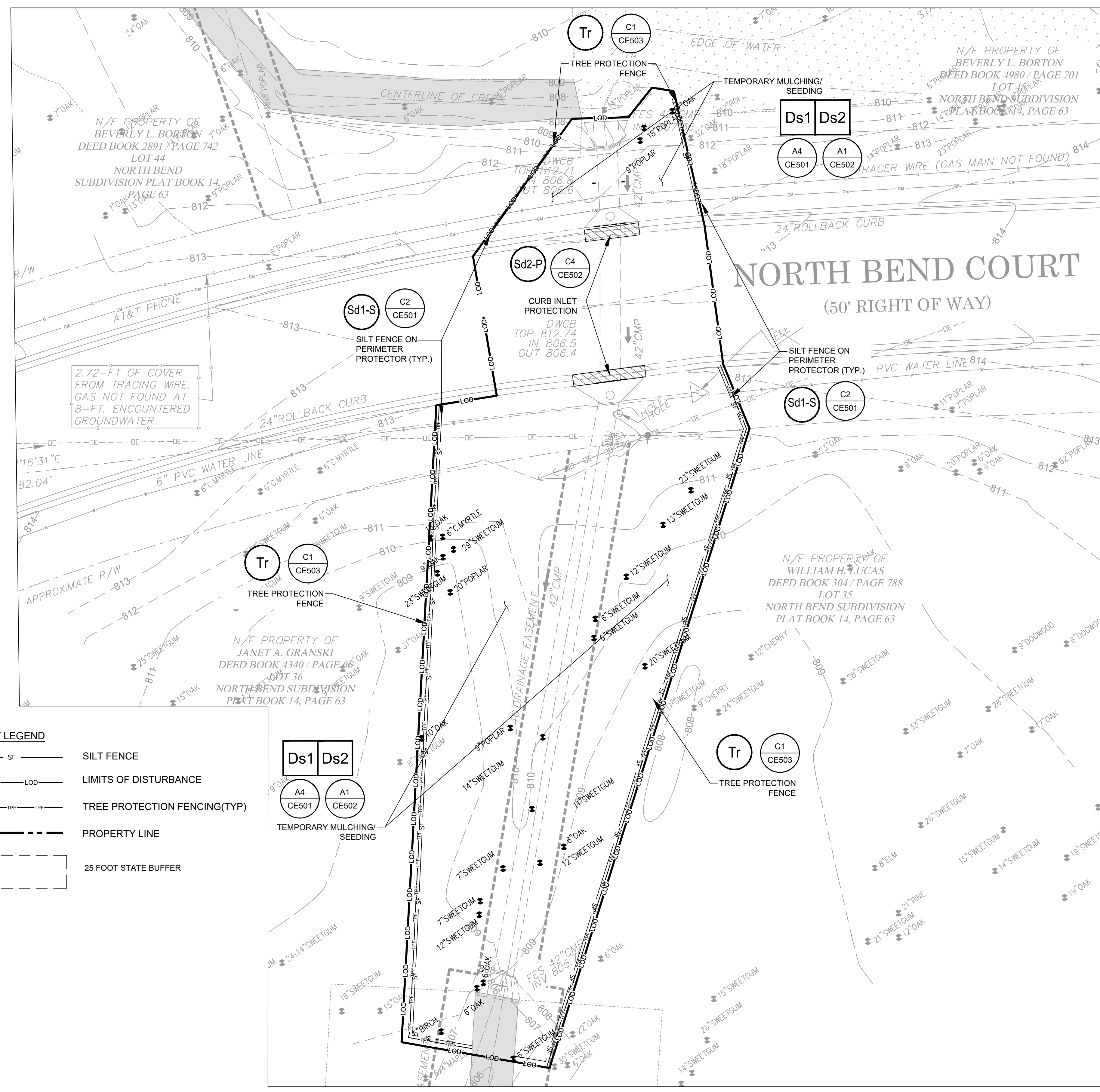
SHEET TITLE

**EROSION AND
 SEDIMENTATION
 CONTROL PLAN
 - INITIAL PHASE**

SHEET NUMBER

CE101

SHEET 12 OF 19
 ORIGINAL SHEET SIZE:
 22" X 34"

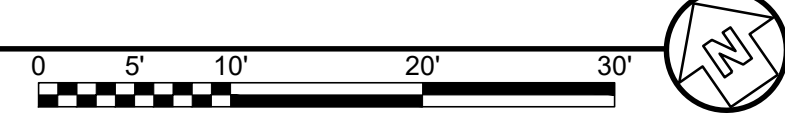


SHEET LEGEND

	SILT FENCE
	LIMITS OF DISTURBANCE
	TREE PROTECTION FENCING(TYP)
	PROPERTY LINE
	25 FOOT STATE BUFFER

A1 EROSION AND SEDIMENTATION CONTROL PLAN - INITIAL PHASE

SCALE: 1" = 10'



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 Or Call 800-282-7411**

SUMMARY OF AREAS

TOTAL SITE AREA: 0.15 ACRES

ONSITE DISTURBED AREA: 0.15 ACRES

AREA TO SILT FENCE: 0.27 ACRES
 (CONSISTS OF PERIMETER AREAS, WHERE SEDIMENT STORAGE IS NOT OBTAINABLE. SEDIMENT REMOVAL IS PROVIDED BY SILT FENCING)
 [1/4 ACRE TREATED PER 100 LF SILT FENCE]
 [236 LF SILT FENCE REQUIRED]
 [506 LF SILT FENCE PROVIDED]

GENERAL SHEET NOTES

- REFER TO SHEET CE001 FOR GENERAL CIVIL NOTES, LEGENDS, AND ABBREVIATIONS.
- THIS SHEET IS PART OF A MULTI-SHEET SET OF EROSION CONTROL PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
- 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.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- ANY DISTURBED AREA LEFT IDLE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH PERMANENT SEEDING.
- CONSTRUCTION ENTRANCE TO BE DETERMINED BY COUNTY AND CONTRACTOR PRIOR TO CONSTRUCTION.
- CONTRACTOR TO INSTALL SOD INSIDE COUNTY RIGHT OF WAY WITHIN LIMITS OF DISTURBANCE. INSTALL PERMANENT SEEDING OUTSIDE OF RIGHT OF WAY EXCEPT WHERE THERE IS EXISTING SOD. REPLACE ANY SOD IN KIND WITH SOD.

NOTE

TEMPORARY AND PERMANENT EASEMENTS ARE SHOWN ON CG301.



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CLIENT INFORMATION

FAYETTE COUNTY

140 STONEWALL AVE W, STE 203
 FAYETTEVILLE, GA. 30214

PROJECT NAME

NORTH BEND COURT CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW
 DRAWN BY: MDW
 CHECKED BY: DMM/MDM
 SUBMITTED BY: DMM
 DATE: February 4, 2025
 PROJECT # 1210492

SHEET TITLE

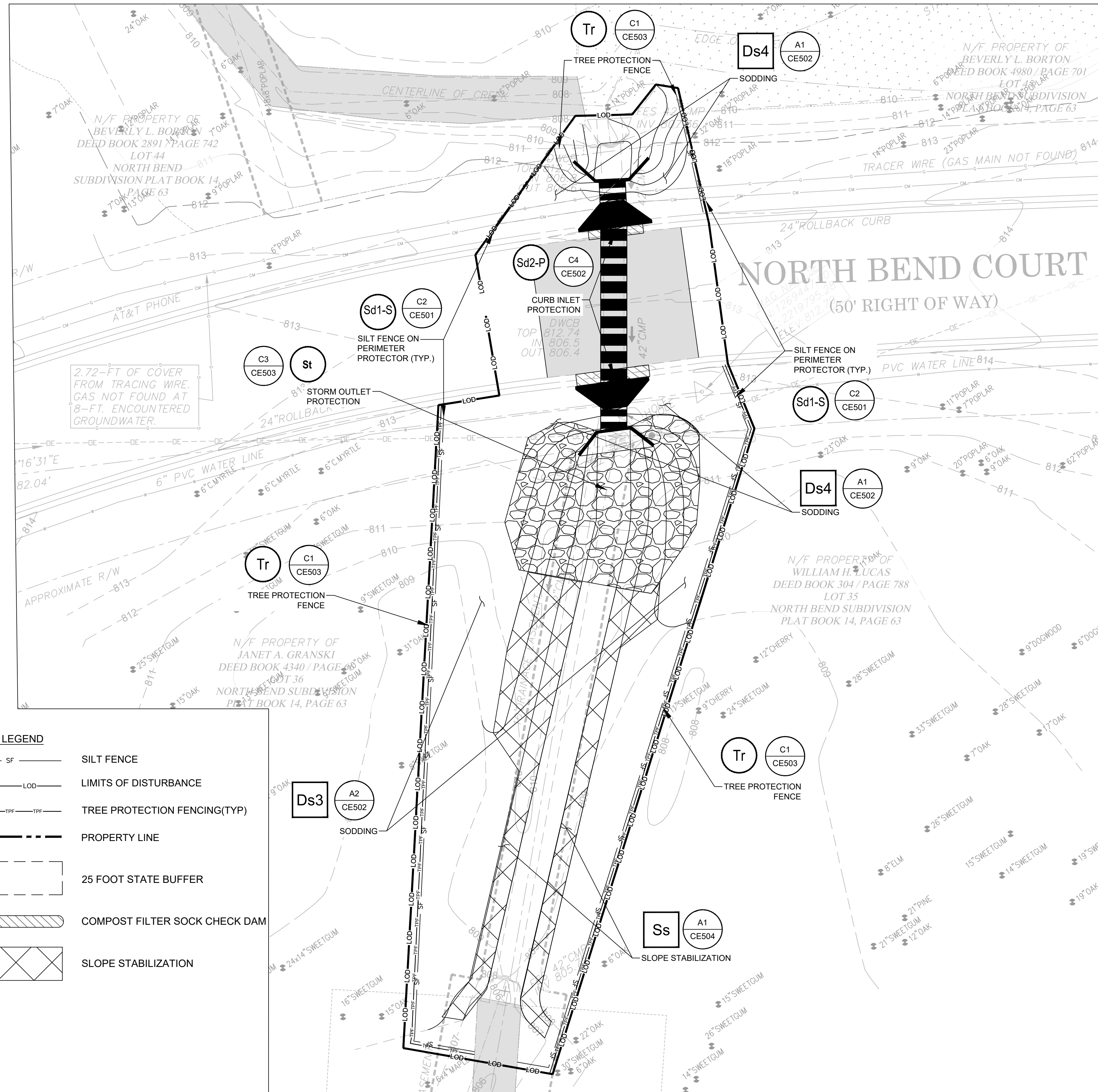
EROSION AND SEDIMENTATION CONTROL PLAN - FINAL PHASE

SHEET NUMBER

CE201

SHEET 13 OF 19

ORIGINAL SHEET SIZE: 22" X 34"

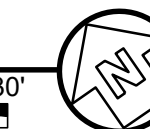


SHEET LEGEND

- SILT FENCE
- LIMITS OF DISTURBANCE
- TREE PROTECTION FENCING(TYP)
- PROPERTY LINE
- 25 FOOT STATE BUFFER
- COMPOST FILTER SOCK CHECK DAM
- SLOPE STABILIZATION

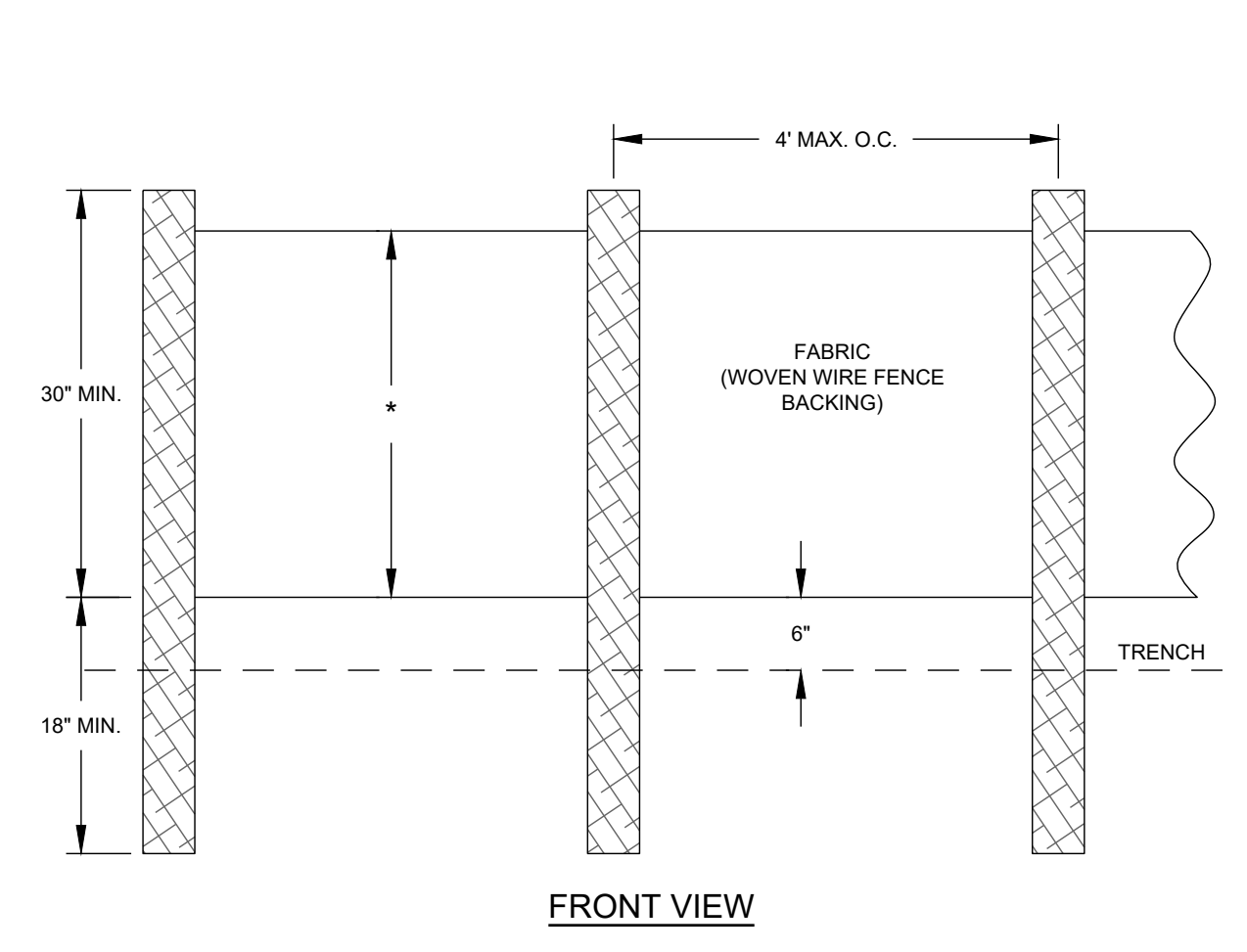
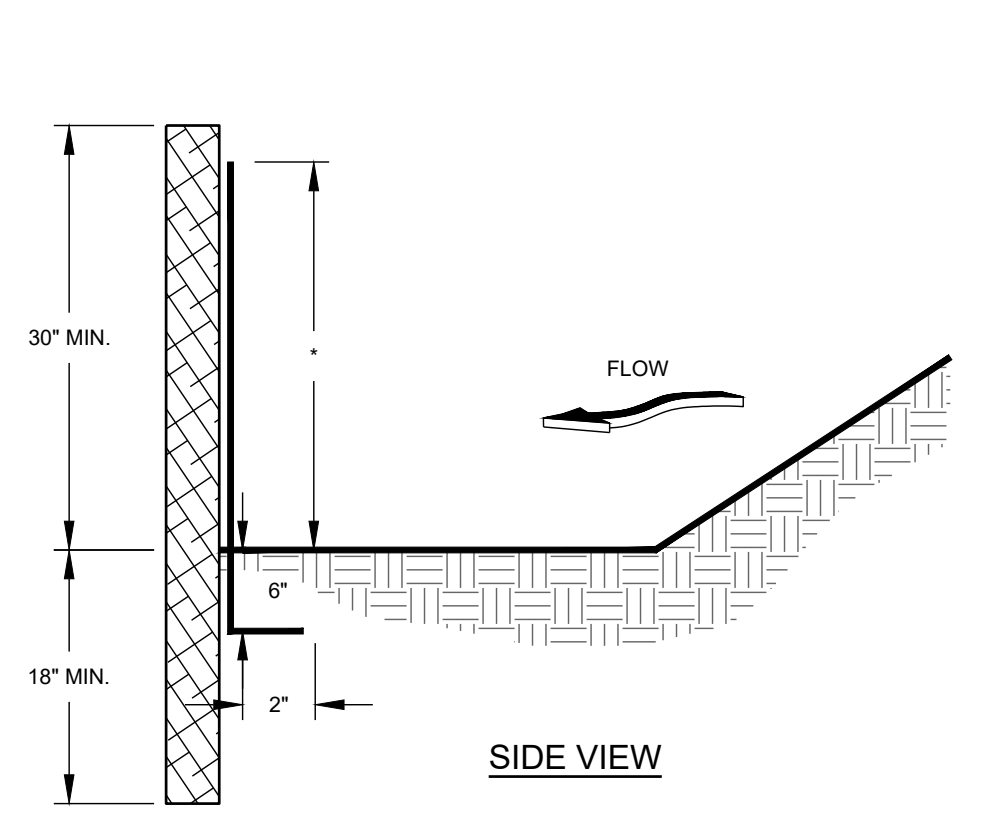
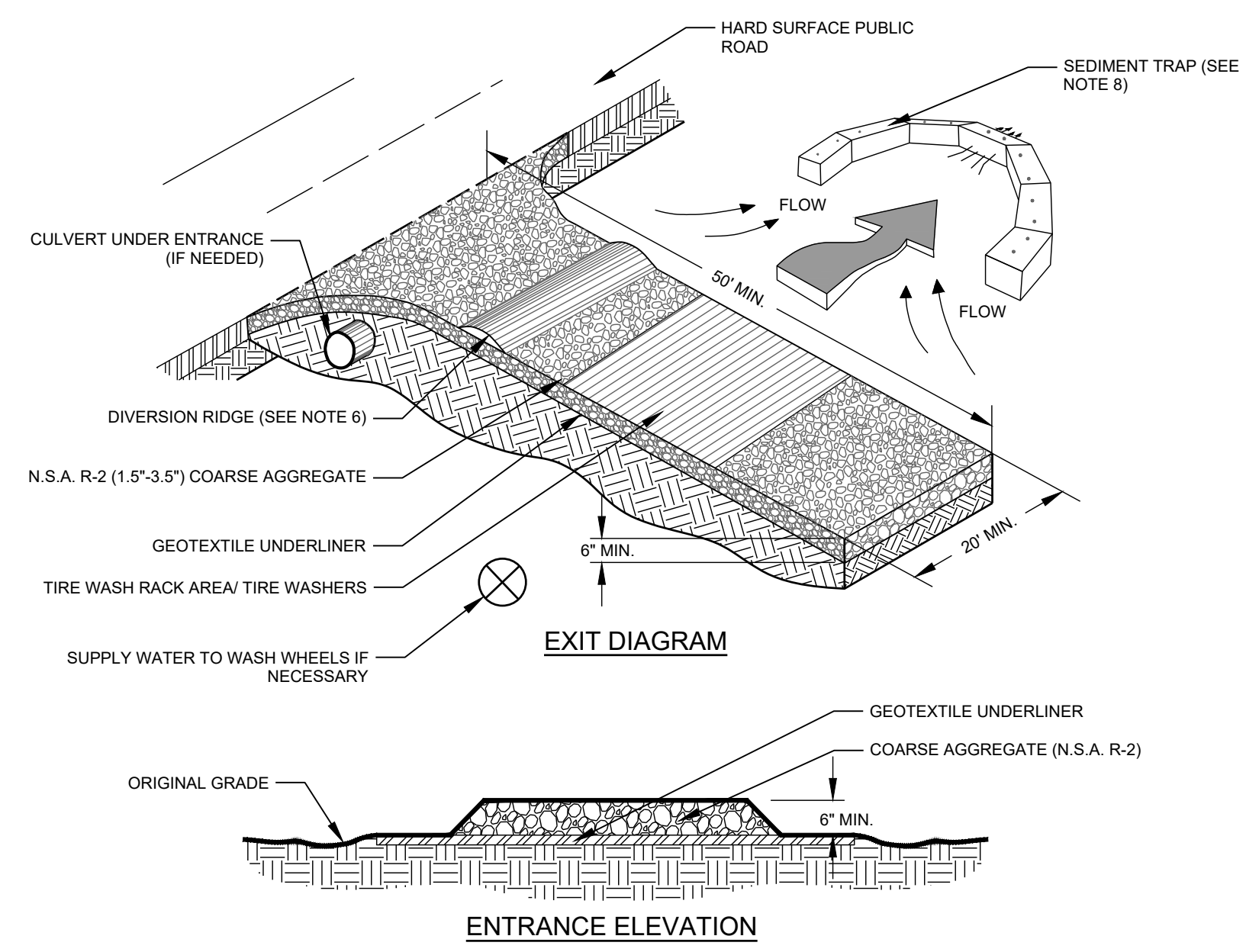
A1 EROSION AND SEDIMENTATION CONTROL PLAN - FINAL PHASE

SCALE: 1" = 10'



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 Or Call 800-282-7411

100 DESIGN ISSUED FOR CONSTRUCTION



MAINTENANCE
 SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. FILTER FABRIC SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF THE FABRIC IS REDUCED (APPROXIMATELY SIX MONTHS). TEMPORARY SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATED AT THE BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE BARRIER IS REMOVED.

NOTES

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

TYPE 'S' SILT FENCE

C2 NO SCALE

Sd1-S

MULCHING MATERIAL

1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE.
2. WOOD WASTE (CHIPS, SAWDUST, OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH.
3. CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR 1/4 GALLON PER SQ. YD.)
4. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION.

APPLYING MULCH

1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY DECOMPOSITION OF THE ORGANIC MULCHES.
3. CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF TRACKING IN OR DAMAGE TO SHOES, CLOTHING, ETC.
4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH

1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK." DISKS MAY BE USED SMOOTH OR SERRATED AND SHOULD BE 20 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN UPRIGHT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION.
2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENING OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

TABLE 1. Mulching Application Requirements

MATERIAL	RATE	DEPTH
Straw or hay	-	2" to 4"
Wood waste, chips, sawdust, bark	-	2" to 3"
Cutback asphalt	1200 gal./acre, 1/4 gal./sq. yd./ or see manufacturer's recommendations	-
Polyethylene film	Secure with soil, anchors, weights	-
Geotextiles, jute matting, netting, etc.	See manufacturer's recommendations	-

INSTALLATION NOTES:

1. INSTALL ALL OTHER REQUIRED BMPs FIRST.
2. GRADE SITE, IF POSSIBLE, TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
3. LOOSEN COMPACTED SOIL, IF POSSIBLE, TO A DEPTH OF 3 INCHES.
4. APPLY STRAW OR HAY UNIFORMLY, AS SHOWN IN TABLE 1, BY HAND OR MECHANICAL EQUIPMENT, AND ANCHOR BY PRESSING INTO SOIL OR USING NETTING.
5. MULCH ON SLOPES GREATER THAN 3% SHOULD BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1) OR OTHER SUITABLE TACKIFIER.
6. WOOD WASTE ON SLOPES FLATTER THAN 3:1 DO NOT NEED ANCHORING.
7. MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS LEFT INACTIVE FOR FOURTEEN DAYS.

MAINTENANCE NOTES:

1. ADD MULCH AS NEEDED TO MAINTAIN THE SUGGESTED DEPTH.
2. IF ORGANIC MULCH IS TO BE LEFT AND INCORPORATED INTO THE SOIL, APPLY 20-30 POUNDS OF NITROGEN IN ADDITION TO THE FERTILIZER REQUIRED FOR VEGETATION.

DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

A4 NO SCALE

Ds1

DESIGN PROFESSIONAL:
 SUNGTAEK KIM, P.E.
 LEVEL II CERTIFICATION
 No.: 075614
 EXPIRES : 02/26/2022



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 CLIENT INFORMATION

FAYETTE COUNTY
 140 STONEWALL AVE W, STE 203
 FAYETTEVILLE, GA. 30214

PROJECT NAME
NORTH BEND COURT CULVERT REPLACEMENT
 FAYETTE COUNTY, GA

DRAWING ISSUE

DATE	DESCRIPTION	MARK

DESIGNED BY: MDW
 DRAWN BY: MDW
 CHECKED BY: DMM/MDM
 SUBMITTED BY: DMM
 DATE: February 14, 2024
 PROJECT #: 1210492

SHEET TITLE

EROSION CONTROL DETAILS

SHEET NUMBER

CE501

SHEET 14 OF 19

ORIGINAL SHEET SIZE: 22" X 34"

TEMPORARY SEEDING:
 SEEDBED PREPARATION: WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH UNDISTURBED CUT SLOPES, THE SOIL SHALL HAVE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.
 LIME AND FERTILIZER: AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO SEE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OF THE EQUIVALENT PER ACRE (12-16 LBS/1000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

SEEDING:
 REFER TO TEMPORARY SEEDING CHART THIS PAGE.

APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). DRILL OR CULTIPACKER SEEDERS SHOULD NORMALLY PLACE SEED ONE-QUARTER TO ONE-HALF INCH DEEP. APPROXIMATE DEPTH OF PLANTING IS TEN TIMES THE SEED DIAMETER. SOIL SHOULD BE RAKED LIGHTLY TO COVER SEED WITH SOIL IF SEEDING BY HAND.

Species	Broadcast Rates - PLS Per Acre	Broadcast Rates - PLS Per 1000 sq. ft.	Planting Dates (Solid lines indicate optimum dates, dotted lines indicated permissible but marginal dates.)
BARLEY (Hordeum vulgare)			
alone	3 bu. (144 lbs.)	3.3 lb.	J F M A M J J A S O N D
in mixtures	1/2 bu. (24 lbs.)	0.6 lb.	J F M A M J J A S O N D
LESPEDEZA, ANNUAL (lepedeza striata)			
alone	40 lbs.	0.9 lb.	J F M A M J J A S O N D
in mixtures	10 lbs.	0.2 lb.	J F M A M J J A S O N D
LOVEGRASS, WEEPING (Eragrostis curvula)			
alone	4 lbs.	0.1 lb.	J F M A M J J A S O N D
in mixtures	2 lbs.	0.05 lb.	J F M A M J J A S O N D
MILLET, BROWNTOP (Panicum fasciculatum)			
alone	40 lbs.	0.9 lb.	J F M A M J J A S O N D
in mixtures	10 lbs.	0.2 lb.	J F M A M J J A S O N D
MILLET, PEARL (Pennisetum glaucum)			
alone	50 lbs.	1.1 lb.	J F M A M J J A S O N D
OATS (Avena sativa)			
alone	4 bu. (128 lbs.)	2.9 lb.	J F M A M J J A S O N D
in mixtures	1 bu. (32 lbs.)	0.7 lb.	J F M A M J J A S O N D
RYE (Secale cereale)			
alone	3 bu. (168 lbs.)	3.9 lb.	J F M A M J J A S O N D
in mixtures	1/2 bu. (28 lbs.)	0.6 lb.	J F M A M J J A S O N D
RYEGRASS, ANNUAL (Lolium temulentum)			
alone	40 lbs.	0.9 lb.	J F M A M J J A S O N D
SUDANGRASS (Sorghum sudanese)			
alone	60 lbs.	1.4 lb.	J F M A M J J A S O N D
WHEAT (Triticum aestivum)			
alone	3 bu. (180 lbs.)	4.1 lb.	J F M A M J J A S O N D
in mixtures	1/2 bu. (30 lbs.)	0.7 lb.	J F M A M J J A S O N D

TABLE 2. FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

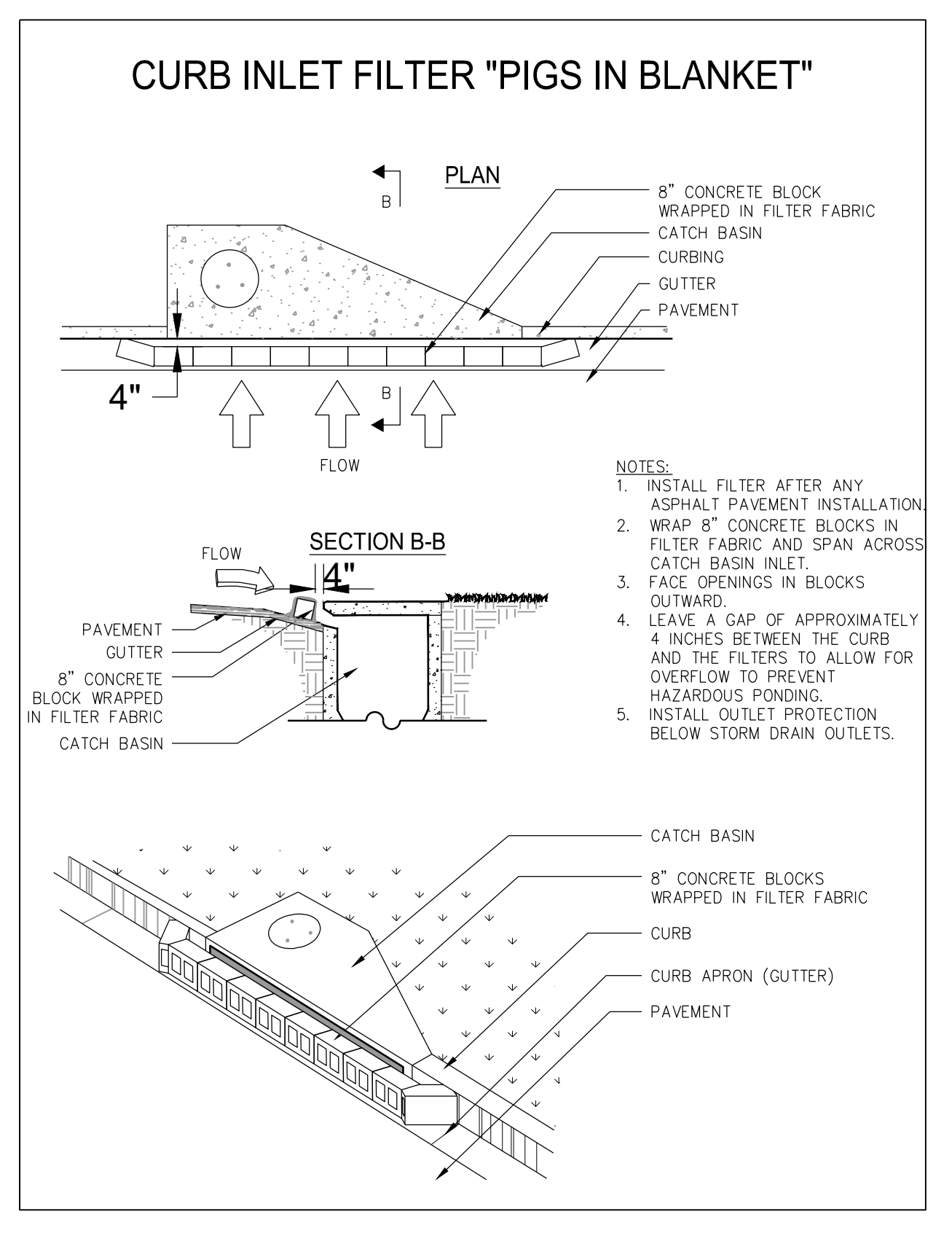
Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Top Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	-
	Maintenance	10-10-10	400	30
Cool season grasses and legumes	First	6-12-12	1500	0-50
	Second	0-10-10	1000	-
	Maintenance	0-10-10	400	-
Temporary cover crops seeded alone	First	10-10-10	500	30
	Maintenance	-	-	-
Warm season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	800	50-100
	Maintenance	10-10-10	400	30

INSTALLATION NOTES:

- INSTALL ALL E&SC MEASURES PRIOR TO APPLYING TEMPORARY VEGETATION.
- GRADING OR SHAPING ARE NOT REQUIRED IF SLOPES CAN BE PLANTED WITH A HYDROSEEDER OR BY HAND-SEEDING.
- SEEDBED PREPARATION IS NOT REQUIRED IF SOIL IS LOOSE AND NOT SEALED BY RAIN.
- WHEN THE SOIL IS SEALED OR CRUSTED, IT SHOULD BE PITTED, TRENCHED OR SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.
- AGRICULTURAL LIME IS NOT REQUIRED.
- FERTILIZE LOW FERTILITY SOILS PRIOR TO OR DURING PLANTING AT THE RATE OF 500-700 LBS./ACRE OF 10-10-10 FERTILIZER OR EQUIVALENT (12-16 LBS./1000 SQ. FT.)
- IT IS IMPERATIVE THAT YOU CHECK THE TAG ON THE BAG OF SEED TO VERIFY THE TYPE AND GERMINATION OF THE SEED TO BE PLANTED.
- APPLY SEED BY HAND, CYCLONE SEEDER, DRILL OR HYDRO-SEEDER. SEED PLANTED WITH A DRILL SHOULD BE PLANTED 1/2"-3/4" DEEP.
- APPLY IN ACCORDANCE WITH SPECIFICATIONS ON THE E&SC PLAN. IF INFORMATION IS NOT AVAILABLE, SELECT A TEMPORARY COVER FROM TABLE 1.
- TEMPORARY COVER SHALL BE APPLIED TO ALL DISTURBED AREAS LEFT IDLE FOR 14 DAYS. (IF AN AREA IS LEFT IDLE FOR 6 MONTHS, PERMANENT COVER SHALL BE APPLIED.)

MAINTENANCE NOTE:

RE-SEED AREAS WHERE AN ADEQUATE STAND OF TEMPORARY VEGETATION FAILS TO EMERGE OR WHERE A POOR STAND EXISTS.



CURB INLET PROTECTION

C

B

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

Species	Rates per 1,000 sq. ft.	Rates per Acre	Region M-L (Mountain, Blue Ridge, Ridges and Valley)	Region P (Southern Piedmont)	Region C (Southern Coastal Plain, Sand Hills, Black Lands, and Atlantic Coastal Flatwoods)
Barley, alone	3.3 lbs.	3 bu.	9 Sept. - 31 Oct.	15 Sept. - 15 Nov.	1 Oct. - 31 Dec.
Barley, in mixtures	0.6 lbs.	0.5 bu.	-	-	-
Lespedeza, Annual	0.9 lbs.	40 lbs.	1 Mar. - 31 Mar.	1 Mar. - 31 Mar.	1 Feb. - 28 Feb.
Lespedeza, in mixtures	0.2 lbs.	10 lbs.	-	-	-
Lovegrass, weeping	0.1 lbs.	4 lbs.	1 Apr. - 31 May	1 Apr. - 31 May	1 Mar. - 31 May
Lovegrass, in mixtures	0.05 lbs.	2 lbs.	-	-	-
Millet, browntop	0.9 lbs.	40 lbs.	15 Apr. - 15 Jun.	15 Apr. - 30 Jun.	15 Apr. - 30 Jun.
Millet, in mixtures	0.2 lbs.	10 lbs.	-	-	-
Millet, pearl	1.1 lbs.	50 lbs.	15 May - 15 Jul.	1 May - 31 Jul.	15 Apr. - 15 Aug.
Oats, alone	2.99 lbs.	4 bu.	15 Sept. - 15 Nov.	15 Sept. - 15 Nov.	15 Sept. - 15 Nov.
Oats, in mixtures	0.7 lbs.	1 bu.	-	-	-
Rye (grain), alone	3.9 lbs.	3 bu.	15 Aug. - 31 Oct.	15 Sept. - 30 Nov.	1 Oct. - 31 Dec.
Rye, in mixtures	0.6 lbs.	0.5 bu.	-	-	-
Ryegrass	0.9 lbs.	40 lbs.	15 Aug. - 15 Nov.	1 Sept. - 15 Dec.	15 Sept. - 31 Dec.
Sudangrass	1.4 lbs.	60 lbs.	1 May - 31 Jul.	1 May - 31 Jul.	1 Apr. - 31 Jul.
Triticale, alone	3.3 lbs.	3 bu.	-	-	-
Triticale, in mixtures	0.6 lbs.	0.5 bu.	-	-	15 Oct. - 30 Nov.
Wheat, alone	4.1 lbs.	3 bu.	-	-	-
Wheat, in mixtures	0.7 lbs.	0.5 bu.	15 Sept. - 30 Nov.	1 Oct. - 15 Dec.	15 Oct. - 31 Dec.

- UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVY SEEDING RATES.
- SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.
- FOR MAJOR LAND RESOURCE AREAS (MLRAs), SEE "TRACKERS AND BINDERS" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.

SEEDING SCHEDULE TEMPORARY COVER

A1 NO SCALE

Ds2

A3 NO SCALE

DISTURBED AREA STABILIZATION W/ SODDING

A3 NO SCALE

Ds4

DEFINITION

A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.

CONDITIONS

THIS APPLICATION IS APPROPRIATE FOR AREAS WHICH REQUIRE IMMEDIATE VEGETATIVE COVERS, DROP INLETS, GRASS SWALES, AND WATERWAYS WITH INTERMITTENT FLOW.

PLANNING CONSIDERATIONS

SODDING CAN INITIALLY BE MORE COSTLY THAN SEEDING, BUT THE ADVANTAGES JUSTIFY THE INCREASED INITIAL COSTS.

- IMMEDIATE EROSION CONTROL, GREEN SURFACE, AND QUICK USE.
- REDUCED FAILURE AS COMPARED TO SEED AS WELL AS THE LACK OF WEEDS.
- CAN BE ESTABLISHED NEARLY YEAR-ROUND.

SODDING IS PREFERABLE TO SEED IN WATERWAYS AND SWALES BECAUSE OF THE IMMEDIATE PROTECTION OF THE CHANNEL AFTER APPLICATION. SODDING MUST BE STAKED IN CONCENTRATED FLOW AREAS (SEE FIGURE 6-6.1) CONSIDER USING SOD FRAMED AROUND DROP INLETS TO REDUCE SEDIMENTS AND MAINTAINING THE GRADE.

CONSTRUCTION SPECIFICATIONS INSTALLATION

SOIL PREPARATION

BRING SOIL SURFACE TO FINAL GRADE. CLEAR SURFACE OF TRASH, WOODY DEBRIS, STONES AND CLODS LARGER THAN 1". APPLY SOD TO SOIL SURFACES ONLY AND NOT FROZEN SURFACES, OR GRAVEL. TYPE SOILS TOPSOIL PROPERLY APPLIED WILL HELP GUARANTEE A STAND. DON'T USE TOPSOIL RECENTLY TREATED WITH HERBICIDES OR SOIL STERILANTS. MIX FERTILIZER INTO SOIL SURFACE. FERTILIZE BASED ON SOIL TESTS OR TABLE 6-6.1.

INSTALLATION

LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. DON'T OVERLAP JOINTS. STAGGER JOINTS AND DO NOT STRETCH SOD (SEE FIGURE 6-6.2) ON SLOPES STEEPER THAN 3:1. SOD SHOULD BE ANCHORED WITH PINS OR OTHER APPROVED METHODS. INSTALLED SOD SHOULD BE ROLLED OR TAMPED TO PROVIDE GOOD CONTACT BETWEEN SOD AND SOIL. IRRIGATE SOD AND SOIL TO A DEPTH OF 4" IMMEDIATELY AFTER INSTALLATION. SOD SHOULD NOT BE CUT OR SPREAD IN EXTREMELY WET OR DRY WEATHER. IRRIGATION SHOULD BE USED TO SUPPLEMENT RAINFALL FOR A MINIMUM OF 2-3 WEEKS.

MATERIALS

SOD SELECTED SHOULD BE CERTIFIED. SOD GROWN IN THE GENERAL AREA OF THE PROJECT IS DESIRABLE.

- SOD SHOULD BE MACHINE CUT AND CONTAIN 3/4" (+ OR - 1/4") OF SOIL, NOT INCLUDING SHOOTS OR THATCH.
- SOD SHOULD BE CUT TO THE DESIRED SIZE WITHIN + OR - 5% TORN OR UNEVEN PADS SHOULD BE REJECTED.
- SOD SHOULD BE CUT AND INSTALLED WITHIN 36 HOURS OF DIGGING.
- AVOID PLANTING WHEN SUBJECT TO FROST HEAVE OR HOT WEATHER IF IRRIGATION IS NOT AVAILABLE.
- THE SOD TYPE SHOULD BE SHOWN ON THE PLANS OR INSTALLED ACCORDING TO TABLE 6-6.2. SEE FIGURE 6-4.1 FOR YOUR RESOURCE AREA.

MAINTENANCE

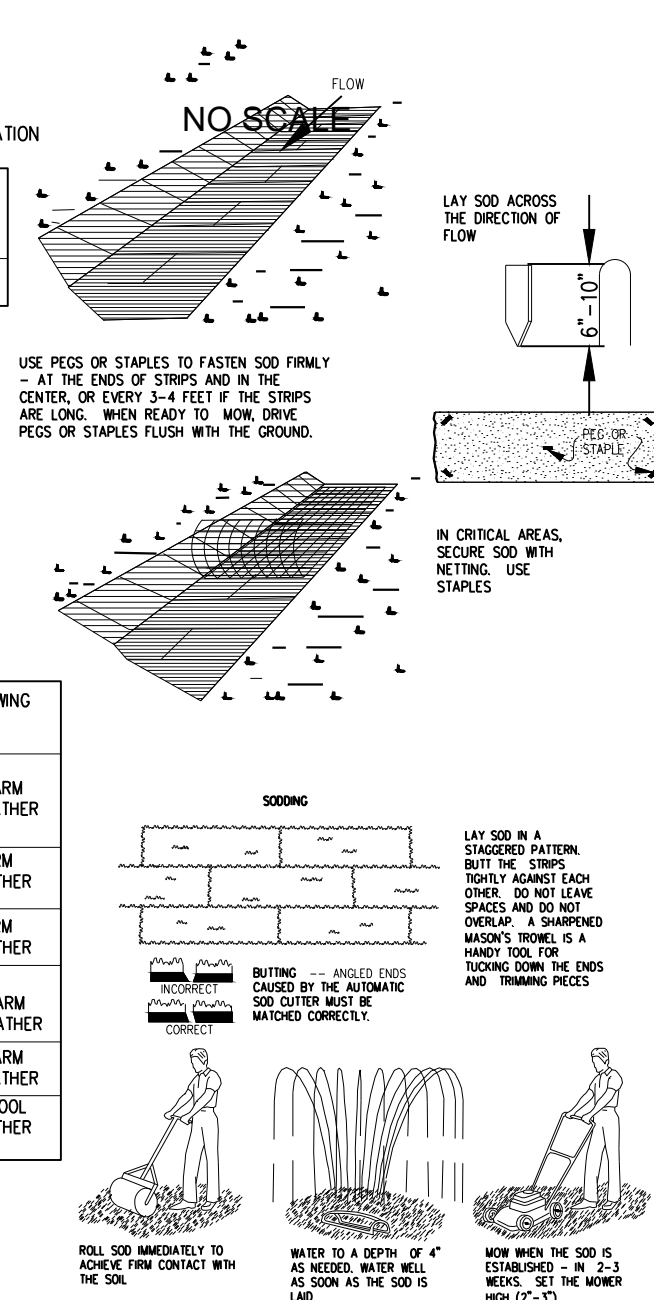
RE-SOD AREAS WHERE AN ADEQUATE STAND OF SOD IS NOT OBTAINED. NEW SOD SHOULD BE MOWED SPARINGLY. GRASS HEIGHT SHOULD NOT BE CUT LESS THAN 2"-3" OR AS SPECIFIED (SEE FIGURE 6-6.2). APPLY ONE TON OF AGRICULTURAL LIME AS INDICATED BY SOIL TEST OR EVERY 4-6 YEARS. FERTILIZE GRASSES IN ACCORDANCE WITH SOIL TESTS OR TABLE 6-6.3

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (lbs./acre)	NITROGEN TOP DRESSING RATE (lbs./acre)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	1000	-
	MAINTENANCE	10-10-10	400	30
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-100
	SECOND	6-12-12	800	50-100
	MAINTENANCE	10-10-10	400	30

FERTILIZER REQUIREMENTS FOR SOIL SURFACE APPLICATION

FERTILIZER TYPE	FERTILIZER RATE (lbs/acre)	FERTILIZER RATE (lbs/sq ft)	SEASON
10-10-10	1000	.025	FALL

AGRICULTURAL LIME SHOULD BE APPLIED BASED ON SOIL TESTS OR AT A RATE OF 1 TO 2 TONS PER ACRE.



Ds-4 DISTURBED AREA STABILIZATION W/ SODDING N.T.S.

DESIGN PROFESSIONAL:
 SUNGTAEK KIM, P.E.
 LEVEL II CERTIFICATION
 No.: 075614
 EXPIRES : 02/26/2022



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 Georgia 30092
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EOR/AOR SEAL
 GEORGIA REGISTERED PROFESSIONAL ENGINEER
 No. 27428
 DAVID M. MORFITT
 2/13/2024

CLIENT INFORMATION
FAYETTE COUNTY
 140 STONEWALL AVE W, STE 203
 FAYETTEVILLE, GA 30214

PROJECT NAME
NORTH BEND COURT CULVERT REPLACEMENT
 FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW
 DRAWN BY: MDW
 CHECKED BY: DMM/MDM
 SUBMITTED BY: DMM
 DATE: February 4, 2025
 PROJECT #: 1210492

EROSION CONTROL DETAILS

SHEET NUMBER
CE502
 SHEET 15 OF 19
 ORIGINAL SHEET SIZE: 22" X 34"

FILE PATH: X:\FY21\1210492\04 CAD_BIM\04.02 CAD\CE-501 PLOTTED BY: URUETA, JUAN DATE: 2/14/25

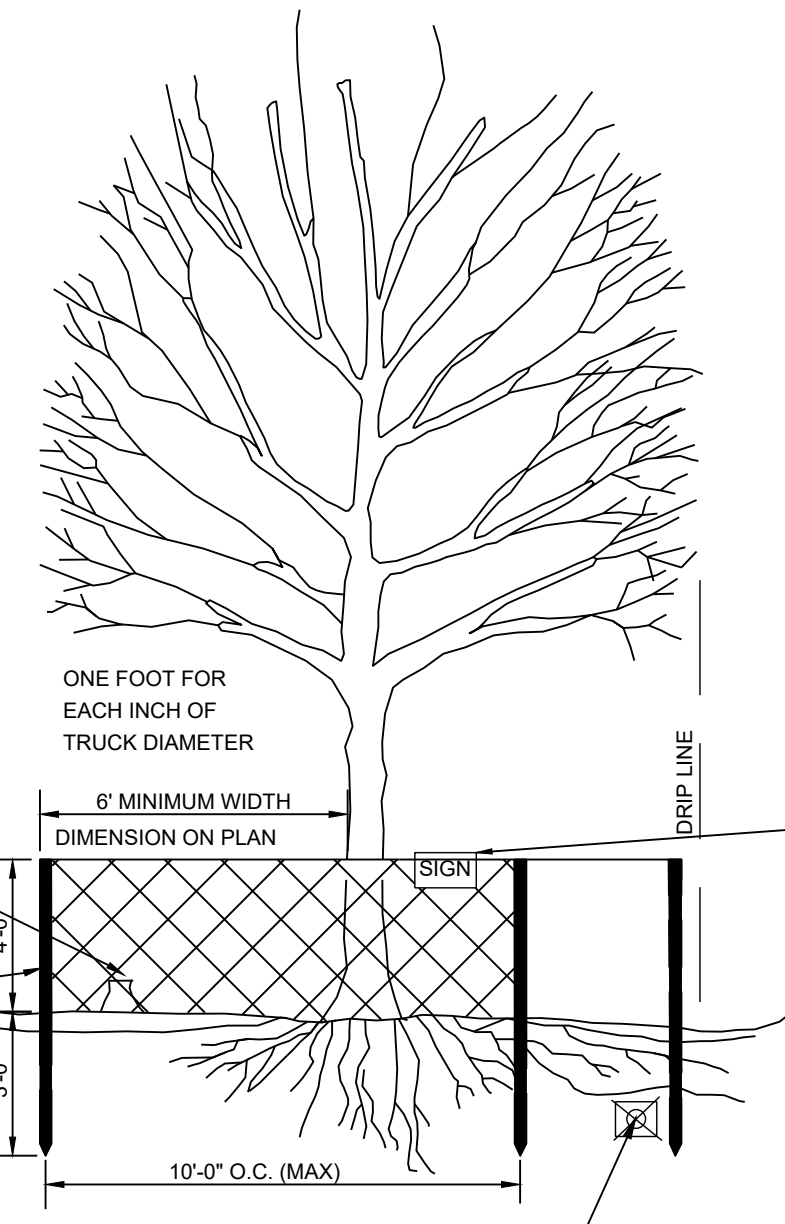
ANY ROOT OR BRANCH PRUNING SHALL BE DONE ONLY BY A LICENSED ARBORIST AT CONTRACTORS EXPENSE. NO GRADE CHANGE IS TO OCCUR IN TREE SAVE AREA. NO TREE WELLS OR AERATION SYSTEM. DO NOT DISTURB ORIGINAL GRADE.

DEAD TREES AND SHRUB GROWTH SHALL BE CUT FLUSH WITH ADJACENT GRADE. NO GRUBBING ALLOWED UNDER DRIP LINE.

ORANGE SAFETY NET ON METAL POSTS; 2"x4"x4' STANDARDS

REMOVE ALL BARRIERS UPON COMPLETION OF PROJECT.

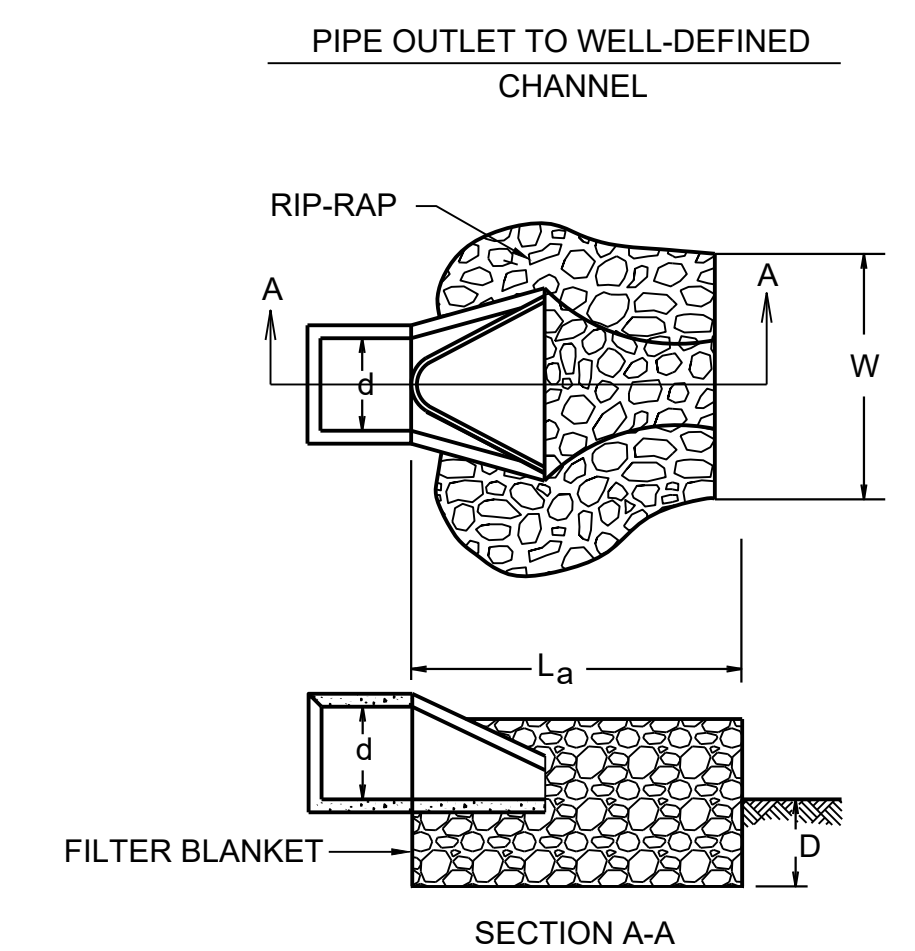
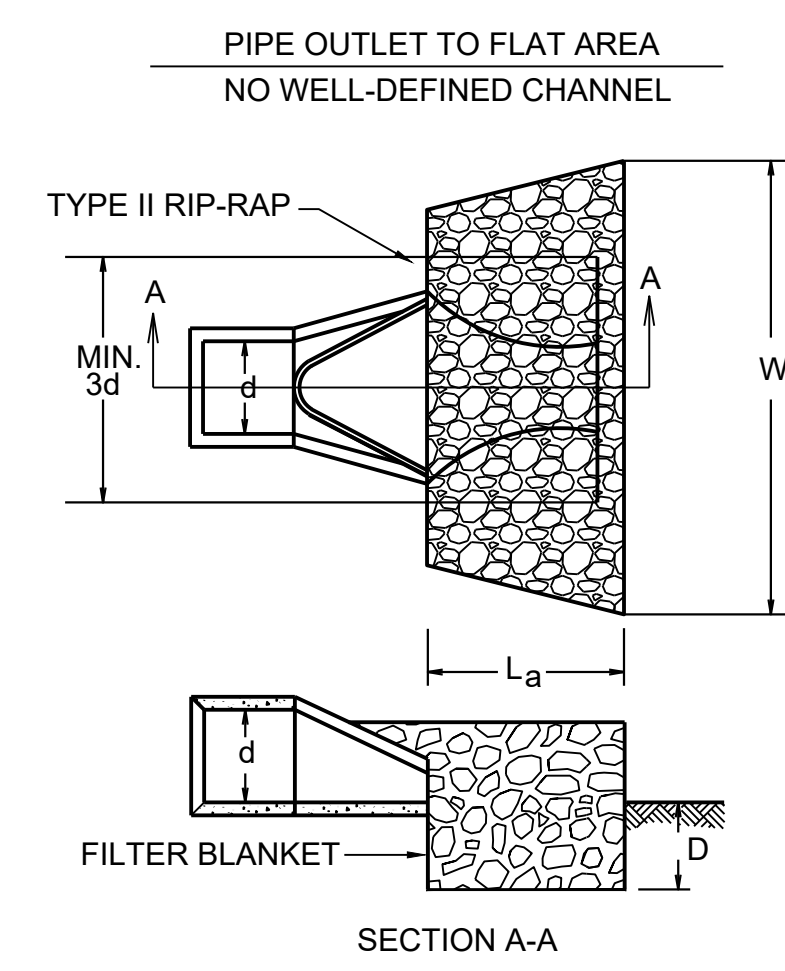
DESTRUCTION/DEATH OF TREE DUE TO CONTRACTOR OPERATIONS WILL REQUIRE "RECOMPENSE" PLANTING, AT CONTRACTOR'S EXPENSE.



- NOTES:**
1. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).
 2. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
 3. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

TREE SAVE AREA: STAY OUT, NO GRADING, NO TRECHING, NO MATERIALS STORAGE, NO VEHICLES

NO TRENCHING OR TUNNELING FOR UTILITIES IN TREE SAVE AREA



- NOTES:**
1. La IS THE LENGTH OF THE RIP RAP APRON
 2. MAXIMUM STONE DIAMETER = 1.5 TIMES d50
 3. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
 4. APRON THICKNESS = 1.5 TIMES MAXIMUM STONE DIAMETER.
 5. IN A WELL DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH, OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
 6. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

Riprap Apron Summary											
(St) ID	Pipe Diameter (Do)	Flow Rate (cfs)	Velocity (fps)	Tailwater (Min/Max)	Riprap size (d50)	Max Stone Size	Apron Thickness	Apron Length (La)	Apron Width at HW (W=3Do)	Apron Width at End (W=Do+La)	Apron Weight (tons)
1	54	102.2	8.1	Min	1	1.5	2.25	20	13.5	24.5	32.8

TREE PROTECTION FENCE

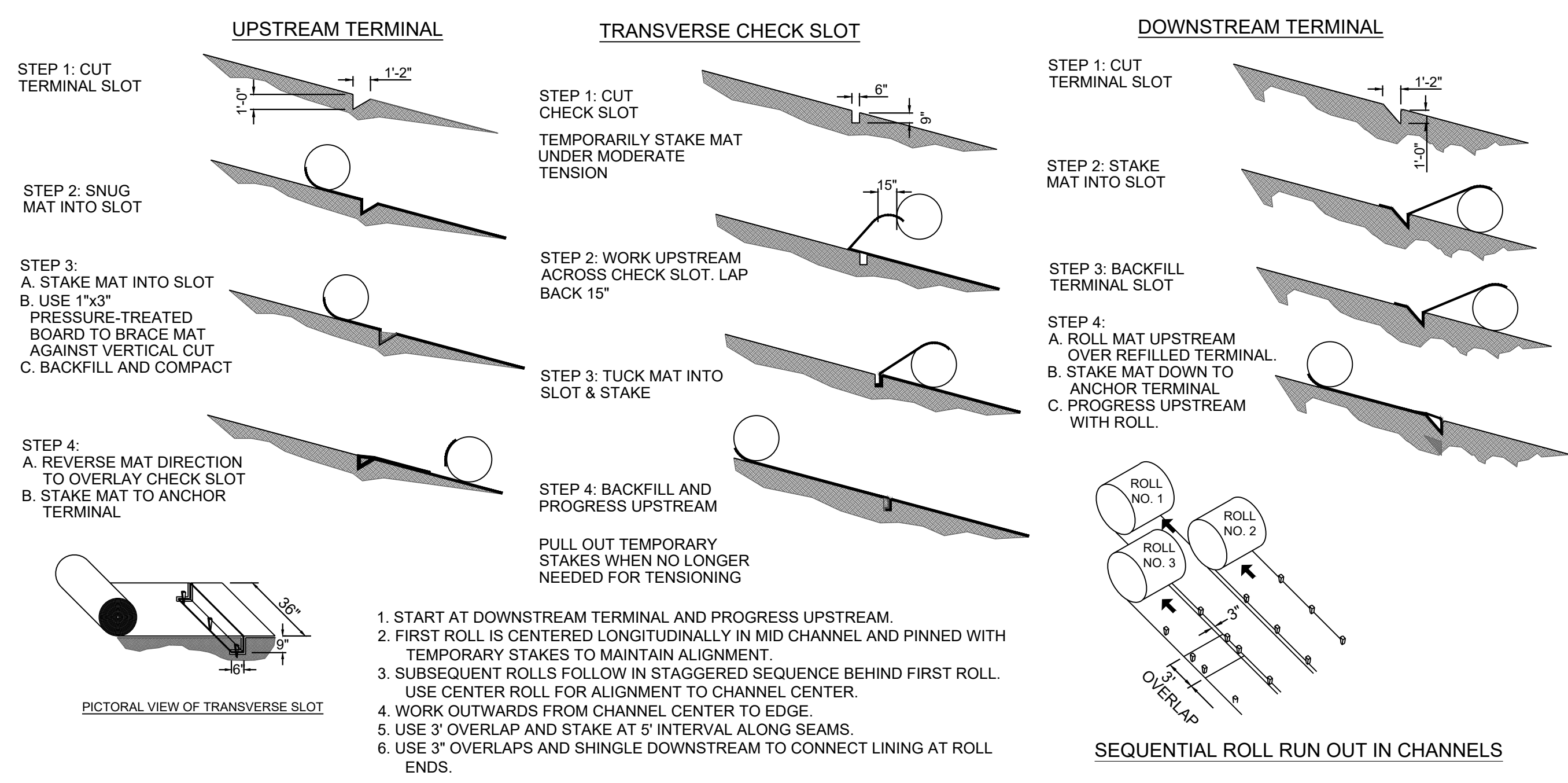
C1 NO SCALE

Tr

STORM OUTLET PROTECTION

C3 NO SCALE

St



1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
4. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
5. USE 3" OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
6. USE 3" OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.

TYPICAL INSTALLATION GUIDELINES FOR SLOPE STABILIZATION WITH MATTING AND BALNKETS

A1 NO SCALE

Ss

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EOR/AOR SEAL
REGISTERED PROFESSIONAL ENGINEER
DAVID M. MORGAN
2/13/2024
CLIENT INFORMATION

FAYETTE COUNTY
140 STONEWALL AVE W, STE 203
FAYETTEVILLE, GA. 30214

PROJECT NAME
NORTH BEND COURT CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW
DRAWN BY: MDW
CHECKED BY: DMM/MDM
SUBMITTED BY: DMM
DATE: February 14, 2024
PROJECT # 1210492

SHEET TITLE

EROSION CONTROL DETAILS

DESIGN PROFESSIONAL:
DAVID MORGAN, P.E.
LEVEL II CERTIFICATION
No.: 0000011643
EXPIRES : 06/03/2024

SHEET NUMBER

CE503

SHEET 16 OF 19

ORIGINAL SHEET SIZE:
22" X 34"

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SPECIES	BROADCAST RATES 2/ - PLS 3/		RESOURCE AREA	PLANTING RATES BY RESOURCE AREA PLANTING DATES												REMARKS	
	PER ACRE	PER 1000 SQ. FT.		OPTIMUM - PERMISSIBLE BUT MARGINAL													
				J	F	M	A	M	J	J	A	S	O	N	D		
BERMUDA, COMMON (CYNODON DACTYLON) HULLED SEED ALONE WITH OTHER PERENNIALS	10 LBS 6 LBS	0.2 LB 0.1 LB	P C														1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA, COMMON (CYNODON DACTYLON) UNHULLED SEED WITH TEMPORARY COVER WITH OTHER PERENNIALS	10 LBS 6 LBS	0.2 LB 0.1 LB	P C														PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
CENTIPEDE (EREMOCHLOA OPHIUROIDES)	BLOCK SOD ONLY		P C														DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONCRETE AND IN CONCENTRATED FLOW AREAS. IRRIGATION AS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.
FESCUE, TALL (FESTUCA ARUNDINACEA) ALONE WITH OTHER PERENNIALS	50 LBS 30 LBS	1.1 LB 0.7 LB	M-L P														227,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SOILS. MIX WITH PERENNIAL LESPEDEZAS OR CROWN VETCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA) ALONE WITH OTHER PERENNIALS	4 LBS 2 LBS	0.1 LB 0.05 LB	M-L P C														1,500,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS.

FERTILIZER REQUIREMENTS

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

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

CONSTRUCTION SPECIFICATIONS

GRADING & SHAPING

- GRADING AND SHAPING MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENT.
- WHEN CONVENTIONAL SEEDING AND FERTILIZING ARE TO BE DONE, GRADE AND SHAPE WHERE FEASIBLE AND PRACTICAL, SO THAT EQUIPMENT CAN BE USED SAFELY AND EFFICIENTLY DURING SEEDBED PREPARATION, SEEDING, MULCHING AND MAINTENANCE OF THE VEGETATION.
- CONCENTRATIONS OF WATER THAT WILL CAUSE EXCESSIVE SOIL EROSION SHALL BE DIVERTED TO A SAFE OUTLET. DIVERSIONS AND OTHER TREATMENT PRACTICES SHALL CONFORM WITH THE APPROPRIATE STANDARDS AND SPECIFICATIONS.

LIME AND FERTILIZER RATES AND ANALYSIS

- AGRICULTURAL LIME IS REQUIRED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERMANENT PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
- LIME SPREAD BY CONVENTIONAL EQUIPMENT SHALL BE "GROUND LIMESTONE." GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90% OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE, NOT LESS THAN 50% WILL PASS THROUGH A 50-MESH SIEVE AND NOT LESS THAN 25% WILL PASS THROUGH A 100-MESH SIEVE.
- FAST ACTING LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT SHOULD BE "FINELY GROUND LIMESTONE" SPANNING FROM THE 180 MICRON SIZE TO THE 5 MICRON SIZE. FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 95% OF THE MATERIAL WILL PASS THROUGH A 100-MESH SIEVE.
- IT IS DESIRABLE TO USE DOLOMITIC LIMESTONE IN THE SAND HILLS, SOUTHERN COASTAL PLAIN AND ATLANTIC COAST FLATWOODS MLRAs (SEE FIGURE 6-4.1).
- AGRICULTURAL LIME IS GENERALLY NOT REQUIRED WHERE ONLY TREES ARE PLANTED.
- INITIAL FERTILIZATION, NITROGEN, TOPDRESSING, AND MAINTENANCE FERTILIZER REQUIREMENTS FOR EACH SPECIES OR COMBINATION OF SPECIES ARE LISTED IN TABLE 6-5.1

LIME AND FERTILIZER APPLICATION

- WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE INOCULANT, IF NEEDED, SHALL BE MIXED WITH THE SEED PRIOR TO BEING PLACED INTO THE HYDRAULIC SEEDER. THE SLURRY MIXTURE WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.
- FINELY GROUND LIMESTONE CAN BE APPLIED IN THE MULCH SLURRY OR IN COMBINATION WITH THE TOP DRESSING.
- WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS:
 1. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
 2. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS.
 3. BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR TRENCHED.
 4. A FERTILIZER PELLETT SHALL BE PLACED AT ROOT DEPTH IN THE CLOSING HOLE BESIDE EACH PINE TREE SEEDLING.

* REVISED PER LATEST EDITION OF MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

A4 NO SCALE

DS3



3500 Parkway Lane Suite 500 Peachtree Corners Georgia 30092

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EOR/AOR SEAL



CLIENT INFORMATION

FAYETTE COUNTY

140 STONEWALL AVE W, STE 203 FAYETTEVILLE, GA. 30214

PROJECT NAME

NORTH BEND COURT CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW
DRAWN BY: MDW
CHECKED BY: DMM/MDM
SUBMITTED BY: DMM
DATE: February 14, 2024
PROJECT # 1210492

SHEET TITLE

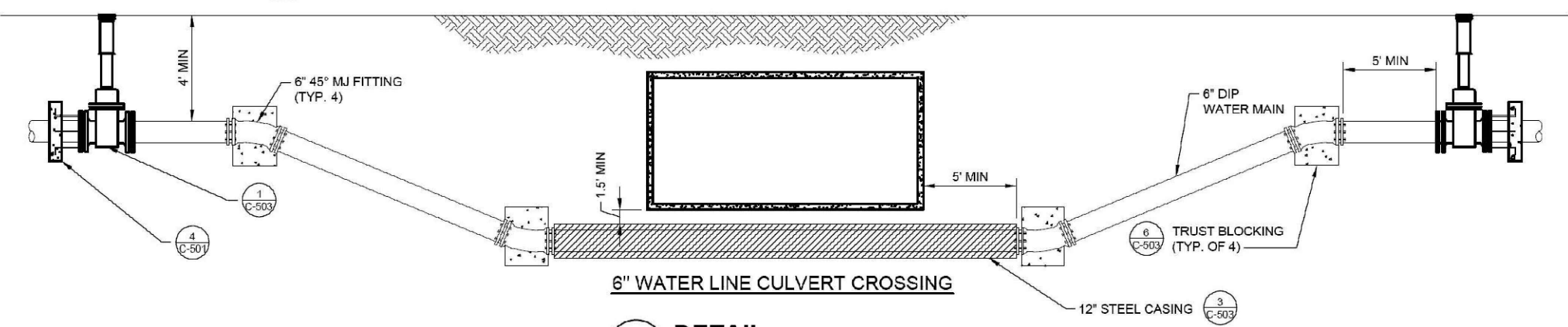
EROSION CONTROL DETAILS

SHEET NUMBER

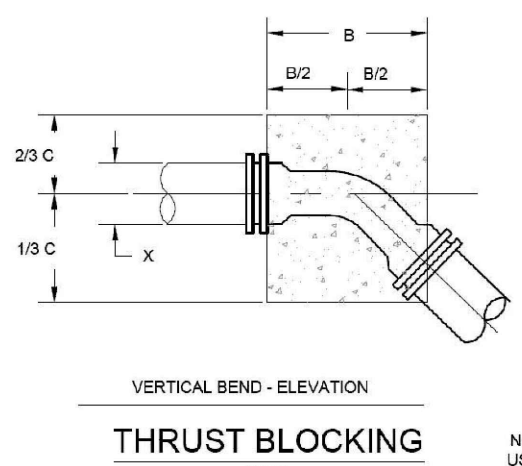
CE504

SHEET 17 OF 19

ORIGINAL SHEET SIZE: 22" X 34"



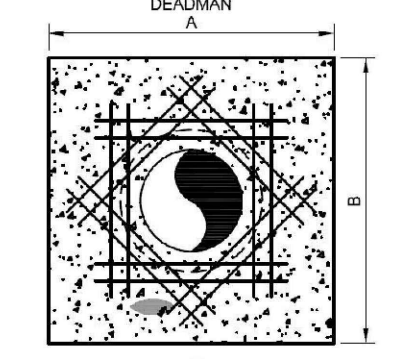
5 DETAIL
SCALE: N.T.S.



6 DETAIL
SCALE: N.T.S.

Pipe Size X	Line Pressure = 200 PSI Soil Pressure = 2000 PSF			
	A	B	C	D
24"	2'-4"	3'-6"	5'-0"	3'-8"
20"	1'-11"	4'-0"	4'-0"	3'-2"
18"	1'-0"	4'-0"	4'-0"	2'-9"
16"	1'-7"	3'-6"	3'-6"	2'-9"
14"	1'-3"	3'-0"	3'-0"	2'-0"
12"	1'-3"	3'-0"	2'-6"	2'-0"
10"	1'-3"	2'-6"	2'-0"	1'-9"
8"	1'-0"	1'-6"	1'-6"	1'-3"
6"	0'-11"	1'-6"	1'-6"	1'-0"
4"	0'-9"	1'-0"	1'-0"	1'-0"

- NOTES:
- DEADMAN SHALL BE CLASS "C" CONCRETE. "SACKCRETE" WILL NOT BE ALLOWED.
 - THE UTILITY LINE MUST BE LOWERED IN ORDER TO HAVE FOUR FEET (4') OF COVER AT THE BEND. TEE, REDUCER, OR PLUG AT ALL LOCATIONS WHERE THESE FITTINGS MAY BE UTILIZED.
 - FOR SOIL CONDITIONS LESS THAN 2000 P.S.F. BEARING PRESSURE OR PIPE PRESSURE OVER 150 P.S.I. SPECIAL THURST BLOCKS/RESTRAINT MUST BE CONSULTED AND APPROVED.
 - CONCRETE SHALL BE POURED AGAINST UNDISTURBED SOIL. DISTURBED SOIL TO BE COMPACTED TO 98% OPTIMUM MOISTURE CONTENT.
 - MAINTAIN 2" CLEARANCE BETWEEN PIPE WALL AND REBAR.



7 DETAIL
SCALE: N.T.S.

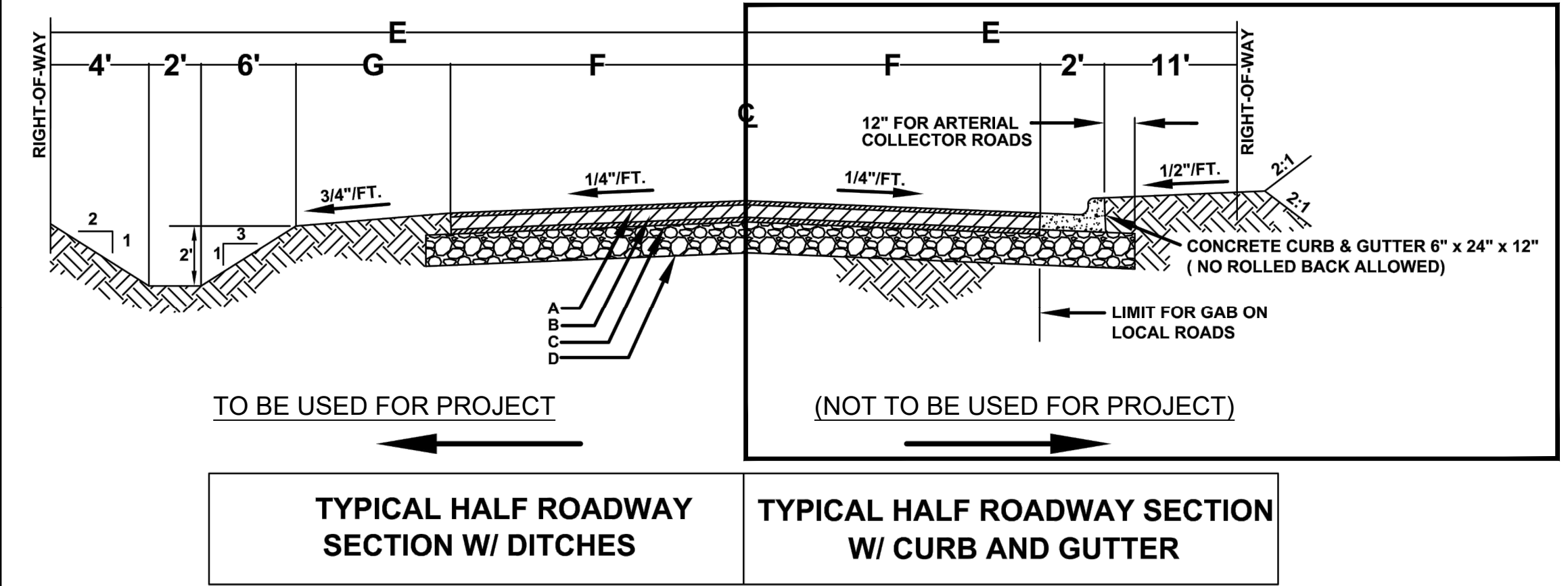
PIPE SIZE X	LINE PRESSURE = 150 PSI SOIL PRESSURE = 2000 PSF	
	A	B
6"	2'-0"	2'-0"
8"	2'-6"	2'-6"
10"	3'-6"	3'-6"
12"	4'-0"	4'-0"
14"	4'-6"	4'-6"
16"	5'-0"	5'-0"
18"	6'-0"	6'-0"
20"	6'-6"	6'-6"
24"	7'-6"	7'-6"

C1 FAYETTE COUNTY TYPICAL ROAD CROSS SECTION & PAVEMENT
SCALE: N.T.S.

DIMENSION	ARTERIAL	COLLECTOR	LOCAL
A	1.5"	1.5"	1.5"
B	2"	2.5"	2"
C	3"	-	-
D	8"	8"	** 6"
E	50"	40"	30"
F	*	*	12"
G	10'	8'	6'

* SEE SEC. 8-48(2) FOR PAVEMENT WIDTH
** 10" OF GAB REQUIRED UNDER CUL-DE-SACS

- A-RECYCLED ASPHALTIC CONCRETE 9.5mm SUPERPAVE GP 2 ONLY, INCL BITUM & H LIME
B-RECYCLED ASPHALTIC CONCRETE 19mm SUPERPAVE GP 1 OR 2, INCL BITUM & H LIME
C-RECYCLED ASPHALTIC CONCRETE 25mm SUPERPAVE GP 1 OR 2, INCL BITUM MATL & H LIME
D- GRADED AGGREGATE BASE (GAB) OR SOIL CEMENT STABILIZED BASE,

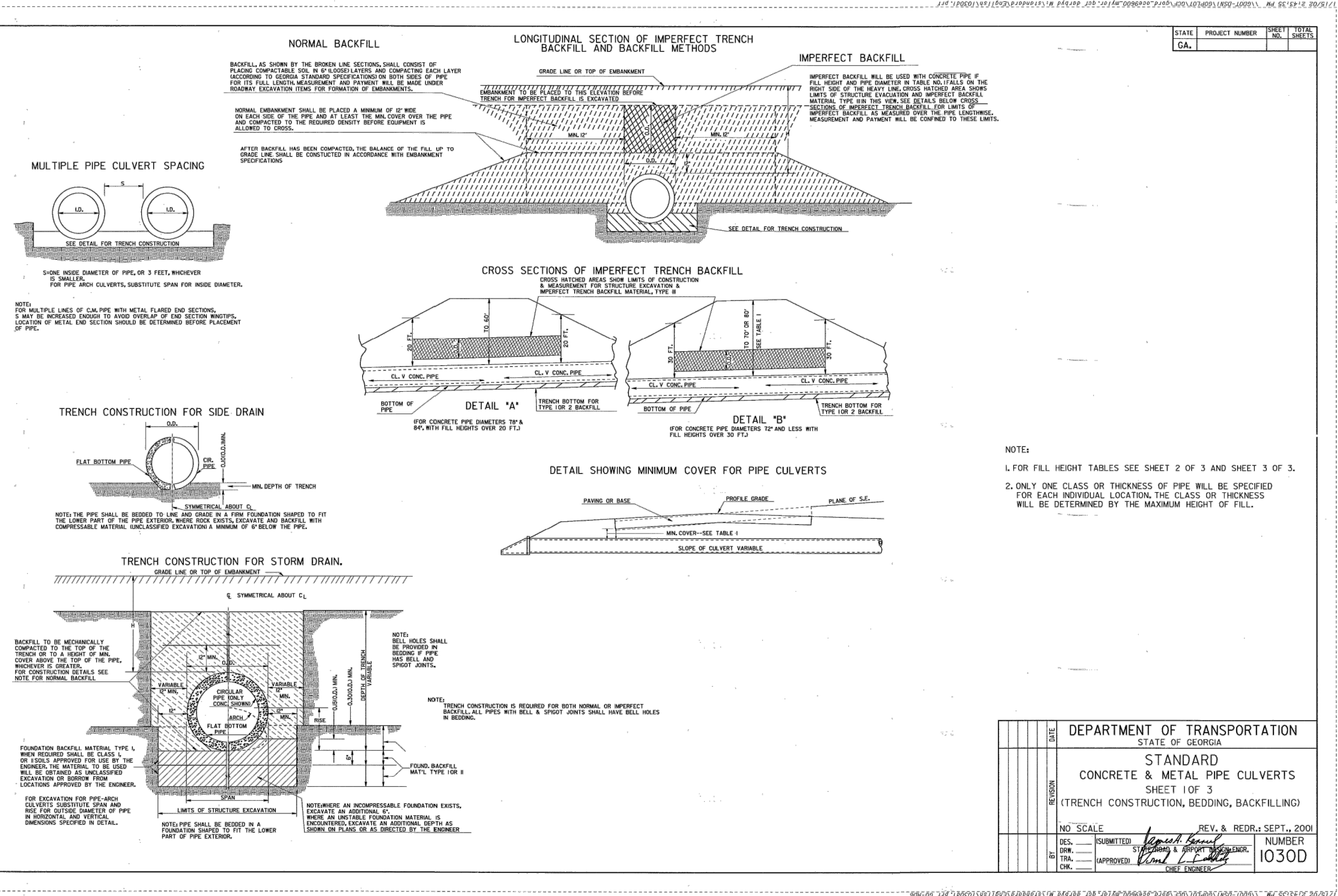


FAYETTE COUNTY, GEORGIA
ENGINEERING DEPARTMENT
TELEPHONE: 770.460.5730 EXT. 5410
WEBSITE: www.fayettecountyga.gov

FAYETTE COUNTY TYPICAL ROAD CROSS SECTION
FIGURE 8-49(4)

01	02/2017	JLR	ASPHALT	DRAWN BY: JJG	SCALE: NTS	DATE: SEPTEMBER 27-2006 REVISED 2017
NO.	DATE	BY	REVISIONS			

A1 FAYETTE COUNTY TYPICAL ROAD CROSS SECTION & PAVEMENT
SCALE: N.T.S.



B3 GDOT STANDARD CONCRETE AND METAL PIPE CULVERT
SCALE: N.T.S.

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092
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FAYETTE COUNTY
140 STONEWALL AVE W, STE 203
FAYETTEVILLE, GA, 30214

PROJECT NAME
NORTH BEND COURT CULVERT REPLACEMENT
FAYETTE COUNTY, GA

CLIENT INFORMATION

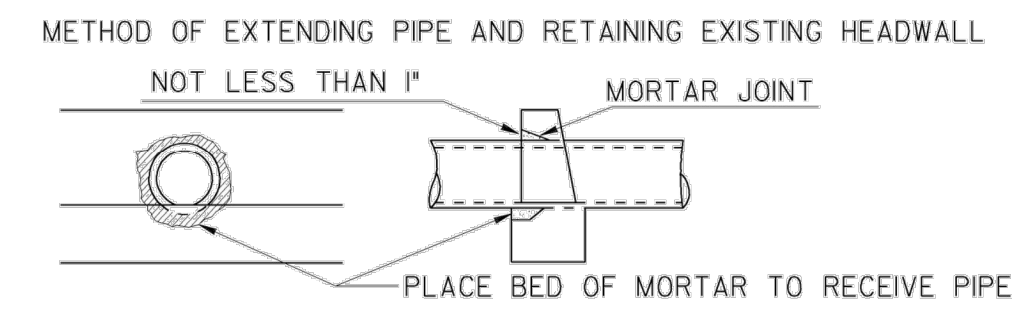
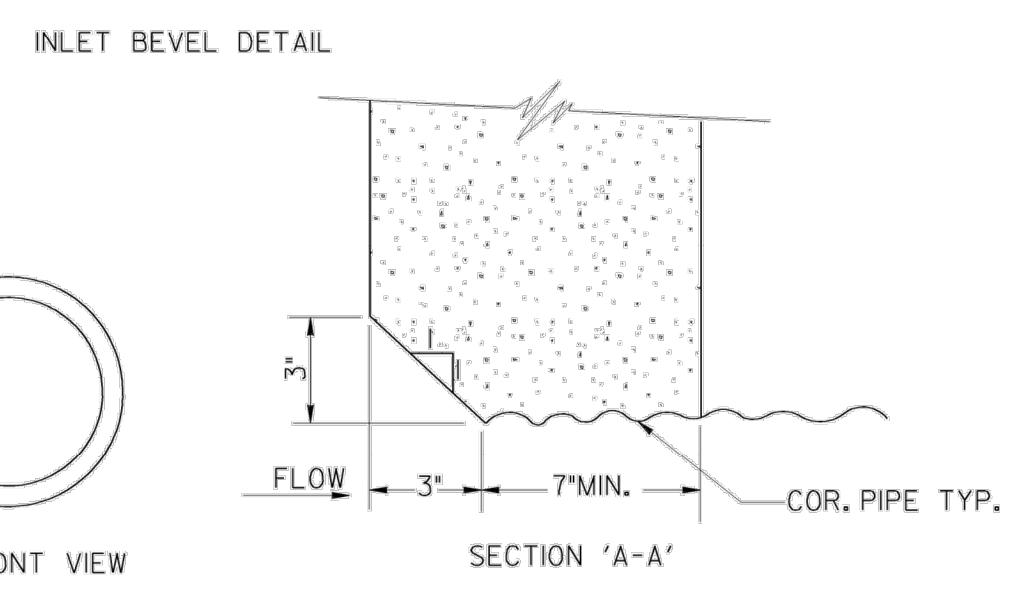
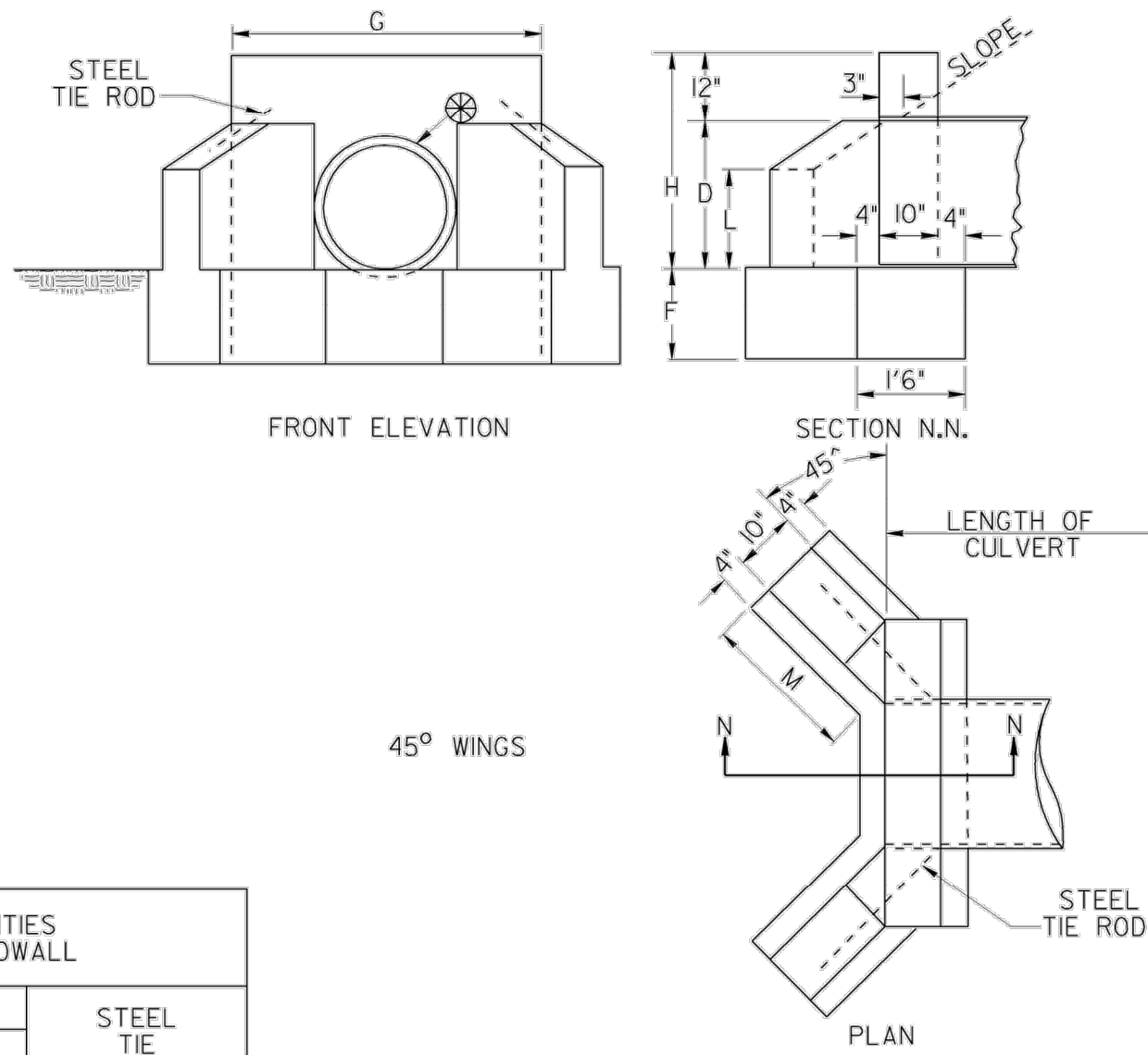
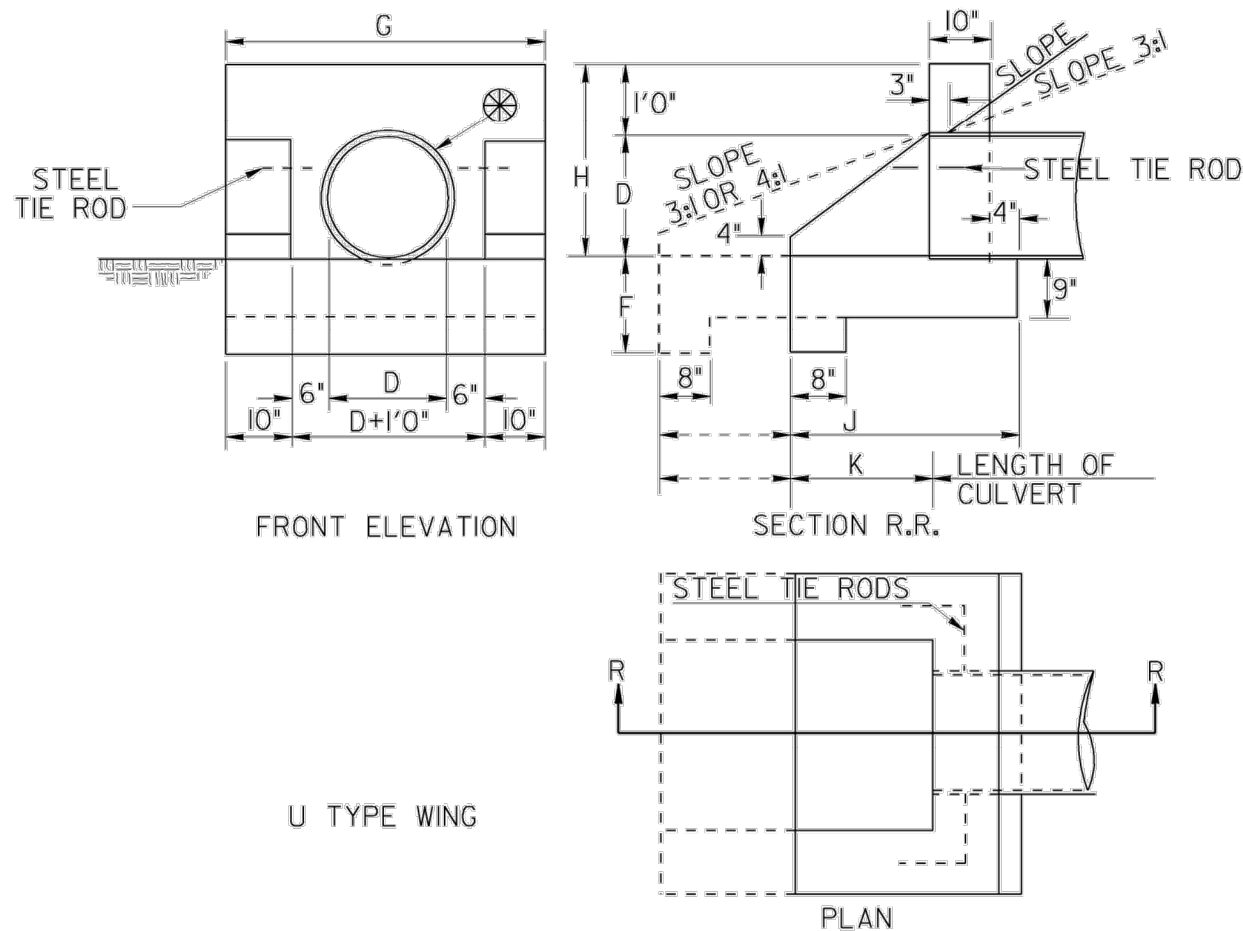
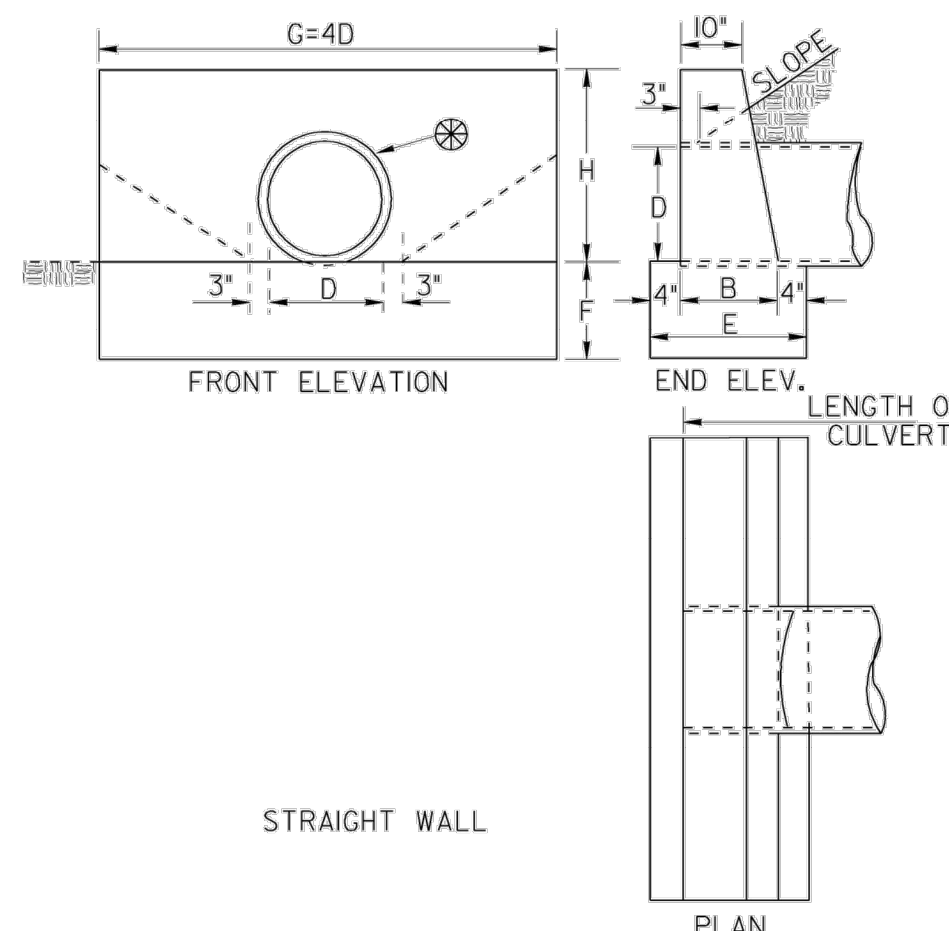
DRAWING ISSUE

DESIGNED BY: MDW
DRAWN BY: MDW
CHECKED BY: DMM/MDM
SUBMITTED BY: DMM
DATE: February 14, 2024
PROJECT #: 1210492

SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER
C-501
SHEET 17 OF 19
ORIGINAL SHEET SIZE:
22" X 34"

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



DIMENSIONS						QUANTITIES ONE STRAIGHT ENDWALL				
D	AREA SQ. FT.	WALL		FOOTING		CLASS "B" CONCRETE		STEEL TIE RODS	CONC. IN WALL & FOOTING FOR EACH ADDL. PIPE LINE	
		G	H	E	F	CU. FT.	CU. YD.			
12"	0.8	4'0"	2'0"	1'0"	1'0"	7.2	7.3	14.5	0.54	0.25
15"	1.2	5'0"	2'3"	1'2"	1'0"	9.9	10.7	20.6	0.76	0.36
18"	1.8	6'0"	2'6"	1'3"	1'1"	13.6	14.4	28.0	1.04	0.48
24"	3.1	8'0"	3'0"	1'4"	2'0"	22.3	21.3	43.6	1.62	0.74
30"	4.9	10'0"	3'6"	1'6"	2'2"	34.7	32.5	67.2	2.49	1.13
36"	7.1	12'0"	4'0"	1'8"	2'4"	50.5	46.7	97.2	3.60	1.62
42"	9.6	14'0"	4'6"	1'10"	2'6"	70.3	70.0	140.3	5.20	2.13
48"	12.6	16'0"	5'0"	2'1"	2'9"	96.9	88.0	184.9	6.85	2.58
54"	16.0	18'0"	5'6"	2'4"	3'0"	129.4	108.0	237.4	8.79	3.07
60"	19.6	20'0"	6'0"	2'6"	3'2"	164.6	126.7	291.3	10.79	3.53

FOR EACH ADDITIONAL PIPE LINE, ADD TO G: OD+4D OR 3 FEET, WHICHEVER IS SMALLER

DIMENSIONS						QUANTITIES ONE "U" ENDWALL				
D	AREA SQ. FT.	G	H	FOOTING		CLASS "B" CONCRETE		STEEL TIE RODS	CONC. IN WALL & FOOTING FOR EACH ADDL. PIPE LINE	
				K	J	CU. FT.	CU. YD.			
12"	0.8	3'8"	2'0"	1'0"	1'3"	2'2"	6.6	7.3	13.9	0.52
15"	1.2	3'11"	2'3"	1'5"	1'3"	2'7"	8.3	9.1	17.4	0.64
18"	1.8	4'2"	2'6"	1'9"	1'3"	2'11"	9.9	10.7	20.6	0.76
24"	3.1	4'8"	3'0"	2'6"	1'6"	3'8"	13.9	15.5	29.4	1.09
30"	4.9	5'2"	3'6"	3'3"	1'6"	4'5"	18.7	20.0	38.7	1.43
36"	7.1	5'8"	4'0"	4'0"	1'9"	5'2"	21.2	26.2	50.4	1.87
42"	9.6	6'2"	4'6"	4'9"	2'0"	5'11"	30.3	33.2	63.5	2.35
48"	12.6	6'8"	5'0"	5'6"	2'0"	6'8"	37.3	39.6	76.9	2.85
54"	16.0	7'2"	5'6"	6'3"	2'0"	7'5"	44.2	45.9	90.1	3.33
60"	19.6	7'8"	6'0"	7'0"	2'0"	8'2"	51.1	49.1	100.2	3.71

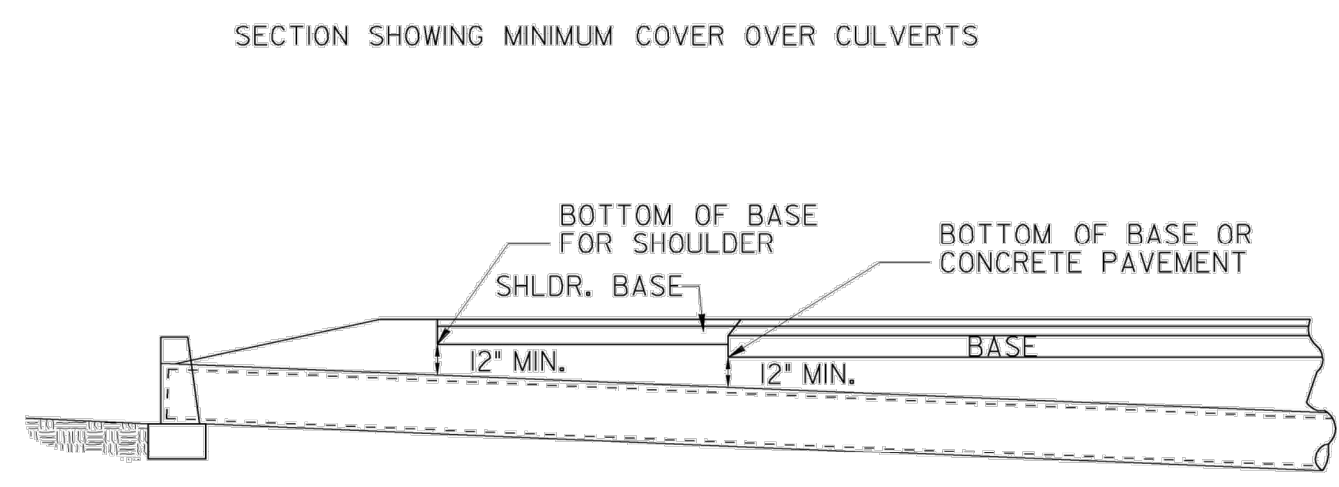
DIMENSIONS						QUANTITIES ONE ENDWALL WITH 45° WING WALLS				
D	AREA SQ. FT.	H	G	L	M	F	CLASS "B" CONCRETE		STEEL TIE RODS	CONC. IN WALL & FOOTING FOR EACH ADDL. PIPE LINE
							WALL	FOOT		
12"	0.8	2'6"	3'10"	1'2"	1'7"	1'3"	9.3	10.7	20.0	0.74
15"	1.2	3'0"	4'4"	1'5"	2'1"	1'4"	13.1	14.4	27.5	1.02
18"	1.8	3'6"	4'10"	1'9"	2'5"	1'6"	17.4	18.8	36.7	1.34
24"	3.1	4'0"	5'4"	2'0"	2'11"	1'8"	22.6	24.6	47.2	1.75
30"	4.9	4'6"	5'10"	2'3"	3'6"	2'0"	29.1	34.6	63.7	2.36
36"	7.1	5'0"	6'4"	2'6"	4'0"	2'0"	35.9	39.1	75.0	2.78
42"	9.6	5'6"	6'10"	2'9"	4'6" 1/4"	2'0"	42.9	46.6	89.5	3.31
48"	12.6	6'0"	7'4"	3'0"	5'0" 1/2"	2'0"	51.8	51.1	102.9	3.81

DIMENSIONS						QUANTITIES ONE "L" ENDWALL				
D	AREA SQ. FT.	H	4D TYP.	D+30 TYP.	CL. YD. CONC.	STEEL TIE RODS	CLASS "B" CONCRETE		CONC. IN WALL & FOOTING FOR EACH ADDL. PIPE LINE	
							CU. FT.	CU. YD.		
15"	1.2	2'3"	5'0"	3'9"	1.08	2-3/4" DIA. x 5'0"	11.2	15.5	26.6	0.98
18"	1.8	2'6"	6'0"	4'0"	1.24	2-3/4" DIA. x 6'0"	14.3	19.6	33.9	1.26
24"	3.1	3'0"	8'0"	4'6"	1.59	2-3/4" DIA. x 8'0"	22.0	29.8	51.8	1.92
30"	4.9	3'6"	10'0"	5'0"	2.00	2-3/4" DIA. x 10'0"	31.3	40.7	72.0	2.67
36"	7.1	4'0"	12'0"	5'6"	2.46	2-3/4" DIA. x 12'0"	42.5	54.1	96.6	3.58
42"	9.6	4'6"	14'0"	6'0"	2.98	2-3/4" DIA. x 14'0"	55.4	69.2	124.6	4.61
48"	12.6	5'0"	16'0"	6'6"	3.53	2-3/4" DIA. x 16'0"	70.0	84.8	154.8	5.73
54"	16.0	5'6"	18'0"	7'0"	4.13	2-3/4" DIA. x 18'0"	86.4	101.9	188.3	6.97
60"	19.6	6'0"	20'0"	7'6"	4.85	2-3/4" DIA. x 20'0"	104.7	120.5	225.2	8.34

NOTE: THESE QUANTITIES WILL VARY ACCORDING TO DITCH SECTION AND ARE TO BE USED FOR ESTIMATING PURPOSES ONLY. PAYMENT TO BE MADE ACCORDING TO QUANTITIES MEASURED AS ACTUALLY PLACED.

NOTE: QUANTITIES OF CONCRETE ARE BASED ON INSIDE DIAMETER OF PIPE. NO DEDUCTIONS SHALL BE MADE FOR SHELL THICKNESS OR SKEW OF PIPE IN COMPUTING PAY QUANTITIES.

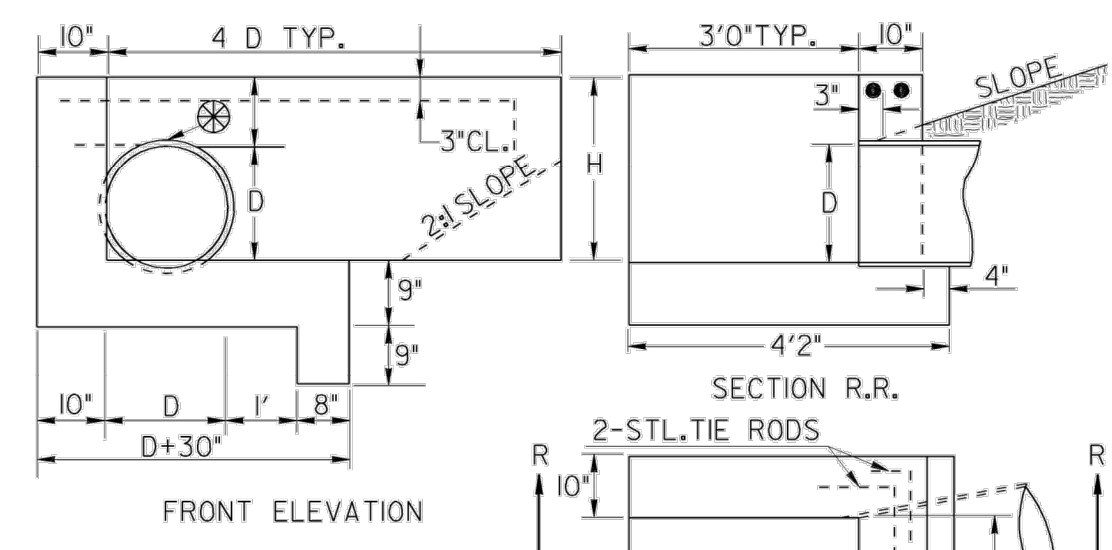
IF PIPE HAS NEITHER A GROOVE NOR A SPIGOT AT ITS INLET, AN INLET BEVEL WILL BE REQ'D.



NOTE: GRADE GENERALLY TO FOLLOW SLOPE OF STREAM.

NOTE TO DESIGNER
 THIS STANDARD IS LIMITED FOR USE ONLY AT SPECIAL CONDITIONS, OTHERWISE, SEE CURRENT STANDARDS I120 & I125.
 HEADWALLS ARE NOT TO BE PLACED INSIDE THE CLEAR ZONE.

NOTE: THE 3'-0" DIMENSION IS BASED ON DITCH SECTION 1' DEEP. VARY ACCORDING TO DITCH SECTION SO AS TO KEY 1'0" INTO BACK SLOPE OF DITCH.



DIMENSIONS						QUANTITIES ONE "L" ENDWALL	
D	AREA SQ. FT.	H	4D TYP.	D+30 TYP.	CL. YD. CONC.	STEEL TIE RODS	CONC. IN WALL & FOOTING FOR EACH ADDL. PIPE LINE
15"	1.2	2'3"	5'0"	3'9"	1.08	2-3/4" DIA. x 5'0"	11.2
18"	1.8	2'6"	6'0"	4'0"	1.24	2-3/4" DIA. x 6'0"	14.3
24"	3.1	3'0"	8'0"	4'6"	1.59	2-3/4" DIA. x 8'0"	22.0
30"	4.9	3'6"	10'0"	5'0"	2.00	2-3/4" DIA. x 10'0"	31.3
36"	7.1	4'0"	12'0"	5'6"	2.46	2-3/4" DIA. x 12'0"	42.5
42"	9.6	4'6"	14'0"	6'0"	2.98	2-3/4" DIA. x 14'0"	55.4
48"	12.6	5'0"	16'0"	6'6"	3.53	2-3/4" DIA. x 16'0"	70.0
54"	16.0	5'6"	18'0"	7'0"	4.13	2-3/4" DIA. x 18'0"	86.4
60"	19.6	6'0"	20'0"	7'6"	4.85	2-3/4" DIA. x 20'0"	104.7

3/4 FILL SLOPES

DEPARTMENT OF TRANSPORTATION
 STATE OF GEORGIA

STANDARD PIPE CULVERT CONCRETE HEADWALL

NO SCALE
 REV. & REDR. AUG. 1999

DESIGNED BY: (SUBMITTED) *James H. Kennel*
 TRACED BY: STATE ROAD & AIRPORT DESIGN ENGINEER
 CHECKED BY: (APPROVED) *David L. Cantley*
 CHIEF ENGINEER

NUMBER 1001-B

EOR/AOR SEAL



CLIENT INFORMATION

FAYETTE COUNTY
 140 STONEWALL AVE W, STE 203
 FAYETTEVILLE, GA. 30214

PROJECT NAME

NORTH BEND COURT
 CULVERT REPLACEMENT
 FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW
 DRAWN BY: MDW
 CHECKED BY: DMM/MDM
 SUBMITTED BY: DMM
 DATE: February 14, 2024
 PROJECT #: 1210492

CONSTRUCTION DETAILS

SHEET NUMBER

C-502

SHEET 18 OF 19

ORIGINAL SHEET SIZE: 22" X 34"

100% DESIGN ISSUED FOR CONSTRUCTION