

FILE PATH: X:\FY25\25021007 CAD-BIM\07.02 CAD\CIVIL\G-001 PLOTTED BY: URUETA, JUAN DATE: 8/8/25

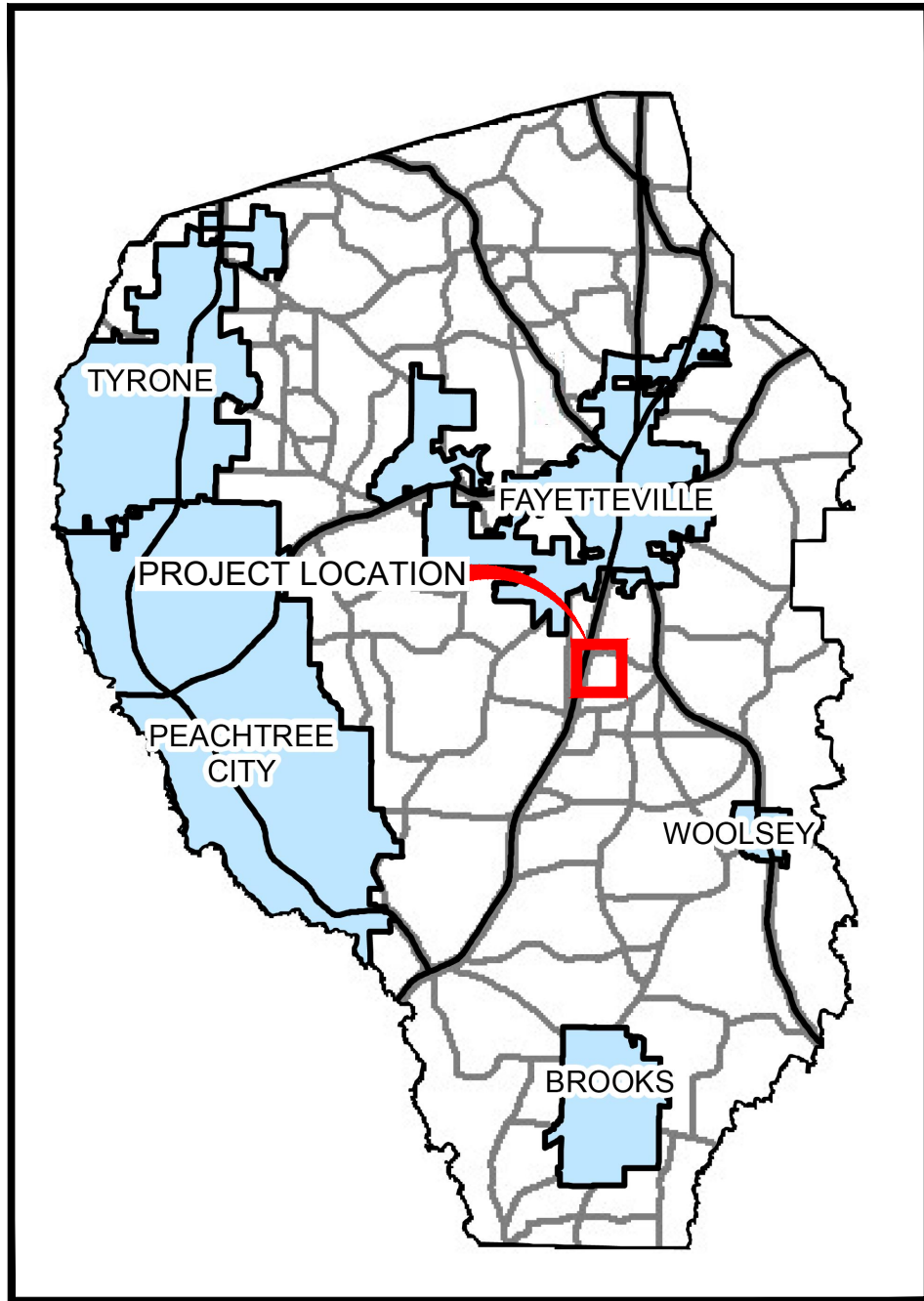
# CIVIL CONSTRUCTION DOCUMENTS FOR FAYETTE COUNTY GREENFIELD CIRCLE - CULVERT REPLACEMENT

250 GREENFIELD CIRCLE, FAYETTE COUNTY, GA.

33.41182°, 84.45918°

ISSUED FOR REVIEW

COUNTY PROJECT NUMBER: 24SAD



## VICINITY MAP

SCALE: NTS



| UTILITY NOTIFICATION/RELOCATION CHECKBOX |            |                                                                                 |               |                                                                           |
|------------------------------------------|------------|---------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------|
| UTILITY COMPANY                          | PLAN PHASE | CONTACT                                                                         | DATE NOTIFIED | UTILITY RESPONSE                                                          |
| SOUTHERN COMPANY                         | 35% DESIGN | MFLOYD@SOUTHERNCO.COM<br>TAGALLAND@SOUTHERNCO.COM                               | N/A           |                                                                           |
|                                          | 95% DESIGN |                                                                                 | 5/16/2025     | NO RESPONSE                                                               |
| FAYETTE COUNTY WATER SYSTEM (FCWS)       | 35% DESIGN | TERRY BOGGS<br>(WATERSYSTEMDEVELOPMENT@FAYETTECOUNTYGA.GOV)                     | N/A           |                                                                           |
|                                          | 95% DESIGN |                                                                                 | 5/16/2025     | NO RESPONSE                                                               |
| COMCAST                                  | 35% DESIGN | STEPHEN ADAMS (STEPHEN_ADAMS@COMCAST.COM)                                       | N/A           |                                                                           |
|                                          | 95% DESIGN |                                                                                 | 5/16/2025     | NO RESPONSE                                                               |
| COWETA-FAYETTE EMC                       | 35% DESIGN | STEVE JONES (STJONES@UTILITY.ORG)                                               | N/A           |                                                                           |
|                                          | 95% DESIGN |                                                                                 | 5/16/2025     | NO RESPONSE                                                               |
| ATT                                      | 35% DESIGN | ANDRE WALTON (AW9750@ATT.COM)<br>JERMAINE MEEKINS (JM0840@ATT.COM)              | N/A           |                                                                           |
|                                          | 95% DESIGN |                                                                                 | 5/16/2025     | SUPPORT IN PLACE IS ALLOWED, BUT CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE |
| ZAYO                                     | 35% DESIGN | MAX SMITH (MAX.SMITH@COBBFENDLEY.COM)<br>ZAYOGEORGIARELOCATIONS@COBBFENDLEY.COM | N/A           |                                                                           |
|                                          | 95% DESIGN |                                                                                 | 5/16/2025     | INITIAL COMMUNICATION. WAITING ON OFFICIAL LETTER                         |

## 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:  
CODY OWENBY, P.E.  
Cody.Owenby@pondco.com

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 DETERIORATED DOUBLE 36-INCH DIAMETER CMP CULVERT AND REPLACING IT WITH A 54 LINEAR FOOT 7' X 6' BOX CULVERT.

## PROJECT INFORMATION:

DISTURBED AREA:  
0.23 ACRES

IMPERVIOUS SURFACE AREA:  
0.02 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.

THE CONTRACTOR IS PERMITTED TO USE EITHER PRECAST OR CAST-IN-PLACE CULVERTS, PROVIDED THE SELECTED METHOD MEETS ALL DESIGN REQUIREMENTS.

## Sheet List Table

| Sheet Number | Sheet Title                                     |
|--------------|-------------------------------------------------|
| G-001        | CIVIL COVER SHEET                               |
| C-001        | GENERAL CIVIL ABBREVIATIONS AND LEGEND          |
| C-002        | GENERAL CIVIL NOTES                             |
| V-001        | TOPOGRAPHIC SURVEY                              |
| CD101        | DEMOLITION PLAN                                 |
| CG101        | SITE AND GRADING PLAN                           |
| CG201        | STORM PROFILE                                   |
| CG301        | EASEMENT EXHIBIT                                |
| C-501        | CONSTRUCTION DETAILS                            |
| C-502        | CONSTRUCTION DETAILS                            |
| C-503        | CONSTRUCTION DETAILS                            |
| C-504        | CONSTRUCTION DETAILS                            |
| C-505        | CONSTRUCTION DETAILS                            |
| C-506        | CONSTRUCTION DETAILS                            |
| C-507        | CONSTRUCTION DETAILS                            |
| C-508        | CONSTRUCTION DETAILS                            |
| C-509        | CONSTRUCTION DETAILS                            |
| C-510        | CONSTRUCTION DETAILS                            |
| CE001        | EROSION AND SEDIMENT CONTROL NOTES              |
| CE002        | EROSION AND SEDIMENT CONTROL NOTES              |
| CE003        | EROSION AND SEDIMENT CONTROL NOTES              |
| CE101        | EROSION AND SEDIMENT CONTROL PLAN INITIAL PHASE |
| CE201        | EROSION AND SEDIMENT CONTROL PLAN FINAL PHASE   |
| CE501        | EROSION AND SEDIMENT CONTROL DETAILS            |
| CE502        | EROSION AND SEDIMENT CONTROL DETAILS            |
| CE503        | EROSION AND SEDIMENT CONTROL DETAILS            |
| CE504        | EROSION AND SEDIMENT CONTROL DETAILS            |
| CE505        | EROSION AND SEDIMENT CONTROL DETAILS            |
| CE506        | EROSION AND SEDIMENT CONTROL DETAILS            |
| CE507        | EROSION AND SEDIMENT CONTROL DETAILS            |

**POND**

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FOR/AOR SEAL



GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

## FAYETTE COUNTY

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

CIVIL COVER  
SHEET

SHEET NUMBER

G-001

SHEET 1 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"



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

100% SUBMITTAL - ISSUED FOR CONSTRUCTION







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D

C

B

A

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.

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.
5.

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.
6.

THE COUNTY'S PROJECT MANAGER 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.
7.

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.
8.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND AT LEAST 48 HOURS 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 FAYETTE COUNTY 48 HOURS PRIOR TO PROOF ROLL OF GAB PLACEMENT.
9.

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.
10.

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.
11.

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 ONE ELECTRONIC PDF RECORD AS-BUILT DRAWING IMMEDIATELY UPON COMPLETION PRIOR TO FINAL ACCEPTANCE.
12.

TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS TAKEN FROM SURVEY PROVIDED BY: GEOSURVEY, LTD., DATED: 6-14-2024.
13.

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.
14.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO CONSTRUCTION TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
15.

LIMITS OF DISTURBANCE INDICATED ON THE PLANS 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.
16.

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.
17.

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 UNSALVAGEABLE MATERIALS AND YARD WASTE FROM THE SITE IMMEDIATELY AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS
6.

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.
7.

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 "W" 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 UPGRAIENT 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 AND OTHER AREAS TO 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY (AASHTO T - 99).
2.

ALL ORGANIC SOILS AS DETERMINED WITHIN UTILITY TRENCHES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AND COMPACTED TO NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY (AASHTO T - 99).
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 AWWA 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: 67. PROPOSED RUNOFF CURVE NUMBER FOR THE PROJECT: 67.
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.

ALL REQUIRED TRAFFIC SIGNAGE MUST MEET MUTCD STANDARDS.
2.

ALL REQUIRED TRAFFIC STRIPING MUST MEET MUTCD AND GDOT PLAN SPECIFICATIONS AND MUST BE THERMO-PLASTIC.
3.

ALL STRIPING LAYOUTS MUST BE APPROVED BY THE COUNTY TRANSPORTATION ENGINEER PRIOR TO FINAL APPLICATION.
4.

CONTRACTOR TO COORDINATE ROAD CLOSURE WITH OFFSITE DETOUR WITH FAYETTE COUNTY AND ENGINEER.

POND

3500 Parkway Lane

Suite 500

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Georgia 30092

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FOR/AOR SEAL

GEORGIA

REGISTERED PROFESSIONAL ENGINEER

08/08/2025

Alan Owen

Alan Owen

GSWCC# 95439,

EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

GENERAL CIVIL NOTES

SHEET NUMBER

C-002

SHEET 3 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION



1. GREENFIELD SUBDIVISION, PREPARED BY PAUL LEE CONSULTING ENGINEERING ASSOCIATES, INC., DATED SEPTEMBER 29, 1983, RECORDED IN PB 15, PG 44.





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GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

140 STONEWALL AVE W, STE 203  
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PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

DEMOLITION  
PLAN

SHEET NUMBER

CD101

SHEET 5 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

GENERAL SHEET NOTES:

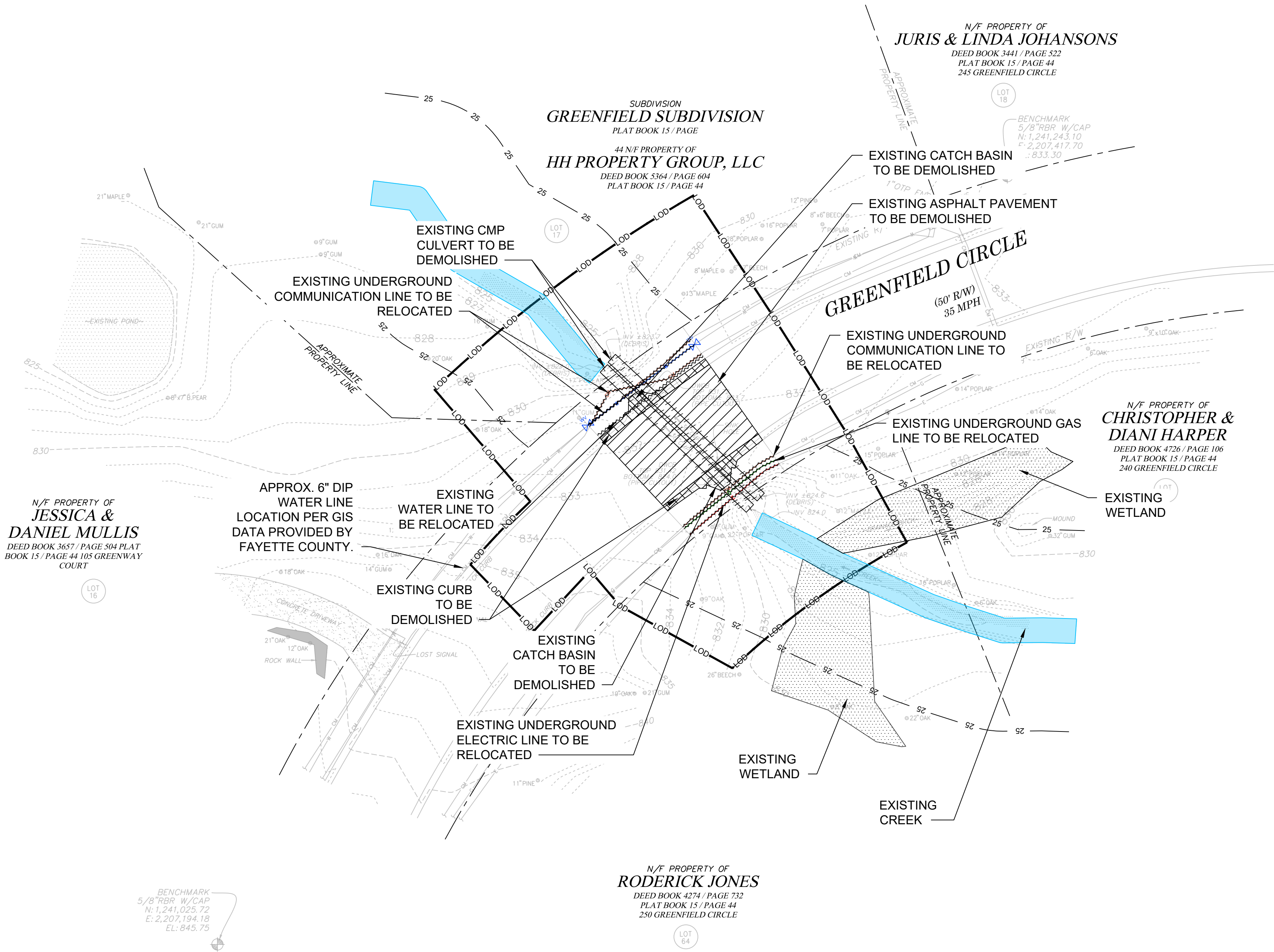
1. REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS, AND CIVIL NOTES.
2. THIS SHEET IS PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
3. ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY THE FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTORS REPRESENTATIVE BEFORE CONCRETE IS PLACED.
4. AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. (SHALL BE CERTIFIED BY A GEORGIA REGISTERED LAND SURVEYOR)
5. CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
6. CONTRACTOR TO MAINTAIN UTILITY SERVICES DURING CONSTRUCTION, WITH MINIMAL INTERRUPTION.
7. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB, DRIVEWAYS, ASPHALT, FENCING OR EXISTING ROADWAY OUTSIDE OF PAVING LIMITS DURING CONSTRUCTION.
8. ANY DAMAGED ASPHALT OUTSIDE OF THE RESURFACE OR PAVING LIMITS SHOWN ON PLANS WILL REQUIRE TO BE MILLED AND RESURFACED.
9. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO PROTECT OR RELOCATE THE EXISTING INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO GAS, COMMUNICATIONS, POWER, AND WATER.
10. EXISTING CONDITIONS AS SHOWN ARE BASED ON SURVEY PROVIDED IN GENERAL NOTES #12 FROM SHEET C-002. EXISTING CONDITIONS SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE CONFIRMED BY CONTRACTOR PRIOR TO WORK.
11. CULVERT STREAM BEDDING MATERIAL IS ALLOWED BY FAYETTE COUNTY TO BE EMBED NATURALLY WITH FLOW.
12. THE LIMITS OF DISTURBANCE MUST BE CLEARED IN ENTIRETY.
13. FAYETTE COUNTY TO COORDINATE AND OBTAIN REQUIRED EASEMENTS.

DEMOLITION NOTES:

- A. PROTECTION:
1. PERFORM DEMOLITION SO AS TO PREVENT DAMAGE TO ADJACENT IMPROVEMENTS AND FACILITIES TO REMAIN TO INCLUDE AREAS OUTSIDE OF APPROVED LIMITS OF DISTURBANCE
  2. PROTECT NEW OR EXISTING WORK FROM DAMAGE DURING DEMOLITION OPERATIONS.
  3. PROTECT EXISTING SITE APPURTENANCES AND LANDSCAPING TO REMAIN.
  4. 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.
  5. CONTRACTOR TO ESTABLISH TEMPORARY BENCHMARKS ON SITE AT LOCATIONS THAT WILL REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
  6. CONTRACTOR TO COORDINATE WITH THE COUNTY AND UTILITY COMPANIES ON THE RELOCATION OF UTILITIES.
  7. CONTRACTOR TO MAINTAIN ACCESS TO AFFECTED PROPERTIES AT ALL TIMES.
- B. REMOVAL & DISPOSAL OF DEMOLISHED MATERIALS:
1. 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.
  2. ALL ITEMS INDICATED TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
  3. PROMPTLY DISPOSE OF MATERIALS RESULTING FROM DEMOLITION OPERATIONS. DO NOT ALLOW MATERIALS TO ACCUMULATED ON SITE.
  4. TRANSPORT MATERIALS RESULTING FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF-SITE.
  5. 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.
  6. DO NOT BURN REMOVED MATERIALS ON PROJECT SITE.
  7. CONTRACTOR TO COORDINATE THE LOCATION OF ANY MATERIAL LAYDOWN AREAS WITH THE COUNTY AND MAINTAIN ENOUGH CLEAR SPACE FOR CONSTRUCTION EQUIPMENT ACCESS.
  8. ONSITE EXCAVATED MATERIAL MAY NOT BE SUITABLE FOR RE-USE. CONTRACTOR PRICING SHALL INCLUDE ALL MATERIALS INCLUDING IMPORTED FILL, AS NECESSARY.
- C. POLLUTION CONTROLS:
1. CONTROL THE SPREAD OF DUST AND DIRT WITH PRACTICAL MEANS.
  2. OBSERVE ENVIRONMENTAL PROTECTION REGULATIONS.
  3. DO NOT ALLOW WATER USAGE THAT RESULTS IN FREEZING OR FLOODING.
  4. DO NOT ALLOW ADJACENT IMPROVEMENTS TO REMAIN TO BECOME SOILED BY DEMOLITION OPERATIONS.
- D. CLEANING:
1. REMOVE TOOLS AND EQUIPMENT. DISPOSE OF SCRAP.
  2. LEAVE EXTERIOR AREAS FREE OF DEBRIS.
  3. CLEAN SOIL, SMUDGES, AND DUST FROM SURFACES TO REMAIN.
  4. RETURN STRUCTURES AND SURFACES TO REMAIN TO CONDITION EXISTING PRIOR TO COMMENCEMENT OF DEMOLITION.

LEGEND

- ~~~~~ EXISTING UTILITY LINE DEMOLITION (GAS, ELECTRICAL, ETC.)
- +++++ EXISTING UTILITY PIPE DEMOLITION (SANITARY, STORM, ETC.)
- APPROX. LOCATION OF EXISTING 25' STATE BUFFERS
- EXISTING ASPHALT PAVEMENT DEMOLITION
- EXISTING CONCRETE STRUCTURE DEMOLITION (CURB, CATCH BASIN, ETC.)



A1 DEMOLITION PLAN

SCALE: 1" = 20'







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GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

SITE AND  
GRADING PLAN

SHEET NUMBER

CG101

SHEET 6 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

GENERAL SHEET NOTES

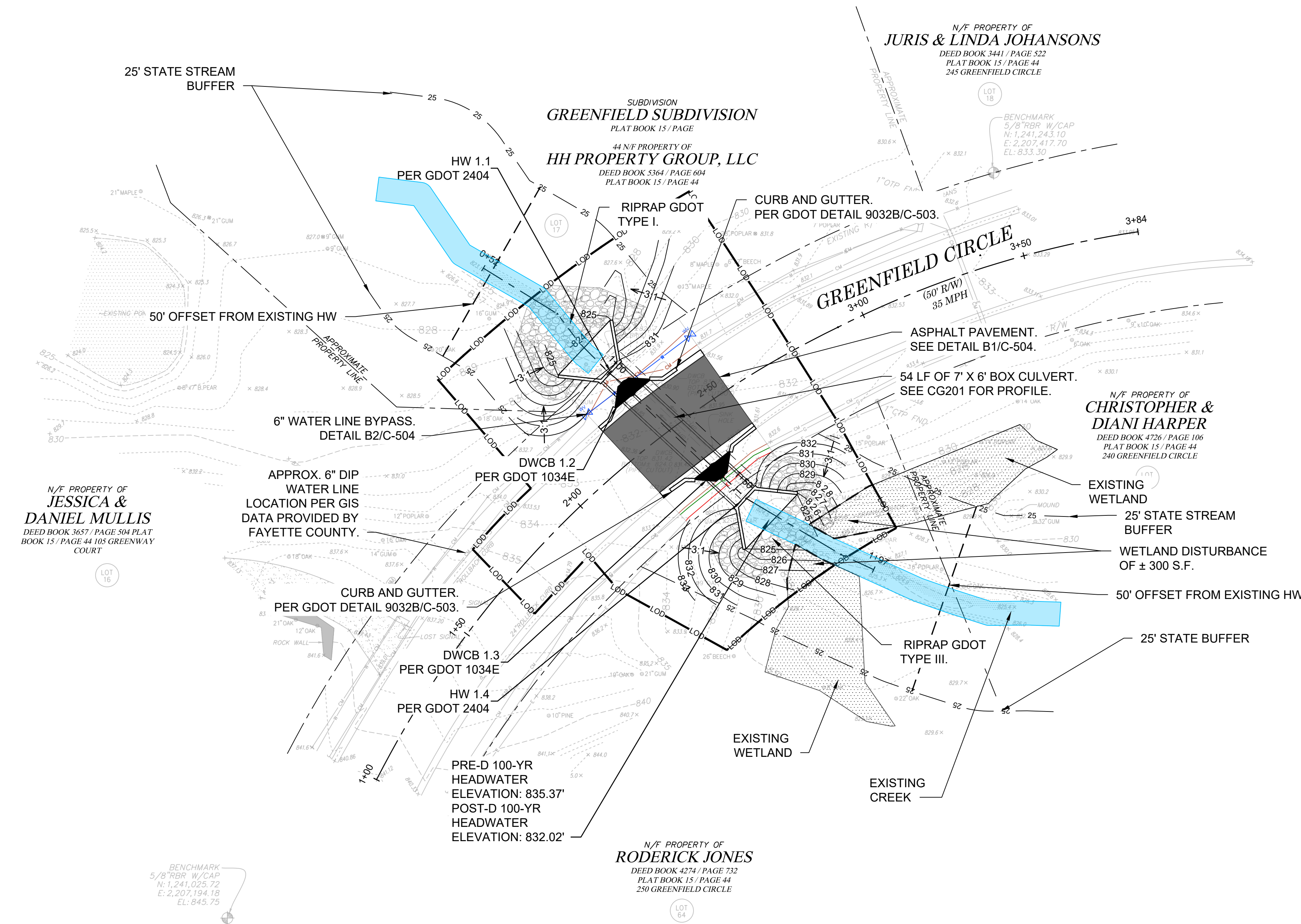
- REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS, AND CIVIL NOTES.
- THIS SHEET IS PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
- ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY ENGINEER'S OR OWNER'S 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 MUST 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, FENCE, 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.
- IF PRECAST STRUCTURE IS USED IN PLACE OF A CAST-IN-PLACE STRUCTURE, THE STRUCTURE SHOP DRAWINGS ARE TO BE APPROVED BY ENGINEER FOR OWNER.

GRADING NOTES:

- CONTRACTOR TO MATCH EXISTING ROAD GRADE/DRAINAGE PATTERNS.
- MAXIMUM SLOPES ALLOWED WITHIN FAYETTE COUNTY RIGHT-OF-WAY SHALL BE 3:1. PROVIDE GENTLER SLOPES WHERE POSSIBLE.

LEGEND

- ASPHALT PAVEMENT - DETAIL B1/C-504
- LIMIT OF DISTURBANCE
- RIPRAP
- 25' STATE BUFFER: 35 LF DISTURBED UPSTREAM  
28 LF DISTURBED DOWNSTREAM
- EXISTING WETLAND: ±300 SF DISTURBED.
- EXISTING CREEK



A1 SITE AND GRADING PLAN

SCALE: 1" = 20'

0 10' 20' 40' 60'

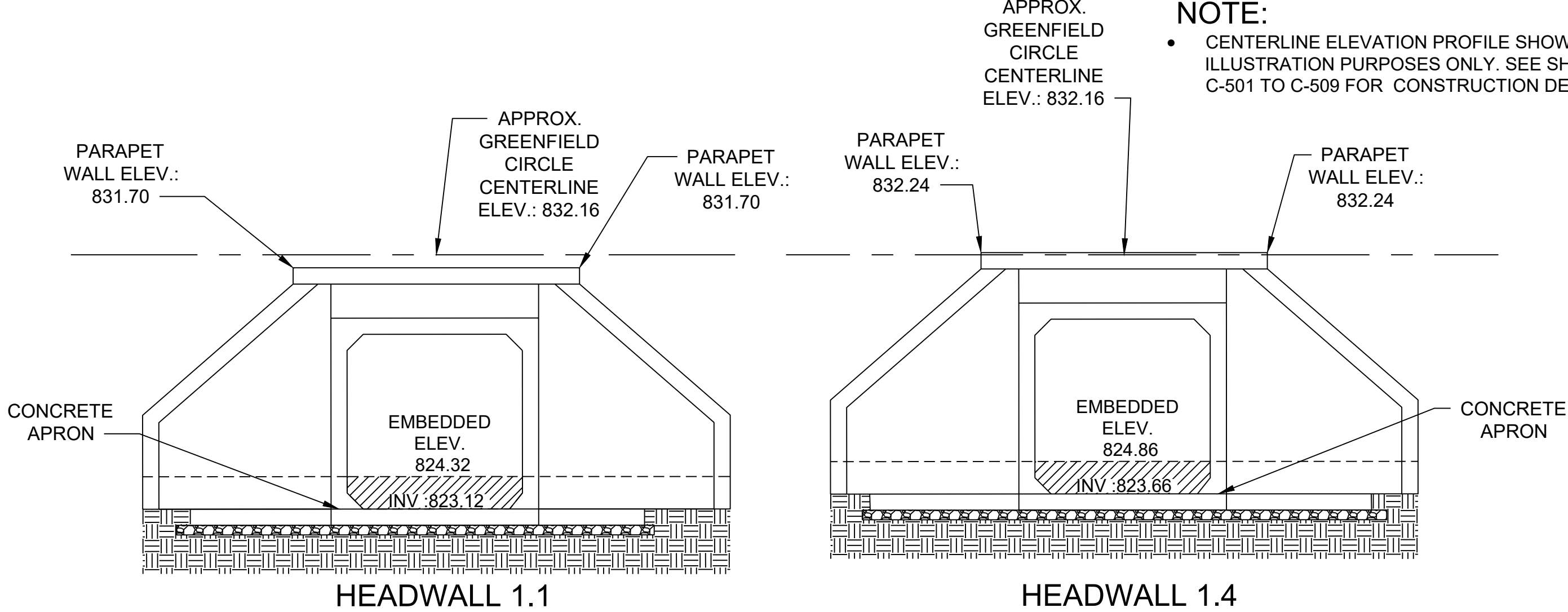




FILE PATH: X:\FY25\1250210\07 CAD-BIM\07.02 CAD\CIVIL\CG101 PLOTTED BY: URUETA, JUAN DATE: 8/6/25

| FLOW SUMMARY TABLE |            |               |             |                       |
|--------------------|------------|---------------|-------------|-----------------------|
| STORM FREQUENCY    | FLOW (CFS) | HGL DOWN (FT) | HGL UP (FT) | OUTLET VELOCITY (FPS) |
| 100-YEAR           | 264.00     | 827.57        | 831.09      | 10.67                 |

DRAINAGE AREA = 121.6 ACRES



### C3 GREENFIELD CIRCLE CENTERLINE ELEVATION PROFILE

NO SCALE

### STREAM DIVERSION NOTES

WRITTEN BY: CAO 5/7/2025

REVIEWED BY: JB 5/7/2025

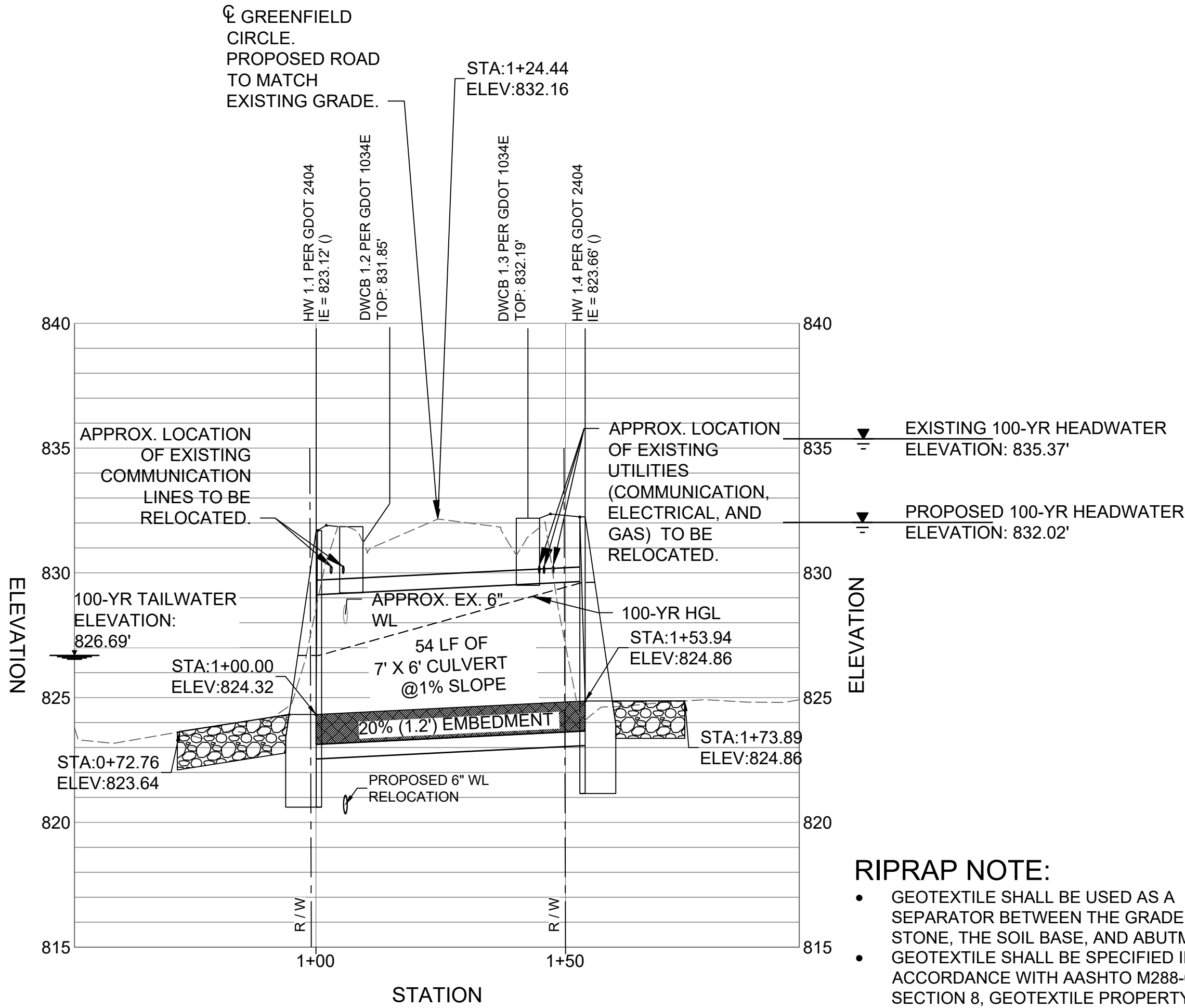
- TEMPORARY DIVERSION METHODS (E.G., PUMPING, BERM, CHANNEL, ETC.) USED TO INSTALL STRUCTURES IN PERENNIAL AND INTERMITTENT STREAMS SHALL BE IN PLACE LESS THAN 60 DAYS TO MINIMIZE IMPACTS TO AQUATIC LIFE PASSAGE.
- FILL MATERIAL REQUIRED FOR TEMPORARY DIVERSIONS SHALL BE NON-ERODIBLE AND SHALL BE REMOVED IN ITS ENTIRETY UPON COMPLETION OF THE DIVERSION.
- UPON COMPLETION OF ANY STREAM DIVERSION THAT REQUIRES ALTERATION OF THE STREAM BED OR BANK, THE AFFECTED REACH SHALL BE RESTORED TO PRE-PROJECT ELEVATIONS, WIDTHS, AND CONTOURS OR SUCH THAT THE MORPHOLOGY OF THE IMPACTED STREAM REACH MIMICS THE ADJACENT UPSTREAM AND DOWNSTREAM REACH. ADDITIONALLY, DISTURBED STREAM BANKS SHALL BE STABILIZED AND REVEGETATED.
- UNLESS THE PLANS INDICATE OTHERWISE, THE ESPCP DOES NOT CONTAIN APPROVED DIVERSION PLANS OR APPROVED METHODS TO DE-WATER. THE USE OF MECHANICAL PUMPS TO DIVERT STATE WATERS/STREAMS OR TO DE-WATER AREAS WITHIN THE PROJECT SHALL REQUIRE THE SUBMISSION OF A PLAN FOR REVIEW BY THE LOCAL MUNICIPALITY PRIOR TO COMMENCING.
- THE FOLLOWING SUGGESTED ALTERNATIVES ARE OFFERED FOR CONSIDERATION IN THE DEVELOPMENT OF SITE SPECIFIC DIVERSION PLANS. ALTERNATIVES ARE NOT LIMITED TO THE EXAMPLES PRESENTED BELOW, NOR DO THESE SUGGESTIONS IMPLY OR CONFER APPROVAL BY THE DESIGN PROFESSIONAL OR LOCAL MUNICIPALITY:
  - DIVERSION ALTERNATE #1: THE NORMAL STREAM FLOW OF NON-TROUT WATER STREAMS FLOWING ON UNIFORM BEDS HAVING A GRADE OF LESS THAN 2%, BEING BETWEEN 1' AND 6' WIDE ACROSS THE WATER SURFACE BY NO MORE THAN 1' DEEP AT THE STREAM'S DEEPEST DEPTH IN THIS LOCATION MAY BE TEMPORARILY STOPPED WHILE WORK IS TAKING PLACE IN THE CHANNEL BY PLACING TEMPORARY SAND BAGS IN THE CHANNEL UPSTREAM OF THE WORK AREA. MONITORING OF THE STOPPED INFLOW TO PREVENT DAMAGE TO PRIVATE PROPERTY OR CREATE SAFETY CONCERNS SHALL DICTATE THE ABILITY TO CONTINUE OPERATIONS. AT A MINIMUM OF ONCE PER EVERY 8 HOURS THE STOPPAGE SHALL BE REMOVED TO ALLOW FOR NORMAL STREAM FLOW TO RESUME FOR A MINIMUM DURATION OF 1 HOUR. UNDER NO CONDITIONS SHALL THE STOPPAGE CONTINUE UNINTERRUPTED FOR MORE THAN 8 HOURS. RELEASE OF IMPOUNDED WATER SHALL OCCUR FOLLOWING THE REMOVAL OF ALL CONSTRUCTION DEBRIS AND THE STABILIZATION OF ALL BARE AREAS EXPOSED BY EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES.
  - DIVERSION ALTERNATE #2: A DIVERSION PUMP MAY BE USED AS NECESSARY TO CONVEY STREAM FLOW AROUND THE WORK AREA. THE PUMP INTAKE MUST BE SITUATED IN MANNER THAT PREVENTS INGESTION OF STREAMBED MATERIALS. THE PUMP OUTLET MUST BE DISCHARGED ONTO A STABLE, NON-ERODIBLE MATERIAL SUCH AS RIP RAP DOWNSTREAM OF THE WORK AREA.
  - DIVERSION ALTERNATE #3: TEMPORARY SAND BAGS MAY BE PLACED AS NECESSARY IN THE CHANNEL TO DIVERT THE STREAM FLOW INTO ONE BARREL OF A MULTI-BARREL BOX CULVERT THEREBY ALLOWING WORK TO TAKE PLACE ON ONE SIDE OF THE CHANNEL OR CULVERT. THE FLOW SCENARIO CAN BE REVERSED TO ALLOW WORK ON THE OPPOSITE SIDE AS NECESSARY.
- REGARDLESS OF DIVERSION IMPLEMENTED, ALL WORK MUST CEASE IF THE FLOW DOWNSTREAM OF THE DIVERSION AND WORK AREA: (1) APPEARS VISUALLY DISCOLORED WHEN COMPARED TO THE STREAM FLOW UPSTREAM OF THE WORK AREA, (2) EXHIBITS INCREASED "CLOUDINESS" WHEN COMPARED TO THE STREAM FLOW UPSTREAM OF THE WORK AREA, OR (3) IS GREATER THAN 25 NTU ABOVE THE THAN THE NTU UPSTREAM FLOW OF THE WORK AREA. WORK MAY RECOMMENCE ONLY ONCE THE CAUSE OF THE DISCOLORATION / INCREASED TURBIDITY IS EVALUATED, CORRECTED, AND CONFIRMED AS HAVING LESS THAN A 25 NTU INCREASE OF THE DOWNSTREAM FLOW WHEN COMPARED TO THE UPSTREAM FLOW.
- IF FLOW SEEPAGE CONTINUES FROM THE WORK AREA WHERE A CULVERT IS BEING CONSTRUCTED, A ROCK FILTER DAM SHALL BE PLACED ACROSS THE CHANNEL BELOW THE OUTLET OF THE CULVERT. ACCUMULATED SEDIMENTS SHALL BE REMOVED DAILY AND BEFORE RESTORING NORMAL STREAM FLOW THROUGH THE WORK AREA. POROUS BAGS FILLED WITH 57 STONE MAY BE USED AS AN ALTERNATE TO THE STONE FILTER BERM.
- IF RAIN OR STORM FLOWS ARE EXPECTED ALL CONSTRUCTION IN THE CHANNEL/STREAMBED SHALL BE STOPPED. ALL LOOSE SOILS, MATERIAL AND DEBRIS SHALL BE REMOVED FROM THE CHANNEL AND CULVERT WORK AREA. THE STREAM BANKS SHALL BE TEMPORARILY STABILIZED AS NECESSARY WITH PLASTIC SHEETING, MATS OR SAND BAGS AS NECESSARY.
- DE-WATERING OF THE WORK AREA SHALL BE CONSIDERED DURING THE DIVERSION PLAN PREPARATION AND INCLUDED WHEN ANTICIPATED OR ADDED TO THE PLAN BY AMENDMENT IF CONDITIONS PROVE IT NECESSARY.
- A MECHANICAL PUMP AND SILT FILTER BAG MAY BE USED TO DE-WATER THE WORK AREA. THE PUMP INTAKE MUST BE SITUATED IN MANNER THAT PREVENTS INGESTION OF STREAMBED MATERIALS. THE PUMP MAY DISCHARGE INTO A SEDIMENT BASIN OR INTO A SILT FILTER BAG. IF DISCHARGING INTO A SILT FILTER BAG, THE VOLUME OF THE SILT FILTER BAG SHALL BE COMMENSURATE WITH THE ANTICIPATED PUMPING RATE & VOLUME AND ADHERE TO MANUFACTURER GUIDELINES TO AVOID CONTAINMENT FAILURE. THE SILT FILTER BAG SHOULD BE PLACED ON A BED OF 57 STONE WITH A BERM AND SURROUNDED BY TWO ROWS OF TYPE C SILT FENCE AND ONE RUN OF HAY BALES.
- THE OBSERVATION OF POST BMP DISCHARGES THAT ARE VISIBLY LESS CLEAR THAN THE RECEIVING STATE WATER SHALL REQUIRE THE CONTRACTOR TO REVIEW AND AMEND THEIR PUMPING PLAN AND PERFORM WATER QUALITY SAMPLING OF THEIR PUMPED DISCHARGES.
- IF WATER QUALITY SAMPLING IS NECESSARY, THE CONTRACTOR SHALL ALSO PREPARE AND EXECUTE SAMPLING PLANS PER THE CURRENT GAR100002 NPDES PERMIT UTILIZING A CERTIFIED DESIGN PROFESSIONAL AS DEFINED WITHIN THE SAME PERMIT. NO ADDITIONAL PAYMENT WILL BE MADE FOR WATER QUALITY SAMPLING OF PUMPED DISCHARGES.

#### RIPRAP NOTE:

- GEOTEXTILE SHALL BE USED AS A SEPARATOR BETWEEN THE GRADED STONE, THE SOIL BASE, AND ABUTMENTS.
- GEOTEXTILE SHALL BE SPECIFIED IN ACCORDANCE WITH AASHTO M288-06 SECTION 8, GEOTEXTILE PROPERTY REQUIREMENTS.
- GEOTEXTILE SHALL BE PLACED IMMEDIATELY ADJACENT TO THE SUBGRADE WITHOUT ANY VOIDS.

#### STORMWATER NOTE:

- THE WATER ON THIS SITE DRAINS TO SAMS LAKE. THE REDUCED 100-YR PONDING IS NOT EXPECTED TO RESULT IN ANY DOWNSTREAM IMPACTS.



**Proposed Culvert PROFILE**  
HORZ. SCALE 1"= 20'  
VERT. SCALE 1"= 4'

**POND**  
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Suite 500  
Peachtree Corners  
Georgia 30092  
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FOR/AOR SEAL  
**GEORGIA**  
REGISTERED  
PROFESSIONAL  
ENGINEER  
08/08/2025  
COOLAN OWEN  
GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME

250  
**GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT**  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

**STORM  
PROFILE**

SHEET NUMBER

**CG201**

SHEET 7 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

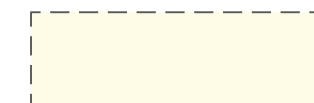
100% SUBMITTAL - ISSUED FOR CONSTRUCTION



## GENERAL SHEET NOTES

1. REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS, AND CIVIL NOTES
2. 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.

## SHEET LEGEND



PARCEL 1  
TEMPORARY EASEMENT

PARCEL 1  
PERMANENT EASEMENT

PARCEL 2  
TEMPORARY EASEMENT

PARCEL 2  
PERMANENT EASEMENT

PARCEL 3  
TEMPORARY EASEMENT



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EOR/AOR SEAL



GSWCC# 95439  
EXP. 9/10/2027

## CLIENT INFORMATION

## FAYETTE COUNTY

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE \_\_\_\_\_

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2021  
PROJECT # 1250216

SHEET TITLE

EASEMENT  
EXHIBIT

SHEET NUMBER

CG301

SHEET 8 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

FILE PATH: X:\FY25\125021\007 CAD-BIM\07 02 CAD\CIVIL\CG101 PLOTTED BY: IRIETA, JUAN DATE: 8/8/25

**EXHIBIT EASEMENT**  
A1 SCALE: 1" = 20'





| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|----------------|-----------|--------------|
| GA.   |                |           |              |

GENERAL NOTES

- 1) SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
- 2) MAINTAIN 3" CLEARANCE ON REINFORCEMENT AT FACE OF CONCRETE CAST AGAINST EARTH. MAINTAIN 2" CLEARANCE ON ALL OTHER REINFORCEMENT.
- 3) CHAMFER ALL EXPOSED EDGES  $\frac{3}{4}$ ".
- 4) CONCRETE APRONS (SEPARATE STANDARD SHEETS) ARE REQUIRED AT ALL OUTLETS. THE ENGINEER MAY ALLOW AN EXCEPTION FOR BED ROCK CONDITIONS. TOEWALLS UNDER PARAPETS MAY BE MODIFIED AT OUTLETS AS SHOWN ON STANDARDS FOR CONCRETE APRONS.
- 5) PARAPETS AT INLETS SHALL BE CONSTRUCTED WITH A 4"/45° BEVEL.
- 6) CULVERT TO HAVE MINIMUM OF 1'-0" BELOW BOTTOM OF BASE OR CONCRETE PAVEMENT.

DESIGN DATA

SPECIFICATIONS - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014  
LOADING - HL-93

| WINGWALLS, TOEWALLS AND PARAPETS |                          |                             |             |                             |          |         |                          |                             |         |                             |          |         |                          |                             |           |         |        |                             |        |                 |
|----------------------------------|--------------------------|-----------------------------|-------------|-----------------------------|----------|---------|--------------------------|-----------------------------|---------|-----------------------------|----------|---------|--------------------------|-----------------------------|-----------|---------|--------|-----------------------------|--------|-----------------|
| CLEAR<br>HEIGHT                  | N BARS AT 1'-0" C. TO C. |                             |             |                             |          |         | P BARS AT 1'-0" C. TO C. |                             |         |                             |          |         | R BARS AT 1'-0" C. TO C. |                             |           |         | M BARS |                             |        | CLEAR<br>HEIGHT |
|                                  | SIZE                     | NO.<br>(CONSTANT<br>LENGTH) | *<br>LENGTH | NO.<br>(VARIABLE<br>LENGTH) | LENGTH * |         | SIZE                     | NO.<br>(CONSTANT<br>LENGTH) | LENGTH  | NO.<br>(VARIABLE<br>LENGTH) | LENGTH   |         | SIZE                     | NO.<br>(VARIABLE<br>LENGTH) | LENGTH ** |         | SIZE   | NO.<br>(CONSTANT<br>LENGTH) | LENGTH |                 |
|                                  |                          |                             |             |                             | SHORTEST | LONGEST |                          |                             |         |                             | SHORTEST | LONGEST |                          |                             | SHORTEST  | LONGEST |        |                             |        |                 |
|                                  |                          |                             |             |                             |          |         |                          |                             |         |                             |          |         |                          |                             |           |         |        |                             |        |                 |
| 2'                               | #4                       | 4                           | 5'-4"       | 12                          | 4'-4"    | 5'-2"   | #4                       | 20                          | 3'-5"   | 4                           | 1'-2"    | 1'-2"   | #6                       | 32                          | 3'-6"     | 3'-6"   | #6     | 14                          | X+2"   | 2'              |
| 3'                               | #4                       | 4                           | 6'-7"       | 24                          | 4'-4"    | 6'-5"   | #4                       | 20                          | 6'-4"   | 8                           | 1'-9"    | 4'-2"   | #6                       | 56                          | 3'-6"     | 3'-6"   | #6     | 14                          | X+2"   | 3'              |
| 4'                               | #5                       | 4                           | 8'-2"       | 40                          | 4'-5"    | 8'-2"   | #4                       | 20                          | 9'-10"  | 12                          | 2'-11"   | 7'-9"   | #6                       | 88                          | 3'-6"     | 3'-6"   | #6     | 14                          | X+2"   | 4'              |
| 5'                               | #5                       | 4                           | 9'-1"       | 44                          | 4'-11"   | 9'-0"   | #4                       | 20                          | 11'-3"  | 16                          | 2'-11"   | 10'-4"  | #6                       | 96                          | 3'-6"     | 3'-6"   | #6     | 14                          | X+2"   | 5'              |
| 6'                               | #5                       | 4                           | 10'-2"      | 48                          | 5'-5"    | 9'-11"  | #4                       | 24                          | 12'-7"  | 16                          | 2'-11"   | 10'-5"  | #6                       | 104                         | 3'-6"     | 3'-6"   | #6     | 14                          | X+2"   | 6'              |
| 7'                               | #5                       | 4                           | 11'-2"      | 56                          | 5'-11"   | 11'-2"  | #4                       | 24                          | 13'-11" | 20                          | 3'-0"    | 13'-0"  | #6                       | 120                         | 3'-6"     | 3'-6"   | #6     | 14                          | X+2"   | 7'              |
| 8'                               | #6                       | 4                           | 12'-4"      | 60                          | 6'-6"    | 12'-3"  | #4                       | 28                          | 15'-2"  | 24                          | 3'-2"    | 13'-0"  | #6                       | 128                         | 3'-8"     | 4'-0"   | #6     | 14                          | X+2"   | 8'              |
| 9'                               | #6                       | 4                           | 13'-5"      | 64                          | 7'-0"    | 13'-2"  | #4                       | 28                          | 16'-6"  | 24                          | 3'-4"    | 15'-7"  | #6                       | 136                         | 3'-8"     | 4'-6"   | #6     | 14                          | X+2"   | 9'              |
| 10'                              | #7                       | 4                           | 14'-7"      | 72                          | 7'-8"    | 14'-7"  | #4                       | 32                          | 17'-9"  | 24                          | 3'-4"    | 15'-7"  | #6                       | 152                         | 3'-8"     | 5'-0"   | #6     | 14                          | X+2"   | 10'             |
| 11'                              | #7                       | 4                           | 15'-7"      | 76                          | 8'-2"    | 15'-6"  | #4                       | 32                          | 19'-1"  | 28                          | 3'-4"    | 18'-2"  | #6                       | 160                         | 3'-8"     | 5'-6"   | #6     | 14                          | X+2"   | 11'             |
| 12'                              | #8                       | 4                           | 16'-8"      | 80                          | 8'-9"    | 16'-6"  | #4                       | 36                          | 20'-5"  | 28                          | 3'-5"    | 18'-3"  | #6                       | 168                         | 3'-8"     | 6'-0"   | #6     | 14                          | X+2"   | 12'             |

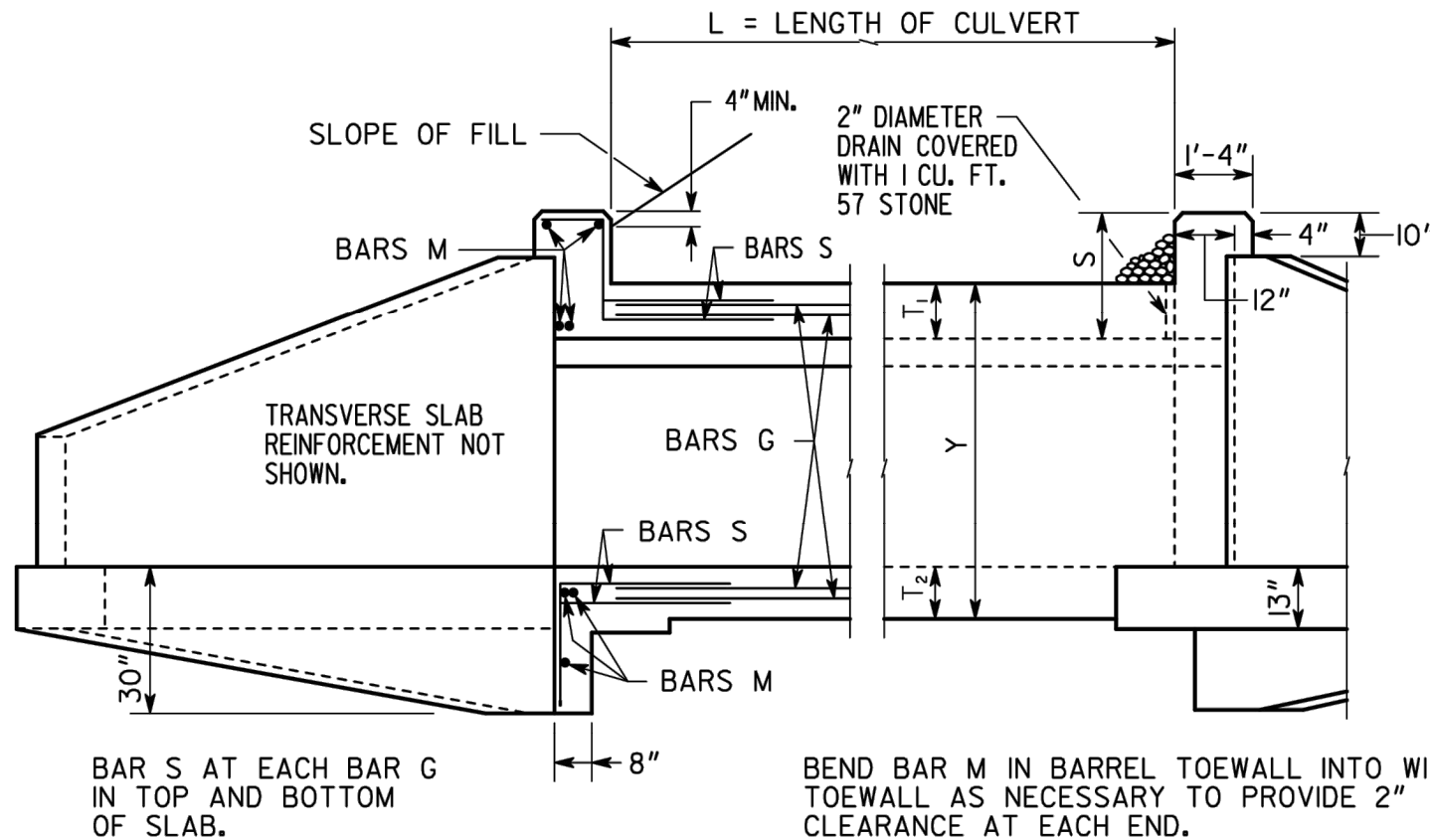
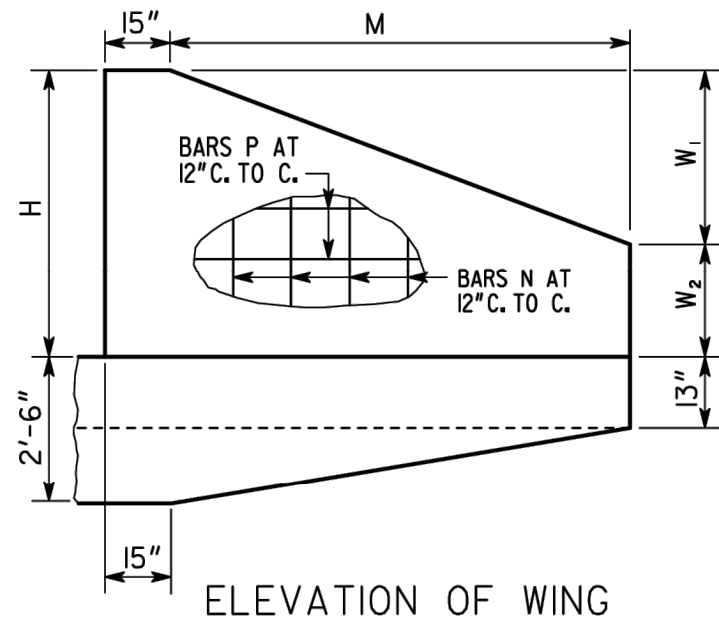
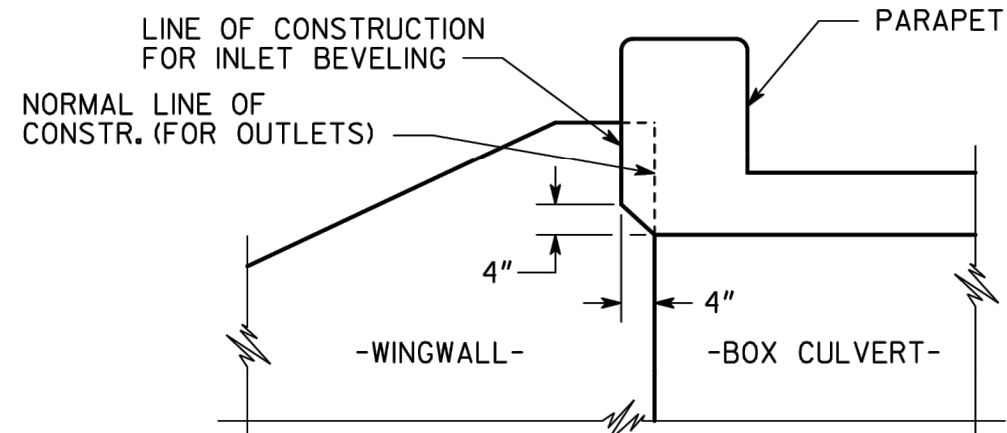
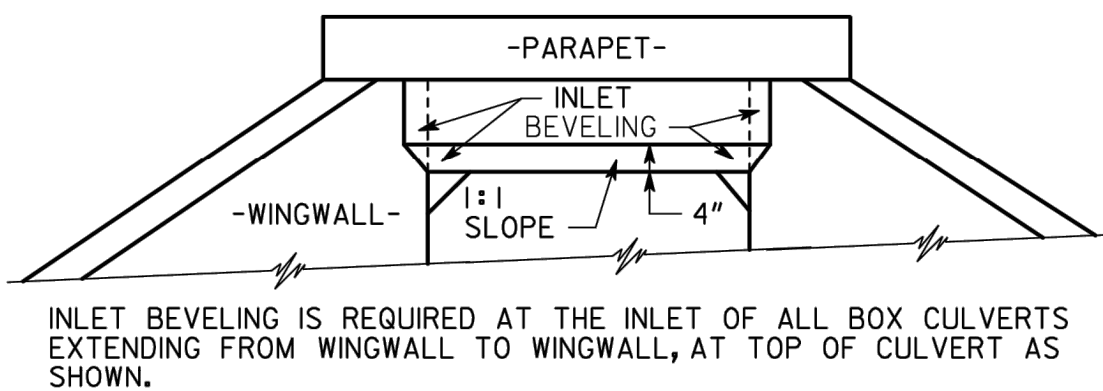
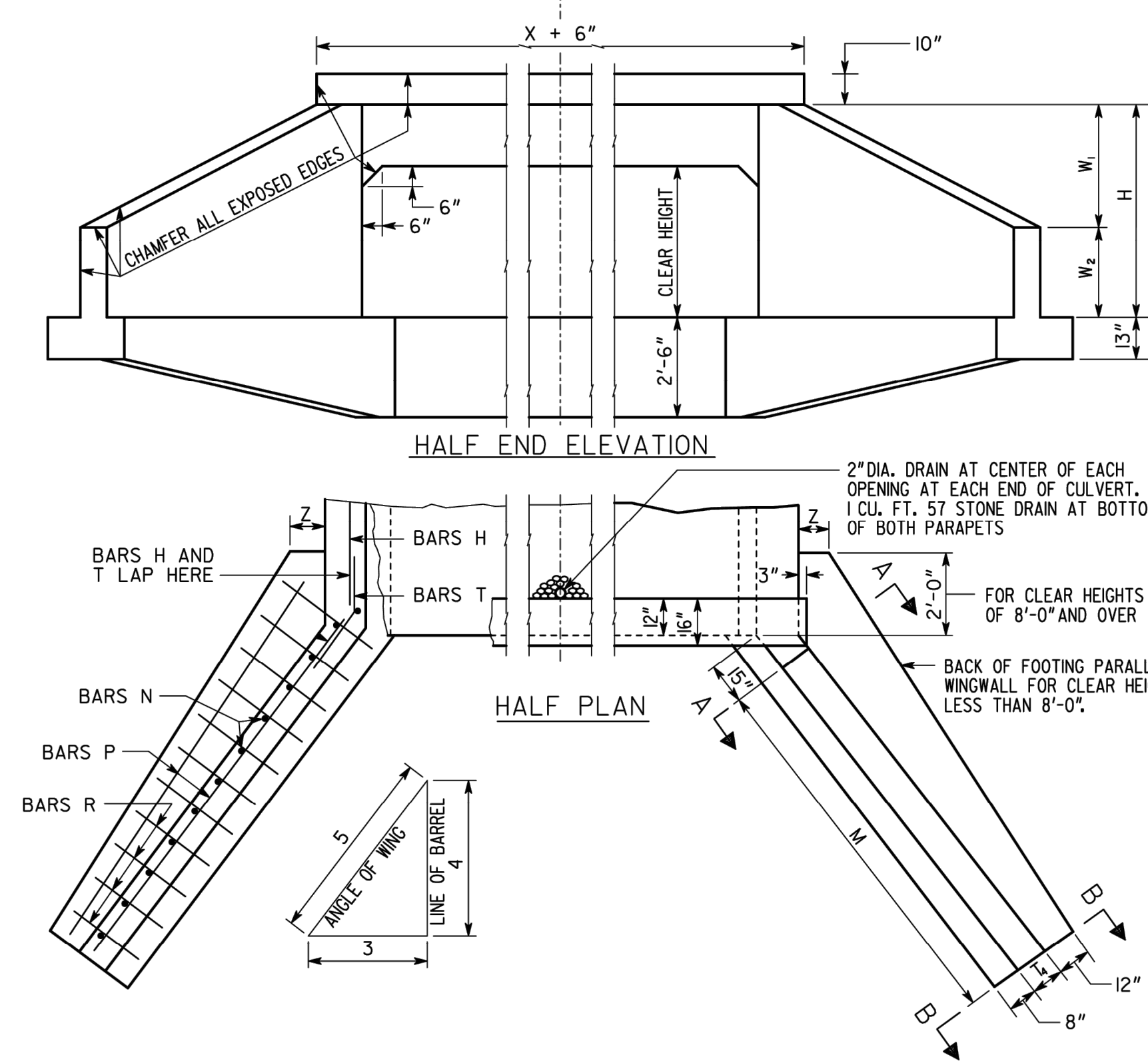
\* LENGTH INCLUDES VERTICAL LEG, HORIZONTAL LEG AND 180° STANDARD HOOK.  
\*\* LENGTH INCLUDES 2 STANDARD 180° HOOKS.

X = TOTAL BARREL WIDTH OUT TO OUT (DIMENSION "X" FROM CULVERT SHEET)  
Y = TOTAL BARREL HEIGHT OUT TO OUT (DIMENSION "Y" FROM CULVERT SHEET)

| DIMENSIONS AND QUANTITIES |                       |                       |                |                      |         |                |       |                      |                      |              |
|---------------------------|-----------------------|-----------------------|----------------|----------------------|---------|----------------|-------|----------------------|----------------------|--------------|
| CLEAR HEIGHT              | H                     | W <sub>1</sub>        | W <sub>2</sub> | S                    | M       | T <sub>4</sub> | Z     | CY CLASS AA CONCRETE | LBS. BAR REINF STEEL | CLEAR HEIGHT |
| 2'                        | 3'-1"                 | 1'-1"                 | 2'-0"          | 1'-1"                | 2'-8"   | 10"            | -     | 3.3                  | 270                  | 2'           |
| 3'                        | 4'-3 $\frac{1}{2}$ "  | 2'-3 $\frac{1}{2}$ "  | 2'-0"          | 2'-1 $\frac{1}{2}$ " | 5'-7"   | 10"            | -     | 6.0                  | 499                  | 3'           |
| 4'                        | 5'-9"                 | 3'-9"                 | 2'-0"          | 2'-7"                | 9'-2"   | 10"            | -     | 9.2                  | 795                  | 4'           |
| 5'                        | 6'-9"                 | 4'-3"                 | 2'-6"          | 2'-7"                | 10'-6"  | 10"            | -     | 12.4                 | 1083                 | 5'           |
| 6'                        | 7'-9"                 | 4'-9"                 | 3'-0"          | 2'-7"                | 11'-10" | 10"            | -     | 15.0                 | 1246                 | 6'           |
| 7'                        | 8'-9 $\frac{1}{2}$ "  | 5'-3 $\frac{1}{2}$ "  | 3'-6"          | 2'-7 $\frac{1}{2}$ " | 13'-2"  | 10"            | -     | 17.9                 | 1507                 | 7'           |
| 8'                        | 9'-10 $\frac{1}{2}$ " | 5'-10 $\frac{1}{2}$ " | 4'-0"          | 2'-8 $\frac{1}{2}$ " | 14'-5"  | 12"            | 1'-0" | 25.3                 | 2070                 | 8'           |
| 9'                        | 10'-11"               | 6'-5"                 | 4'-6"          | 2'-9"                | 15'-9"  | 12"            | 1'-6" | 29.9                 | 2345                 | 9'           |
| 10'                       | 11'-11"               | 6'-11"                | 5'-0"          | 2'-9"                | 17'-0"  | 12"            | 2'-0" | 34.7                 | 3277                 | 10'          |
| 11'                       | 12'-11"               | 7'-5"                 | 5'-6"          | 2'-9"                | 18'-4"  | 12"            | 2'-6" | 40.0                 | 3676                 | 11'          |
| 12'                       | 13'-1 $\frac{1}{2}$ " | 7'-11 $\frac{1}{2}$ " | 6'-0"          | 2'-9 $\frac{1}{2}$ " | 19'-8"  | 12"            | 3'-0" | 45.8                 | 4788                 | 12'          |

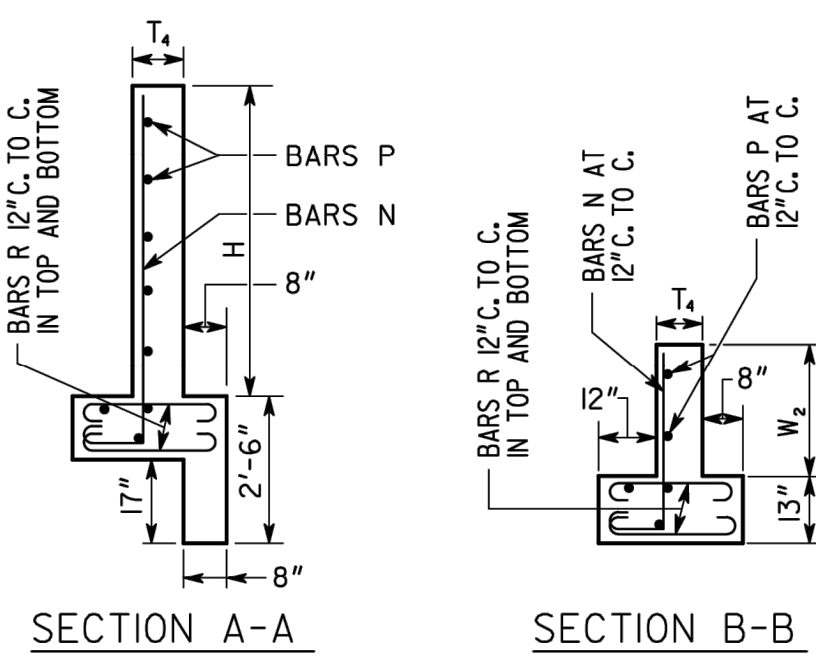
QUANTITIES GIVEN INCLUDE WINGWALL, WINGWALL FOOTING, AND WINGWALL TOEWALL FOR BOTH ENDS.

SYMMETRICAL ABOUT C CULVERT



PART SECTION

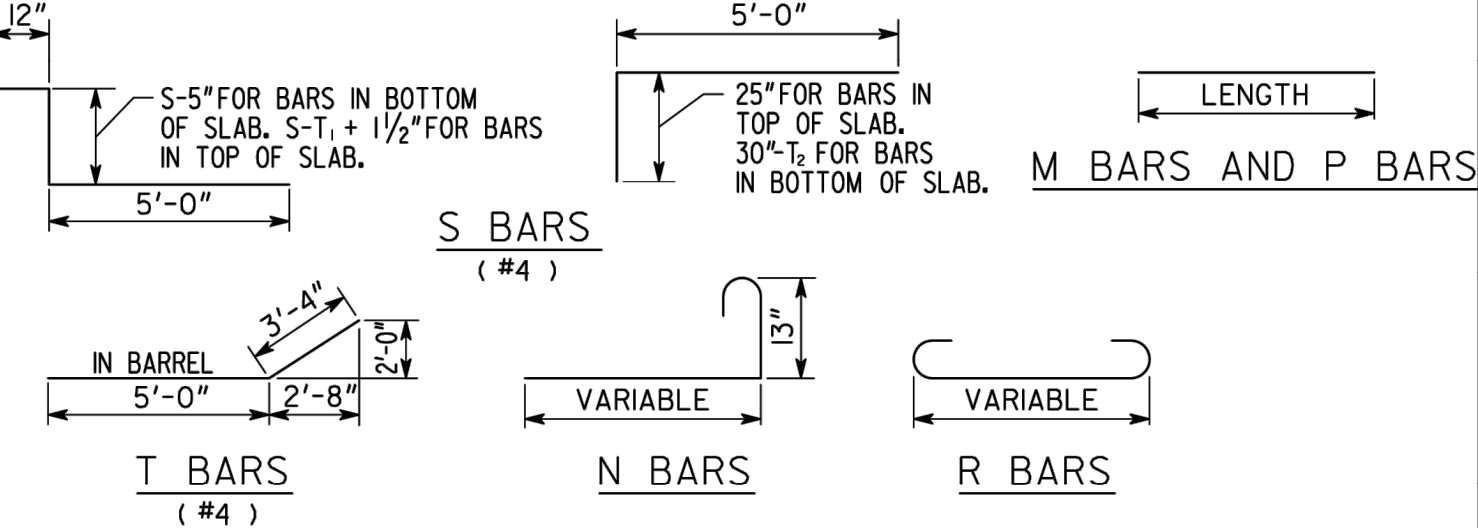
PART ELEVATION



SECTION A-A

SECTION B-B

T<sub>1</sub> = TOP SLAB THICKNESS  
T<sub>2</sub> = BOTTOM SLAB THICKNESS  
NOTE: SEE BOX CULVERT STANDARDS FOR DIMENSIONS.



| DATE                                                                                 |                                               | REVISION                                                                                          |                                |
|--------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------|
| DEPARTMENT OF TRANSPORTATION<br>STATE OF GEORGIA                                     |                                               |                                                                                                   |                                |
| STANDARD                                                                             |                                               |                                                                                                   |                                |
| REINFORCED CONCRETE WINGWALLS,<br>TOEWALLS AND PARAPETS<br>FOR CONCRETE BOX CULVERTS |                                               |                                                                                                   |                                |
| NO SCALE                                                                             |                                               | SEPTEMBER 2017                                                                                    |                                |
| BY                                                                                   | DES. WEL<br>DRW. WEL<br>TRAL. YSK<br>CHK. YSK | (SUBMITTED)<br>STATE DESIGN POLICY ENGINEER<br>(APPROVED)<br>Margaret B. Pirelo<br>CHIEF ENGINEER | NUMBER<br>2404<br>SHEET 1 OF 1 |







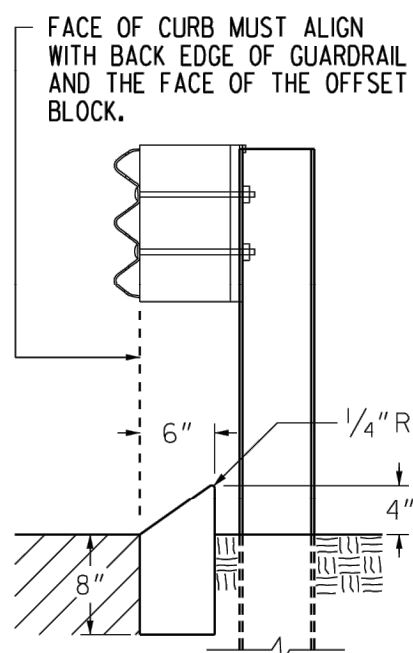
FILE PATH: X:\F\25\25021007 CAD-BIM\07.02 CAD\CIVIL\G-500 PLOTTED BY: URUETA, JUAN DATE: 8/8/25

D

C

B

A

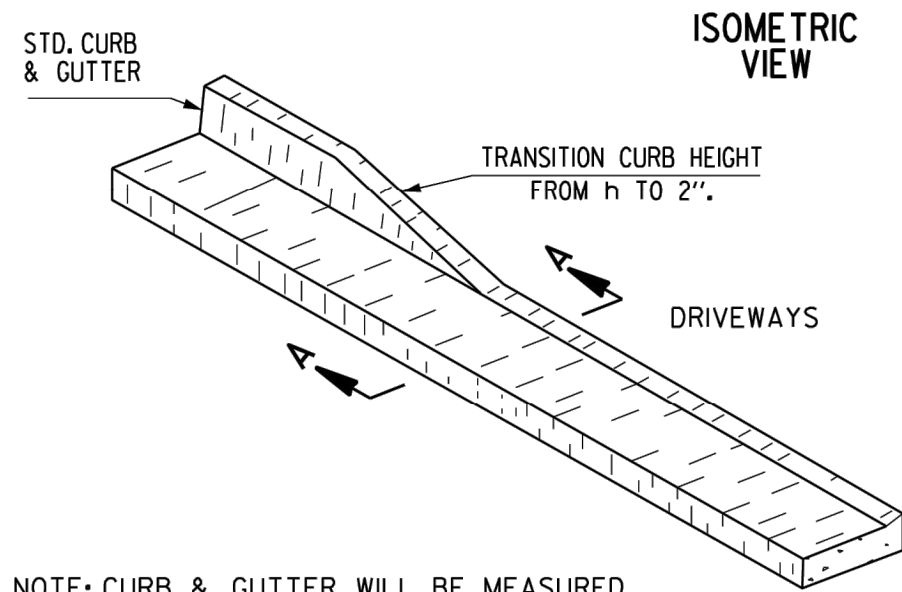


TYPE 8

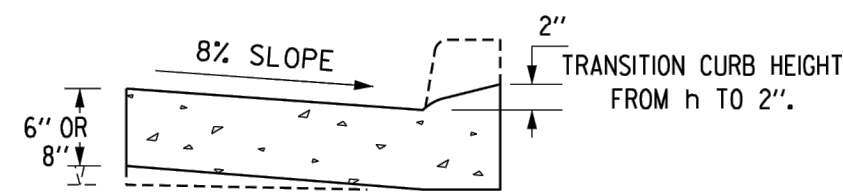
TYPE 8 HEADER CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4382.

| CURB TYPE | h        | d        |
|-----------|----------|----------|
| 1         | 3" OR 4" | 6" min.  |
| 2         | 6"       | 8" min.  |
| 3         | 8"       | 10" min. |
| 4         | 10"      | 12" min. |
| 6         | 6"       | 7" min.  |
| 7         | 6"       | 8" min.  |
| 9         | 3" OR 4" | 8" min.  |

DETAILS OF RECESSED CURB FOR DRIVEWAYS



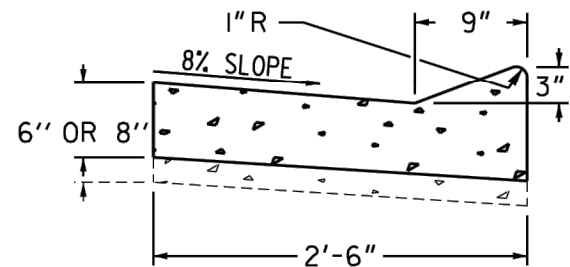
NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE



SECTIONAL VIEW  
SECTION A-A

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

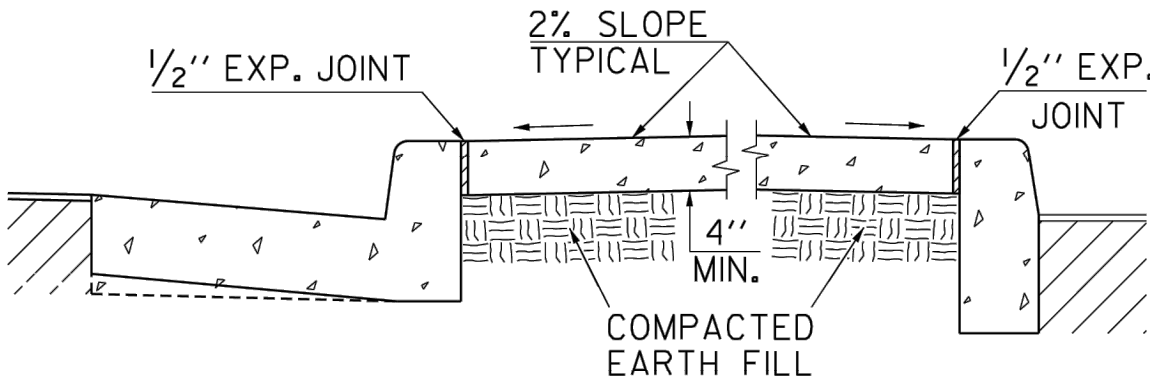
RAISED EDGE WITH CONCRETE GUTTER



RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

CONCRETE MEDIAN (Between Curbs)

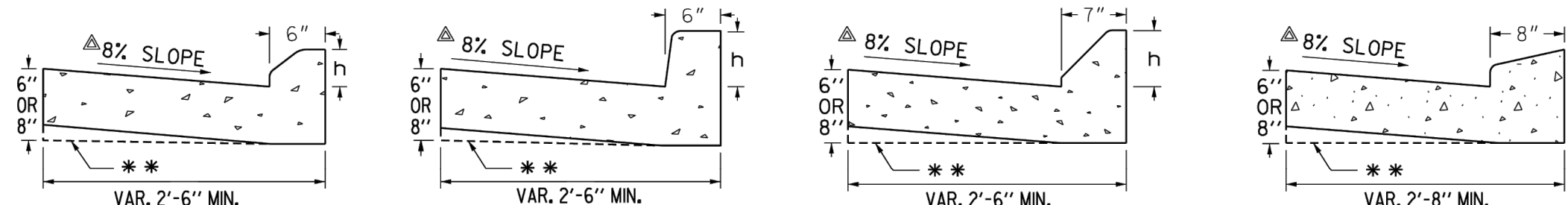
NOTE: CURB TYPES SHOWN ARE TYPICAL. OTHER TYPES MAY BE SPECIFIED.



NOTE: WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

NOTE: IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (CONSTRUCTION DETAIL A-3 AND A-4) WILL BE REQUIRED.

CONCRETE CURB & GUTTER



TYPE 1

TYPE 2, 3 OR 4

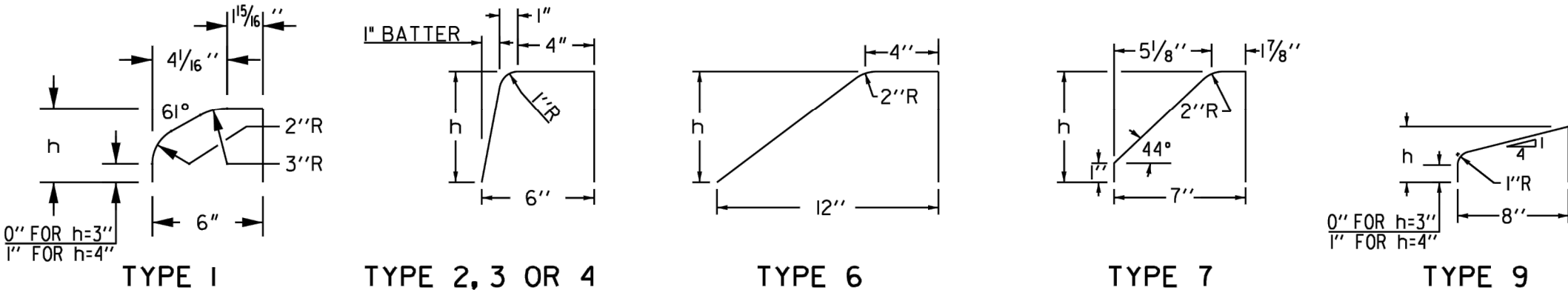
TYPE 7

TYPE 9

\*\* AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

▲ WHEN POSITIVE SUPERELEVATION IS REQUIRED, THE SLOPE OF THE GUTTER ON THE HIGH SIDE SHALL BE A CONTINUATION OF THE SLOPE OF THE SUPERELEVATED PAVEMENT.

CURB FACE DESIGN



TYPE 1

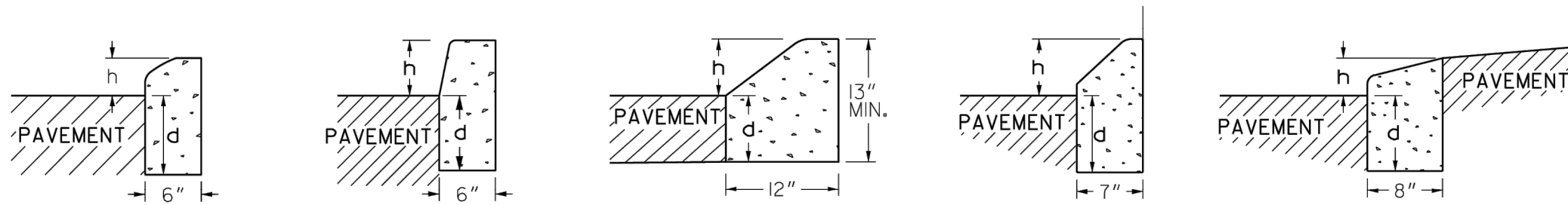
TYPE 2, 3 OR 4

TYPE 6

TYPE 7

TYPE 9

CONCRETE HEADER CURBS



TYPE 1

TYPE 2, 3 OR 4

TYPE 6

TYPE 7

TYPE 9  
TRUCK APRON  
IN ROUNDABOUTS

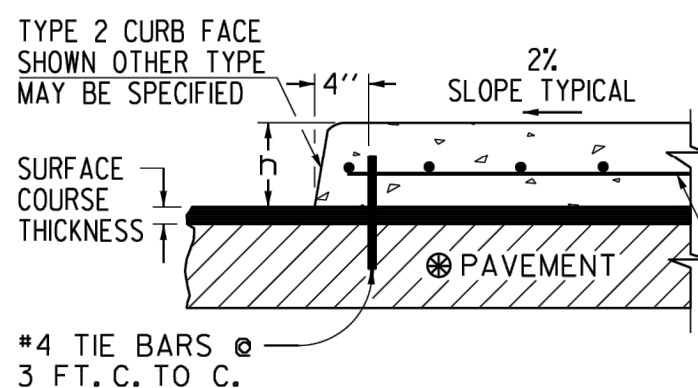
THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.



P. I. Number

CONCRETE MEDIANS (Integral)

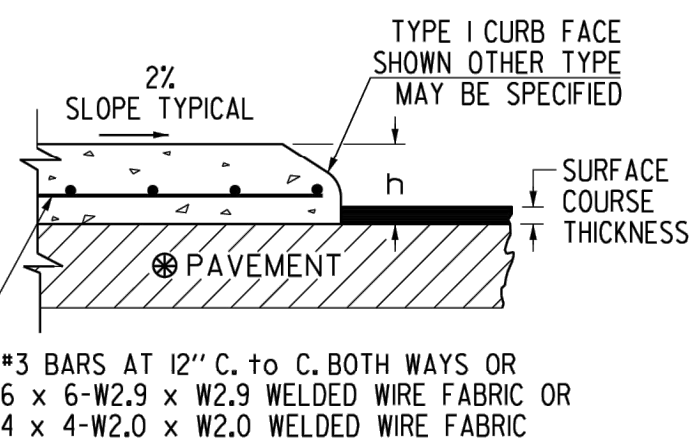
-WITH TIE BARS-



TYPE 2 CURB FACE SHOWN. OTHER TYPE MAY BE SPECIFIED

#4 TIE BARS @ 3' C. TO C.

-WITHOUT TIE BARS-

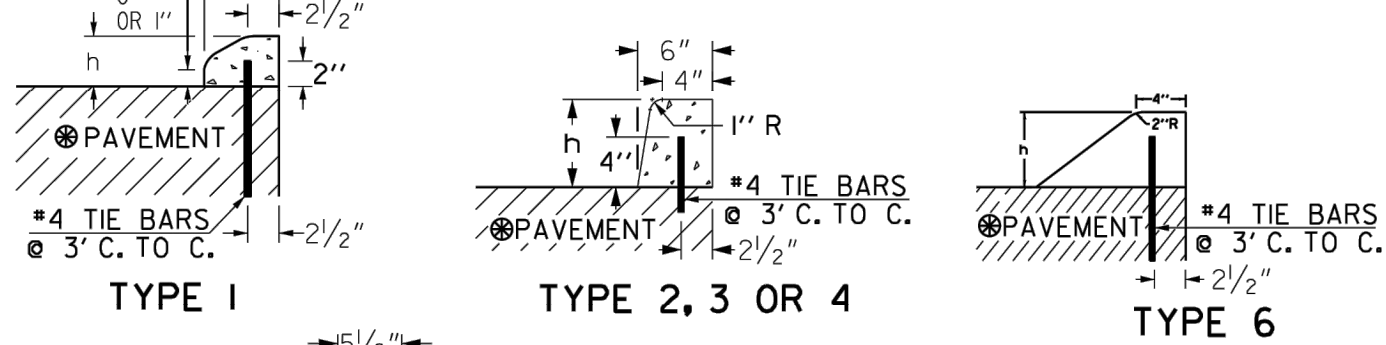


TYPE 1 CURB FACE SHOWN. OTHER TYPE MAY BE SPECIFIED

#3 BARS AT 12" C. TO C. BOTH WAYS OR 6 x 6-W2.9 x W2.9 WELDED WIRE FABRIC OR 4 x 4-W2.0 x W2.0 WELDED WIRE FABRIC

NOTE: IF FINAL SURFACE COURSE IS PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

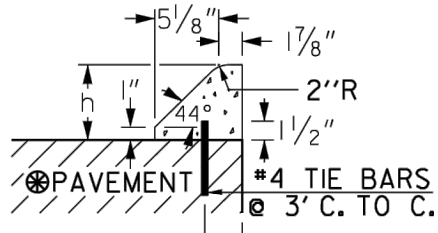
CONCRETE DOWELED INTEGRAL CURBS



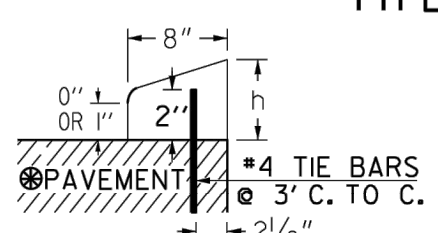
TYPE 1

TYPE 2, 3 OR 4

TYPE 6



TYPE 7

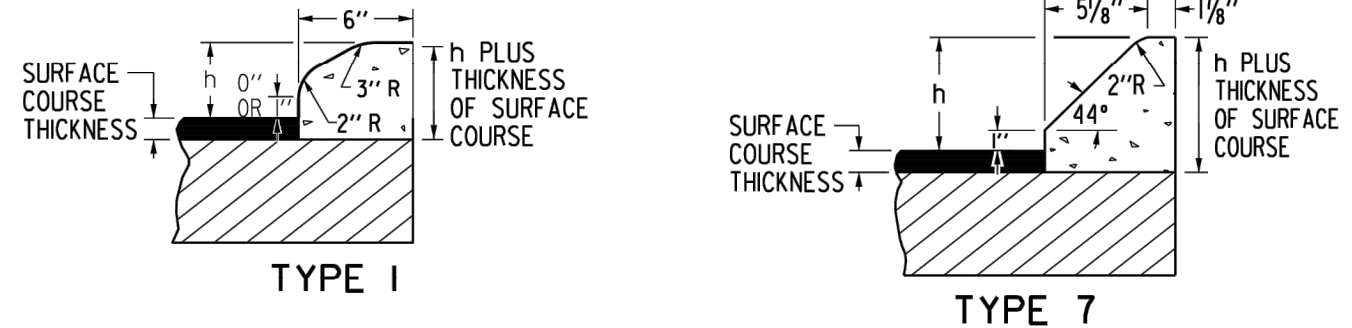


TYPE 9

- NOTES:
1. CONCRETE CURB CAN BE INSTALLED AFTER INITIAL SET AS LONG AS TIE BARS ARE DRILLED INTO UNDERLYING CONCRETE PAVEMENT.
  2. CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVEMENT. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
  3. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
  4. ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENTS WHERE TIE BARS MAY BE EITHER DRIVEN OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDIAN AT 20 FT. SPACING.
  5. TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAIN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT, (AASHTO M-30)

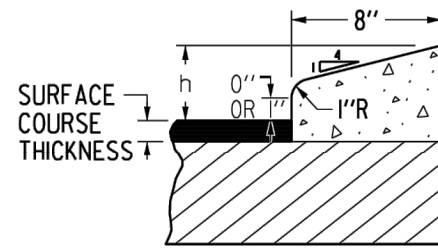
| MINIMUM TIE BAR LENGTHS<br>(FOR CONC. DOWELED CURBS<br>OR CONC. MEDIAN) |                    |                 |
|-------------------------------------------------------------------------|--------------------|-----------------|
| CURB TYPE                                                               | P.C. CONC.<br>PAV. | ASPHALT<br>PAV. |
| 1                                                                       | 6"                 | 8"              |
| 2, 3 OR 4                                                               | 8"                 | 12"             |
| 6                                                                       | 6"                 | 8"              |
| 7                                                                       | 6"                 | 8"              |
| 9                                                                       | 6"                 | 8"              |

CONCRETE INTEGRAL CURB



TYPE 1

TYPE 7



TYPE 9

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

STANDARD  
CONCRETE CURB & GUTTER  
CONCRETE CURBS, CONCRETE MEDIANS

NOT TO SCALE

MAR. 2003

DES. \_\_\_\_\_  
TRA. \_\_\_\_\_  
CHK. \_\_\_\_\_

(SUBMITTED) \_\_\_\_\_  
STATE DESIGN POLICY ENGINEER

(APPROVED) \_\_\_\_\_  
CHIEF ENGINEER

NUMBER  
9032B



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

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FOR/AOR SEAL



GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

CONSTRUCTION  
DETAILS

SHEET NUMBER

C-503

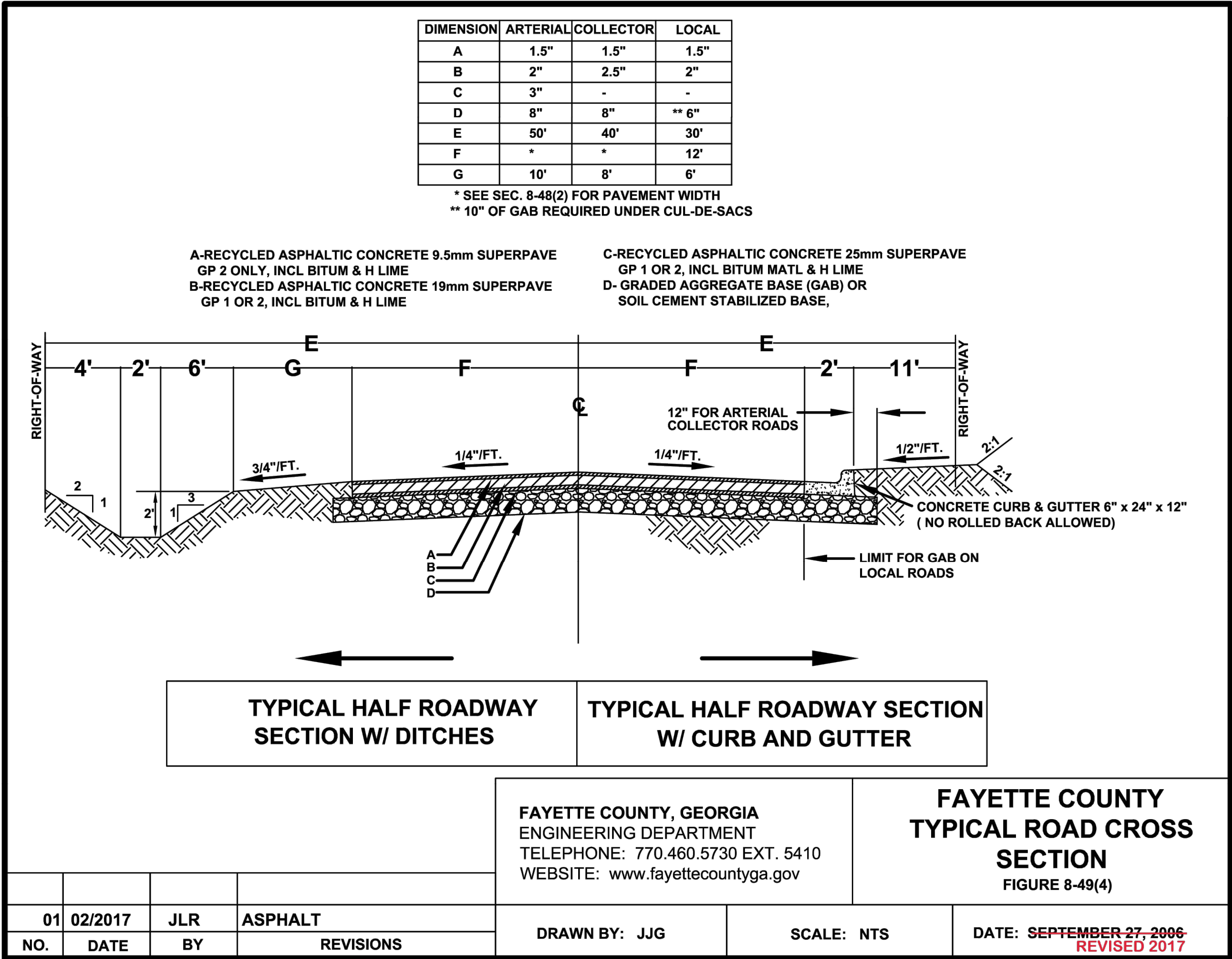
SHEET 11 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

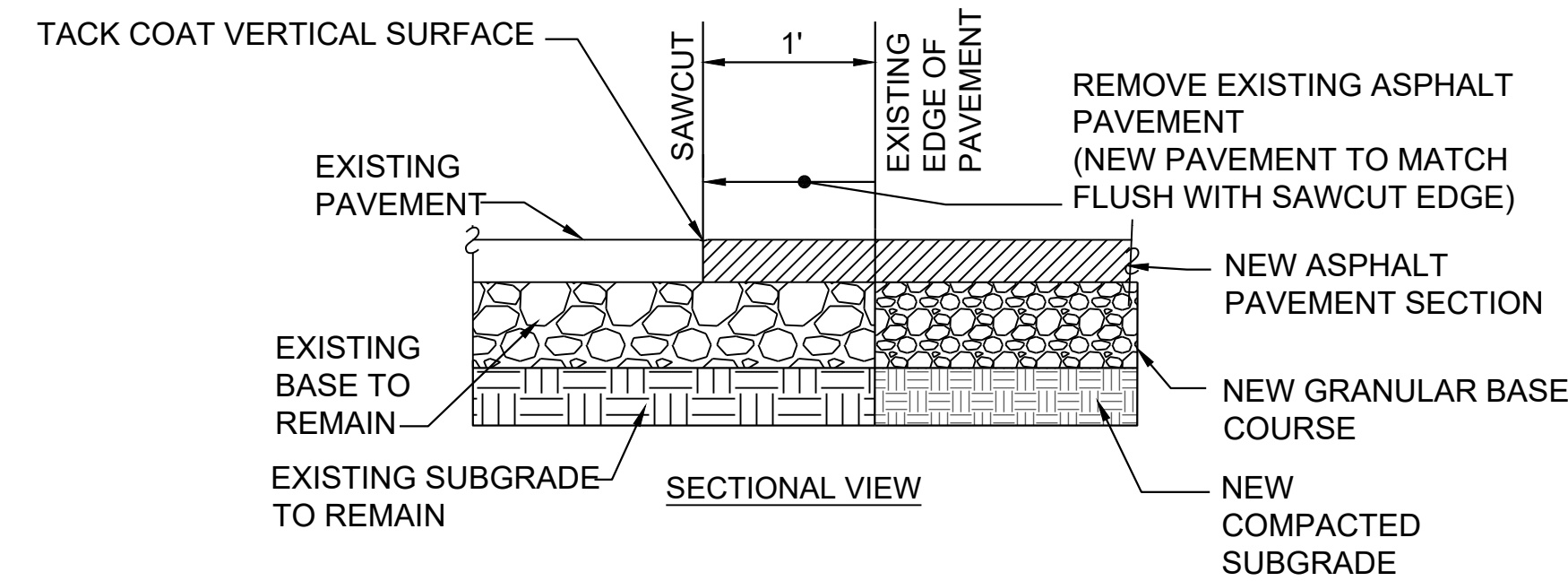
100% SUBMITTAL - ISSUED FOR CONSTRUCTION



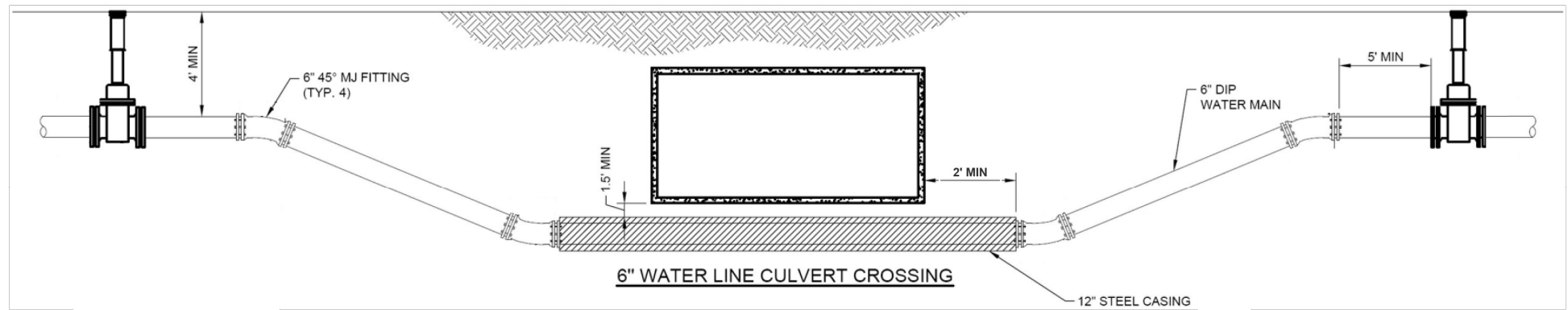
FILE PATH: X:\F\25\250210\07 CAD-BIM\07 02 CAD\CIVIL\C-500 PLOTTED BY: URUETA, JUAN DATE: 8/8/25



B1 FAYETTE COUNTY TYPICAL ROAD CROSS SECTION  
SCALE: N.T.S.



A1 TIE TO EXISTING ASPHALT PAVEMENT  
SCALE: N.T.S.

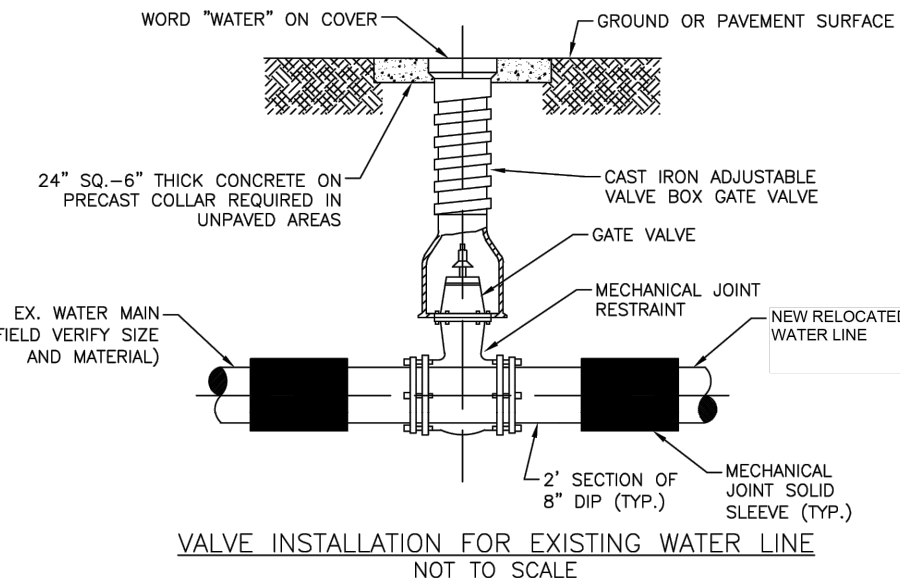


Fayette County Water System Culvert Crossing Notes

1. Field-verify water line size and material type. All replacement pipe shall be ductile iron and match existing diameter.
2. All replacement water line shall be installed with Field Lok gaskets or approved equal.
3. All fittings shall be restrained with EBAA MEGALUG mechanical joint restraints or approved equal.
4. Install threaded rods as directed by FCWS. Threaded rods shall be 304 stainless steel with a minimum yield strength of 50,000 psi.
5. Threaded rods shall be fastened with high strength, low alloy steel eye bolts, nuts and washers.
6. Utilize mechanical joint ductile iron solid sleeves to connect to existing water line as needed.
7. The minimum distance between fittings, valves, tees, sleeves, etc. is 24".
8. Steel casing shall extend a minimum of 24' beyond the width of culvert on each side. Seal both ends of casing.
9. Carrier pipe shall be a single section of pipe inside casing and shall extend a minimum of 24' beyond casing before any fittings are installed.
10. Install a minimum three stainless steel casing spacers per full section of carrier pipe or as directed by FCWS.
11. Fittings closest to the steel casing shall be restrained by threaded rods attached to eye bolts that have been welded to the casing.

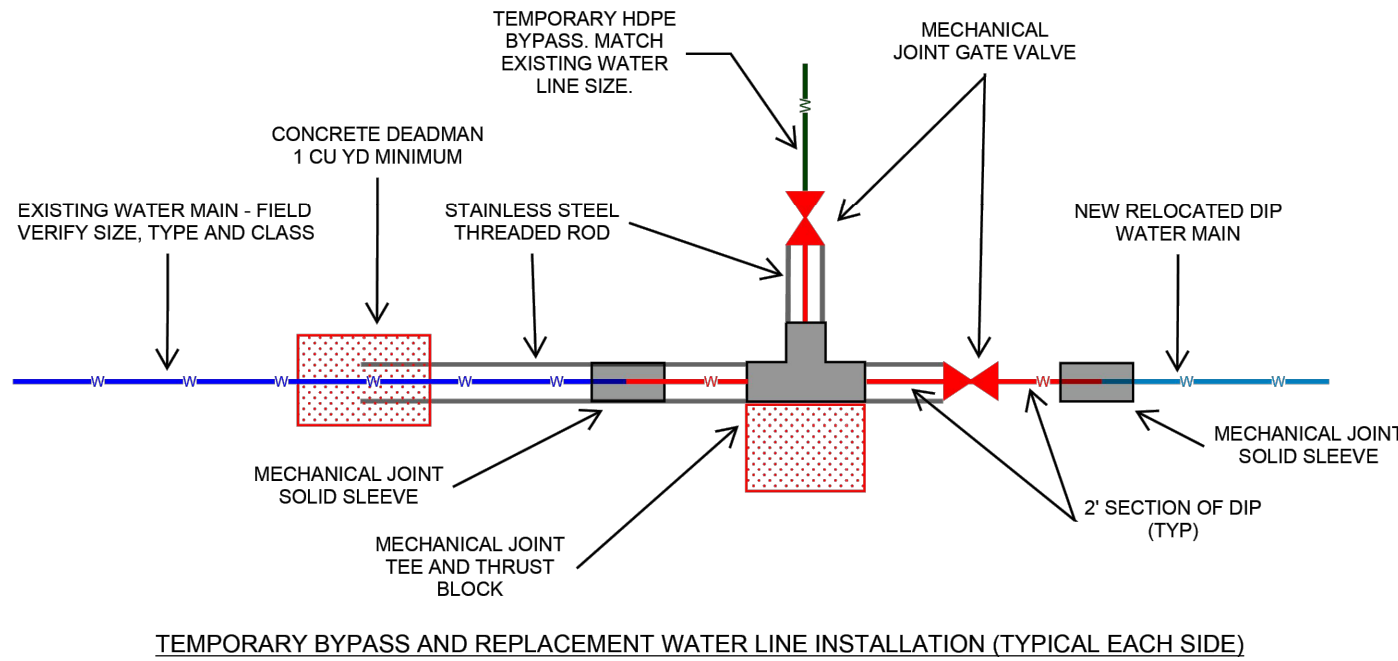


B3 WATERLINE CROSSING DETAIL  
SCALE: N.T.S.



Fayette County Water System Temporary Water Line Bypass Notes

1. Field-verify water line size and material type. All replacement pipe shall be ductile iron and match existing diameter.
2. All replacement water line shall be installed with Field Lok gaskets or approved equal.
3. All fittings shall be restrained with EBAA MEGALUG mechanical joint restraints or approved equal.
4. Install threaded rods as directed by FCWS. Threaded rods shall be 304 stainless steel with a minimum yield strength of 50,000 psi.
5. Threaded rods shall be fastened with high strength, low alloy steel eye bolts, nuts and washers.
6. Utilize mechanical joint ductile iron solid sleeves to connect to existing water line as needed.
7. The minimum distance between fittings, valves, tees, sleeves, etc. is 24".
8. Secure temporary bypass water line as directed by FCWS.
9. After installation of replacement water line is complete, remove temporary bypass line and install cap into valve.



A3 FAYETTE COUNTY WATER BYPASS DETAILS  
SCALE: N.T.S.

**POND**

3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

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FOR/AOR SEAL

GEORGIA  
REGISTERED  
PROFESSIONAL  
ENGINEER  
08/08/2025  
CODY ALAN OWEN  
GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
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DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

**CONSTRUCTION  
DETAILS**

SHEET NUMBER

**C-504**

SHEET 12 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"



FILE PATH: X:\F\25\1250210\07 CAD-BIM\07 02 CAD\CIVIL\G-500 PLOTTED BY: URUETA, JUAN DATE: 08/25

| DESIGN              | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| MAXIMUM FILL HEIGHT | 10' | 20' | 30' | 40' | 50' | 60' | 70' | 80' |

- 1) MINIMUM HEIGHT FROM TOP OF CULVERT TO BOTTOM OF BASE WITHIN TRAVELWAY SHALL BE 1'-0".
- 2) DESIGN OF THE CULVERT SHALL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL WITH ONLY A SINGLE DESIGN BEING USED FOR THE ENTIRE INSTALLATION.
- 3) TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED NORMAL TO THE CENTERLINE OF THE CULVERT AT THE OUTSIDE SHOULDER BREAK POINTS. THE MAXIMUM POUR LENGTH ALONG THE LENGTH OF THE CULVERT SHALL NOT EXCEED 40'-0" FOR DESIGNS 1 TO 3 AND 30'-0" FOR DESIGNS 4 AND ABOVE.
- 4) LONGITUDINAL BARREL REINFORCEMENT STEEL IN THE TRANSVERSE CONSTRUCTION JOINTS SHALL EXTEND THROUGH JOINTS.
- 5) CONSTRUCTION JOINTS SHALL BE WATERPROOFED ON THE EXTERIOR TOP AND SIDES OF BARREL IN ACCORDANCE WITH SECTION 530 OF GEORGIA STANDARD SPECIFICATIONS. WATERPROOFING SHALL BE APPLIED WHEN CONCRETE IS AT LEAST 7 DAYS OLD. ALL COSTS ASSOCIATED WITH WATERPROOFING SHALL BE INCLUDED IN OTHER ITEMS AND WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

- GENERAL NOTES
- 1) SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
  - 2) ALL CONCRETE SHALL BE CLASS "AA".
  - 3) CHAMFER ALL EXPOSED EDGES  $\frac{3}{4}$ ".
  - 4) COST OF DRAIN PIPES, WEEP HOLES, COARSE AGGREGATE, AND ANY OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.
  - 5) CONSTRUCTION JOINTS IN BARREL WALLS ARE REQUIRED.
  - 6) FOR DETAILS OF WINGWALLS AND PARAPETS SEE "REINFORCED CONCRETE WINGWALLS, TOEWALLS AND PARAPETS FOR CONCRETE BOX CULVERTS" SHEETS.

DESIGN DATA

SPECIFICATIONS - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014.  
TYPICAL HL-93 LOADING.

|  |  |          |  |                                                                                                                   |  |
|--|--|----------|--|-------------------------------------------------------------------------------------------------------------------|--|
|  |  | DATE     |  | DEPARTMENT OF TRANSPORTATION<br>STATE OF GEORGIA                                                                  |  |
|  |  | REVISION |  | STANDARD<br>REINFORCED CONCRETE<br>SINGLE BOX CULVERT                                                             |  |
|  |  |          |  | NO SCALE SEPTEMBER 2017                                                                                           |  |
|  |  | BY       |  | DES. YSK<br>DRW. FGS<br>TRA. JWB<br>CHK. JWB                                                                      |  |
|  |  |          |  | (SUBMITTED) <i>[Signature]</i><br>STATE DESIGN POLICY ENGINEER<br>(APPROVED) <i>[Signature]</i><br>CHIEF ENGINEER |  |
|  |  |          |  | NUMBER<br>2401<br>SHEET 1 OF 3                                                                                    |  |

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

**POND**

3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

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FOR/AOR SEAL

*[Signature]*  
GEORGIA  
REGISTERED  
PROFESSIONAL  
ENGINEER  
08/08/2025  
ALAN OWEN

GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

**FAYETTE COUNTY**

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

PROJECT NAME

**250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT**  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

**CONSTRUCTION  
DETAILS**

SHEET NUMBER

**C-505**

SHEET 13 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"



FILE PATH: X:\FY25\125021007 CAD-BIM\07.02 CAD\CIVIL\C-500 PLOTTED BY: URUETA, JUAN DATE: 8/8/25

D

C

B

A

| SINGLE 7'-0" X 5'-0" BOX CULVERT                               |             |           |              |              |              |   |   |   |
|----------------------------------------------------------------|-------------|-----------|--------------|--------------|--------------|---|---|---|
| BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS                 |             |           |              |              |              |   |   |   |
| DESIGN                                                         | 1           | 2         | 3            | 4            | 5            | 6 | 7 | 8 |
| BAR A                                                          | 428A @ 6"   | 430A @ 6" | 525A @ 6"    | 527A @ 6"    | 603A @ 6"    |   |   |   |
| BAR C                                                          | 510 @ 6"    | 511 @ 6"  | 608 @ 6"     | 703 @ 6"     | 704 @ 6"     |   |   |   |
| BAR E                                                          | 415 @ 12"   | 416 @ 12" | 417 @ 12"    | 418 @ 12"    | 419 @ 12"    |   |   |   |
| BAR G IN 2 SLABS                                               | 24 - 401    | 24 - 401  | 24 - 401     | 24 - 401     | 24 - 401     |   |   |   |
| BAR H IN 2 WALLS                                               | 14 - 402    | 14 - 402  | 14 - 402     | 14 - 402     | 14 - 402     |   |   |   |
| BAR J IN EXT. CORNER                                           | 2-403B @ 5" | 0         | 3-409B @ 6¼" | 4-410B @ 6¾" | 4-411B @ 7½" |   |   |   |
| T <sub>1</sub>                                                 | 9"          | 10"       | 11"          | 12"          | 13"          |   |   |   |
| T <sub>2</sub>                                                 | 10"         | 11"       | 12"          | 13"          | 14"          |   |   |   |
| T <sub>3</sub>                                                 | 9"          | 10"       | 11"          | 12"          | 13"          |   |   |   |
| X                                                              | 8'-6"       | 8'-8"     | 8'-10"       | 9'-0"        | 9'-2"        |   |   |   |
| Y                                                              | 6'-7"       | 6'-9"     | 6'-11"       | 7'-1"        | 7'-3"        |   |   |   |
| YD³CLASS AA CONCRETE/FT                                        | 0.785       | 0.880     | 0.976        | 1.074        | 1.174        |   |   |   |
| LB BAR REINF STEEL/FT                                          | 119.7       | 112.7     | 112.7        | 169.9        | 197.1        |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL |             |           |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 3.5         | 3.6       | 3.8          | 3.9          | 4.1          |   |   |   |
| LB BAR REINF STEEL                                             | 589         | 591       | 593          | 595          | 597          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL |             |           |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 3.7         | 3.8       | 4.0          | 4.1          | 4.2          |   |   |   |
| LB BAR REINF STEEL                                             | 724         | 728       | 732          | 736          | 740          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL |             |           |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 4.1         | 4.3       | 4.4          | 4.6          | 4.7          |   |   |   |
| LB BAR REINF STEEL                                             | 765         | 770       | 774          | 779          | 784          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL |             |           |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 5.1         | 5.3       | 5.5          | 5.7          | 5.9          |   |   |   |
| LB BAR REINF STEEL                                             | 876         | 882       | 888          | 894          | 901          |   |   |   |

| SINGLE 7'-0" X 6'-0" BOX CULVERT                               |             |              |              |              |              |   |   |   |
|----------------------------------------------------------------|-------------|--------------|--------------|--------------|--------------|---|---|---|
| BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS                 |             |              |              |              |              |   |   |   |
| DESIGN                                                         | 1           | 2            | 3            | 4            | 5            | 6 | 7 | 8 |
| BAR A                                                          | 437A @ 6"   | 440A @ 6"    | 534A @ 6"    | 538A @ 6"    | 607A @ 6"    |   |   |   |
| BAR C                                                          | 510 @ 6"    | 511 @ 6"     | 608 @ 6"     | 703 @ 6"     | 704 @ 6"     |   |   |   |
| BAR E                                                          | 421 @ 12"   | 422 @ 12"    | 423 @ 12"    | 424 @ 12"    | 425 @ 12"    |   |   |   |
| BAR G IN 2 SLABS                                               | 24 - 401    | 24 - 401     | 24 - 401     | 24 - 401     | 24 - 401     |   |   |   |
| BAR H IN 2 WALLS                                               | 18 - 402    | 18 - 402     | 18 - 402     | 18 - 402     | 18 - 402     |   |   |   |
| BAR J IN EXT. CORNER                                           | 2-403B @ 5" | 2-406B @ 5¾" | 3-409B @ 6¼" | 4-410B @ 6¾" | 4-411B @ 7½" |   |   |   |
| T <sub>1</sub>                                                 | 9"          | 10"          | 11"          | 12"          | 13"          |   |   |   |
| T <sub>2</sub>                                                 | 10"         | 11"          | 12"          | 13"          | 14"          |   |   |   |
| T <sub>3</sub>                                                 | 9"          | 10"          | 11"          | 12"          | 13"          |   |   |   |
| X                                                              | 8'-6"       | 8'-8"        | 8'-10"       | 9'-0"        | 9'-2"        |   |   |   |
| Y                                                              | 7'-7"       | 7'-9"        | 7'-11"       | 8'-1"        | 8'-3"        |   |   |   |
| YD³CLASS AA CONCRETE/FT                                        | 0.841       | 0.941        | 1.044        | 1.148        | 1.255        |   |   |   |
| LB BAR REINF STEEL/FT                                          | 129.0       | 131.3        | 182.3        | 209.4        | 249.2        |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL |             |              |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 3.6         | 3.8          | 3.9          | 4.1          | 4.2          |   |   |   |
| LB BAR REINF STEEL                                             | 637         | 639          | 641          | 643          | 645          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL |             |              |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 3.8         | 3.9          | 4.1          | 4.3          | 4.4          |   |   |   |
| LB BAR REINF STEEL                                             | 773         | 777          | 781          | 785          | 789          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL |             |              |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 4.2         | 4.4          | 4.6          | 4.7          | 4.9          |   |   |   |
| LB BAR REINF STEEL                                             | 815         | 819          | 824          | 829          | 834          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL |             |              |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 5.3         | 5.5          | 5.7          | 5.9          | 6.1          |   |   |   |
| LB BAR REINF STEEL                                             | 927         | 933          | 939          | 946          | 952          |   |   |   |

| SINGLE 7'-0" X 7'-0" BOX CULVERT                               |             |              |              |              |              |   |   |   |
|----------------------------------------------------------------|-------------|--------------|--------------|--------------|--------------|---|---|---|
| BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS                 |             |              |              |              |              |   |   |   |
| DESIGN                                                         | 1           | 2            | 3            | 4            | 5            | 6 | 7 | 8 |
| BAR A                                                          | 445A @ 6"   | 448A @ 6"    | 545A @ 6"    | 548A @ 6"    | 613A @ 6"    |   |   |   |
| BAR C                                                          | 510 @ 6"    | 511 @ 6"     | 608 @ 6"     | 703 @ 6"     | 704 @ 6"     |   |   |   |
| BAR E                                                          | 427 @ 12"   | 428 @ 12"    | 429 @ 12"    | 513 @ 12"    | 514 @ 12"    |   |   |   |
| BAR G IN 2 SLABS                                               | 24 - 401    | 24 - 401     | 24 - 401     | 24 - 401     | 24 - 401     |   |   |   |
| BAR H IN 2 WALLS                                               | 20 - 402    | 20 - 402     | 20 - 402     | 20 - 402     | 20 - 402     |   |   |   |
| BAR J IN EXT. CORNER                                           | 2-403B @ 5" | 2-406B @ 5¾" | 3-409B @ 6¼" | 4-410B @ 6¾" | 4-411B @ 7½" |   |   |   |
| T <sub>1</sub>                                                 | 9"          | 10"          | 11"          | 12"          | 13"          |   |   |   |
| T <sub>2</sub>                                                 | 10"         | 11"          | 12"          | 13"          | 14"          |   |   |   |
| T <sub>3</sub>                                                 | 9"          | 10"          | 11"          | 12"          | 13"          |   |   |   |
| X                                                              | 8'-6"       | 8'-8"        | 8'-10"       | 9'-0"        | 9'-2"        |   |   |   |
| Y                                                              | 8'-7"       | 8'-9"        | 8'-11"       | 9'-1"        | 9'-3"        |   |   |   |
| YD³CLASS AA CONCRETE/FT                                        | 0.897       | 1.003        | 1.112        | 1.222        | 1.335        |   |   |   |
| LB BAR REINF STEEL/FT                                          | 137.1       | 139.3        | 193.3        | 227.0        | 270.5        |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL |             |              |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 3.8         | 3.9          | 4.1          | 4.2          | 4.4          |   |   |   |
| LB BAR REINF STEEL                                             | 662         | 664          | 666          | 668          | 670          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL |             |              |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 3.9         | 4.1          | 4.3          | 4.4          | 4.6          |   |   |   |
| LB BAR REINF STEEL                                             | 798         | 802          | 806          | 810          | 815          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL |             |              |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 4.4         | 4.6          | 4.8          | 4.9          | 5.1          |   |   |   |
| LB BAR REINF STEEL                                             | 840         | 845          | 850          | 855          | 859          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL |             |              |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 5.4         | 5.7          | 5.9          | 6.1          | 6.4          |   |   |   |
| LB BAR REINF STEEL                                             | 953         | 959          | 966          | 972          | 978          |   |   |   |

| SINGLE 7'-0" X 8'-0" BOX CULVERT                               |             |           |              |              |              |   |   |   |
|----------------------------------------------------------------|-------------|-----------|--------------|--------------|--------------|---|---|---|
| BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS                 |             |           |              |              |              |   |   |   |
| DESIGN                                                         | 1           | 2         | 3            | 4            | 5            | 6 | 7 | 8 |
| BAR A                                                          | 466A @ 6"   | 555A @ 6" | 557A @ 6"    | 559A @ 6"    | 621A @ 6"    |   |   |   |
| BAR C                                                          | 607 @ 6"    | 511 @ 6"  | 608 @ 6"     | 703 @ 6"     | 704 @ 6"     |   |   |   |
| BAR E                                                          | 516 @ 12"   | 517 @ 12" | 518 @ 12"    | 436 @ 6"     | 437 @ 6"     |   |   |   |
| BAR G IN 2 SLABS                                               | 24 - 401    | 24 - 401  | 24 - 401     | 24 - 401     | 24 - 401     |   |   |   |
| BAR H IN 2 WALLS                                               | 22 - 402    | 22 - 402  | 22 - 402     | 22 - 402     | 22 - 402     |   |   |   |
| BAR J IN EXT. CORNER                                           | 2-403B @ 5" | 0         | 3-409B @ 6¼" | 4-410B @ 6¾" | 4-411B @ 7½" |   |   |   |
| T <sub>1</sub>                                                 | 9"          | 10"       | 11"          | 12"          | 13"          |   |   |   |
| T <sub>2</sub>                                                 | 10"         | 11"       | 12"          | 13"          | 14"          |   |   |   |
| T <sub>3</sub>                                                 | 9"          | 10"       | 11"          | 12"          | 13"          |   |   |   |
| X                                                              | 8'-6"       | 8'-8"     | 8'-10"       | 9'-0"        | 9'-2"        |   |   |   |
| Y                                                              | 9'-7"       | 9'-9"     | 9'-11"       | 10'-1"       | 10'-3"       |   |   |   |
| YD³CLASS AA CONCRETE/FT                                        | 0.952       | 1.065     | 1.180        | 1.296        | 1.415        |   |   |   |
| LB BAR REINF STEEL/FT                                          | 174.5       | 178.8     | 211.4        | 244.4        | 291.7        |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 90° SKEW - TOTAL |             |           |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 3.9         | 4.1       | 4.3          | 4.4          | 4.6          |   |   |   |
| LB BAR REINF STEEL                                             | 687         | 689       | 691          | 693          | 695          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 75° SKEW - TOTAL |             |           |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 4.1         | 4.3       | 4.5          | 4.6          | 4.8          |   |   |   |
| LB BAR REINF STEEL                                             | 824         | 828       | 832          | 836          | 840          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 60° SKEW - TOTAL |             |           |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 4.6         | 4.8       | 5.0          | 5.2          | 5.4          |   |   |   |
| LB BAR REINF STEEL                                             | 866         | 871       | 876          | 881          | 886          |   |   |   |
| PARAPET, BARREL END, AND TOEWALL QUANTITIES - 45° SKEW - TOTAL |             |           |              |              |              |   |   |   |
| YD³CLASS AA CONCRETE                                           | 5.7         | 5.9       | 6.2          | 6.4          | 6.7          |   |   |   |
| LB BAR REINF STEEL                                             | 980         | 986       | 992          | 999          | 1005         |   |   |   |

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

STANDARD  
REINFORCED CONCRETE  
SINGLE BOX CULVERT  
7'X5', 7'X6', 7'X7' AND 7'X8'

NO SCALE SEPTEMBER 2017

DES. YSK. (SUBMITTED) *[Signature]*  
DRW. FGS. STATE DESIGN POLICY ENGINEER  
TRA. (APPROVED) *[Signature]*  
CHK. JWB. CHIEF ENGINEER

NUMBER  
2401  
SHEET 2-G OF 3

**POND**  
3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092  
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FOR/AOR SEAL  
  
GSWCC# 95439,  
EXP. 9/10/2027  
CLIENT INFORMATION

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

**CONSTRUCTION  
DETAILS**

SHEET NUMBER

**C-506**

SHEET 14 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION



D

C

B

A

| MARK | LENGTH   | TYPE |
|------|----------|------|
| 401  | L* - 4"  | I    |
| 402  | L* + 20" | I    |
| 403  | 4'-0"    | I    |
| 404  | 4'-2"    | I    |
| 405  | 4'-4"    | I    |
| 406  | 4'-6"    | I    |
| 407  | 4'-8"    | I    |
| 408  | 5'-0"    | I    |
| 409  | 5'-2"    | I    |
| 410  | 5'-4"    | I    |
| 411  | 5'-6"    | I    |
| 412  | 5'-8"    | I    |
| 413  | 5'-10"   | I    |
| 414  | 6'-0"    | I    |
| 415  | 6'-2"    | I    |
| 416  | 6'-4"    | I    |
| 417  | 6'-6"    | I    |
| 418  | 6'-8"    | I    |
| 419  | 6'-10"   | I    |
| 420  | 7'-0"    | I    |
| 421  | 7'-2"    | I    |
| 422  | 7'-4"    | I    |
| 423  | 7'-6"    | I    |
| 424  | 7'-8"    | I    |
| 425  | 7'-10"   | I    |
| 426  | 8'-0"    | I    |
| 427  | 8'-2"    | I    |
| 428  | 8'-4"    | I    |
| 429  | 8'-6"    | I    |
| 430  | 8'-8"    | I    |
| 431  | 8'-10"   | I    |
| 432  | 9'-0"    | I    |
| 433  | 9'-2"    | I    |
| 434  | 9'-4"    | I    |
| 435  | 9'-6"    | I    |
| 436  | 9'-8"    | I    |
| 437  | 9'-10"   | I    |
| 438  | 10'-0"   | I    |
| 439  | 10'-2"   | I    |
| 440  | 10'-4"   | I    |
| 441  | 10'-6"   | I    |
| 442  | 10'-8"   | I    |
| 443  | 11'-0"   | I    |
| 444  | 11'-2"   | I    |
| 445  | 11'-4"   | I    |
| 446  | 11'-8"   | I    |
| 447  | 12'-0"   | I    |
| 448  | 12'-4"   | I    |
| 449  | 12'-6"   | I    |
| 450  | 12'-8"   | I    |
| 451  | 13'-4"   | I    |
| 452  | 13'-8"   | I    |
| 453  | 14'-4"   | I    |

| MARK | LENGTH  | TYPE |
|------|---------|------|
| 501  | 5'-0"   | I    |
| 502  | 5'-2"   | I    |
| 503  | 6'-0"   | I    |
| 504  | 6'-2"   | I    |
| 505  | 7'-0"   | I    |
| 506  | 7'-2"   | I    |
| 507  | 7'-4"   | I    |
| 508  | 7'-8"   | I    |
| 509  | 8'-0"   | I    |
| 510  | 8'-2"   | I    |
| 511  | 8'-4"   | I    |
| 512  | 8'-6"   | I    |
| 513  | 8'-8"   | I    |
| 514  | 8'-10"  | I    |
| 515  | 9'-0"   | I    |
| 516  | 9'-2"   | I    |
| 517  | 9'-4"   | I    |
| 518  | 9'-6"   | I    |
| 519  | 9'-8"   | I    |
| 520  | 9'-10"  | I    |
| 521  | 10'-0"  | I    |
| 522  | 10'-2"  | I    |
| 523  | 10'-4"  | I    |
| 524  | 10'-10" | I    |
| 525  | 11'-0"  | I    |
| 526  | 11'-2"  | I    |
| 527  | 11'-4"  | I    |
| 528  | 11'-6"  | I    |
| 529  | 11'-8"  | I    |
| 530  | 11'-10" | I    |
| 531  | 12'-0"  | I    |
| 532  | 12'-2"  | I    |
| 533  | 12'-4"  | I    |
| 534  | 12'-8"  | I    |
| 535  | 13'-0"  | I    |
| 536  | 14'-0"  | I    |

| MARK | LENGTH | TYPE |
|------|--------|------|
| 601  | 6'-2"  | I    |
| 602  | 6'-4"  | I    |
| 603  | 7'-2"  | I    |
| 604  | 7'-4"  | I    |
| 605  | 7'-6"  | I    |
| 606  | 7'-8"  | I    |
| 607  | 8'-2"  | I    |
| 608  | 8'-6"  | I    |
| 609  | 8'-8"  | I    |
| 610  | 9'-6"  | I    |
| 611  | 10'-0" | I    |
| 612  | 10'-2" | I    |
| 613  | 11'-2" | I    |
| 614  | 11'-4" | I    |
| 615  | 12'-4" | I    |
| 616  | 12'-8" | I    |
| 617  | 14'-0" | I    |
| 618  | 14'-8" | I    |
| 701  | 7'-8"  | I    |
| 702  | 8'-4"  | I    |
| 703  | 8'-8"  | I    |
| 704  | 8'-10" | I    |
| 705  | 9'-2"  | I    |
| 706  | 9'-8"  | I    |
| 707  | 10'-2" | I    |
| 708  | 10'-4" | I    |
| 709  | 11'-0" | I    |
| 710  | 11'-4" | I    |
| 711  | 11'-6" | I    |
| 712  | 11'-8" | I    |
| 713  | 12'-0" | I    |
| 714  | 12'-2" | I    |
| 715  | 12'-4" | I    |
| 716  | 12'-8" | I    |
| 717  | 13'-0" | I    |
| 718  | 13'-4" | I    |
| 719  | 14'-4" | I    |
| 720  | 15'-0" | I    |
| 721  | 15'-4" | I    |
| 801  | 9'-2"  | I    |
| 802  | 9'-4"  | I    |
| 803  | 11'-8" | I    |
| 804  | 12'-0" | I    |
| 805  | 13'-4" | I    |

| MARK | LENGTH  | TYPE | A      | B       |
|------|---------|------|--------|---------|
| 401A | 4'-5"   | 3    | 1'-10" | 2'-7"   |
| 402A | 4'-7"   | 3    | 1'-11" | 2'-8"   |
| 403A | 4'-11"  | 3    | 2'-4"  | 2'-7"   |
| 404A | 5'-11"  | 3    | 2'-5"  | 2'-8"   |
| 405A | 5'-5"   | 3    | 1'-10" | 3'-7"   |
| 406A | 5'-5"   | 3    | 2'-10" | 2'-7"   |
| 407A | 5'-11"  | 3    | 1'-11" | 3'-8"   |
| 408A | 5'-7"   | 3    | 2'-0"  | 3'-7"   |
| 409A | 5'-7"   | 3    | 2'-11" | 2'-8"   |
| 410A | 5'-11"  | 3    | 2'-4"  | 3'-7"   |
| 411A | 6'-11"  | 3    | 2'-5"  | 3'-8"   |
| 412A | 6'-5"   | 3    | 2'-10" | 3'-7"   |
| 413A | 6'-7"   | 3    | 2'-0"  | 4'-7"   |
| 414A | 6'-7"   | 3    | 2'-11" | 3'-8"   |
| 415A | 6'-9"   | 3    | 2'-11" | 4'-8"   |
| 416A | 6'-9"   | 3    | 3'-0"  | 3'-9"   |
| 417A | 6'-11"  | 3    | 2'-4"  | 4'-7"   |
| 418A | 7'-11"  | 3    | 2'-5"  | 4'-8"   |
| 419A | 7'-11"  | 3    | 3'-5"  | 3'-8"   |
| 420A | 7'-3"   | 3    | 3'-6"  | 3'-9"   |
| 421A | 7'-5"   | 3    | 2'-10" | 4'-7"   |
| 422A | 7'-6"   | 3    | 2'-11" | 4'-7"   |
| 423A | 7'-7"   | 3    | 2'-11" | 4'-8"   |
| 424A | 7'-9"   | 3    | 3'-0"  | 4'-9"   |
| 425A | 7'-11"  | 3    | 2'-4"  | 5'-7"   |
| 426A | 8'-11"  | 3    | 2'-5"  | 5'-8"   |
| 427A | 8'-11"  | 3    | 2'-6"  | 5'-7"   |
| 428A | 8'-11"  | 3    | 3'-5"  | 4'-8"   |
| 429A | 8'-11"  | 3    | 4'-2"  | 3'-11"  |
| 430A | 8'-3"   | 3    | 3'-6"  | 4'-9"   |
| 431A | 8'-3"   | 3    | 4'-3"  | 4'-0"   |
| 432A | 8'-5"   | 3    | 2'-10" | 5'-7"   |
| 433A | 8'-7"   | 3    | 2'-11" | 5'-8"   |
| 434A | 8'-9"   | 3    | 3'-0"  | 5'-9"   |
| 435A | 8'-10"  | 3    | 3'-3"  | 5'-7"   |
| 436A | 8'-11"  | 3    | 4'-10" | 4'-11"  |
| 437A | 9'-11"  | 3    | 3'-5"  | 5'-8"   |
| 438A | 9'-11"  | 3    | 4'-2"  | 4'-11"  |
| 439A | 9'-3"   | 3    | 2'-8"  | 6'-7"   |
| 440A | 9'-3"   | 3    | 3'-6"  | 5'-9"   |
| 441A | 9'-3"   | 3    | 4'-3"  | 5'-0"   |
| 442A | 9'-5"   | 3    | 5'-4"  | 4'-11"  |
| 443A | 9'-7"   | 3    | 2'-11" | 6'-8"   |
| 444A | 9'-11"  | 3    | 4'-10" | 5'-11"  |
| 445A | 10'-11" | 3    | 3'-5"  | 6'-8"   |
| 446A | 10'-11" | 3    | 4'-2"  | 5'-11"  |
| 447A | 10'-11" | 3    | 4'-11" | 5'-2"   |
| 448A | 10'-3"  | 3    | 3'-6"  | 6'-9"   |
| 449A | 10'-3"  | 3    | 4'-3"  | 6'-0"   |
| 450A | 10'-5"  | 3    | 5'-4"  | 5'-11"  |
| 451A | 10'-8"  | 3    | 3'-0"  | 7'-8"   |
| 452A | 10'-9"  | 3    | 4'-2"  | 6'-7"   |
| 453A | 10'-11" | 3    | 4'-10" | 6'-11"  |
| 454A | 11'-11" | 3    | 4'-2"  | 6'-11"  |
| 455A | 11'-11" | 3    | 4'-11" | 6'-2"   |
| 456A | 11'-3"  | 3    | 3'-8"  | 7'-7"   |
| 457A | 11'-3"  | 3    | 4'-3"  | 7'-0"   |
| 458A | 11'-5"  | 3    | 3'-10" | 7'-7"   |
| 459A | 11'-5"  | 3    | 5'-4"  | 6'-11"  |
| 460A | 11'-9"  | 3    | 4'-2"  | 7'-7"   |
| 461A | 11'-11" | 3    | 4'-10" | 7'-11"  |
| 462A | 12'-11" | 3    | 4'-2"  | 7'-11"  |
| 463A | 12'-11" | 3    | 4'-11" | 7'-2"   |
| 464A | 12'-3"  | 3    | 4'-3"  | 8'-0"   |
| 465A | 12'-5"  | 3    | 5'-4"  | 7'-11"  |
| 466A | 12'-6"  | 3    | 4'-10" | 7'-8"   |
| 467A | 12'-11" | 3    | 4'-10" | 8'-11"  |
| 468A | 13'-11" | 3    | 4'-11" | 8'-2"   |
| 469A | 13'-3"  | 3    | 4'-3"  | 9'-0"   |
| 470A | 13'-5"  | 3    | 5'-4"  | 8'-11"  |
| 471A | 13'-11" | 3    | 4'-10" | 9'-11"  |
| 472A | 14'-11" | 3    | 4'-11" | 9'-2"   |
| 473A | 14'-5"  | 3    | 5'-4"  | 9'-11"  |
| 474A | 14'-7"  | 3    | 5'-8"  | 8'-11"  |
| 475A | 15'-5"  | 3    | 5'-4"  | 10'-11" |
| 476A | 15'-7"  | 3    | 5'-8"  | 9'-11"  |
| 477A | 16'-5"  | 3    | 5'-4"  | 11'-11" |
| 478A | 16'-6"  | 3    | 6'-5"  | 10'-11" |
| 479A | 17'-5"  | 3    | 5'-4"  | 12'-11" |

| MARK | LENGTH  | TYPE | A      | B       |
|------|---------|------|--------|---------|
| 501A | 4'-5"   | 3    | 1'-10" | 2'-7"   |
| 502A | 4'-11"  | 3    | 2'-4"  | 2'-8"   |
| 503A | 5'-11"  | 3    | 2'-5"  | 2'-9"   |
| 504A | 5'-3"   | 3    | 2'-6"  | 2'-9"   |
| 505A | 5'-6"   | 3    | 1'-11" | 3'-7"   |
| 506A | 5'-9"   | 3    | 3'-0"  | 2'-9"   |
| 507A | 5'-11"  | 3    | 2'-4"  | 3'-7"   |
| 508A | 5'-11"  | 3    | 3'-11" | 2'-10"  |
| 509A | 6'-11"  | 3    | 3'-2"  | 2'-11"  |
| 510A | 6'-3"   | 3    | 2'-6"  | 3'-9"   |
| 511A | 6'-9"   | 3    | 2'-2"  | 4'-7"   |
| 512A | 6'-11"  | 3    | 3'-11" | 3'-10"  |
| 513A | 7'-0"   | 3    | 2'-5"  | 4'-7"   |
| 514A | 7'-11"  | 3    | 2'-5"  | 4'-8"   |
| 515A | 7'-11"  | 3    | 3'-2"  | 3'-11"  |
| 516A | 7'-3"   | 3    | 2'-6"  | 4'-9"   |
| 517A | 7'-5"   | 3    | 3'-7"  | 3'-10"  |
| 518A | 7'-7"   | 3    | 3'-11" | 3'-11"  |
| 519A | 7'-11"  | 3    | 3'-11" | 4'-10"  |
| 520A | 8'-11"  | 3    | 2'-5"  | 5'-8"   |
| 521A | 8'-11"  | 3    | 3'-2"  | 4'-11"  |
| 522A | 8'-2"   | 3    | 2'-7"  | 4'-11"  |
| 523A | 8'-3"   | 3    | 2'-6"  | 5'-9"   |
| 524A | 8'-3"   | 3    | 2'-7"  | 5'-8"   |
| 525A | 8'-5"   | 3    | 3'-7"  | 4'-10"  |
| 526A | 8'-5"   | 3    | 4'-4"  | 4'-11"  |
| 527A | 8'-7"   | 3    | 3'-8"  | 4'-11"  |
| 528A | 8'-9"   | 3    | 3'-0"  | 5'-9"   |
| 529A | 8'-11"  | 3    | 3'-11" | 5'-10"  |
| 530A | 9'-11"  | 3    | 3'-2"  | 5'-11"  |
| 531A | 9'-3"   | 3    | 5'-0"  | 4'-3"   |
| 532A | 9'-4"   | 3    | 3'-9"  | 5'-7"   |
| 533A | 9'-5"   | 3    | 2'-9"  | 6'-8"   |
| 534A | 9'-5"   | 3    | 3'-7"  | 5'-10"  |
| 535A | 9'-5"   | 3    | 4'-4"  | 5'-11"  |
| 536A | 9'-6"   | 3    | 2'-10" | 6'-8"   |
| 537A | 9'-7"   | 3    | 2'-10" | 6'-9"   |
| 538A | 9'-7"   | 3    | 3'-8"  | 5'-11"  |
| 539A | 9'-7"   | 3    | 4'-5"  | 5'-2"   |
| 540A | 9'-9"   | 3    | 3'-0"  | 6'-9"   |
| 541A | 9'-9"   | 3    | 5'-6"  | 4'-3"   |
| 542A | 9'-11"  | 3    | 3'-11" | 6'-10"  |
| 543A | 10'-11" | 3    | 3'-2"  | 6'-11"  |
| 544A | 10'-3"  | 3    | 5'-0"  | 5'-3"   |
| 545A | 10'-5"  | 3    | 3'-7"  | 6'-10"  |
| 546A | 10'-5"  | 3    | 3'-10" | 6'-7"   |
| 547A | 10'-5"  | 3    | 4'-4"  | 6'-11"  |
| 548A | 10'-7"  | 3    | 3'-8"  | 6'-11"  |
| 549A | 10'-7"  | 3    | 4'-5"  | 6'-2"   |
| 550A | 10'-9"  | 3    | 3'-0"  | 7'-9"   |
| 551A | 10'-9"  | 3    | 5'-6"  | 5'-3"   |
| 552A | 10'-11" | 3    | 3'-11" | 7'-10"  |
| 553A | 11'-11" | 3    | 3'-2"  | 7'-11"  |
| 554A | 11'-11" | 3    | 5'-8"  | 5'-5"   |
| 555A | 11'-3"  | 3    | 3'-6"  | 7'-9"   |
| 556A | 11'-3"  | 3    | 5'-0"  | 6'-3"   |
| 557A | 11'-5"  | 3    | 3'-7"  | 7'-10"  |
| 558A | 11'-5"  | 3    | 4'-4"  | 7'-11"  |
| 559A | 11'-7"  | 3    | 3'-8"  | 7'-11"  |
| 560A | 11'-7"  | 3    | 3'-11" | 7'-8"   |
| 561A | 11'-7"  | 3    | 4'-5"  | 7'-2"   |
| 562A | 11'-9"  | 3    | 5'-6"  | 6'-3"   |
| 563A | 12'-11" | 3    | 5'-8"  | 6'-5"   |
| 564A | 12'-3"  | 3    | 5'-0"  | 7'-3"   |
| 565A | 12'-5"  | 3    | 4'-4"  | 8'-11"  |
| 566A | 12'-5"  | 3    | 5'-11" | 7'-4"   |
| 567A | 12'-7"  | 3    | 4'-5"  | 8'-2"   |
| 568A | 13'-11" | 3    | 5'-8"  | 7'-5"   |
| 569A | 13'-3"  | 3    | 5'-0"  | 8'-3"   |
| 570A | 13'-5"  | 3    | 4'-4"  | 9'-11"  |
| 571A | 13'-5"  | 3    | 5'-11" | 8'-4"   |
| 572A | 13'-7"  | 3    | 4'-5"  | 9'-2"   |
| 573A | 14'-11" | 3    | 5'-8"  | 8'-5"   |
| 574A | 14'-3"  | 3    | 5'-0"  | 9'-3"   |
| 575A | 14'-5"  | 3    | 4'-4"  | 10'-11" |
| 576A | 15'-11" | 3    | 5'-8"  | 9'-5"   |
| 577A | 15'-3"  | 3    | 5'-0"  | 10'-3"  |
| 578A | 15'-9"  | 3    | 5'-6"  | 10'-3"  |
| 579A | 16'-11" | 3    | 5'-8"  | 10'-5"  |

| MARK | LENGTH  | TYPE | A      | B       |
|------|---------|------|--------|---------|
| 580A | 16'-9"  | 3    | 5'-6"  | 11'-3"  |
| 581A | 17'-11" | 3    | 5'-8"  | 11'-5"  |
| 582A | 17'-9"  | 3    | 5'-6"  | 12'-3"  |
| 601A | 7'-9"   | 3    | 3'-9"  | 4'-0"   |
| 602A | 8'-7"   | 3    | 4'-5"  | 4'-2"   |
| 603A | 8'-9"   | 3    | 3'-9"  | 5'-0"   |
| 604A | 8'-9"   | 3    | 4'-6"  | 4'-3"   |
| 605A | 9'-5"   | 3    | 5'-11" | 4'-4"   |
| 606A | 9'-7"   | 3    | 5'-2"  | 4'-5"   |
| 607A | 9'-9"   | 3    | 3'-9"  | 6'-0"   |
| 608A | 9'-9"   | 3    | 4'-6"  | 5'-3"   |
| 609A | 10'-11" | 3    | 5'-8"  | 4'-5"   |
| 610A | 10'-5"  | 3    | 5'-11" | 5'-4"   |
| 611A | 10'-5"  | 3    | 5'-10" | 4'-7"   |
| 612A | 10'-7"  | 3    | 5'-2"  | 5'-5"   |
| 613A | 10'-9"  | 3    | 3'-9"  | 7'-0"   |
| 614A | 10'-9"  | 3    | 4'-6"  | 6'-3"   |
| 615A | 10'-9"  | 3    | 6'-0"  | 4'-9"   |
| 616A | 11'-5"  | 3    | 5'-11" | 6'-4"   |
| 617A | 11'-5"  | 3    | 5'-10" | 5'-7"   |
| 618A | 11'-6"  | 3    | 3'-9"  | 7'-9"   |
| 619A | 11'-6"  | 3    | 3'-10" | 7'-8"   |
| 620A | 11'-7"  | 3    | 5'-2"  | 6'-5"   |
| 621A | 11'-9"  | 3    | 3'-9"  | 8'-0"   |
| 622A | 11'-9"  | 3    | 4'-6"  | 7'-3"   |
| 623A | 11'-9"  | 3    | 6'-0"  | 5'-9"   |
| 624A | 12'-5"  | 3    | 5'-10" | 6'-7"   |
| 625A | 12'-7"  | 3    | 5'-2"  | 7'-5"   |
| 626A | 12'-9"  | 3    | 4'-6"  | 8'-3"   |
| 627A | 12'-9"  | 3    | 6'-0"  | 6'-9"</ |



FILE PATH: X:\FY25\125021007 CAD-BIM\07.02 CAD\CIVIL\G-500 PLOTTED BY: URUETA, JUAN DATE: 8/8/25



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

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FOR/AOR SEAL



GSWCC# 95439,  
EXP. 9/10/2025

CLIENT INFORMATION

## FAYETTE COUNTY

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

## CONSTRUCTION DETAILS

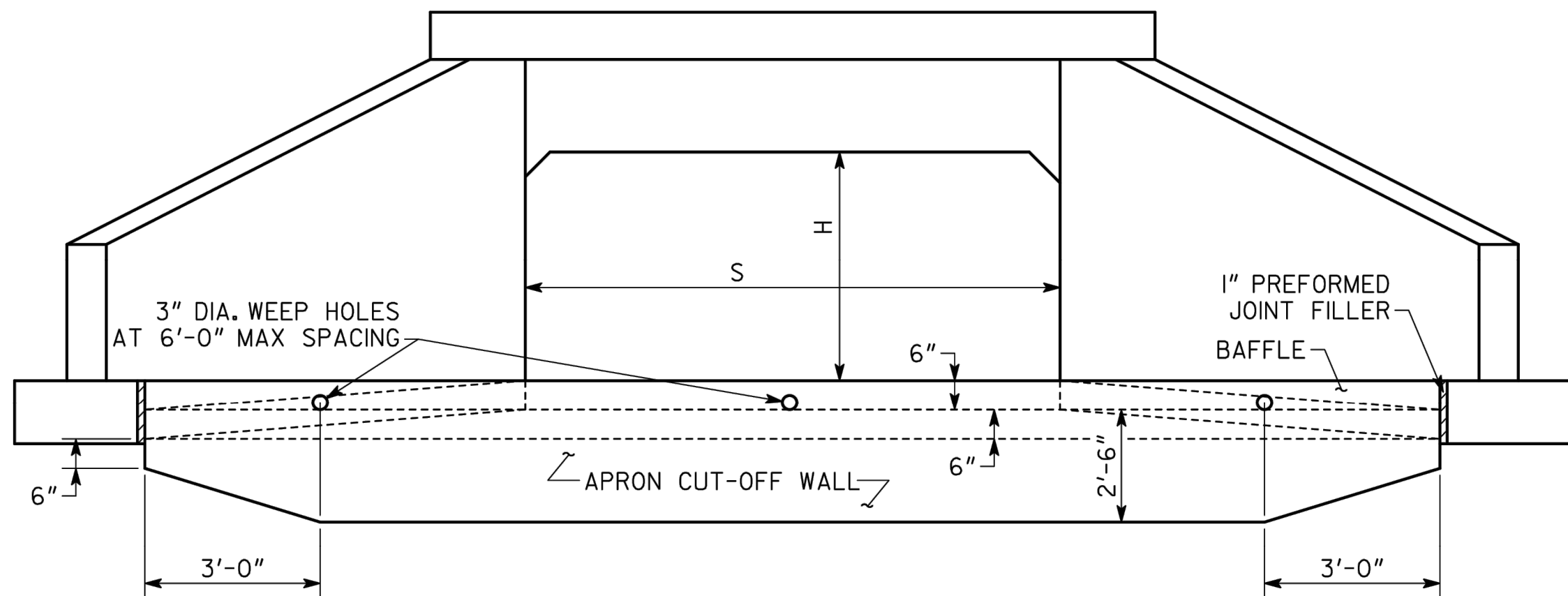
SHEET NUMBER

C-508

SHEET 16 OF 30

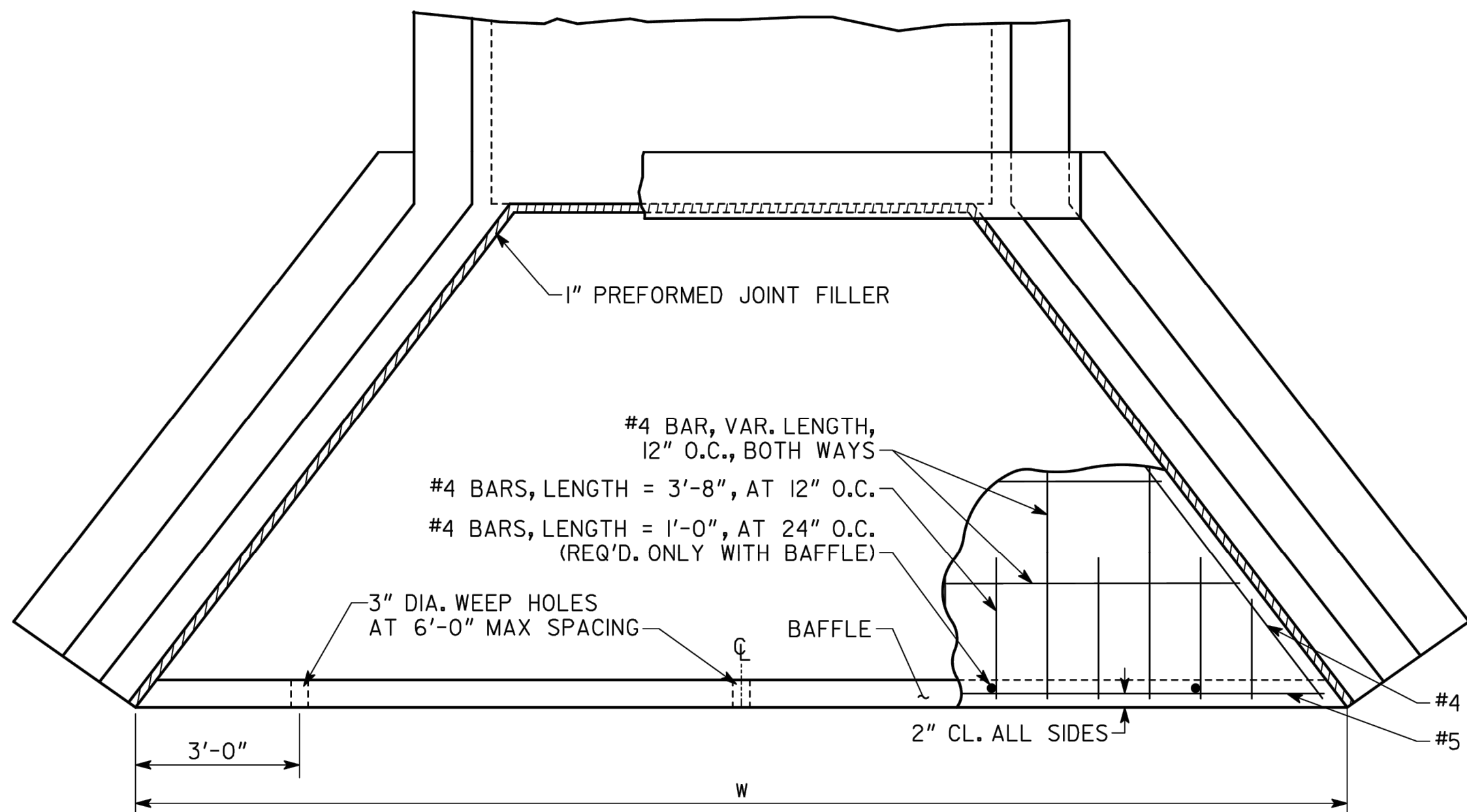
ORIGINAL SHEET SIZE:  
22" X 34"

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|----------------|-----------|--------------|
| GA.   |                |           |              |

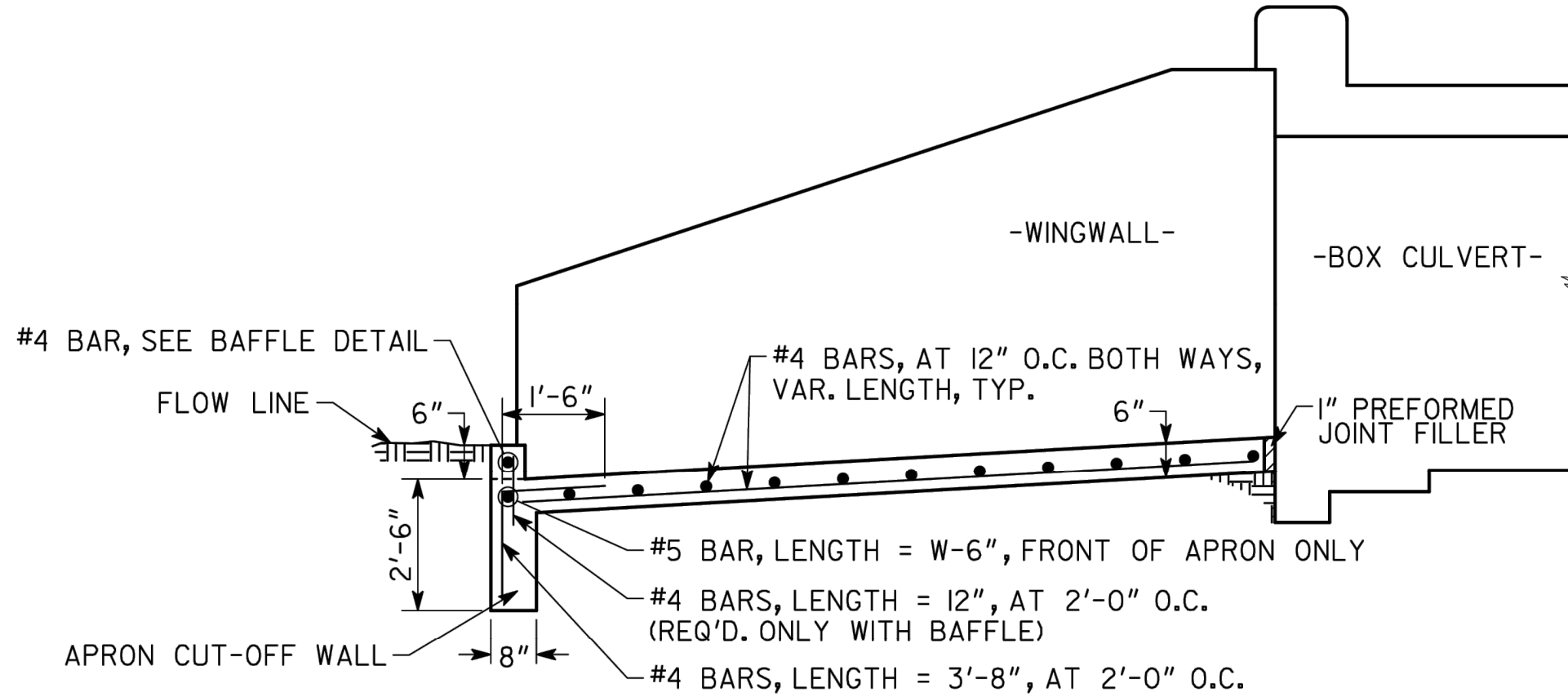


FRONT VIEW OF APRON

S = CLEAR SPAN OF BOX CULVERT.  
H = CLEAR HEIGHT (RISE) OF BOX CULVERT

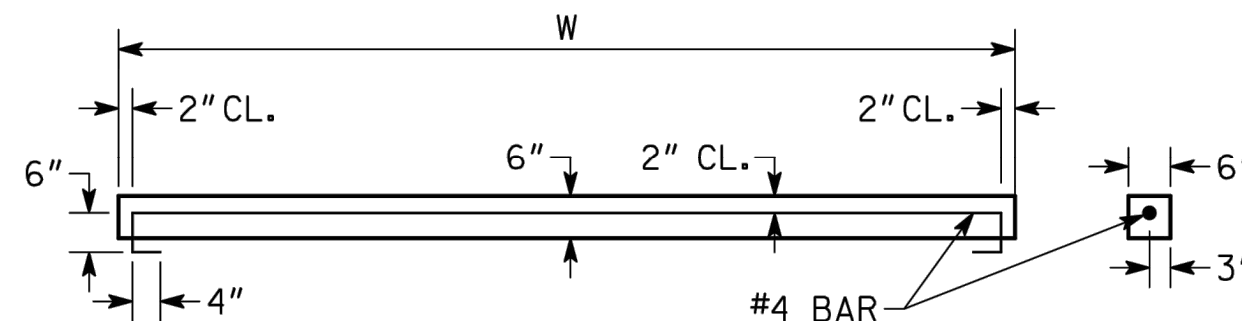


PLAN VIEW OF APRON



ELEVATION VIEW OF APRON

NOTE: 2" CL. ON ALL SIDES UNLESS OTHERWISE NOTED.  
SEE BOX CULVERT STANDARDS FOR DETAILS NOT SHOWN.  
END OF EMBEDDED CULVERT APRON (NOT SHOWN) HAS THE SAME MINIMUM BACKFILL AS BARREL.



BAFFLE DETAIL

NOTE: CONSTRUCT BAFFLES FROM CLASS AA CONCRETE, MAY BE PRECAST OR CAST IN PLACE.  
USE BAFFLES ON APRONS AT OUTLETS OF PIPES AND BOX CULVERTS AND IN PAVED DITCHES OR ELSEWHERE AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

### GENERAL NOTES

- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
- CONCRETE APRONS AND BAFFLES ARE REQUIRED AT ALL OUTLETS OF ALL BOX CULVERT DRAINS. APRON IS NOT TO BE OMITTED AT OUTLETS UNLESS THE ENGINEER DETERMINES THAT BEDROCK WILL PREVENT EROSION AND MAKE THE APRON DIFFICULT TO CONSTRUCT. APRONS (WITHOUT BAFFLES) ARE USED AT INLETS ONLY IF PLANS SPECIFY.
- DETAILS HERESHOWN APPLY TO LRFD STANDARD BOX CULVERTS.
- ALL CONCRETE SHALL BE CLASS "AA" CONCRETE.
- SEE SEPARATE STANDARDS FOR DETAILS OF BOX CULVERTS, WINGWALLS, PARAPETS, ETC.

### DESIGN DATA

SPECIFICATIONS - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014  
LOADING - HL- 93.

| DATE     |          | DEPARTMENT OF TRANSPORTATION                                         |                                |
|----------|----------|----------------------------------------------------------------------|--------------------------------|
|          |          | STATE OF GEORGIA                                                     |                                |
| REVISION |          | STANDARD                                                             |                                |
|          |          | CONCRETE BOX CULVERT APRONS AND BAFFLES DETAIL                       |                                |
|          |          | NO SCALE SEPTEMBER 2017                                              |                                |
| BY       | DES. WEI | (SUBMITTED)                                                          | NUMBER<br>2406<br>SHEET 1 OF 2 |
|          | DRW. EJC | (APPROVED)                                                           |                                |
|          | TRA.     |                                                                      |                                |
|          | CHK. EJC |                                                                      |                                |
|          |          | STATE DESIGN POLICY ENGINEER<br>MARGARET B. PIRKLE<br>CHIEF ENGINEER |                                |

100% SUBMITTAL - ISSUED FOR CONSTRUCTION



FILE PATH: X:\FY25\2502\1007 CAD-BIM\07.02 CAD\CIVIL\G-500 PLOTTED BY: URUETA, JUAN DATE: 8/8/25

NOTE: THE QUANTITIES SHOWN ABOVE ARE FOR OUTLET END APRONS WITH BAFFLES, IF APRONS ARE NEEDED AT INLETS (NOT USUAL), REDUCE THE ABOVE QUANTITIES FOR NO. BAFFLES AS FOLLOWS:  
CONCRETE: REDUCE QUANTITY BY W x 0.0092 CU.YDS/FT.  
STEEL: REDUCE QUANTITY BY W x 0.334 LBS./LIN.FT.

S = CLEAR SPAN OF BOX CULVERT  
H = CLEAR HEIGHT (RISE) OF BOX CULVERT

|  |    |                                           |                                                                                                                         |                                       |
|--|----|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
|  |    | DATE                                      | DEPARTMENT OF TRANSPORTATION<br>STATE OF GEORGIA                                                                        |                                       |
|  |    | REVISION                                  | STANDARD                                                                                                                |                                       |
|  |    |                                           | CONCRETE BOX CULVERT APRONS<br>AND BAFFLES DETAIL                                                                       |                                       |
|  |    |                                           | NO SCALE                                                                                                                | SEPTEMBER 2017                        |
|  | BY | DES. WEL.<br>DRAW. EJC.<br>TRA. CHK. EJC. | (SUBMITTED)<br><i>[Signature]</i><br>STATE DESIGN POLICY ENGINEER<br>(APPROVED)<br><i>[Signature]</i><br>CHIEF ENGINEER | NUMBER<br><b>2406</b><br>SHEET 2 OF 2 |

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

CONSTRUCTION  
DETAILS

SHEET NUMBER

C-509

SHEET 17 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

**POND**

3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

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FOR/AOR SEAL

Alan Owen  
Professional Engineer  
08/08/2025  
GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

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



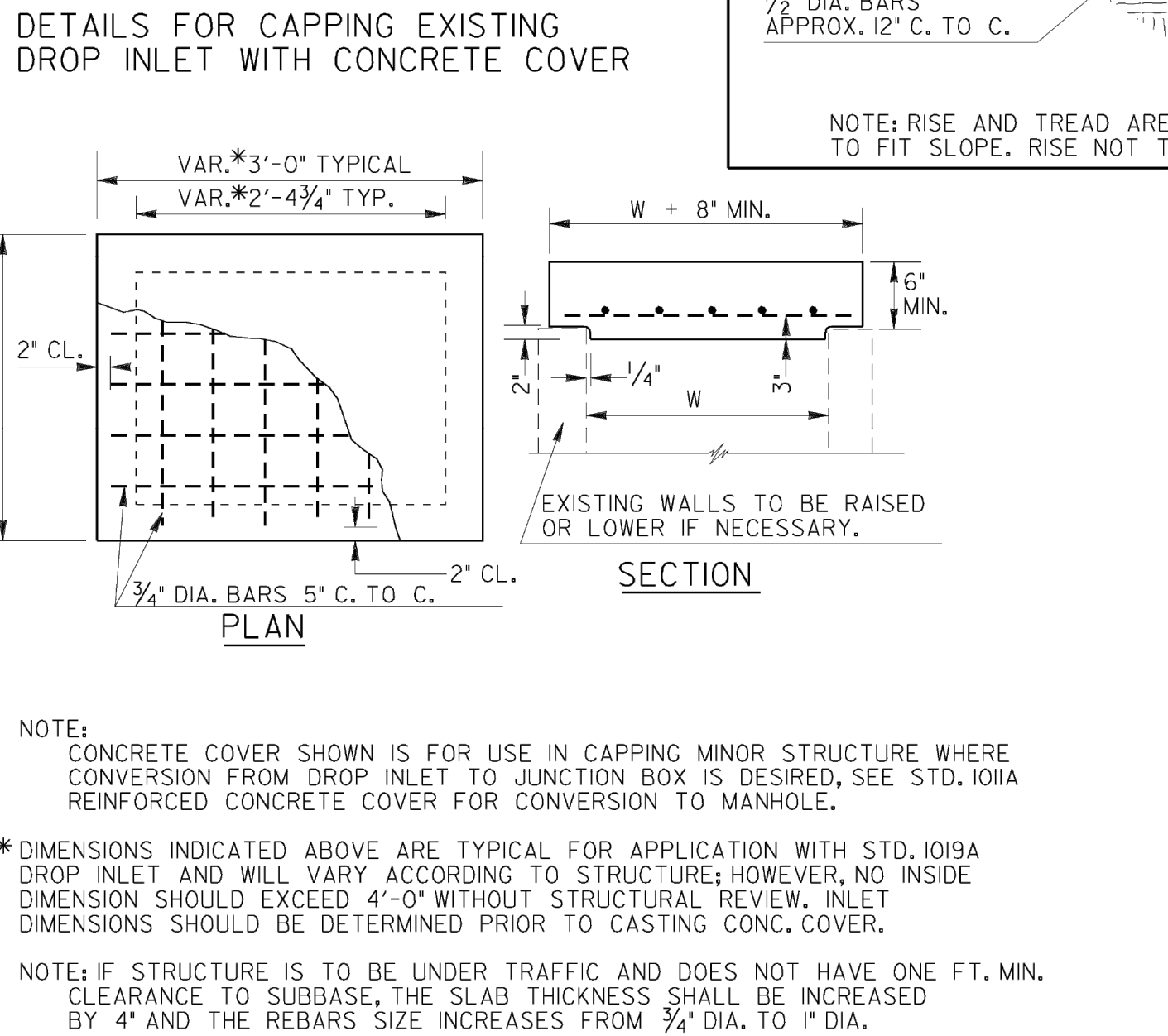
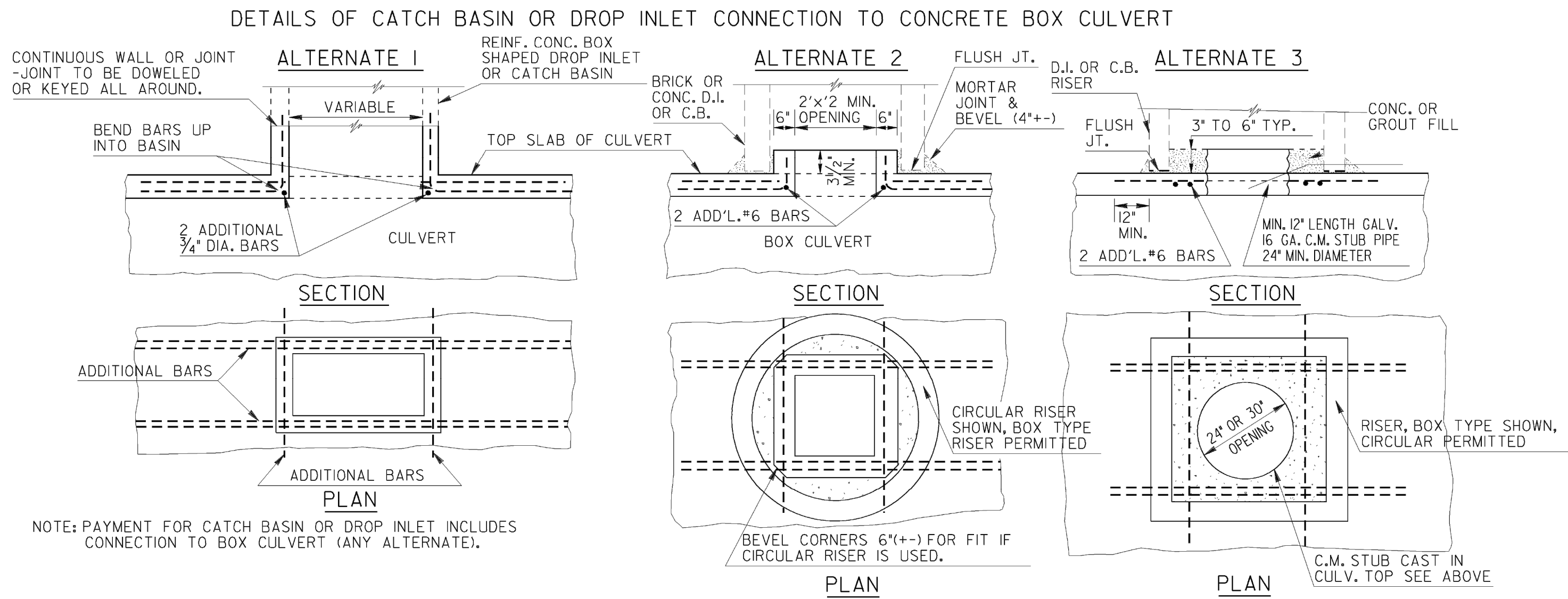
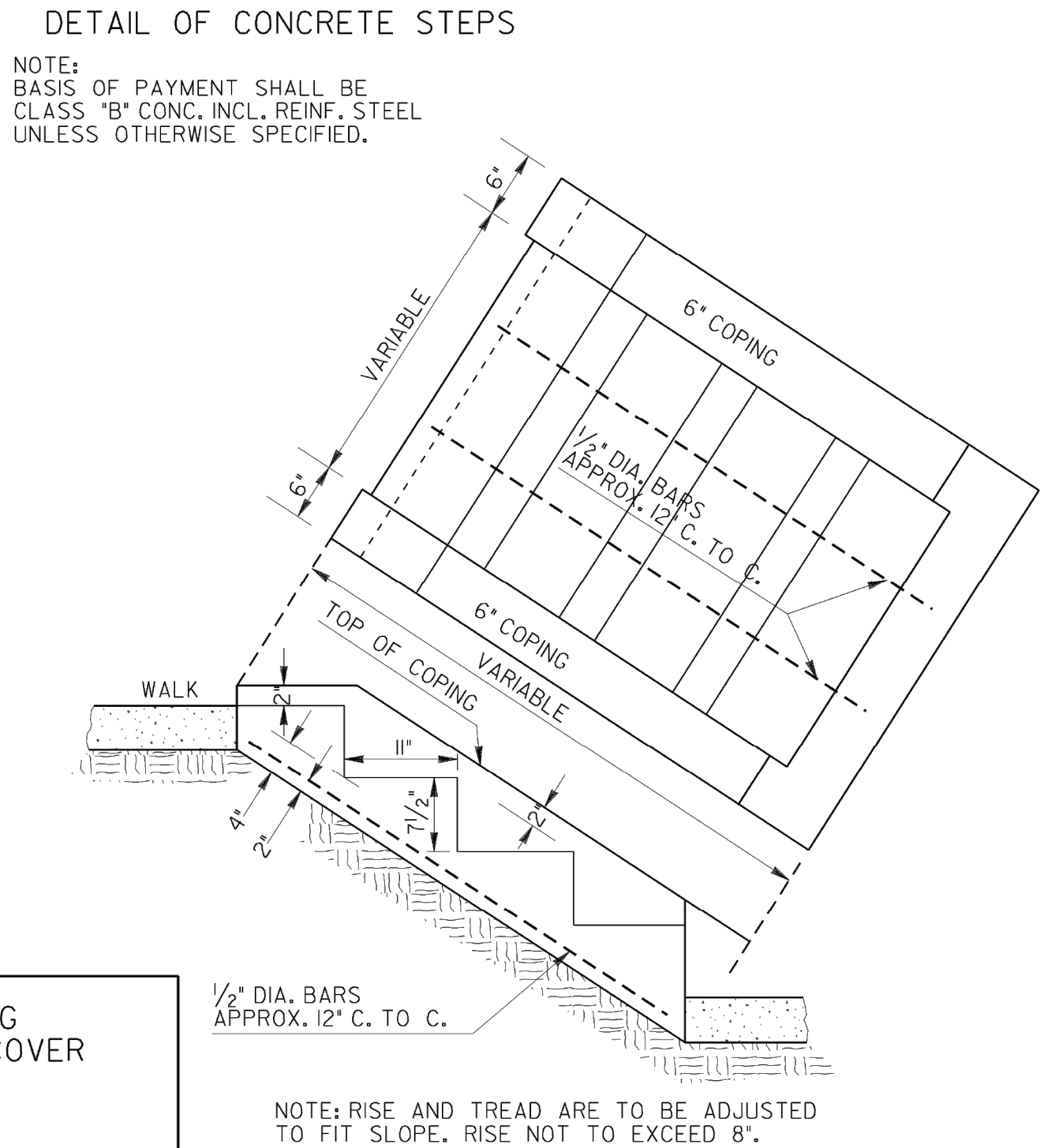
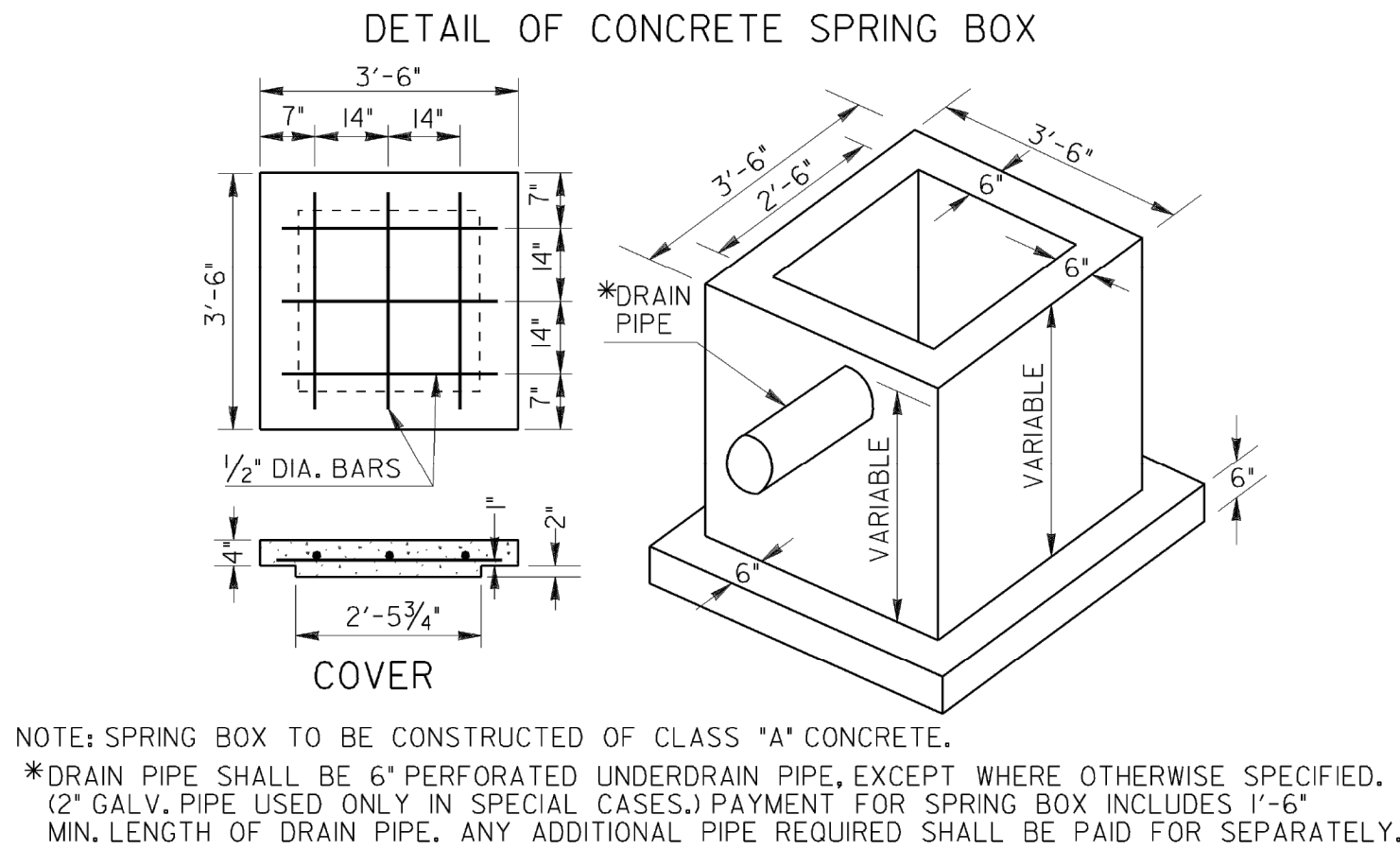
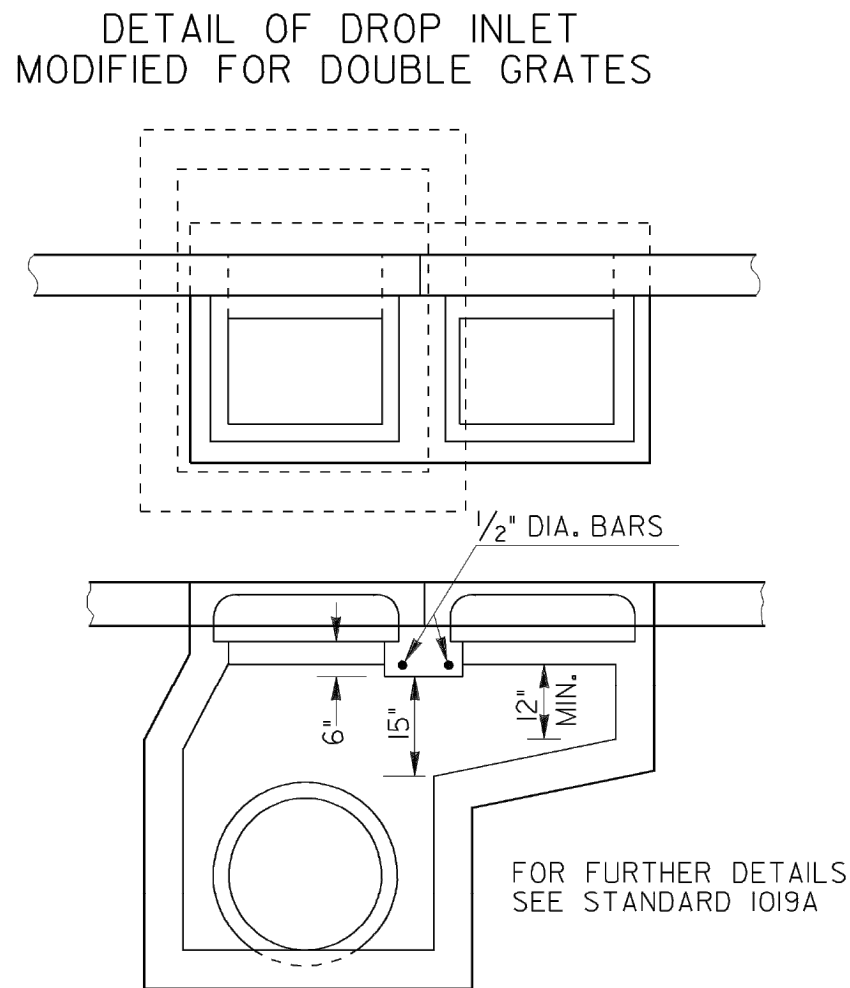
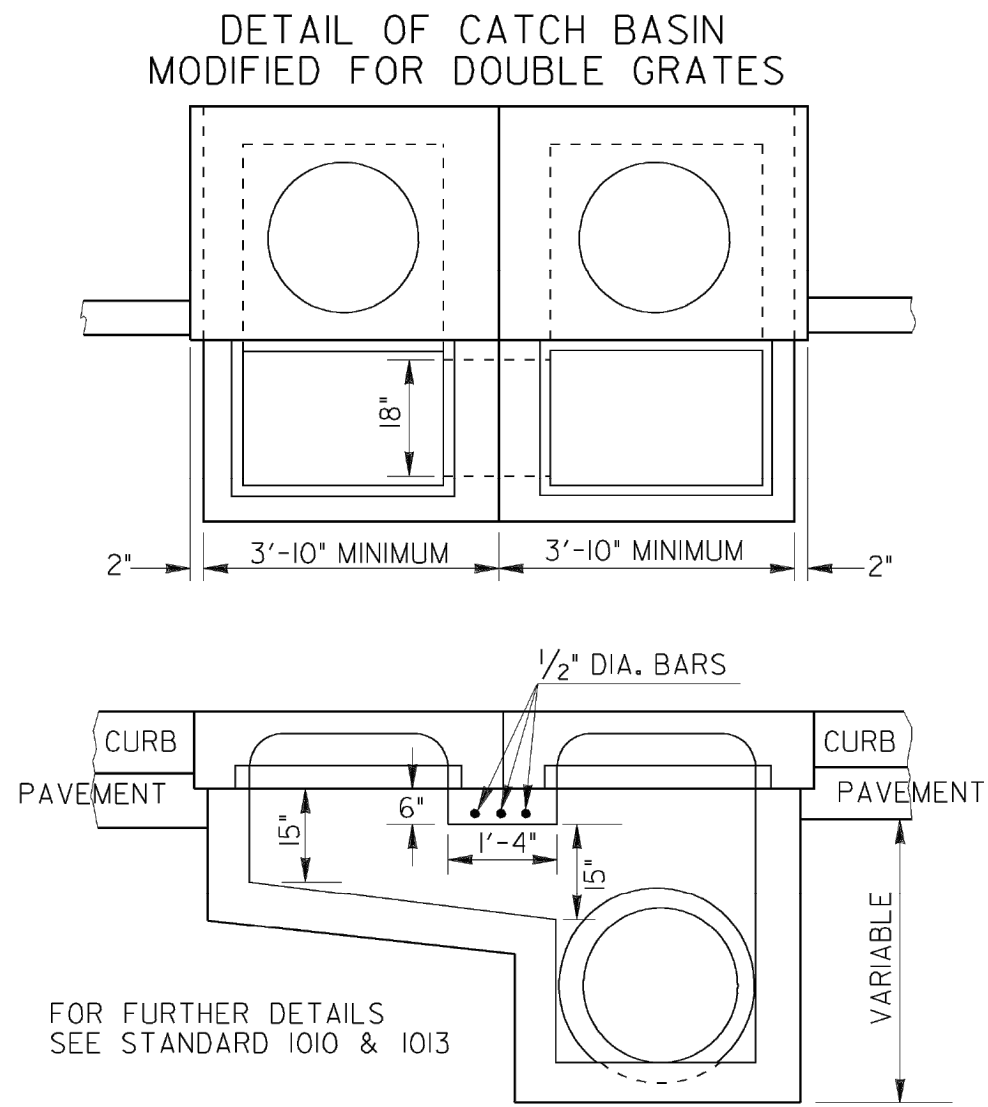
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| DEPARTMENT OF TRANSPORTATION |  |  |  | STATE OF GEORGIA                                                                                                                                                                                                       |  |
|------------------------------|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| STANDARD                     |  |  |  | DETAILS OF: CATCH BASIN MODIFIED FOR DOUBLE GRATE, DROP INLET MODIFIED FOR DOUBLE GRATE, CONCRETE SPRING BOX, CONCRETE STEPS, CATCH BASIN OR DROP INLET CONNECTION TO CONCRETE BOX CULVERT CAPPING EXISTING DROP INLET |  |
| NO. SCALE:                   |  |  |  | REV. & REDR. DECEMBER, 1982                                                                                                                                                                                            |  |
| REV. & REDR. (SUBMITTED)     |  |  |  | STATE ROAD & AIRPORT DESIGN ENGR.                                                                                                                                                                                      |  |
| TRA. G.M.E. (APPROVED)       |  |  |  | CHIEF ENGINEER                                                                                                                                                                                                         |  |
| CHK. R.K.C.                  |  |  |  | NUMBER 9031L                                                                                                                                                                                                           |  |
| SHEET 2 OF 2                 |  |  |  |                                                                                                                                                                                                                        |  |

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FOR/AOR SEAL

**GEORGIA**

Professional Engineer  
08/08/2025

GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

**FAYETTE COUNTY**

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

PROJECT NAME

**250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO

DRAWN BY: JCU/CAH

CHECKED BY: DMM

SUBMITTED BY: DMM

DATE: AUGUST 8, 2025

PROJECT # 1250210

SHEET TITLE

**CONSTRUCTION  
DETAILS**

SHEET NUMBER

**C-510**

SHEET 18 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"



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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.

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.

THIS PROJECT ENCROACHES ON THE 25' STATE BUFFER, HOWEVER, A 25' STREAM BUFFER VARIANCE IS NOT BE REQUIRED FOR THIS PROJECT AS ALL IMPACTS OCCUR WITHIN 50 FEET OF THE PROPOSED CULVERT IN ACCORDANCE WITH THE GEORGIA ENVIRONMENTAL PROTECTION DIVISION ROADWAY DRAINAGE STRUCTURE EXEMPTION.

**DESIGN PROFESSIONAL'S CERTIFICATION:**

2) 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 SUPERVISION.

CODY OWENBY, P.E.

DATE

GSWCC LEVEL II CERTIFICATION # 0000095439

EXPIRES: 09/10/2027

**EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN GENERAL NOTES**

(IN CONFORMANCE WITH STATE OF GEORGIA GENERAL NPDES PERMIT NO. GAR 100002)

**GENERAL PROJECT DATA**

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: CODY OWENBY, PE  
GA. P.E. # 047343, E&S LEVEL II CERTIFICATION # 0000095439

CONTRACTOR: TO BE DETERMINED

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

TOTAL SITE AREA: 0.23 ACRES  
DISTURBED AREA: 0.23 ACRES  
TOTAL IMPERVIOUS AREA: 0.02 ACRES

EXISTING LAND USE:

THE EXISTING LAND USE CONSISTS OF 36-INCH DIAMETER CMP CULVERTS AND A PAVED ROAD IN A RESIDENTIAL AREA.

PROPOSED CONSTRUCTION ACTIVITIES:

THE PROJECT CONSISTS OF REMOVING THE TWO EXISTING DETERIORATED 36-INCH DIAMETER CMP CULVERTS AND REPLACING IT WITH 54 LF OF 6' X 6' BOX CULVERT.

GPS COORDINATES OF CONSTRUCTION ENTRANCE: 33.4112° N, 84.4593° W  
NAME OF RECEIVING WATERS: UNNAMED TRIBUTARY TO PERRY CREEK  
STATE AND FEDERAL WATERS EXIST ON OR WITHIN 200' OF THE PROJECT SITE.  
WETLANDS EXIST ON OR WITHIN 200' OF THE PROJECT SITE.  
THERE ARE NO IMPAIRED STREAMS WITHIN ONE MILE DOWNSTREAM OF THIS PROJECT.

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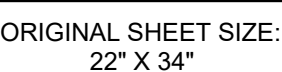
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**Call** before you dig.  
Dial 811  
Or Call 800-282-7411





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EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

INFRASTRUCTURE CONSTRUCTION PROJECTS GAR100002

SWCD: Towaliga

Project Name: 250 Greenfield Circle, Fayetteville, GA

Local Issuing Authority: Fayette County

Name & Email of person filling out checklist: Liam Sullivan, liam.sullivan@pondco.com

Address: 250 Greenfield Circle, Fayetteville, GA 30214

Date on Plans: 06/20/2025

| Plan   | Included |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Page # | Y/N      |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| CE003  | Y        | 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.<br><br>The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed. Permit IV.D.1. pg 28                                                                                                                                |
| ALL CE | Y        | 2 Level II certification number issued by the Commission, signature and seal of the certified design professional.<br><br>Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed. The Level II certification must be issued to the Design Professional, after completion of a GSWCC approved course, and whose signature and seal are on the Plan.                                        |
| CE001  | Y        | 3 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.                                                                                                                                                                                                                                                                                                                                      |
| CE001  | Y        | 4 Provide the name, address, email address, and phone number of Primary Permittee.                                                                                                                                                                                                                                                                                                                                                                     |
| CE001  | Y        | 5 Note total and disturbed acreages of the project or phase under construction.                                                                                                                                                                                                                                                                                                                                                                        |
| CE001  | Y        | 6 Provide the GPS locations of the beginning and end of the infrastructure project. Give the Latitudes and Longitudes in decimal degrees.                                                                                                                                                                                                                                                                                                              |
| CE001  | Y        | 7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.                                                                                                                                                                                                                                                                                                                           |
| CE001  | Y        | 8 Descriptions of the nature of construction activity and existing site conditions.                                                                                                                                                                                                                                                                                                                                                                    |
| CE001  | Y        | 9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.                                                                                                                                                                                                                                                                                                                              |
| CE001  | Y        | 10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.                                                                                                                                                                                                                                                                      |
| CE001  | Y        | 11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.                                                                                                                                                                                                                                                                            |
| N/A    | N/A      | 12 Design professional's certification statement and signature that the Permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 21 of the permit. *                                                                                                                                                                                                     |
| N/A    | N/A      | 13 Design professional certification statement and signature that the Permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3). page 37 of the permit as applicable. *                                                                                                                                                                                                                                               |
| N/A    | N/A      | 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect and certify the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." *                                                                                                                                                                                                        |
| CE001  | Y        | 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."                                                                                           |
| CE001  | Y        | 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.                                                                                                                                                                                                                                                                                                                                               |
| N/A    | N/A      | 17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *                                                                                                                                                                                                                                                         |
| N/A    | N/A      | 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit" *                                                                                                                                                                                                                                                                                                    |
| CE001  | Y        | 19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."                                                                                                                                                                                                                                               |
| CE001  | Y        | 20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."                                                                                                                                                  |
| CE001  | Y        | 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."                                                                                                                                                                                                                                                                                                 |
| N/A    | N/A      | 22 Any construction activity which discharges storm water into a Biota Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a Biota Impaired Stream Segment, must comply with Part III.C. of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. * |
| N/A    | N/A      | 23 If a TMDL Implementation Plan for sediment has been finalized for the Biota Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *                                                                                                                                               |
| N/A    | N/A      | 24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. *                                                                                                                                                                                                                                                              |
| CE002  | Y        | 25 Provide BMPs for the remediation of all petroleum spills and leaks.                                                                                                                                                                                                                                                                                                                                                                                 |

|                   |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                     |                   |                              |
|-------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------|-------------------|------------------------------|
| N/A               | N/A                                 | 26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                     |                   |                              |
| N/A               | N/A                                 | 27 Description of practices to provide cover for building materials and building products on site. *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                     |                   |                              |
| N/A               | N/A                                 | 28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                     |                   |                              |
| CE001             | Y                                   | 29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, grading, infrastructure, temporary and final stabilization).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                                     |                   |                              |
| N/A               | N/A                                 | 30 Provide complete requirements of Inspections and record keeping by the Primary Permittee. *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                                     |                   |                              |
| N/A               | N/A                                 | 31 Provide complete requirements of Sampling Frequency and Reporting of sampling results. *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                                     |                   |                              |
| N/A               | N/A                                 | 32 Provide complete details for Retention of Records as per Part IV.F. of the permit. *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                                     |                   |                              |
| N/A               | N/A                                 | 33 Description of analytical methods to be used to collect and analyze the samples from each location. *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                                     |                   |                              |
| N/A               | N/A                                 | 34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                     |                   |                              |
| N/A               | N/A                                 | 35 Delineate all sampling locations on all phases of the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                     |                   |                              |
| N/A               | N/A                                 | 36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all BMPs into a single phase plan. *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                                     |                   |                              |
| CE101-CE201       | Y                                   | 37 Graphic scale and North arrow.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                     |                   |                              |
| CE101-CE201       | Y                                   | 38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: <table><tr><td>Existing Contours</td><td>USGS 1": 2000' Topographical Sheets</td></tr><tr><td>Proposed Contours</td><td>1" : 400' Centerline Profile</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Existing Contours | USGS 1": 2000' Topographical Sheets | Proposed Contours | 1" : 400' Centerline Profile |
| Existing Contours | USGS 1": 2000' Topographical Sheets |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                     |                   |                              |
| Proposed Contours | 1" : 400' Centerline Profile        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                     |                   |                              |
| N/A               | N/A                                 | 39 Use of Alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                                     |                   |                              |
| N/A               | N/A                                 | 40 Use of Alternative BMP for application to the Equivalent BMP List Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                     |                   |                              |
| CE101-CE201       | Y                                   | 41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                                     |                   |                              |
| CE101-CE201       | Y                                   | 42 Delineation of all State Waters and wetlands located on or within 200 feet of the project site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                     |                   |                              |
| CE201             | Y                                   | 43 Delineation and acreage of contributing drainage basins on the project site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                     |                   |                              |
| N/A               | N/A                                 | 44 Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                                     |                   |                              |
| CG201             | Y                                   | 45 Estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                                     |                   |                              |
| CG201             | Y                                   | 46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                     |                   |                              |
| CE001             | Y                                   | 47 Soil series for the project site and their delineation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                                     |                   |                              |
| CE101-CE201       | Y                                   | 48 The limits of disturbance for each phase of construction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                                     |                   |                              |
| CE101-CE201       | Y                                   | 49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan. |                   |                                     |                   |                              |
| CE501-CE504       | Y                                   | 50 Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual Chapter 6, with legend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                     |                   |                              |
| CE501-CE504       | Y                                   | 51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                                     |                   |                              |
| CE501-CE504       | Y                                   | 52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |                                     |                   |                              |
|                   |                                     | * If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                                     |                   |                              |

Effective January 1, 2025

DESIGN PROFESSIONAL:  
CODY OWENBY, PE.  
LEVEL II CERTIFICATION  
No.: 0000095439  
EXPIRES : 09/10/2027



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Georgia 30092

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EOR/AOR SEAL

GEORGIA

REGISTERED PROFESSIONAL ENGINEER

08/08/2025

CODY ALAN OWENBY

GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME  
  
250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE  
  
DATE  
  
DESCRIPTION  
  
MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE  
  
EROSION AND  
SEDIMENT  
CONTROL  
NOTES

SHEET NUMBER  
  
CE003  
  
SHEET 21 OF 30  
  
ORIGINAL SHEET SIZE:  
22" X 34"



GENERAL SHEET NOTES

1. REFER TO SHEET CE001 FOR GENERAL CIVIL NOTES, LEGENDS, AND ABBREVIATIONS.
2. 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.
3. 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.
4. 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.
5. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
6. ANY DISTURBED AREA LEFT IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH PERMANENT SEEDING.
7. CONSTRUCTION ENTRANCE TO BE DETERMINED BY COUNTY AND CONTRACTOR PRIOR TO CONSTRUCTION.

LEGEND

- LOD — LOD — LIMITS OF DISTURBANCE
- - - - - APPROXIMATE RIGHT-OF-WAY/PROPERTY LINE
- SF — SILT FENCE
- TPF — TPF — TREE PROTECTION FENCE
- 25 — 25' STREAM BUFFER



3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092

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GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

EROSION AND  
SEDIMENT  
CONTROL PLAN  
INITIAL PHASE

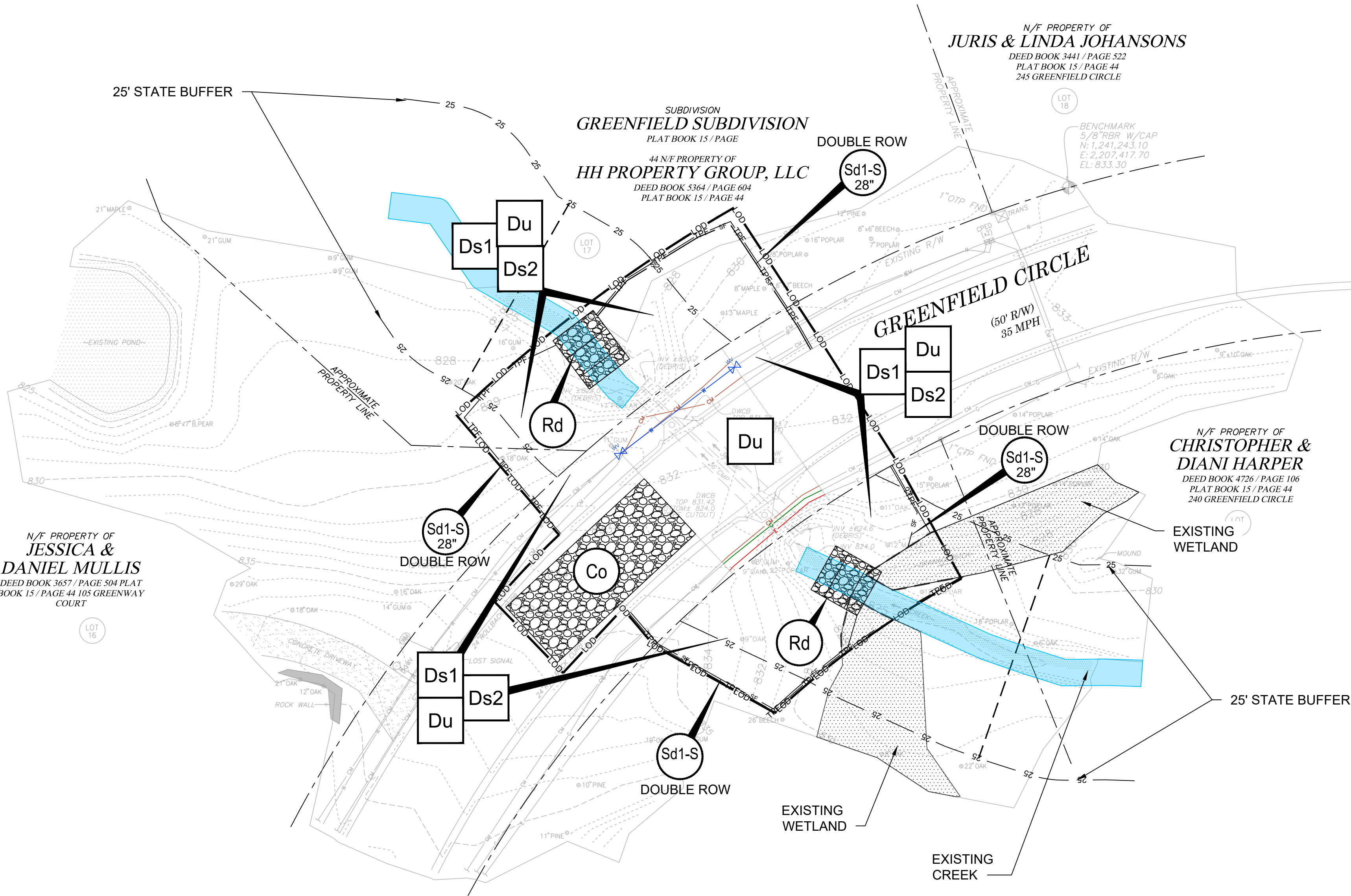
SHEET NUMBER

CE101

SHEET 22 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION



**A1** EROSION AND SEDIMENT CONTROL PLAN INITIAL PHASE  
SCALE: 1" = 20'

0 10' 20' 40' 60'







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Georgia 30092

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GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

EROSION AND  
SEDIMENT  
CONTROL PLAN  
FINAL PHASE

SHEET NUMBER

CE201

SHEET 23 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

GENERAL SHEET NOTES

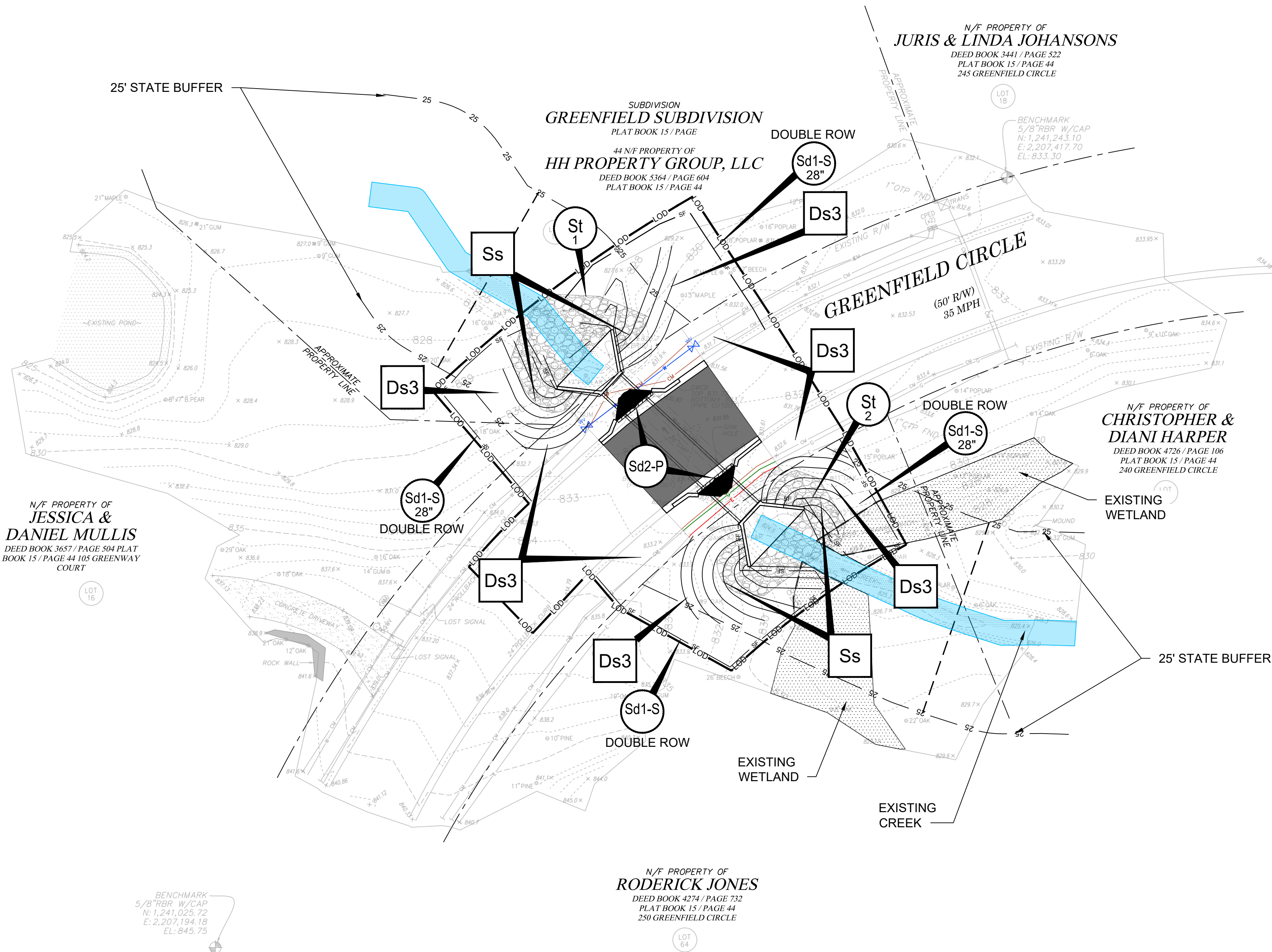
- REFER TO SHEET CE001 FOR GENERAL CIVIL NOTES, LEGENDS, AND ABBREVIATIONS.
- THIS SHEET IS PART OF A MULTI-SHEET SET OF EROSION CONTROL PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION 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 14 DAYS SHALL BE STABILIZED WITH PERMANENT SEEDING.
- CONSTRUCTION ENTRANCE TO BE DETERMINED BY COUNTY AND CONTRACTOR PRIOR TO CONSTRUCTION.
- PREVIOUSLY INSTALLED Rd CAN BE SPREAD OUT AND USED FOR STORM OUTLET PROTECTION.

LEGEND

- LOD LIMITS OF DISTURBANCE
- APPROXIMATE RIGHT-OF-WAY/PROPERTY LINE
- SF SILT FENCE
- TPF TREE PROTECTION FENCE
- 25 25' STREAM BUFFER

NOTE:

PREVIOUSLY INSTALLED ROCK DAM CAN BE SPREAD OUT AND USED FOR STORM PROTECTION.



A1 EROSION AND SEDIMENT CONTROL PLAN FINAL PHASE

SCALE: 1" = 20'

0 10' 20' 40' 60'





FILE PATH: X:\F\25\12502\1007 CAD-BIM\07 02 CAD\CIVIL\CE501 PLOTTED BY: URUETA, JUAN DATE: 8/8/25

METHODS AND MATERIALS

A. TEMPORARY METHODS

MULCHES  
SEE MULCHING. SYNTHETIC RESINS MAY BE USED INSTEAD OF ASPHALT TO BIND MULCH MATERIAL.

VEGETATIVE COVER  
SEE TEMPORARY SEEDING.

SPRAY-ON ADHESIVES  
THESE ARE USED ON MINERALS SOILS. KEEP TRAFFIC OFF THESE AREAS.

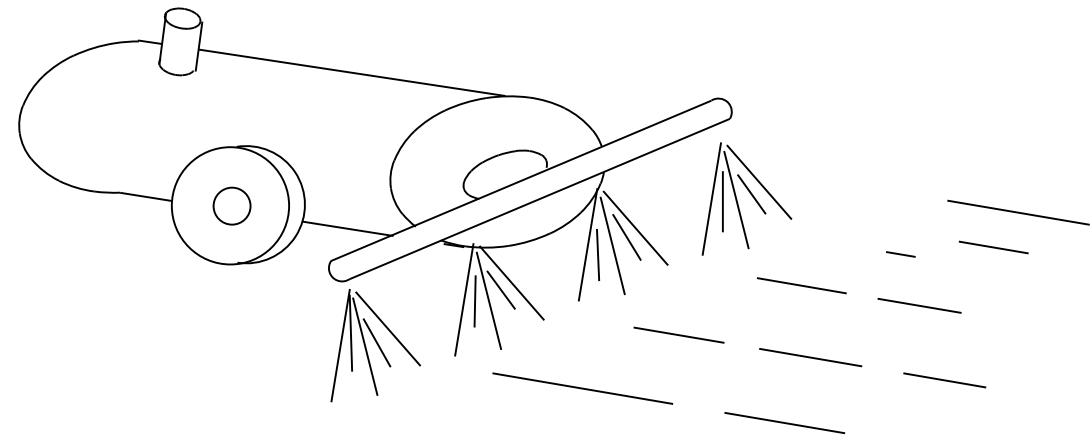
SPRINKLING  
THE SITE IS SPRINKLED WITH WATER UNTIL THE SURFACE IS WET. REPEAT AS NEEDED. THIS METHOD IS ESPECIALLY EFFECTIVE ON HAUL ROADS AND OTHER TRAFFIC ROUTES.

BARRIERS  
SOLID BOARD FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

C1 DUST CONTROL

SCALE: N.T.S.

Du



B. PERMANENT METHODS

PERMANENT VEGETATION  
SEE STANDARD FOR PERMANENT SEEDING, AND PERMANENT STABILIZATION WITH SOD. EXISTING TREES AND LARGE SHRUBS MAY AFFORD VALUABLE PROTECTION IF LEFT IN PLACE.

TOPSOILING  
THIS ENTAILS COVERING THE SURFACE WITH LESS EROSION SOIL MATERIAL. SEE TOPSOILING.

STONE  
COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

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.

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGULAR EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATION TECHNIQUES SHALL BE EMPLOYED. REFER TO Ds2 - DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING), Ds3 - DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING), AND Ds4 - DISTURBED AREA STABILIZATION (WITH SODDING).

MULCHING WITHOUT SEEDING

THIS STANDARD APPLIES TO GRADED OR CLEARED AREAS WHERE SEEDINGS MAY NOT HAVE SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDANT COVER, BUT CAN BE STABILIZED WITH A MULCH COVER.

SITE PREPARATION

- GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
- INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES, AND SEDIMENT BARRIERS.
- LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

MULCHING MATERIALS

SELECT ONE OF THE FOLLOWING MATERIALS AND APPLY AT THE DEPTH INDICATED:

- DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE. ONE ADVANTAGE OF THIS MATERIAL IS EASY APPLICATION.
- 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. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
- POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION. THIS MATERIAL CAN BE SALVAGED AND RE-USED.

APPLYING MULCH

MULCHING RATE: MULCH APPLIED TO SEEDED AREAS SHALL ACHIEVE 75% SOIL COVER. WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.

- DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
- 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 THE DECOMPOSITION OF THE ORGANIC MULCHES.
- APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH

- 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 SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 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 ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED. TACKIFIERS, BINDERS, AND HYDRAULIC MULCH WITH TACKIFIER SPECIFICALLY DESIGNED FOR TACKING STRAW CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION Tac - TACKIFIERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
- POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

A1 DISTURBED AREA STABILIZATION (WITH MULCHING)

SCALE: N.T.S.

Ds1

A3 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

SCALE: N.T.S.

A3

Ds2

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.          |                                                      |                              |                                                                                            |
| Oats, in mixtures      | 0.7 lbs.                | 1 bu.          | 15 Sept. – 15 Nov.                                   | 15 Sept. – 15 Nov.           | 15 Sept. – 15 Nov.                                                                         |
| Rye (grain), alone     | 3.9 lbs.                | 3 bu.          |                                                      |                              |                                                                                            |
| Rye, in mixtures       | 0.6 lbs.                | 0.5 bu.        | 15 Aug. – 31 Oct.                                    | 15 Sept. – 30 Nov.           | 1 Oct. – 31 Dec.                                                                           |
| Ryegrass               | 0.9 lbs.                | 40 lbs.        |                                                      |                              |                                                                                            |
| 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.          | 15 Sept. – 30 Nov.                                   | 1 Oct. – 15 Dec.             | 15 Oct. – 31 Dec.                                                                          |
| Wheat, in mixtures     | 0.7 lbs.                | 0.5 bu.        |                                                      |                              |                                                                                            |

- 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 "TACKIFIERS AND BINDERS" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
- SEEDING RATES ARE BASED ON PURE LIVE SEED (PLS).

TABLE 2. FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

| Types of Species                   | Planting Year | Fertilizer (N-P-K) | Rate (lbs./acre) | N Top Dressing Rate (lbs./acre) |
|------------------------------------|---------------|--------------------|------------------|---------------------------------|
| Cool season grasses                | First         | 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                              |
| 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&S 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 1/4"-1/2" DEEP.
- APPLY IN ACCORDANCE WITH SPECIFICATIONS ON THE E&S 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.



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Suite 500  
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Georgia 30092

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FOR/AR SEAL



GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

EROSION AND  
SEDIMENT  
CONTROL  
DETAILS

SHEET NUMBER

CE501

SHEET 24 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"



C

## Ds3

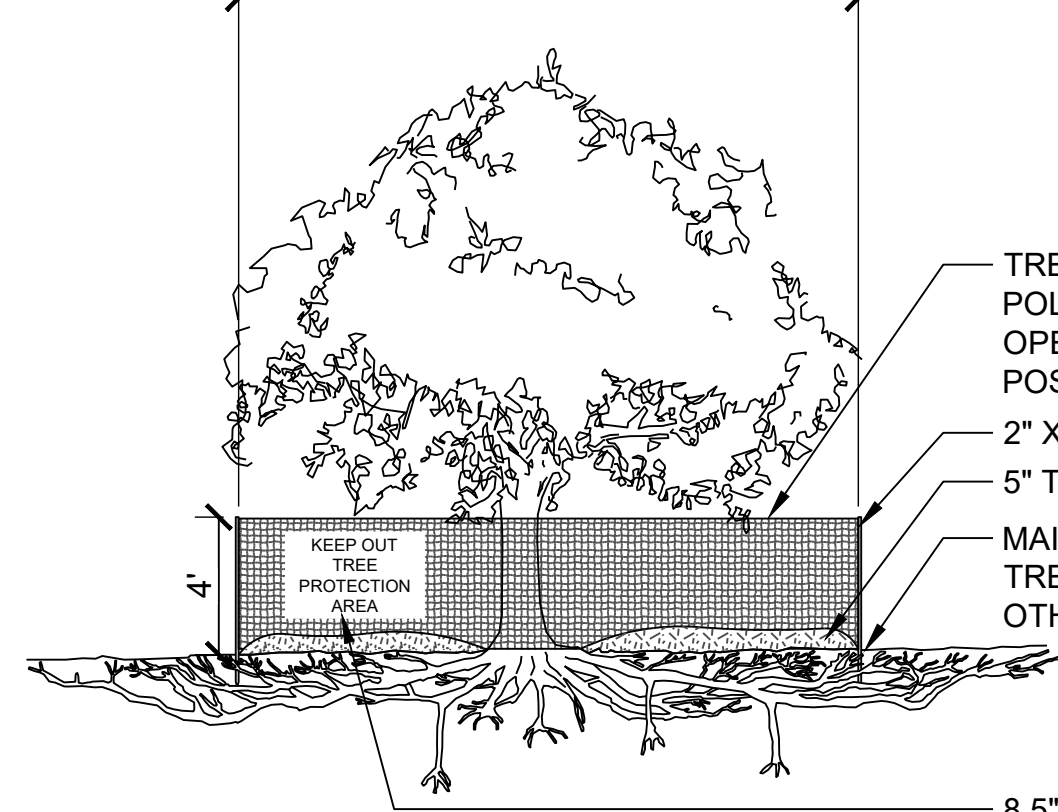
- 1/ APPLY IN SPRING FOLLOWING SEEDING.
- 2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED
- 3/ APPLY IN 3 SPLIT APPLICATIONS.
- 4/ APPLY WHEN PLANTS ARE PRUNED.
- 5/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.



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CROWN DRIP LINE OR OTHER LIMIT OF TREE PROTECTION AREA.

SEE CE101 FOR FENCE ALIGNMENT.



TREE PROTECTION FENCE: HIGH DENSITY POLYETHYLENE FENCING WITH 3.5' X 1.5" OPENINGS; COLOR - ORANGE. STEEL POSTS INSTALLED AT 8' O.C.  
2" X 6' STEEL POSTS OR APPROVED EQUAL  
5" THICK LAYER OF MULCH  
MAINTAIN EXISTING GRADE WITH THE TREE PROTECTION FENCE UNLESS OTHERWISE INDICATED ON THE PLANS

8.5" X 11" SIGN LAMINATED IN PLASTIC SPACED EVERY 50' ALONG THE FENCE

SECTION VIEW

NOTES:

- SEE CS101 FOR LIMITS OF ORANGE TREE PROTECTION FENCE.
- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
- NO EQUIPMENT SHALL OPERATE INSIDE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
- SEE SITE PREPARATION FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

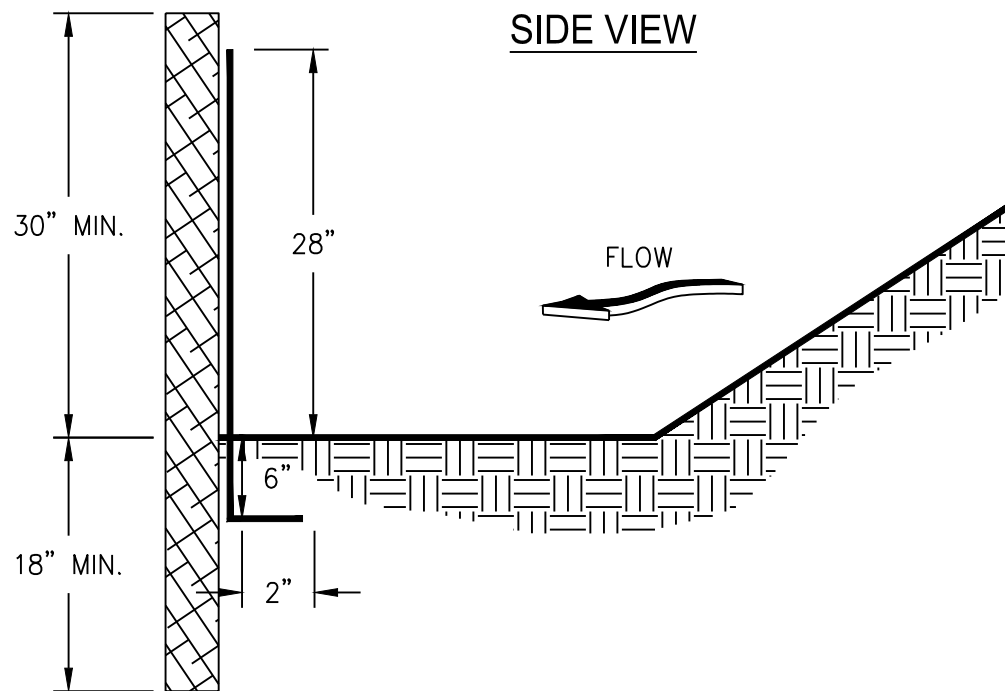
## C1 ORANGE TREE PROTECTION

SCALE: N.T.S.

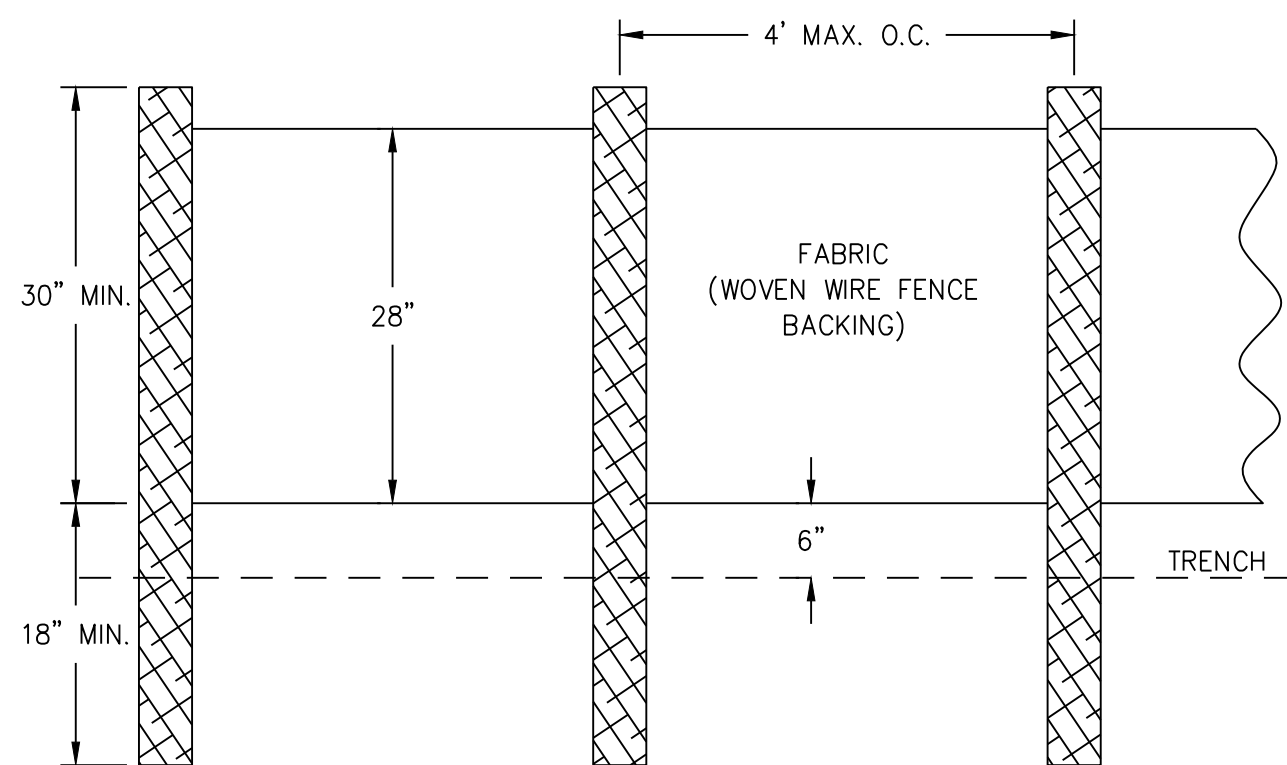
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## SILT FENCE - TYPE SENSITIVE

SIDE VIEW



FRONT VIEW



NOTES:

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

## A1 SILT FENCE - SENSITIVE

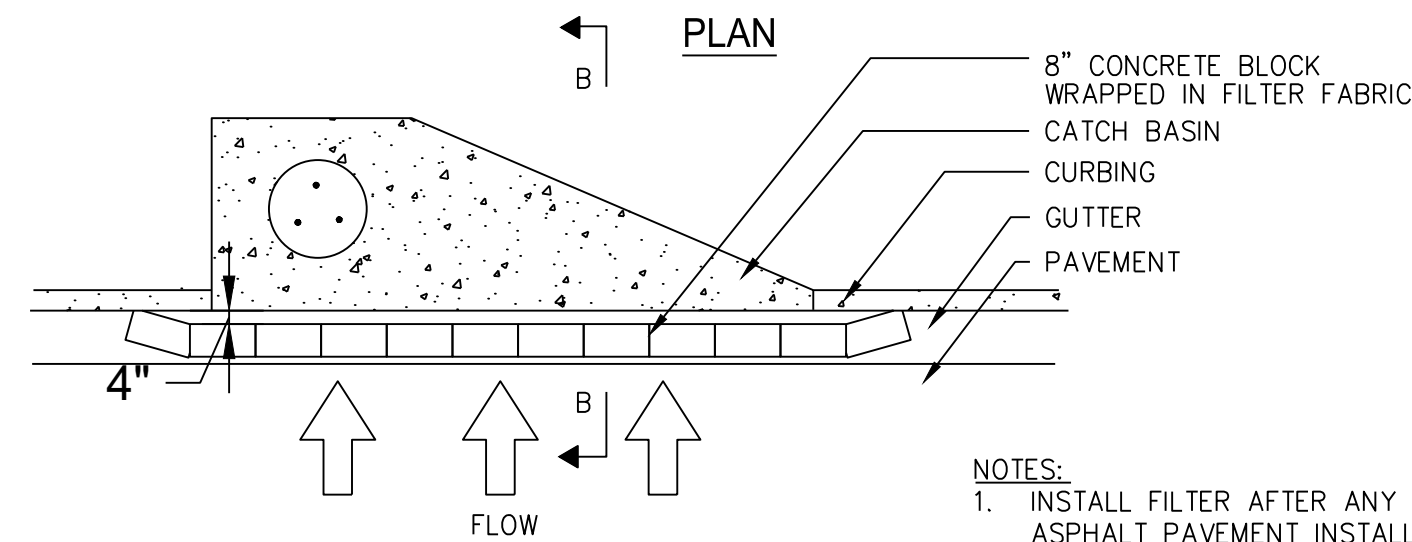
SCALE: N.T.S.

Sd1-S

| SILT FENCE CALCULATIONS | PHASE I |         | PHASE II |         |
|-------------------------|---------|---------|----------|---------|
|                         | AREA    | LENGTH  | AREA     | LENGTH  |
| AREA DISTURBED          | 0.23    | 0.23    | 0.23     | 0.23    |
| STORAGE REQUIRED (CY)   | 15      | 15      | 15       | 15      |
| STORAGE PROV/50' (CF) * | 126     | 126     | 126      | 126     |
| SF PROVIDED (LF)        | 267     | 421     | 267      | 421     |
| STORAGE PROVIDED (CF)   | 672.84  | 1060.92 | 672.84   | 1060.92 |
| STORAGE PROVIDED (CY)   | 25      | 39      | 25       | 39      |
| LENGT REQUIRED (LF)     | 33      | 33      | 33       | 33      |

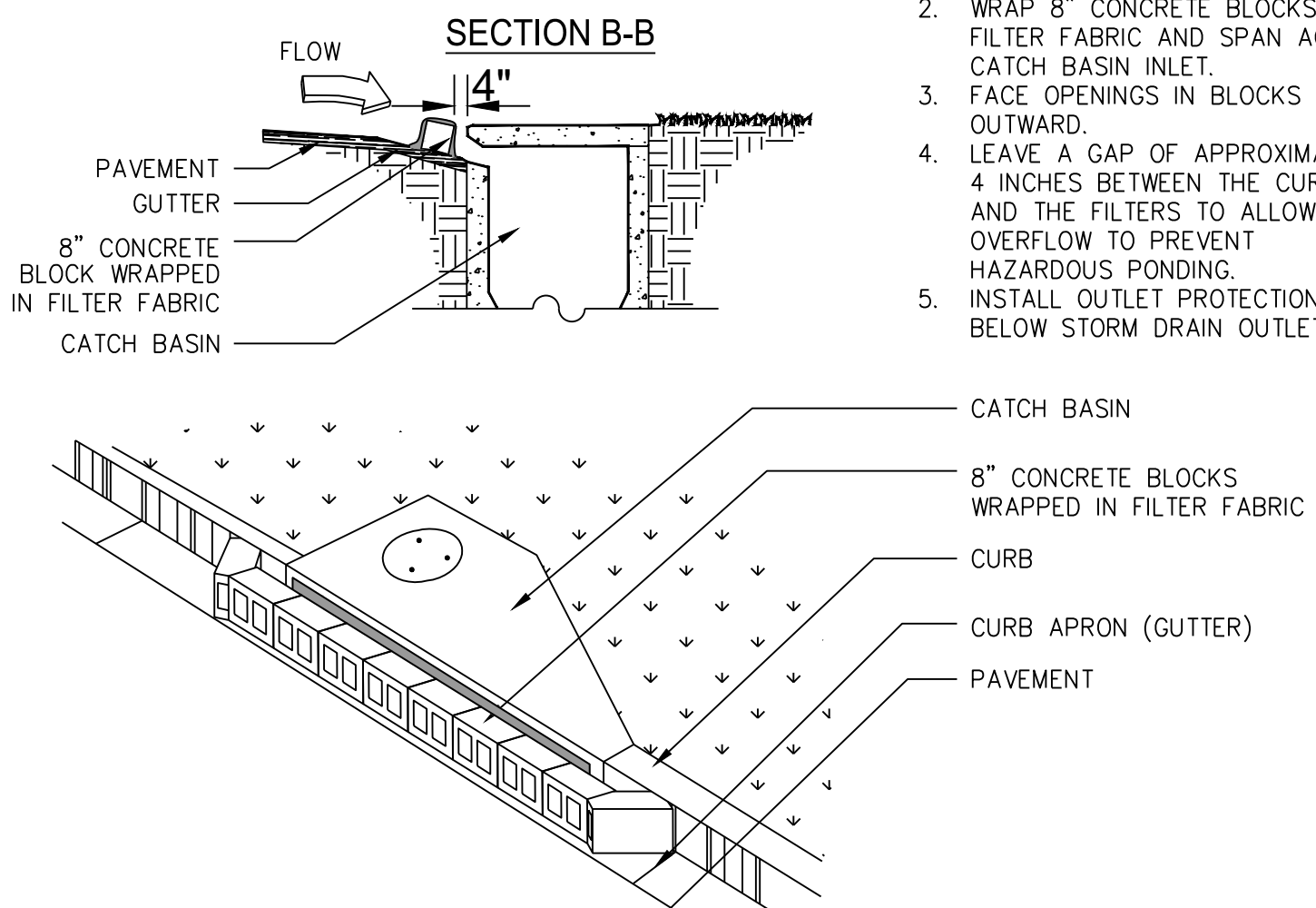
\*BASED ON USDA RMRS-GTR-94, APPENDIX A, 1.5' HEIGHT, 35% SLOPE

## CURB INLET FILTER "PIGS IN BLANKET"



NOTES:

- INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
- WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
- FACE OPENINGS IN BLOCKS OUTWARD.
- LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
- INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.



## A3 CURB INLET FILTER

SCALE: N.T.S.

Sd2-P

**POND**

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GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

## FAYETTE COUNTY

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
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FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

EROSION AND  
SEDIMENT  
CONTROL  
DETAILS

SHEET NUMBER

**CE503**

SHEET 26 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION







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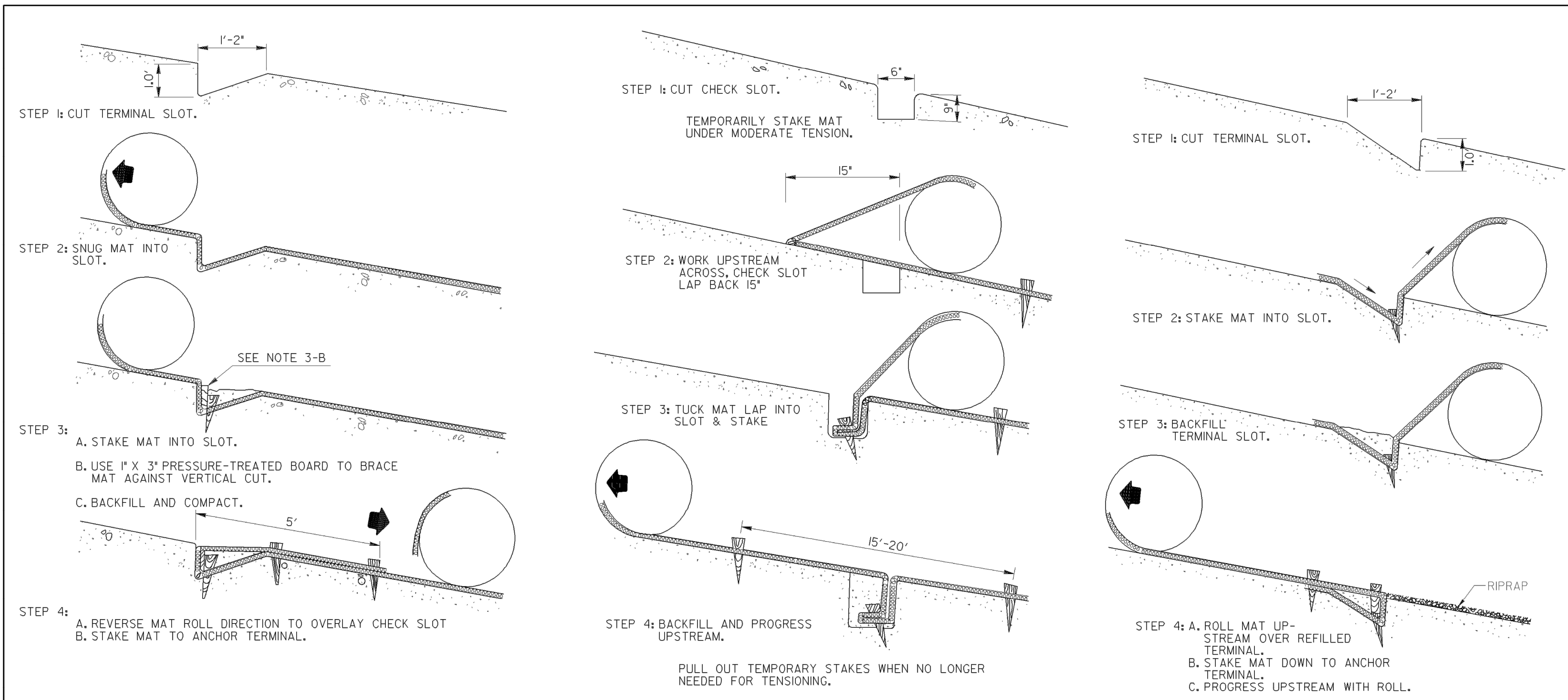
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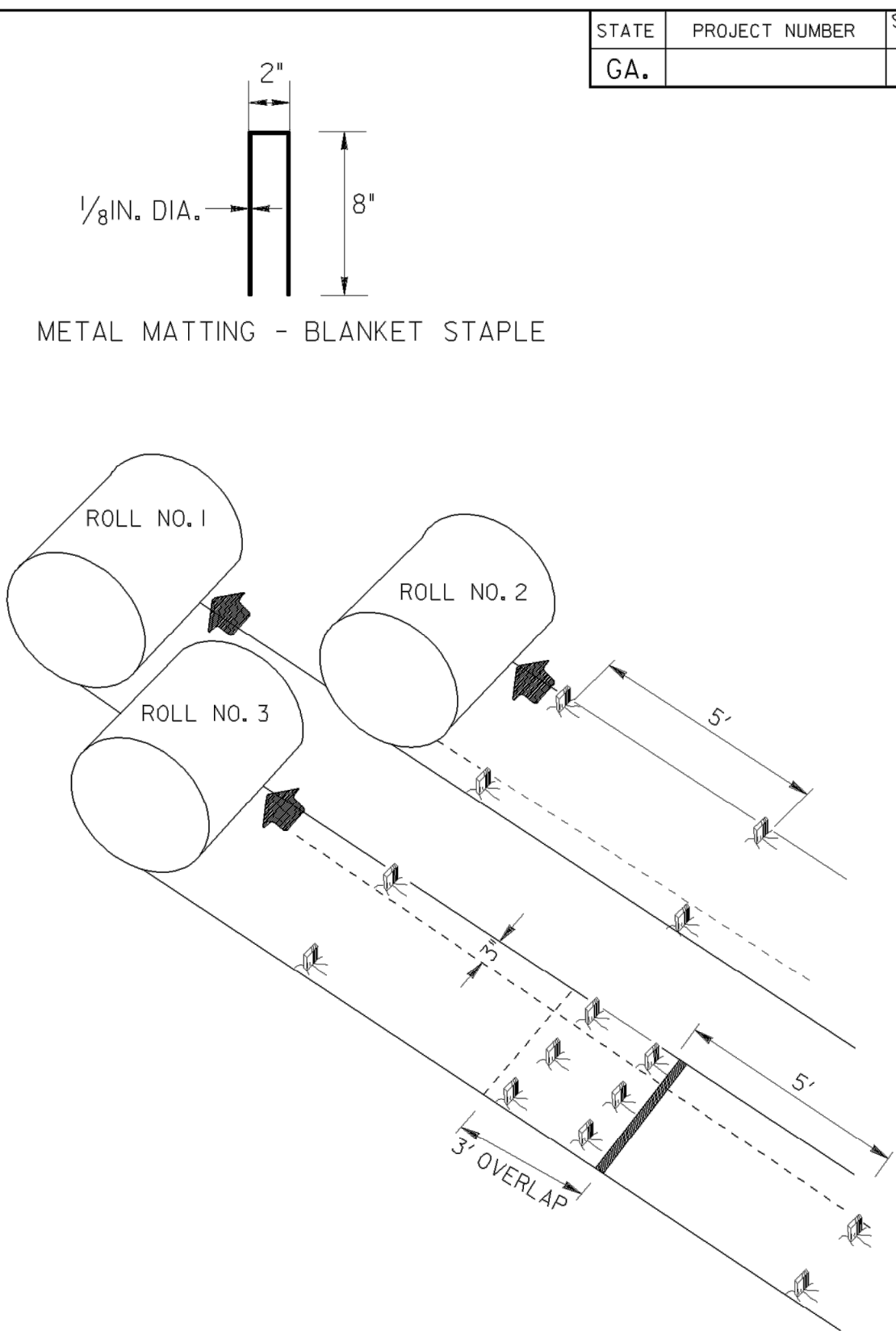
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UPSTREAM TERMINAL

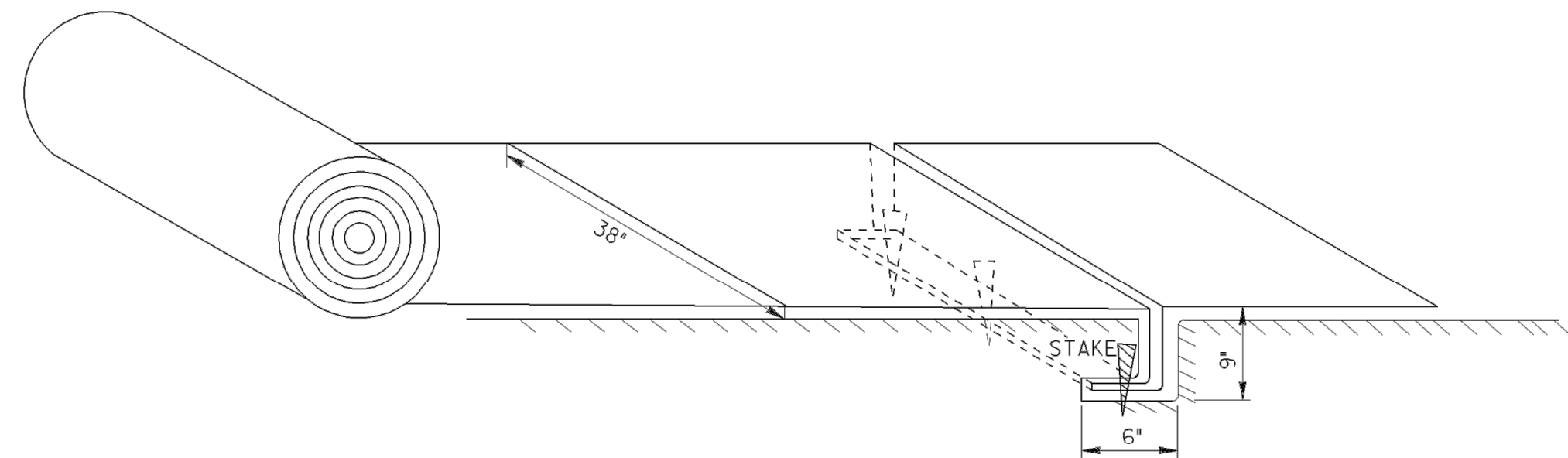
TRANSVERSE CHECK SLOT

DOWNSTREAM TERMINAL

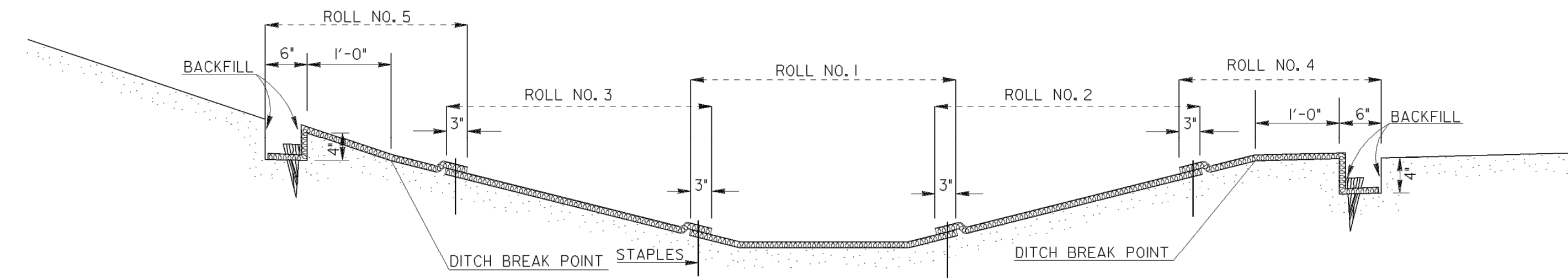


SEQUENTIAL ROLL RUN OUT IN CHANNELS

- GENERAL NOTES
1. INSTALLATION TO BE DONE AS PER MANUFACTURER'S RECOMMENDATIONS.
  2. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
  3. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
  4. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND FIRST ROLL. USE CENTER ROLL FOR ALIGNMENT TO CHANNEL CENTER.
  5. WORK OUTWARDS FROM CHANNEL CENTER TO EDGE.
  6. USE 3' OVERLAP AND STAKE AT 5' INTERVAL ALONG SEAMS.
  7. USE 3' OVERLAPS AND SHINGLE DOWNSTREAM TO CONNECT LINING AT ROLL ENDS.
  8. METAL STAPLES MAY BE USED IN LIEU OF WOODEN STAKES.



PICTORAL VIEW OF TRANSVERSE SLOT



DITCH SECTION

NOTE: MAT TO BE PLACED ONE FOOT ABOVE DITCH BREAK POINT OR ONE FOOT ABOVE THE 25 YEAR STORM.

|                                                                                |  |  |  |                     |  |
|--------------------------------------------------------------------------------|--|--|--|---------------------|--|
| DEPARTMENT OF TRANSPORTATION                                                   |  |  |  | STATE OF GEORGIA    |  |
| CONSTRUCTION DETAILS                                                           |  |  |  | AUGUST 1988         |  |
| PERMANENT SOIL REINFORCING MAT (TURF REINFORCING MATS) INSTALLATION ON DITCHES |  |  |  | NUMBER D-35         |  |
| NO SCALE                                                                       |  |  |  | DESIGNED BY: K.L.W. |  |
| T.P.C. REVISED SHEET LAYOUT & ADDED DITCH SECTION                              |  |  |  | DRAWN BY: K.L.W.    |  |
| METAL STAPLE                                                                   |  |  |  | TRACED BY: K.L.W.   |  |
| BY: K.L.W.                                                                     |  |  |  | CHECKED BY: K.L.W.  |  |

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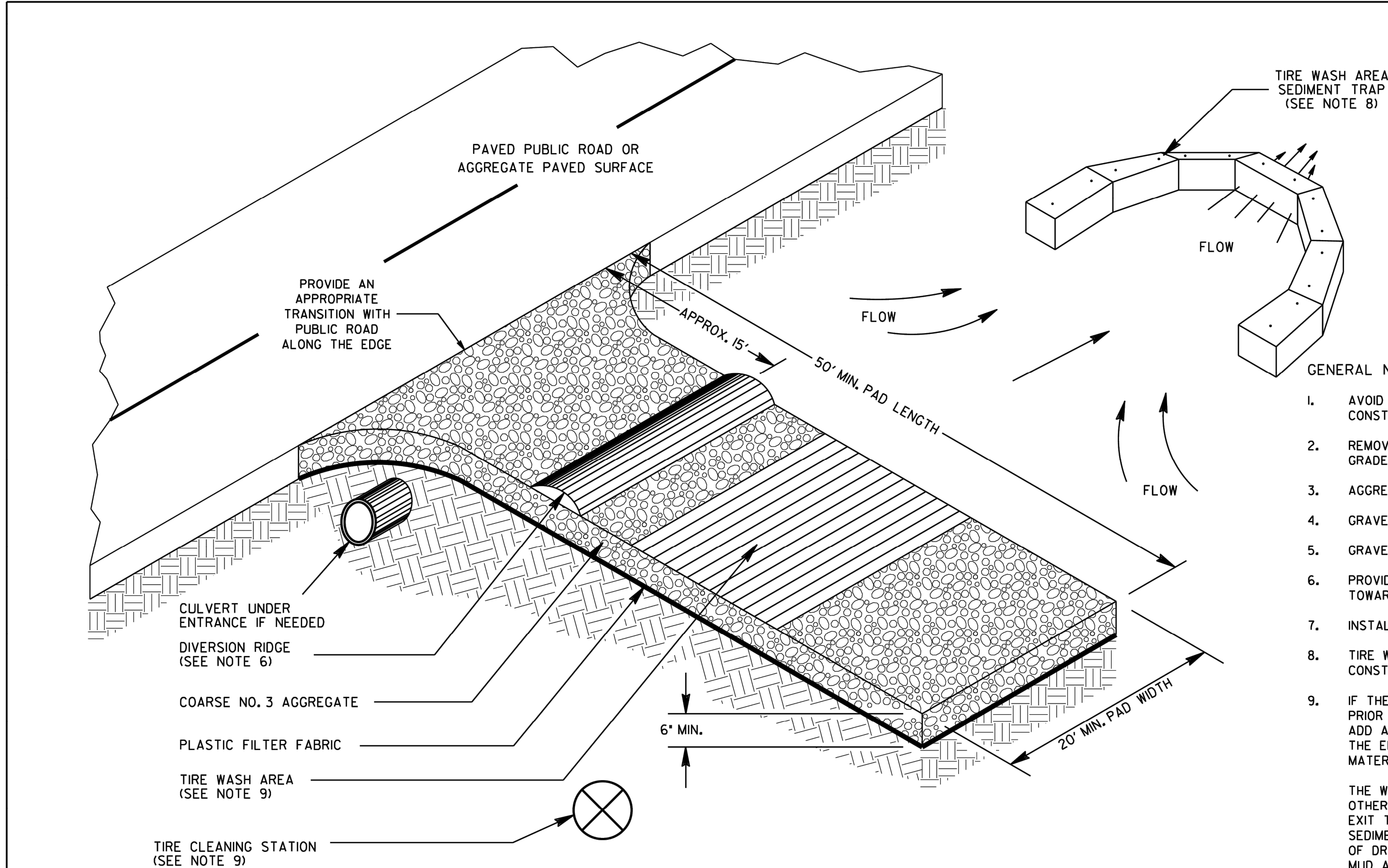
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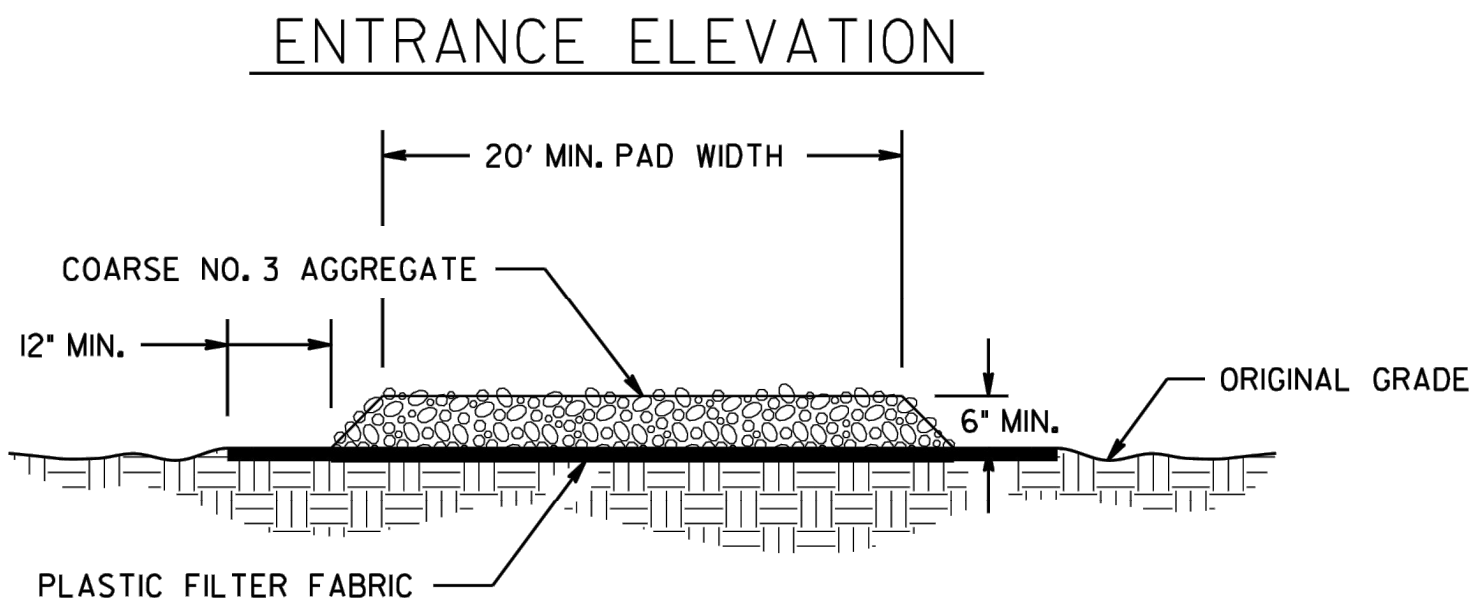
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GENERAL NOTES:

1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
  2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE FOR POSITIVE DRAINAGE.
  3. AGGREGATE SIZE SHALL BE COARSE NO. 3 AGGREGATE WITH 0.0% PASSING THE 1.06 INCH U.S. STANDARD SIEVE.
  4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND PLACED ON APPROVED PLASTIC FILTER FABRIC.
  5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
  6. PROVIDE A TRAVERSABLE DIVERSION RIDGE CONSTRUCTED OF AGGREGATE 6 INCHES TO 8 INCHES HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
  7. INSTALL CULVERT UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
  8. TIRE WASH AREA INCLUDES SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE AND SHALL BE CONSTRUCTED EVEN IF CONSTRUCTION EXIT TIRE CLEANING STATION IS NOT USED.
  9. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROADS THUS DICTATING ADDITIONAL TIRE CLEANING MEASURES, THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE CLEANING STATION TO AN EXISTING CONSTRUCTION EXIT OR WHEN DIRECTED BY THE ENGINEER, THE CONSTRUCTION EXIT TIRE CLEANING STATION INCLUDES: WATER SOURCE, LABOR AND ALL MATERIALS NECESSARY TO PERFORM TASK, THIS WILL BE PAID FOR AS SHOWN IN SECTION 163.  
  
THE WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE THAT DRAINS INTO A SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE CONSTRUCTION EXIT TO THE SEDIMENT CONTROL DEVICE. ACCEPTABLE SEDIMENT STORAGE DEVICE EXAMPLES INCLUDE TEMPORARY SEDIMENT TRAPS, HAY BALES OR STONE FILTER RING WITH THE SEDIMENT STORAGE SIZED FOR 67 CUBIC YARDS PER ACRE OF DRAINAGE. TIRE WASHING SHALL BE DONE MANUALLY OR BY EQUIPMENT SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
  10. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
  11. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. MAINTENANCE OF CONSTRUCTION EXIT MAY BE PAID WITH OR WITHOUT THE MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA. WHEN DIRECTED BY THE ENGINEER, ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- SEE SECTION 163 FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE SECTION 165 FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

|           |                                                 |                                             |  |
|-----------|-------------------------------------------------|---------------------------------------------|--|
| PAY ITEM: |                                                 |                                             |  |
| 163-0301  | CONSTRUCT AND REMOVE CONSTRUCTION EXITS         | (EA)                                        |  |
| 165-0101  | MAINTENANCE OF CONSTRUCTION EXIT                | (EA)                                        |  |
| 165-0310  | MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA | (EA)                                        |  |
| PAY ITEM: |                                                 | FOR FIELD USE ONLY ACCORDING TO SECTION 163 |  |
| 163-0310  | CONSTRUCTION EXIT TIRE CLEANING STATION         | (DAY)                                       |  |



|          |     |     |              |                        |                                                  |  |
|----------|-----|-----|--------------|------------------------|--------------------------------------------------|--|
| HAC      | REV | GEN | NOTES # 8-11 | 11-04-20               | DEPARTMENT OF TRANSPORTATION<br>STATE OF GEORGIA |  |
|          |     |     |              | REV. PAY ITEM          |                                                  |  |
|          |     |     |              | REV. TIRE WASH & NOTES |                                                  |  |
|          |     |     |              | REV. GSWCC 2016 MANUAL |                                                  |  |
| DLE      |     |     |              | 04-18-18               | CONSTRUCTION DETAILS                             |  |
| DLE      |     |     |              | 04-22-16               |                                                  |  |
| TPC      |     |     |              | 01-19-11               |                                                  |  |
|          |     |     |              | 01-19-11               |                                                  |  |
| REVISION |     |     |              |                        | CONSTRUCTION EXIT                                |  |
|          |     |     |              |                        | NO SCALE                                         |  |
|          |     |     |              |                        | FEBRUARY 2001                                    |  |
|          |     |     |              |                        | NUMBER D-41                                      |  |

**A1** CONSTRUCTION EXIT

SCALE: N.T.S.

Co

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Georgia 30092  
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FOR/ATOR SEAL  
**GEORGIA**  
REGISTERED  
PROFESSIONAL  
ENGINEER  
08/08/2025  
ALAN OWEN  
GSWCC# 95439,  
EXP. 9/10/2027  
CLIENT INFORMATION

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

PROJECT NAME

250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE

**EROSION AND  
SEDIMENT  
CONTROL  
DETAILS**

SHEET NUMBER

**CE506**

SHEET 29 OF 30

ORIGINAL SHEET SIZE:  
22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION



FILE PATH: X:\FY25\250210\07 CAD-BIM\07 02 CAD\CIVIL\CE501 PLOTTED BY: URUETA, JUAN DATE: 8/8/25

**POND**  
3500 Parkway Lane  
Suite 500  
Peachtree Corners  
Georgia 30092  
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FOR/AOR SEAL

CODY ALAN OWEN  
ENGINEER  
GSWCC# 95439,  
EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME  
  
250  
GREENFIELD  
CIRCLE  
CULVERT  
REPLACEMENT  
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

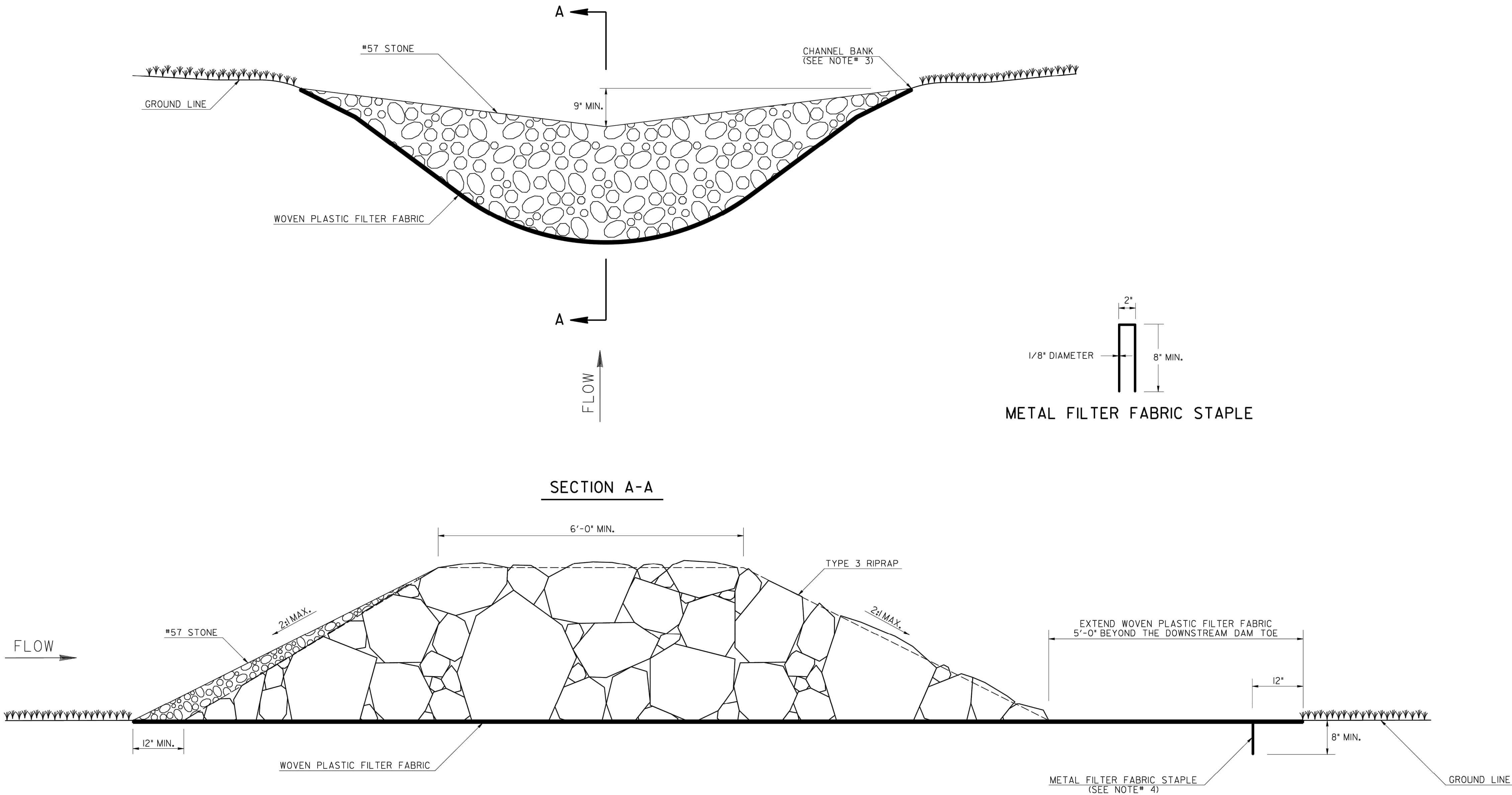
MARK

DESIGNED BY: CAO  
DRAWN BY: JCU/CAH  
CHECKED BY: DMM  
SUBMITTED BY: DMM  
DATE: AUGUST 8, 2025  
PROJECT # 1250210

SHEET TITLE  
**EROSION AND  
SEDIMENT  
CONTROL  
DETAILS**

SHEET NUMBER  
**CE507**  
SHEET 30 OF 30  
ORIGINAL SHEET SIZE:  
22" X 34"

| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|-------|----------------|-----------|--------------|
| GA.   |                |           |              |



GENERAL NOTES:

- THE MAXIMUM DRAINAGE AREA TO A ROCK FILTER DAM SHALL BE 50-ACRES.
- ROCK FILTER DAMS SHALL NOT BE INSTALLED IN STATE WATERS.
- THE ROCK FILTER DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS OR ADVERSELY IMPACT UPSTREAM PROPERTY OR STATE WATERS WITH BACKWATER. THE CENTER OF THE ROCK FILTER DAM SHOULD BE AT LEAST 9-INCHES LOWER THAN THE OUTER EDGES OF THE ROCK FILTER DAM AT THE CHANNEL BANKS.
- ANCHOR THE WOVEN PLASTIC FILTER FABRIC TO THE GROUND SURFACE WITH METAL FILTER FABRIC STAPLES 12-INCHES FROM THE EDGE AND NO GREATER THAN 12-INCHES APART.
- REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE ROCK FILTER DAM. WOVEN PLASTIC FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED.

PAY ITEMS:  
163-0541 CONSTRUCT AND REMOVE ROCK FILTER DAM (EA)  
165-0110 MAINTENANCE OF ROCK FILTER DAM (EA)

| DEPARTMENT OF TRANSPORTATION<br>STATE OF GEORGIA |          |                                         |                |
|--------------------------------------------------|----------|-----------------------------------------|----------------|
| DATE                                             | REVISION | CONSTRUCTION DETAILS<br>ROCK FILTER DAM |                |
|                                                  |          | NO SCALE                                | 4-22-2016      |
| BY                                               |          |                                         | NUMBER<br>D-43 |

**A1** ROCK FILTER DAM  
SCALE: N.T.S.

Rd

100% SUBMITTAL - ISSUED FOR CONSTRUCTION