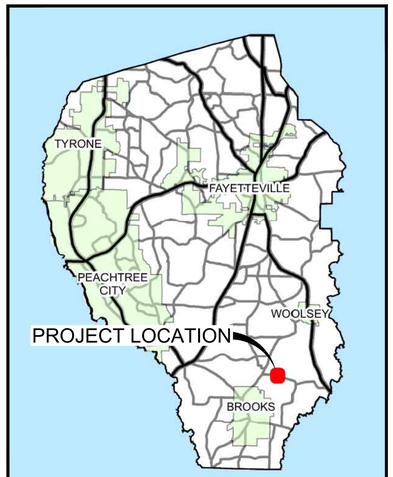
CIVIL CONSTRUCTION DOCUMENTS FOR

FAYETTE COUNTY

250 GRANT ROAD - CULVERT REPLACEMENT

250 GRANT ROAD, FAYETTE COUNTY, GA.

COUNTY PROJECT NUMBER: 25SAD



VICINITY MAP
SCALE: NTS

UTILITY NOTIFICATION/RELOCATION CHECKBOX				
UTILITY COMPANY	PLAN PHASE	CONTACT	DATE NOTIFIED	UTILITY RESPONSE
SOUTHERN COMPANY	35% DESIGN	MFLOYD@SOUTHERNCO.COM TAGALLAND@SOUTHERNCO.COM	N/A	
	95% DESIGN		8/4/2025	NO RESPONSE
FAYETTE COUNTY WATER SYSTEM (FCWS)	35% DESIGN	TERRY BOGGS (WATERSYSTEMDEVELOPMENT@FAYETTECOUNTYGA.GOV)	N/A	
	95% DESIGN		8/4/2025	NO RESPONSE
COMCAST	35% DESIGN	STEPHEN ADAMS (STEPHEN_ADAMS@COMCAST.COM)	N/A	
	95% DESIGN		8/4/2025	NO RESPONSE
COWETA-FAYETTE EMC	35% DESIGN	STEVE JONES (STJONES@UTILITY.ORG)	N/A	
	95% DESIGN		8/4/2025	NO RESPONSE
ATT	35% DESIGN	ANDRE WALTON (AW9750@ATT.COM) JERMAINE MEEKINS (JM0840@ATT.COM)	N/A	
	95% DESIGN		8/18/2025	SUPPORTING IN PLACE IS ALLOWED. EX. DEPTH UNKNOWN. POTHOLING RECOMENDED
ZAYO	35% DESIGN	MAX SMITH (MAX.SMITH@COBBFENDLEY.COM) ZAYOGEORGIARELOCATIONS@COBBFENDLEY.COM	N/A	
	95% DESIGN		8/21/2025	NO FACILITIES

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

POND AND COMPANY
3500 PARKWAY LANE SUITE 500
PEACHTREE CORNERS, GA 30092
PHONE (678) 336-7740
FAX (678) 336-7744
WEB: www.pondco.com

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF REMOVING THE EXISTING DETERIORATED 60-INCH DIAMETER CMP CULVERT. THE CULVERT IS TO BE REPLACED WITH A 47 LINEAR FOOT 73" X 45" ARCH PIPE CULVERT.

PROJECT INFORMATION:

APPROXIMATE ADT:
380 (SOURCE: DRAKEWELL US SP03 GDOT)

DISTURBED AREA:
0.25 ACRES

IMPERVIOUS SURFACE AREA:
0.02 ACRES

PIPE CROSSING IN CENTER OF ROAD COORDINATES:
N33.31998°, W84.43590°

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.

Sheet List Table	
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G-001	COVER SHEET
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C-002	GENERAL CIVIL NOTES
V-001	TOPOGRAPHIC SURVEY
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CG101	SITE AND GRADING PLAN
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CE001	EROSION AND SEDIMENT CONTROL NOTES
CE002	EROSION AND SEDIMENT CONTROL NOTES
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CE101	EROSION AND SEDIMENT CONTROL PLANS - INITIAL PHASE
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CE501	EROSION AND SEDIMENT CONTROL DETAILS
CE502	EROSION AND SEDIMENT CONTROL DETAILS
CE503	EROSION AND SEDIMENT CONTROL DETAILS

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

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

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EOR/AOR SEAL
GEORGIA REGISTERED NO. PE047343 PROFESSIONAL ENGINEER CODY ALAN OWENBY 04/03/2026
GSWCC# 95439, EXP. 9/10/2027

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

PROJECT NAME
250 GRANT ROAD CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE
DATE
DESCRIPTION
MARK

DESIGNED BY: CAO
DRAWN BY: JCU/CAH/LS
CHECKED BY: COA
SUBMITTED BY: TT
DATE: JANUARY 6, 2026
PROJECT # 1250121

SHEET TITLE
COVER SHEET

SHEET NUMBER
G-001
SHEET 1 OF 18

ORIGINAL SHEET SIZE: 22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

FILE PATH: X:\FY25\1250121\07.CAD-BIM\07.02 CAD\CIVIL\G-001 PLOTTED BY: HENAO, CESAR DATE: 1/7/26

ABBREVIATIONS

AAP	ALARM ANNUNCIATOR PANEL AUTOMATIC
AARV	AIR RELEASE VALVE AUTOMATIC
AAV	AIR VENT
AB	ANCHOR BOLT
ABAN	ABANDON(ED)
ABRSV	ABRASIVE
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE
AC	ALTERNATING CURRENT
ACCMP	ASPHALT-COATED CORRUGATED METAL PIPE
ACP	ASBESTOS CEMENT PIPE
ADDM	ADDENDUM
ADH	ADHESIVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AHD	AHEAD
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMT	AMOUNT
APRX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
AS	ALUM SOLUTION
ASPH	ASPHALT
ASSY	ASSEMBLY
AVE	AVENUE
A/C	AIR CONDITIONING
A/VV	AIR/VACUUM AIR VALVE
BAF	BAFFLE
BCV	BALL CHECK VALVE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BI	BLACK IRON
BITUM	BITUMINOUS OR BITUMASTIC
B/L	BASELINE
BLDG	BUILDING
BLK	BLOCK
BM	BENCH MARK
BOC	BACK OF CURB
BOT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BSP	BLACK STEEL PIPE
BV	BALL VALVE
BW	BOTH WAYS
BWW	BACKWASH WATER
CAP	CAPACITY
CA	COMPRESSED AIR
CAV	COMBINATION AIR VALVE
CB	CATCH BASIN
CCC	CHLORINE CONTACT CHAMBER
CE	CHLORINATED EFFLUENT
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CV	CHECK VALVE
CI	CAST IRON
CIP	CAST IRON PIPE
CISP	CAST IRON SOIL PIPE
CJ	CONSTRUCTION JOINT
CKT	CIRCUIT
C/L	CENTER LINE
CL2	CHLORINE GAS
CLF	CHAIN LINK FENCE
CLR	CLEAR OR CLEARANCE
CLVT	CULVERT
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CNR	CORNER
CO	CLEAN OUT
CO2	CARBON DIOXIDE
COAG	COAGULANT
COL	COLUMN
COM	COMMON
CONC	CONCRETE
CONN	CONNECTION
CONSTR	CONSTRUCT(ION)
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
COORD	COORDINATE
CO	COMPANY
CP	CONCRETE PIPE
CPA	CONCRETE PIPE ARCH
CPLG	COUPLING
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CONCENTRIC REDUCER
CS	CHLORINE SOLUTION
CSG	CASING
CTV	CABLE TELEVISION
CY	CUBIC YARD
CYL	CYLINDER
C&G	CURB AND GUTTER
C/C	CENTER TO CENTER
DAT	DATUM
DBL	DOUBLE
DC	DIRECT CURRENT
DEMO	DEMOLITION
DEPT	DEPARTMENT
DESC	DESCRIPTION
DET	DETAIL
DF	DIESEL FUEL
DI	DUCTILE IRON
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DISCH	DISCHARGE
DIR	DIRECTION
DMH	DROP MANHOLE
DN	DOWN
DR	DRAIN
DV	DIAPHRAGM VALVE
DW	DRIVEWAY
DWG	DRAWING
DWV	DRAIN, WASTE, AND VENT

E	EAST
EA	EACH
ECC	ECCENTRIC
EF	EACH FACE
EFF	EFFLUENT
E/L	EASEMENT LINE
EL	ELEVATION
ELAST	ELASTOMERIC
ELEC	ELECTRICAL
EMER	EMERGENCY
EMC	ENCASE(MENT)
ENGR	ENGINEER
EP	EDGE OF PAVEMENT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPRF	EXPLOSION PROOF
EQUIP	EQUIPMENT
ER	ECCENTRIC REDUCER
ESTM	EASEMENT
EST	ESTIMATE(D)
EW	EACH WAY
EXC	EXCAVATE
EXP	EXPANSION
EXST	EXISTING
EXST	EXISTING GRADE
EXT	EXTERIOR
EXTN	EXTENSION
FAB	FABRICATE(D)
FCA	FLANGED COUPLING ADAPTER
FB	FLAT BAR
FCV	FLOW-CONTROL VALVE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FILTER(ED) EFFLUENT
FHY	FIRE HYDRANT
FIG	FIGURE
FIN	FINISH(ED)
FIN/FLR	FINISH FLOOR
FIN/GR	FINISH GRADE
FL	FLUORIDE
FLG	FLANGE(D)
FLL	FLOW LINE
FLTR	FILTER
FM	FORCE MAIN
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT OR FEET
FUT	FUTURE
FV	FOOT VALVE
FW	FINISHED WATER
FWP	FACTORY WIRED PANEL
F/F	FACE TO FACE
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GIP	GALVANIZED IRON PIPE
GJ	GROOVE JOINT
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GR	GRADE
GRTG	GRATING
GS	GALVANIZED STEEL
GSP	GALVANIZED STEEL PIPE
GSR	GROUND STORAGE RESERVOIR
GST	GROUND STORAGE TANK
GT	GROUT
GV	GATE VALVE
HB	HOSE BIBB
HD	HEAVY-DUTY
HDPE	HIGH-DENSITY POLYETHYLENE
HDR	HYDRAULIC
HFA	HYDROFLUOSILICIC ACID
HGR	HANGER
HGT	HEIGHT
HNDRL	HAND RAIL
HOA	HAND-OFF-AUTO
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPA	HIGH PRESSURE AIR
HR	HOUR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HWL	HIGH WATER LEVEL
HWY	HIGWAY
HZ	HERTZ
ID	INSIDE DIAMETER
IN	INCH(ES)
INF	INFLUENT
INT	INTERSECTION
INTR	INTERIOR
INV	INVERT
IP	IRON PIPE
IPS	INTERNATIONAL PIPE STANDARD
IR	INTERNAL RECYCLE
IW	IRRIGATION WATER
JB	JUNCTION BOX
JT	JOINT
K	KIP (1,000 LB)
K	KICK PLATE
KPL	KILOVOLT
KV	KILOVOLT-AMPERE
KVA	KILOWATT
KW	KILOWATT-HOUR
KWH	
L	LEFT
L	LABORATORY
LAB	LAMINATE OR LAMINATION
LAM	LATERAL
LATL	LAVATORY
LAV	

LEN	LEN LENGTH
LB	POUND(S)
LF	LINEAR FEET
LP	LIGHT POLE
LS	LIME SLURRY
LSS	LIME STABILIZED SLUDGE
LVR	LOUVER
LWL	LOW WATER LEVEL
M	METER
MAINT	MAINTAIN OR MAINTENANCE
MAN	MANUAL(LY)
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
ME	MITERED END
MECH	MECHANICAL
MEG	MATCH EXISTING GRADE
MFR	MANUFACTURE(R)
MG	MILLION GALLONS
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MI	MILE(S)
MIN	MINIMUM, MINUTE(S)
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
ML	MIXED LIQUOR
MO	MASONRY OPENING
MON	MONUMENT
MPH	MILES PER HOUR
MPT	MALE PIPE THREAD
MS	MOTOR STARTER
MSP	MOTOR STARTER PANEL
MTD	MOUNTED
MV	MOTORIZED VALVE
MW	MANWAY
MWL	MEAN WATER LEVEL
MWP	MAXIMUM WORKING PRESSURE
N	NORTH
NaOCl	SODIUM HYPOCHLORITE
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPF	NATIONAL PIPE THREAD
NPT	NATIONAL PIPE TAPER (THREAD)
NPW	NON-POTABLE WATER
NRS	NON-RISING SYSTEM
NTS	NOT TO SCALE
NW	NORTHWEST
N/A	NOT APPLICABLE
O2	OXYGEN
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODP	OPEN DRIP PROOF
OF	OUTSIDE FACE
OH	OVER HEAD
OHW	OVER HEAD WIRE
OPP	OPPOSITE
OPT	OPTIONAL
OR	OFFICIAL RECORDS
OSY	OUTSIDE SCREW AND YOKE
O&M	OPERATION AND MAINTENANCE
PA	PROCESS AIR
PC	POINT OF CURVE
PCM	PERMANENT CONTROL MONUMENT PLAIN END
PE	PRESSURE GAGE
PG	POINT OF INTERSECTION
PI	PLATE
PL	PROPERTY LINE
P/L	PINCH VALVE
PNV	POINT OF BEGINNING
POB	PUSH-ON JOINT
POJ	POLYMER
POL	POWER POLE
PP	POUNDS PER DAY
PPD	PARTS PER MILLION
PPM	PREFABRICATED
PREFAB	PRESSURE
PRESS	PRESSURE REDUCING VALVE
PRV	PROCESS WATER
PRW	POUNDS PER SQUARE FOOT
PSF	POUNDS PER SQUARE INCH
PSI	POUNDS PER SQUARE INCH ABSOLUTE
PSIA	POUNDS PER SQUARE INCH GAGE POINT OF TANGENCY
PSIG	PLUG VALVE
PT	POLYVINYL CHLORIDE
PV	PAVEMENT
PVC	POTABLE WATER
PVMT	PWR POWER
PW	
PWR	
Q	FLOW
Q	QUANTITY
QTY	
RAD	RADIUS
RAS	RETURN ACTIVATED SLUDGE
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
RDCR	REDUCER
REBAR	REBAR REINFORCING STEEL REF
REF	REFERENCE
REINF	REINFORCE(D)(ING)(MENT)
REM	REMOVE(ABLE)
REQ'D	REQUIRED
RF	RAISED FACE
RJ	RESTRAINED JOINT
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RT	RIGHT
RVT	RIVETED
RW	RAW WATER
RWW	RAW WASTEWATER
R/W	RIGHT-OF-WAY
S	SOUTH
SA	SAMPLE LINE
SAN	SANITARY
SCHED	SCHEDULE
SD	STORM DRAIN
SE	SOUTHEAST
SECT	SECTION
SEFF	SECONDARY EFFLUENT
SF	SQUARE FOOT OR FEET
SHT	SHEET(ED)(ING)
SIG	SIGNAL
SIM	SIMILAR
SL	SLUDGE
SLV	SLEEVE
SM	SHEET METAL
SOLN	SOLUTION
SP	SOIL PIPE, SPACE(ING)
SPEC	SPECIFICATION
SPRT	SUPPORT
SQ	SQUARE
SS	SANITARY SEWER
SSE	SUBSTANDARD EFFLUENT
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STK	STAKE
STL	STEEL
STR	STRAIGHT
STRUCT	STRUCTURAL
SURF	SURFACE
SV	SOLENOID VALVE
SVCE	SERVICE
SVW	SERVICE WATER
SW	SOUTHWEST
SWD	SIDEWATER DEPTH
SWSH	SURFACE WASH
SYM	SYMBOL
SYMM	SYMMETRICAL
S/W	SIDEWALK
TAN TB	TANGENT TOP OF BEAM
TBM	TEMPORARY BENCH MARK TEST
TB-xx	BORING-xx (e.g. TB-1)
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TE	TOTALLY ENCLOSED
TEFC	TOTALLY ENCLOSED FAN COOLED
TEL	TELEPHONE
TENV	TOTALLY ENCLOSED NON-VENTILATED
THD	THREAD(ED)
THK	THICK(NESS
TLM	TELEMETRY
TOB	TOP OF BANK
TOC	TOP OF CURB
TOS	TOE OF SLOPE
TOT	TOTAL
TP	TELEPHONE POLE
TS	THICKENED SLUDGE
TV	TELEVISION
TYP	TYPICAL
T&B	TOP AND BOTTOM
UD	UNDERDRAIN
UG	UNDERGROUND
ULT	ULTIMATE
UN	UNION
UON	UNLESS OTHERWISE NOTED
UGE	UNDERGROUND ELECTRIC
UTC	UNDERGROUND TELEPHONE CABLE
UTIL	UTILITY
V	VOLT(S)
VAC	VACUUM
VAR	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WATT, WEST
WAS	WASTE ACTIVATED SLUDGE WALL
WCO	CLEAN OUT
WF	WIDE FLANGE
WH	WALL HYDRANT
WL	WATER LINE
WM	WATER MAIN
WP	WATER PROOF(ING),WORKING POINT
WPR	WORKING PRESSURE
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
WT	WEIGHT
WTP	WATER TREATMENT PLANT
WW	WASH WATER
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
WWTP	WASTEWATER TREATMENT PLANT
W/	WITH
W/O	WITHOUT
XFER	TRANSFER
YD	YD YARD(S)
YH	YARD HYDRANT
YR	YEAR(S)

CIVIL LEGEND

PROPOSED ITEM	DESCRIPTION
× 887.0	EXISTING SPOT ELEVATION
LOD LOD	LIMITS OF DISTURBANCE
N/A	EXISTING UNDERGROUND WATER LINE
	EXISTING STORM PIPE
	PROPOSED STORM PIPE
N/A	EXISTING INLET
N/A	PROPOSED WEIR INLET
	EXISTING HEADWALL
	PROPOSED HEADWALL
40	PROPOSED CONTOUR MAJOR
42	PROPOSED CONTOUR MINOR
N/A	EXISTING UNDERGROUND GAS LINE
N/A	EXISTING UNDERGROUND ELECTRIC LINE
CM	EXISTING UNDERGROUND COMMUNICATION LINE
	BENCHMARK
18"PINE	EXISTING TREE
LP	EXISTING LIGHT POLE
	EXISTING POWER LINE

HATCHING LEGEND

	ASPHALT PAVEMENT
	RIPRAP

REFERENCE SYMBOLS

DENOTES SECTION LETTER IDENTIFICATION

X

X-XX

DENOTES DRAWING NO WHERE SECTION IS LOCATED

SECTION REFERENCE

DENOTES SECTION LETTER IDENTIFICATION

X

SECTION

SCALE:

DENOTES DRAWING NO WHERE SECTION IS LOCATED

SECTION TITLE

DENOTES DETAIL NUMBER IDENTIFICATION

X

X-XX

DENOTES DRAWING NO WHERE DETAIL IS LOCATED

DETAIL REFERENCE

DENOTES DETAIL NUMBER IDENTIFICATION

X

DETAIL

SCALE:

DENOTES DRAWING NO WHERE DETAIL IS LOCATED

DETAIL TITLE

NOTE:

1. NOT ALL ABBREVIATIONS SHOWN WILL BE USED ON THIS PROJECT.

SHEET NAMING CONVENTION

C-001

2 DIGIT DESCIPLINE DESIGNATOR (IF ONLY ONE LETTER IS USED, THE SECOND LETTER IS REPLACED WITH A DASH "-" AS A PLACEHOLDER)**

1 DIGIT SHEET TYPE DESIGNATOR
0 - GENERAL
1 - PLANS
2 - PROFILES
3 - SECTIONS
4 - ENLARGED PLANS
5 - DETAILS
6 - SCHEDULES AND DIAGRAMS
7 - USER DEFINED
8 - USER DEFINED
9 - 3D VIEWS (ISO, PERSPECTIVES, PHOTOS)

2 DIGIT SEQUENTIAL # (01-99) (FIRST DIGIT INDICATES PLAN TYPE. SECOND DIGIT INDICATES FLOOR)

PROJECT CONTACTS:

CIVIL ENGINEER FOR THIS PROJECT IS:
POND & COMPANY
3500 PARKWAY LANE, SUITE 500
PEACHTREE CORNERS, GA 30092
P: (678) 336.7740
CONTACT: CODY OWENBY

SURVEYOR FOR THIS PROJECT IS:
GEOSURVEY, LTD.
1660 BARNES MILL ROAD
MARIETTA, GA 30062
P: (770) 795.9900
CONTACT: BRADLEY D. CASH

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

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Peachtree Corners
Georgia 30092

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EOR/AOR SEAL

GEORGIA
REGISTERED
CODY ALAN OWENBY
No. PE047343
PROFESSIONAL
ENGINEER
04/03/2026

GSWCC# 95439,
EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME

250 GRANT ROAD CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE

GENERAL CIVIL ABBREVIATIONS AND LEGEND

SHEET NUMBER

C-001

SHEET 2 OF 18

ORIGINAL SHEET SIZE:
22" X 34"

FILE PATH: X:\FY25\1250\1210\7.CAD-BIM\07.02 CAD\CIVIL\C-001 PLOTTED BY: HENAO, CESAR DATE: 1/7/26

GENERAL NOTES

1. BENCHMARK FOR CONSTRUCTION HAS BEEN PROVIDED ON SHEET V-001.
2. ALL LABOR, MATERIALS, AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND FAYETTE COUNTY STANDARDS. WHERE CONFLICTS OR OMISSIONS EXIST, FAYETTE COUNTY STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATION FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
3. SHOP DRAWINGS OF ALL MATERIALS BEING USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
4. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND FAYETTE COUNTY DEVELOPMENT REGULATIONS, LATEST EDITION, UNLESS OTHERWISE WAIVED.
5. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND IN HAND BEFORE BEGINNING ANY CONSTRUCTION. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY OTHER DOCUMENTATION FROM ALL OF THE PERMITTING AND ANY OTHER REGULATORY AUTHORITIES. ANY PENALTIES, STOP WORK ORDERS OR ADDITIONAL WORK RESULTING FROM THE CONTRACTOR BEING IN VIOLATION OF THE REQUIREMENTS ABOVE, SHALL BE FULLY BORNE BY THE CONTRACTOR.
6. THE LOCATION OF ALL EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLAN OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FIRST. ANY FEES ASSOCIATED WITH UTILITY RELOCATIONS SHALL BE BORNE IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY STANDARDS. IT IS REQUESTED UTILITY COMPANIES MOVE THEIR PARTICULAR UTILITIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. DIAL 811 BEFORE DIGGING OR CALL 800-282-7411.
7. THE COUNTY PM SHALL SCHEDULE A PRE-CONSTRUCTION MEETING TO BE HELD BETWEEN FAYETTE COUNTY, UTILITIES, ENGINEER OF RECORD, CONTRACTOR AND ANY SUBCONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
8. THE SEQUENCE OF CONSTRUCTION SHALL BE SUCH THAT ALL UNDERGROUND INSTALLATIONS OF EVERY KIND, INCLUDING LANDSCAPE SPRINKLERS, SHALL BE PLACED BENEATH THE PAVEMENT AND ITS EDGES PRIOR TO THE CONSTRUCTION OF THE PAVEMENT. THE PAVEMENT SHALL NOT BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.
9. THE CONTRACTOR SHALL NOTIFY THE COUNTY PM 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 COUNTY PM A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY SCHEDULED TESTING. NO PRESSURE TESTING, OR FINAL TESTING WILL BE ACCEPTED UNLESS WITNESSED BY THE COUNTY PM'S REPRESENTATIVE. THE CONTRACTOR IS REQUIRED TO NOTIFY 48 HOURS TO FAYETTE COUNTY FOR PROOF ROLL, OF GAB PLACEMENT.
10. ALL CONTRACTORS, FAYETTE COUNTY REPRESENTATIVES, AND UTILITY COMPANIES ARE RESPONSIBLE FOR THEIR RESPECTIVE SURVEYING AND LAYOUT FROM BENCHMARK PROVIDED ON CONSTRUCTION PLANS. ANY SURVEY MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE REPLACED UPON COMPLETION OF THE WORK BY A REGISTERED LAND SURVEYOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY CONSTRUCTION ACTIVITIES FROM TAKING PLACE OUTSIDE OF THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS. ANY ON-SITE OR OFFSITE AREAS DISTURBED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
12. THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION PLANS AND ALL PERMITS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TWO (2) SETS OF RECORD DRAWINGS TO THE ENGINEER OF RECORD WITHIN TWO (2) WEEKS AFTER CONSTRUCTION HAS BEEN COMPLETED ON EACH PHASE.
13. TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS TAKEN FROM SURVEY PROVIDED BY: GEOSURVEY, LTD., DATED: 3-13-2025.
14. ANY CONSTRUCTION BEYOND THE RIGHT-OF-WAY AND/OR ESTABLISHED EASEMENT LINES, ONTO ADJACENT PROPERTY, REQUIRES ADJACENT PROPERTY OWNER PERMISSION AND NECESSARY EASEMENTS PRIOR TO PERFORMING ANY WORK. THE CONTRACTOR IS TO VERIFY SUCH EASEMENTS AND PERMISSIONS PRIOR TO DISTURBING ANY OFF-SITE PROPERTY.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO N.T.P. CONSTRUCTION TO DETERMINE IF ANY OFF SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
16. CLEAR AREAS INDICATED SHALL BE COMPLETELY CLEAR OF ALL TIMBER, BRUSH, STUMPS, ROOTS, GRASS, WEEDS, RUBBISH, AND ALL OTHER DEBRIS AND OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE GROUND.
17. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, PRESENCE OF ROCK, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE, ALL OF WHICH WILL AFFECT THE PRICING. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL, AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.
18. NEITHER OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR ERRORS OR MISINTERPRETATIONS RESULTING FROM USE OF INCOMPLETE SETS OF BIDDING DOCUMENTS.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND LICENSES FOR PERFORMING THE DEMOLITION WORK AND SHALL FURNISH A COPY OF THESE ITEMS TO THE ENGINEER PRIOR TO COMMENCING THE WORK. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE PERMITS.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES OR LOCAL AUTHORITIES FURNISHING GAS, WATER, ELECTRICAL, TELEPHONE, OR SEWER SERVICE SO THEY CAN REMOVE, RELOCATE, DISCONNECT, CAP OR PLUG THEIR EQUIPMENT IN ORDER TO FACILITATE DEMOLITION. DIAL 811 BEFORE DIGGING OR CALL 800-282-7411.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES, STRUCTURES, AND UTILITIES NOT MARKED FOR REMOVAL OR DEMOLITION AND SHALL PROMPTLY REPAIR ANY DAMAGE AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER.
4. THE CONTRACTOR SHALL REMOVE PAVING MARKED FOR DEMOLITION WHICH INCLUDES ALL ASPHALT, CONCRETE, BASE, AND RETAINING WALLS (INCLUDING THE FOOTERS).
5. THE CONTRACTOR SHALL REMOVE 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. THE DEMOLITION SHALL BE PHASED TO PROVIDE AT LEAST ONE 12 FOOT LANE OF TRAFFIC AT ALL TIMES.
8. 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 UPGRADIENT AREAS IS ESTABLISHED AND DITCHES ARE STABLE.
13. GOOD HOUSEKEEPING MEASURES FOR MATERIALS STORAGE AND HANDLING, VEHICLE FUELING AND MAINTENANCE, SPILL RESPONSE AND CLEANUP, AND WASTE MANAGEMENT MUST BE FOLLOWED TO ENSURE THAT RUNOFF FROM THE SITE IS FREE OF CONTAMINANTS.
14. ALL BMPS SELECTED SHALL BE INSTALLED, OPERATED, AND MAINTAINED ACCORDING TO GSWCC FIELD MANUAL, GEORGIA DIVISION OF WATER GUIDELINES, MANUFACTURER'S REQUIREMENTS, OR STANDARD INDUSTRY PRACTICE, AS APPROPRIATE.
15. APPROVED PLANS AND NPDES DAILY LOG MUST BE ONSITE AT ALL TIMES.

EARTHWORK, GRADING, STABILIZATION, PAVING AND DRAINAGE NOTES

1. COMPACT ALL UTILITY TRENCHES WITHIN ROADWAYS TO 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180) AND TO 95% WITHIN OTHER AREAS.
2. ALL ORGANIC SOILS AS DETERMINED WITHIN UTILITY TRENCHES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AND COMPACTED TO NO LESS THAN 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T - 180).
3. STABILIZED SUBGRADE TO MEET SPECIFIED REQUIREMENTS.
4. ASPHALTIC CONCRETE TO GDOT STANDARD SPECIFICATION (LATEST EDITION) SECTION 916.1 AND FAYETTE COUNTY, WHICHEVER IS GREATER.
5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
6. ALL CONCRETE FLUMES, WALKS, AND CURBS SHALL BE CONSTRUCTED WITH 3000 PSI CONCRETE.
7. ALL ON-SITE AREAS DISTURBED BY THE CONSTRUCTION SHALL BE STABILIZED USING MEASURES THAT MATCH THE EXISTING VEGETATIVE CONDITIONS OF THE SITE. CONTRACTOR IS RESPONSIBLE FOR IRRIGATION OF PERMANENT GRASSING.
8. THE REINFORCED CONCRETE PIPE SHALL BE CLASS III WITH WALL THICKNESS "B" CONFORMING TO ASTM C - 76 OR 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. THE CONTRACTOR SHALL SUBMIT A TEMPORARY TRAFFIC CONTROL PLAN TO THE COUNTY FOR APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. ALL REQUIRED TRAFFIC SIGNAGE MUST MEET MUTCD STANDARDS.
3. ALL REQUIRED TRAFFIC STRIPING MUST MEET MUTCD AND GDOT PLAN SPECIFICATIONS AND MUST BE THERMO-PLASTIC.
4. ALL STRIPING LAYOUTS MUST BE APPROVED BY THE COUNTY TRAFFIC ENGINEER PRIOR TO FINAL APPLICATION.
5. CONTRACTOR TO COORDINATE LANE CLOSURES WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES.

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092
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EOR/AOR SEAL
GEORGIA REGISTERED PROFESSIONAL ENGINEER CODY ALAN OWENBY No. 35047343 04/03/2026
GSWCC# 95439, EXP. 9/10/2027

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

PROJECT NAME
250 GRANT ROAD CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE
GENERAL CIVIL NOTES

SHEET NUMBER
C-002
SHEET 3 OF 18

ORIGINAL SHEET SIZE: 22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

FILE PATH: X:\FY25\125012\107.CAD-BIM\07.02 CAD\CIVIL\C-001 PLOTTED BY: HENAO, CESAR DATE: 1/7/26

AERIAL IMAGE

SITE PHOTOGRAPHS

VICINITY MAP

SITE LOCATION – LATITUDE: *33° 19' 12"* LONGITUDE: *84° 26' 09"*

GENERAL NOTES

THIS SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE PERSON OR ENTITIES NAMED HEREON. NO EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE INFORMATION SHOWN HEREON IS TO BE EXTENDED TO ANY PERSONS OR ENTITIES OTHER THAN THOSE SHOWN HEREON.

REVISIONS LISTED ON THIS SURVEY APPLY ONLY TO THE SPECIFIC CHANGES REFERENCED, AND DO NOT CONSTITUTE AN UPDATE OF OTHER DATA ON THIS SURVEY. THE "SURVEY DATE" SHOWN HEREON IS THE APPLICABLE DATE AS RELATED TO PROVISIONS OF STATUTES OF LIMITATION UNLESS SPECIFICALLY NOTED OTHERWISE.

THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE INSPECTION REPORT. EASEMENTS OR OTHER ENCUMBRANCES MAY EXIST ON PUBLIC RECORD BUT NOT BE SHOWN HEREON.

THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 13113C0160E, AND THE DATE OF SAID MAP IS SEPTEMBER 26, 2008. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.

PLEASE NOTE: TREES 6-INCH DBH (DIAMETER AT BREAST HEIGHT) AND LARGER WERE LOCATED FOR THIS SURVEY.

THE DATUM FOR THIS SITE WAS ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEMS, AND BASED ON POSITIONAL VALUES FOR THE VIRTUAL REFERENCE STATION NETWORK DEVELOPED BY eGPS SOLUTIONS. THE HORIZONTAL REFERENCE FRAME IS NORTH AMERICAN DATUM OF 1983(2011)-STATE PLANE COORDINATE SYSTEM OF GEORGIA-WEST ZONE. THE VERTICAL REFERENCE FRAME IS NORTH AMERICAN VERTICAL DATUM OF 1988. ANY DIRECTIONS OR DIMENSIONS SHOWN ARE A RECTANGULAR, GROUND LEVEL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM.

NO ZONING REPORT OR ZONING LETTER WAS PROVIDED TO THE SURVEYOR. ZONING AND SETBACKS SHOULD BE CONFIRMED AND VERIFIED BY PLANNING AND ZONING PRIOR TO DESIGN OR CONSTRUCTION ACTIVITIES.

PLEASE NOTE: PROPERTY LINE INFORMATION IS SHOWN AS APPROXIMATE BASED ON SURVEY REFERENCES SHOWN HEREON. NO BOUNDARY SURVEY WAS PERFORMED BY GEOSURVEY, LTD.

SURVEY REFERENCES

1. PROPERTY SURVEY FOR HARRY UNDERWOOD, PREPARED BY KENNETH E. PRESLEY ASSOCIATES, INC., DATED OCT. 1, 1985, RECORDED IN PLAT BOOK 16, PAGE 178, FAYETTE COUNTY, GA.

UTILITY NOTE

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY:
GROUNDHAWK
355 ONETA STREET – SUITE D200
ATHENS, GEORGIA 30601
(762) 728-9155
GROUNDHAWK UTILIZED SEVERAL TECHNIQUES INCLUDING, BUT NOT LIMITED TO, ELECTROMAGNETIC, MAGNETIC LOCATION FOR FERROUS METALS, ACOUSTIC AND PASSIVE FREQUENCIES TO DESIGNATE AND MARK BURIED UTILITIES ON THE SURFACE WITH PAINT AND FLAGS COVERING THE ENTIRE AREA OF THE PROJECT.

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

IF YOU DIG

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

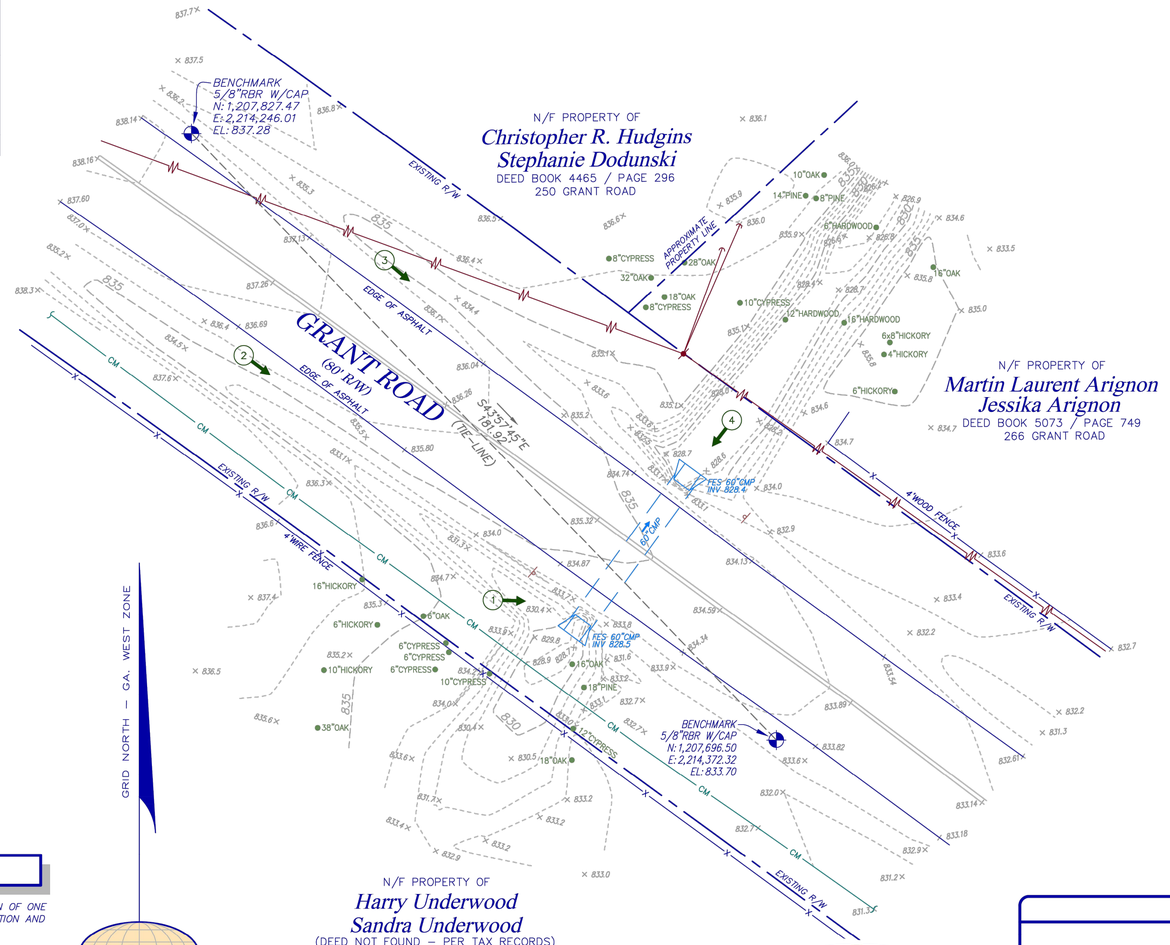
CLOSURE STATEMENT

THE FIELD CLOSURE UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 32,499 , AND WAS NOT ADJUSTED. A TRIMBLE "S" SERIES TOTAL STATION AND TRIMBLE TSC SERIES DATA COLLECTOR WERE USED TO COLLECT THIS FIELD DATA.

GRAPHIC SCALE

0 10 20 50 100

1"= 20'



LEGEND

STANDARD ABBREVIATIONS

AC	AIR CONDITIONER	JB	JUNCTION BOX
BH	BORE HOLE	MH	MANHOLE
BSL	BUILDING SETBACK LINE	NF	NAIL FOUND
CI	CURB INLET	OCS	OUTLET CONTROL STRUCTURE
CMP	CORRUGATED METAL PIPE	OTP	OPEN TOP PIPE
CMF	CONCRETE MONUMENT FND	PM	POWER METER
CO	SANITARY CLEANOUT	POB	POINT OF BEGINNING
CPED	COMMUNICATION PEDESTAL	POC	POINT OF COMMENCEMENT
CTP	CRIMPED TOP PIPE	RCP	REINFORCED CONCRETE PIPE
DI	DROP INLET	RBR	IRON REINFORCING BAR
DIP	DUCTILE IRON PIPE	RBS	5/8"RBR SET CAPPED LSF 621
DWCB	DOUBLE WING CATCH BASIN	SS	SANITARY SEWER
FND	FOUND	SWCB	SINGLE WING CATCH BASIN
GM	GAS METER	TRANS	ELECTRIC TRANSFORMER
INV	INVERT		

STANDARD SYMBOLS

POWER POLE
GUY WIRE
POWER LINE
LIGHT POLE
ELECTRIC TRANSFORMER
WATER VAULT
GAS VALVE
GAS METER
WATER VALVE
WATER METER
FIRE HYDRANT
UNDERGROUND ELECTRIC LINE
UNDERGROUND GAS LINE
UNDERGROUND COMMUNICATION LINE
UNDERGROUND WATER LINE
PHOTO POSITION INDICATOR
REGULAR PARKING SPACE COUNT
HANDICAP PARKING SPACE
TREE POSITION INDICATOR
SIGN

GEORGIA REGISTERED PROFESSIONAL No. 3602 LAND SURVEYOR GENE ETRIS

GeoSurvey
Professional Land Surveying Services
1660 Barnes Mill Road
Marietta, Georgia 30062
Phone: (770) 795-9900
Fax: (770) 795-8880
www.geosurvey.com
EMAIL: info@geosurvey.com
Certificate of Authorization #LSF-000621

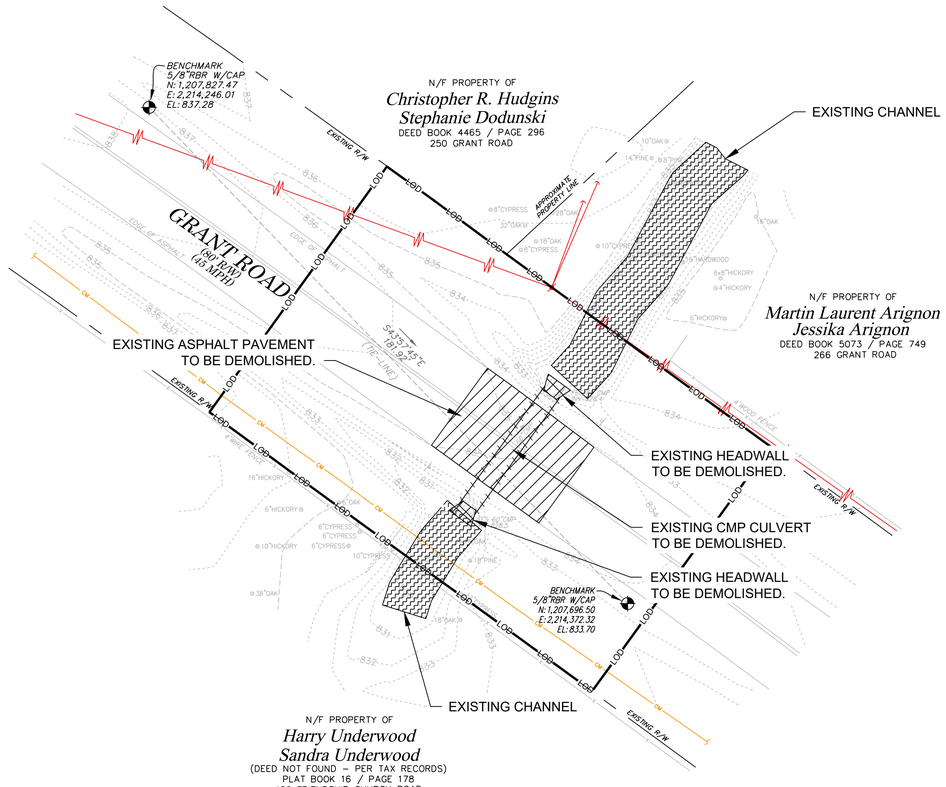
TOPOGRAPHIC SURVEY OF

Grant Road Storm System

FOR

FAYETTE COUNTY

GS JOB NO:	*20258149*	DRAWING SCALE:	*1"= 20'*	SURVEY DATE:	*3-13-2025*
FIELD WORK:	*JE*	CITY:	*UNINCORPORATED*	REVISIONS *(SEE GENERAL NOTES)*	
PROJ MGR:	*GEE*	COUNTY:	*FAYETTE* STATE: *GA*	No. / Date / Description	
REVIEWED:	*DLH*	LAND LOT:	*121*		
DWG FILE:	*20258149-1.dwg*	DISTRICT:	*4TH*		



LEGEND

- LOD — LOD — LIMITS OF DISTURBANCE
- EXISTING ASPHALT PAVEMENT DEMOLITION
- EXISTING CONCRETE STRUCTURE DEMOLITION (HEADWALL, CURB, BASIN, ETC.)

A1 DEMOLITION PLAN
SCALE: 1" = 20'

0 10' 20' 40' 60'

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

DEMOLITION NOTES

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.

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.

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.

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.

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Suite 500
Peachtree Corners
Georgia 30092
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EOR/AOR SEAL

GEORGIA REGISTERED No. PE047343 PROFESSIONAL ENGINEER CODY ALAN OWENBY 04/03/2026

GSWCC# 95439, EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME

250 GRANT ROAD CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

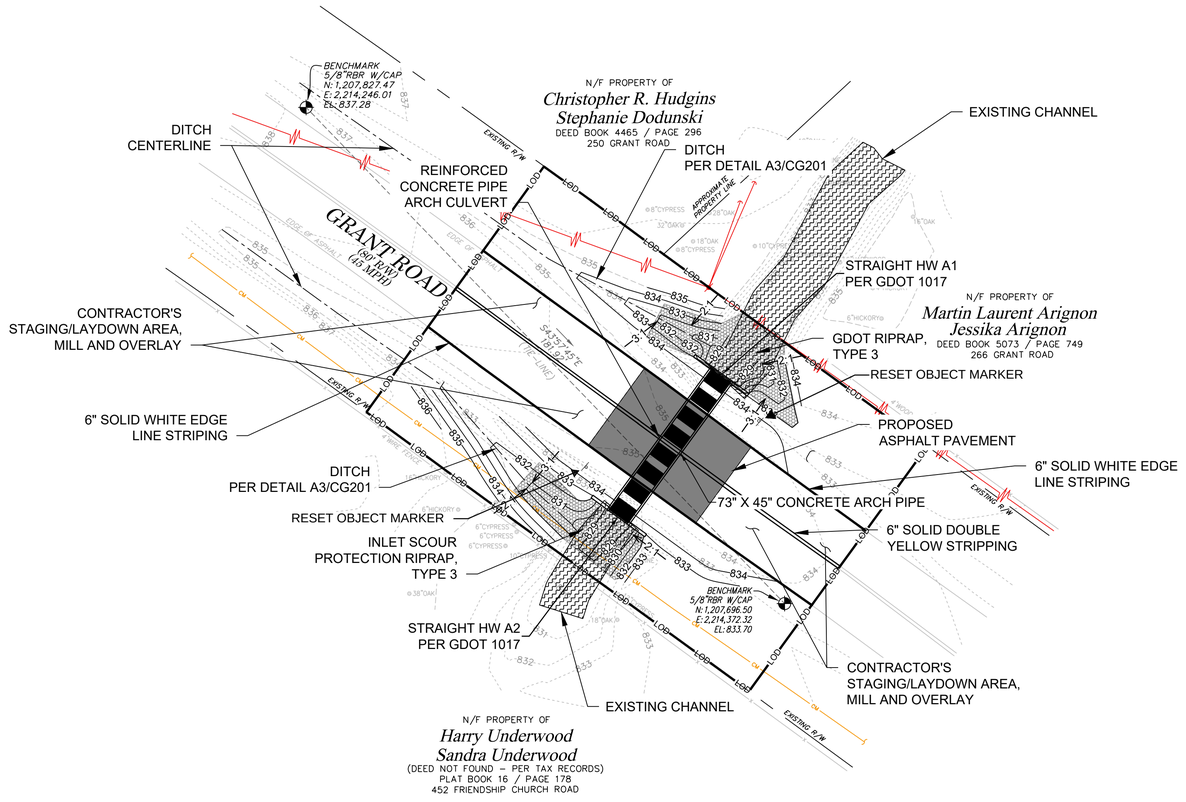
CD101

SHEET 5 OF 18

ORIGINAL SHEET SIZE:
22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

FILE PATH: X:\FY25\1250121\07.CAD-BIM\07.02 CAD\CIVIL\CD101 PLOTTED BY: HENAO, CESAR DATE: 1/7/26



A1 SITE AND GRADING PLAN
SCALE: 1" = 20'

0 10' 20' 40' 60'

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. CONTRACTOR TO COORDINATE LANE CLOSURE WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES. CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD) AND GDOT STANDARDS.
4. 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.
5. AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. (ALL AS-BUILT DRAWINGS MUST BE CERTIFIED BY A GEORGIA REGISTERED LAND SURVEYOR).
6. CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
7. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB, FENCE, OR DRIVEWAYS DURING CONSTRUCTION.
8. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED ROADWAY/ASPHALT DURING PROJECT CONSTRUCTION, AS WELL AS REPLACEMENT AND RELOCATION OF MAILBOXES.

GRADING NOTES:

1. ROAD TO BE GRADED FROM CROWN TO EDGE OF ASPHALT AT 1/4" PER 1'. REFER TO DETAILS B1/C-502 AND B3/C-502.
2. MAXIMUM SLOPES ALLOWED WITHIN FAYETTE COUNTY RIGHT-OF-WAY SHALL BE 2:1. PROVIDE GENTLER SLOPES WHERE POSSIBLE.

LEGEND

- LOD — LOD — LIMITS OF DISTURBANCE
- ASPHALT PAVEMENT
- RIPRAP
- EXISTING CHANNEL

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EOR/AOR SEAL

GEORGIA REGISTERED LICENSE NO. PE047343 PROFESSIONAL ENGINEER CODY ALAN OWENBY
04/03/2026

GSWCC# 95439,
EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME

250 GRANT ROAD CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE

SITE AND GRADING PLAN

SHEET NUMBER

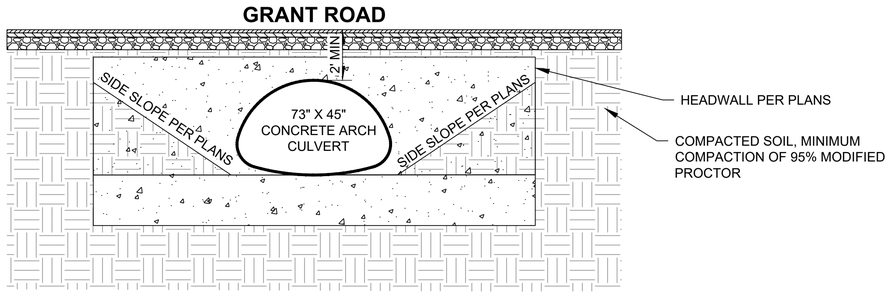
CG101

SHEET 6 OF 18

ORIGINAL SHEET SIZE:
22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

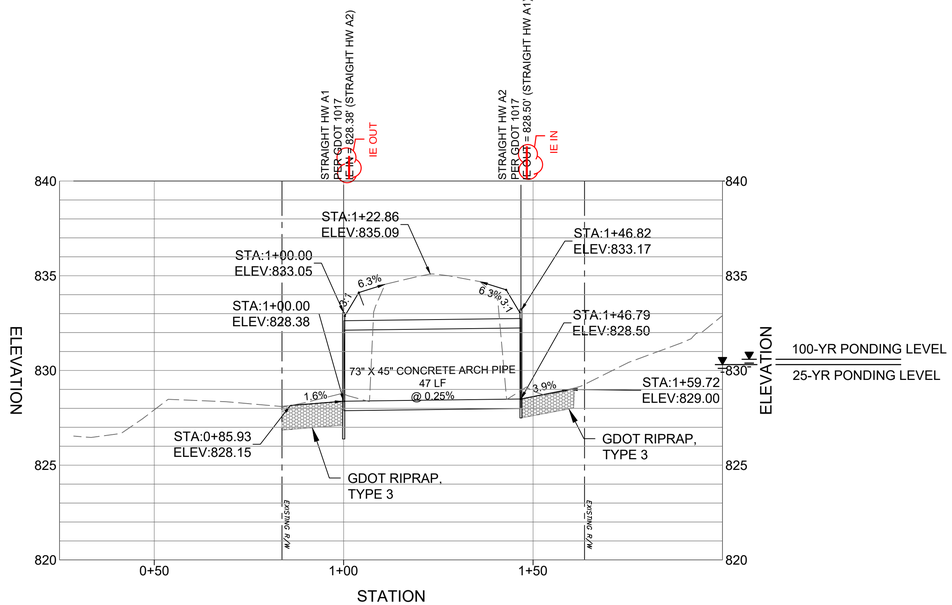
FILE PATH: X:\FY25\1250121\07.CAD-BIM\07.02 CAD\CIVIL\CG101 PLOTTED BY: HENAO, CESAR DATE: 1/7/26



FLOW SUMMARY TABLE: 73" x 45" ARCH				
STORM FREQUENCY	FLOW (CFS)	HGL DOWN (FT)	HGL UP (FT)	OUTLET VELOCITY (FPS)
5-YEAR	27.16	828.93	830.07	5.25
10-YEAR	29.47	828.96	830.14	5.39
25-YEAR	34.86	829.02	830.31	5.69
100-YEAR	44.15	829.12	830.59	6.17

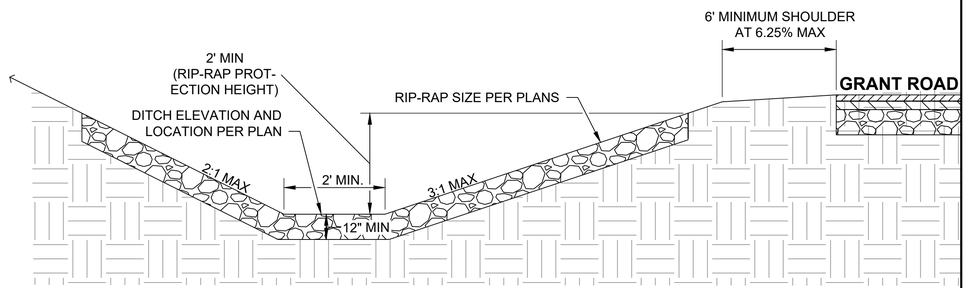
DRAINAGE AREA = 24.83 ACRES
AVERAGE STREAM SLOPE= 2%

C1 CULVERT TYPICAL SECTION
SCALE: N.T.S.



STORM PROFILE
HORZ. SCALE 1"= 20'
VERT. SCALE 1"= 4'

A1 STORM PROFILE



A3 TYPICAL DITCH SECTION
NO SCALE

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ENGINEER
04/03/2026
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EXP. 9/10/2027

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

PROJECT NAME
250 GRANT ROAD CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE
DATE
DESCRIPTION
MARK

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

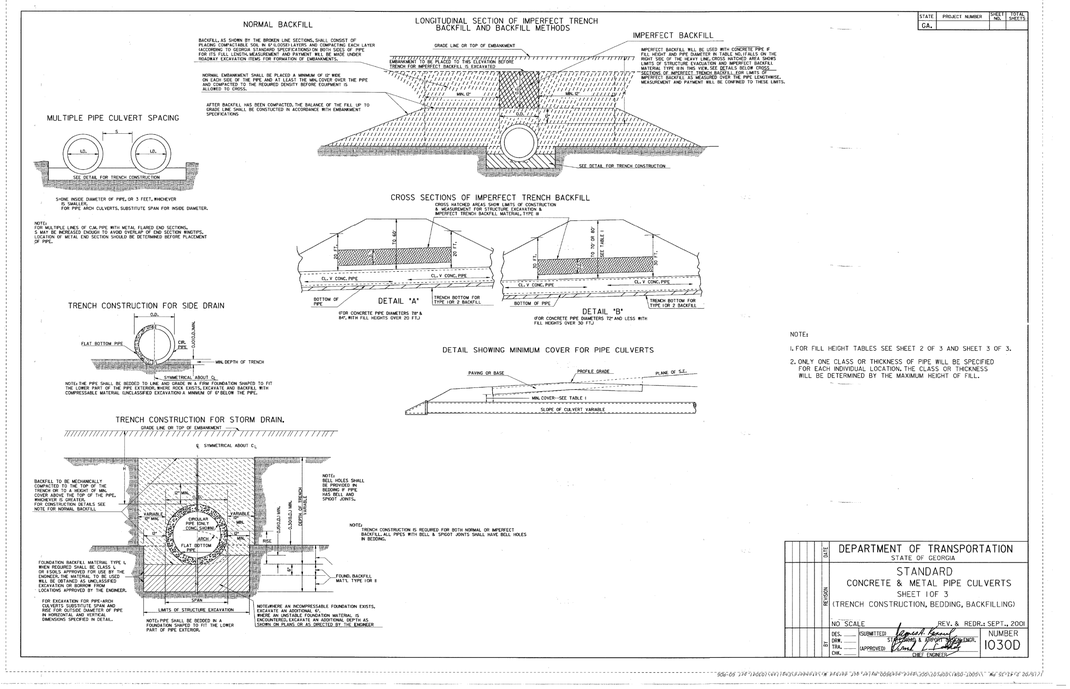
SHEET TITLE
STORM PROFILE

SHEET NUMBER
CG201
SHEET 7 OF 18

ORIGINAL SHEET SIZE:
22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

FILE PATH: X:\FY25\1250121\07.CAD-BIM\07.02 CAD\CIVIL\CG101 PLOTTED BY: HENAO, CESAR DATE: 1/7/26



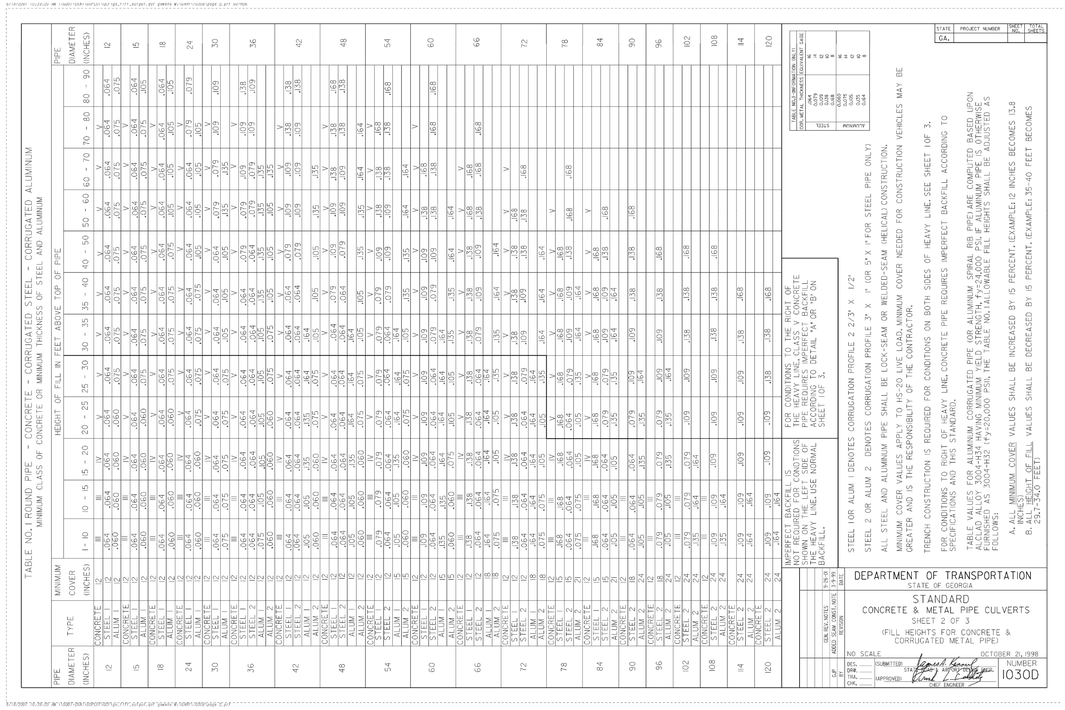
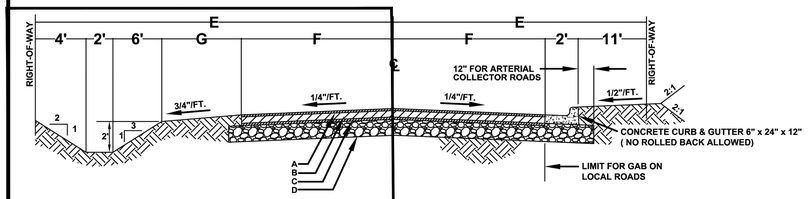


TABLE NO.1 ROUND PIPE - CONCRETE - CORRUGATED STEEL - CORRUGATED ALUMINUM
MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM
HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE
PIPE DIAMETER (INCHES)
TYPE
MINIMUM COVER (INCHES)
1 - 10
10 - 15
15 - 20
20 - 25
25 - 30
30 - 35
35 - 40
40 - 50
50 - 60
60 - 70
70 - 80
80 - 90
PIPE DIAMETER (INCHES)
STEEL 1 STEEL 2 ALUM 1 ALUM 2
CONCRETE

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

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

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



TYPICAL HALF ROADWAY SECTION W/ DITCHES

TYPICAL HALF ROADWAY SECTION W/ CURB AND GUTTER

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

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

NO.	DATE	BY	REVISIONS
01	02/2017	JLR	ASPHALT

DRAWN BY: JJG | SCALE: NTS | DATE: ~~SEPTEMBER 27, 2006~~ REVISED 2017

B1 FAYETTE COUNTY TYPICAL ROAD CROSS SECTION

SCALE: N.T.S.

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Georgia 30092

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EOR/AOR SEAL

GEORGIA
BY GIVEN UNDER MY HAND AND SEAL
No. PE047343
PROFESSIONAL
04/03/2026
ENGINEER
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 GRANT ROAD CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER

C-502

SHEET 9 OF 18

ORIGINAL SHEET SIZE:
22" X 34"

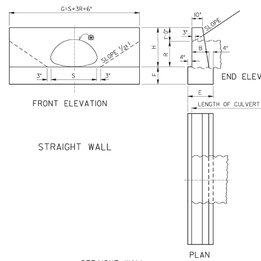
100% SUBMITTAL - ISSUED FOR CONSTRUCTION

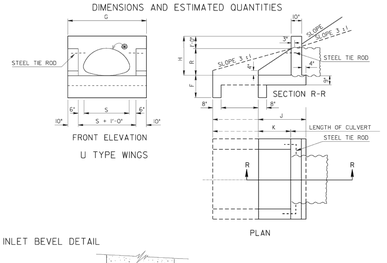
FILE PATH: X:\FY25\1250121\07.CAD-BIM\07.02 CAD\CIVIL\C-500 PLOTTED BY: HENAO, CESAR DATE: 1/7/26

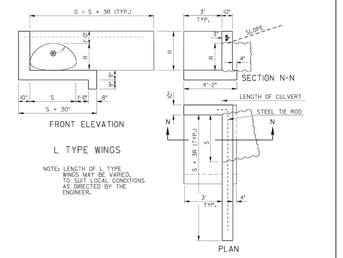
7/6/2026 1:13:24 PM \\CDOT-DIST\DSK\DTGEP\DGN\TTT_OUTPUT.DGP DGNFILE W:\DARYENGLISH STANDARDS UPDATED AND UPDATED INDEX\1817.PMP

CONCRETE END WALLS
DIMENSIONS AND ESTIMATED QUANTITIES

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



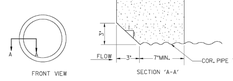




STRAIGHT WALL

ARCH NUMBER	GAUGE	DIMENSIONS: OPENING S (SPAN)	OPENING R (RISE)	WALL AREA (SQ.FT.)	WALL G (S+3R+6")	WALL H	WALL B	FOOTING E	FOOTING F	QUANTITIES ONE END WALL: CL. "B" CONCRETE WALL (CU.YDS.)	CL. "B" CONCRETE FOOTING (CU.YDS.)	CL. "B" CONCRETE TOTAL (CU.YDS.)	STEEL TIE RODS (LBS.)	CONC. & REINF. STEEL BELOW BOTTOM OF NORMAL CHANNEL
1	16	18"	11"	U	4'-9"	3'-8"	1'-2"	1'-10"	1'-0"	7.18	8.71	16.62	1,042	13.70
2	16	22"	13"	1.5	5'-1"	2'-4"	1'-2"	1'-10"	1'-0"	10.01	10.24	20.25	0.75	0.35
3	16	26"	15½"	2.1	5'-4½"	2'-5½"	1'-2"	1'-10"	1'-0"	12.74	13.99	26.73	0.99	0.44
4	14	30"	17"	2.8	5'-9"	2'-5"	1'-3"	1'-9"	1'-3"	15.07	17.37	32.44	1.20	0.52
5	14	33"	19"	4.3	6'-0"	2'-9"	1'-4"	2'-0"	1'-4"	20.9	23.56	44.75	1.66	0.66
6	12	44"	25"	5.5	6'-10½"	3'-1"	1'-4"	2'-0"	1'-4"	27.83	31.78	59.61	2.06	0.78
7	12	52"	30"	8.4	8'-4"	3'-6"	1'-4"	2'-3"	1'-6"	39.55	40.08	79.63	2.95	1.05
8	12	59"	34"	10.6	9'-0"	3'-10"	1'-7"	2'-3"	1'-7"	50.33	49.56	99.9	3.70	1.27
9	12	66"	38"	13.2	10'-6"	4'-2"	1'-9"	2'-3"	1'-9"	64.48	62.43	126.9	4.70	1.56
10	10	72"	44"	16.3	11'-6"	4'-8"	2'-0"	2'-8"	2'-0"	89.00	113.33	180.33	6.75	2.6

INLET BEVEL DETAIL



L TYPE WINGS

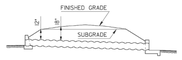
ARCH NUMBER	GAUGE	DIMENSIONS: OPENING S (SPAN)	OPENING R (RISE)	WALL AREA (SQ.FT.)	WALL H	WALL G (S + 3R + 30")	QUANTITIES ONE END WALL: CL. "B" CONCRETE WALL (CU.YDS.)	CL. "B" CONCRETE FOOTING (CU.YDS.)	CL. "B" CONCRETE TOTAL (CU.YDS.)	STEEL TIE RODS (LBS.)
1	16	18"	11"	U	2'-1"	4'-3"	1.99	4.58	26.57	0.98
2	16	22"	13"	1.5	2'-4"	5'-1"	4'-4"	14.23	5.62	29.85
3	16	26"	15½"	2.1	2'-5½"	6'-0½"	4'-8"	17.3	6.67	33.78
4	14	30"	17"	2.8	2'-5"	6'-9"	5'-0"	8.98	7.71	36.63
5	14	33"	19"	4.3	2'-9"	7'-3"	5'-4"	9.7"	9.53	43.83
6	12	44"	25"	5.5	3'-1"	8'-4"	6'-2"	30.4	9.36	51.77
7	12	52"	30"	8.4	3'-6"	9'-0"	6'-10"	36.65	23.44	62.23
8	12	59"	34"	10.6	3'-10"	9'-10"	7'-5"	46.21	25.26	71.53
9	12	66"	38"	13.2	4'-2"	10'-9"	8'-0"	54.39	27.08	81.47
10	10	72"	44"	16.3	4'-8"	11'-9"	8'-6"	66.93	28.65	95.58

1½:1 FILL SLOPE — U TYPE WINGS — 3:1 FILL SLOPE

ARCH NUMBER	GAUGE	DIMENSIONS: OPENING S (SPAN)	OPENING R (RISE)	WALL AREA (SQ.FT.)	WALL G	WALL H	WALL K	FOOTING F	FOOTING J	QUANTITIES ONE END WALL: CL. "B" CONCRETE WALL (CU.YDS.)	CL. "B" CONCRETE FOOTING (CU.YDS.)	CL. "B" CONCRETE TOTAL (CU.YDS.)	STEEL TIE RODS (LBS.)
1	16	18"	11"	U	4'-4"	2'-4"	0'-4"	1'-3"	2'-2"	6.7	7.9	14.6	0.54	NONE
2	16	22"	13"	1.5	4'-6"	2'-7"	1'-3"	1'-3"	2'-4"	7.9	9.4	17.3	0.64	NONE
3	16	26"	15½"	2.2	4'-10"	2'-10½"	1'-4"	1'-3"	2'-8"	9.5	11.3	20.8	0.77	2)%DIA.2'-0"LONG
4	14	30"	17"	2.8	5'-2"	2'-5"	1'-8"	1'-4"	2'-10"	10.5	13.6	24.1	0.89	2)%DIA.2'-0"LONG
5	14	33"	19"	4.3	5'-5"	2'-9"	2'-2"	1'-4"	3'-4"	13.4	17.2	30.6	1.13	2)%DIA.2'-6"LONG
6	12	44"	25"	5.5	6'4"	3'-1"	2'-8"	1'-5"	3'-10"	16.7	22.4	39.1	1.45	2)%DIA.2'-6"LONG
7	12	52"	30"	8.4	7'-0"	3'-6"	3'-5"	1'-5"	4'-5"	2U	27.5	49.0	UR	2)%DIA.3'-0"LONG
8	12	59"	34"	10.6	7'-7"	3'-10"	3'-11"	1'-7"	5'-0"	25.3	34.3	59.6	2.2	2)%DIA.3'-6"LONG
9	12	66"	38"	13.2	8'-2"	4'-2"	4'-3"	2'-0"	5'-5"	29.8	40.0	69.8	2.59	2)%DIA.4'-0"LONG
10	10	72"	44"	16.3	8'-8"	4'-8"	5'-0"	2'-0"	6'-2"	36.3	47.3	83.6	3.10	2)%DIA.4'-6"LONG

K	J	QUANTITIES ONE END WALL: CL. "B" CONCRETE WALL (CU.YDS.)	CL. "B" CONCRETE FOOTING (CU.YDS.)	CL. "B" CONCRETE TOTAL (CU.YDS.)	STEEL TIE RODS (LBS.)	
1'-9"	2'-0"	7.6	10.5	18.1	0.67	NONE
2'-3"	3'-5"	9.2	13.0	22.2	0.82	NONE
2'-9"	4'-2"	6.4	8.1	28.1	1.04	2)%DIA.2'-0"LONG
3'-3"	4'-5"	12.8	15.7	32.5	1.20	2)%DIA.2'-0"LONG
4'-3"	5'-5"	17.0	26.2	43.2	1.60	2)%DIA.2'-6"LONG
5'-3"	6'-5"	2U	34.7	56.6	2.0	2)%DIA.3'-0"LONG
6'-4"	7'-8"	28.8	44.3	73.1	2.72	2)%DIA.3'-0"LONG
7'-4"	8'-8"	35.2	55.6	90.8	3.36	2)%DIA.3'-6"LONG
8'-4"	9'-8"	42.2	66.0	108.2	4.0	2)%DIA.4'-0"LONG
10.0"	3'-2"	53.0	79.8	132.8	4.92	2)%DIA.4'-6"LONG

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



SECTION OF ROADWAY
SHOWING DESIRABLE MINIMUM
DEPTHS OF FILL OVER CULVERTS

NOTE:
GRADE GENERALLY TO FOLLOW SLOPE OF STREAM. DESIRABLE LIMITS 2% TO 4%.

APPROXIMATE DIMENSIONS OF THE PIPE ARCH

ARCH NUMBER	SPAN INSIDE	RISE INSIDE	OUTSIDE MEASUREMENTS OVER PLAIN END: R	B	C
1	18"	11"	1'-4½"	1'-3"	1'-0½"
2	22"	13"	1'-7½"	1'-3"	1'-1¾"
3	26"	15½"			
4	30"	17"	2'-1½"	1'-6½"	1'-5"
5	33"	19"	2'-4"	1'-7"	1'-5½"
6	44"	25"	3'-1"	2'-0"	1'-11½"
7	52"	30"	3'-6"	2'-3"	2'-1½"
8	59"	34"	3'-11"	2'-5"	2'-3½"
9	66"	38"	4'-3"	2'-7"	2'-5½"
10	72"	44"	4'-8"	2'-9"	2'-7½"

GENERAL NOTES:

1. QUANTITIES SHOWN ARE TO BE USED WHEN CORRUGATED METAL PIPE IS DESIGNATED. WHEN ANY OTHER TYPE OF PIPE IS DESIGNATED DEDUCTIONS SHALL BE MADE FROM QUANTITY SHOWN TO ALLOW FOR THICKNESS OF PIPE.
2. DIMENSION "F" TO BE VARIED TO FIT LOCAL CONDITIONS. THE VALUES GIVEN ARE THE MINIMUM RECOMMENDED UNDER LOCAL CONDITIONS BUT FOOTINGS SHOULD BE PROTECTED FROM SCOUR.
3. CHAMFER ALL EXPOSED EDGES ¾".
4. PROVIDE GOOD FOUNDATION UNDER PIPES USING CONCRETE IF NATURAL CONDITIONS ARE VERY BAD, PROTECT BED AND SLOPES WITH RIP RAP OR PAVING WHERE NECESSARY, ESPECIALLY NEAR OUTLETS. PAVING TO BE LAID IN CEMENT MORTAR OR GROUTED.
5. A 2" TOLERANCE, PLUS OR MINUS, ON SPAN AND RISE WILL BE PERMITTED, BUT OPENING SPECIFIED FOR VARIOUS ARCHES WILL BE REQUIRED.
6. PIPE ARCH CULVERTS ARE TO BE USED ONLY WHERE SUFFICIENT HEADROOM IS NOT AVAILABLE FOR USE OF FULL ROUND PIPE. USE MULTIPLE LINE OF ROUND PIPE WHERE FEASIBLE.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
PIPE ARCH CULVERTS
18" TO 72" SPAN
CONCRETE ENDWALLS

SCALE AS SHOWN — REV. & REDR: AUG. 1999

DESIGNED ——— SUBMITTED: Daniel Bennett STATE BRIDGE AND CONSTRUCTION ENGINEER
TRACED ———
CHECKED ———
APPROVED: Paul L. Liles CHIEF ENGINEER
REVISED ———

NUMBER 1017

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

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EOR/AOR SEAL

GEORGIA — 36 GIVE CERTIFICATE NO. PE047343 PROFESSIONAL — CODY ALAN OWENBY — ENGINEER — 04/03/2026

GSWCC# 95439, EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME

250 GRANT ROAD CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE

CONSTRUCTION DETAILS

SHEET NUMBER

C-503

SHEET 10 OF 18

ORIGINAL SHEET SIZE: 22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

FILE PATH: X:\FY25\1250121\07.CAD-BIM\07.02 CAD\CIVIL\C-500 PLOTTED BY: HENAO, CESAR DATE: 1/7/26

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.

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 A. Owenby, PE — 1/13/2026

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: 0.25 ACRES
DISTURBED AREA: 0.25 ACRES
TOTAL IMPERVIOUS AREA: 0.02 ACRES

EXISTING LAND USE:	THE EXISTING LAND USE CONSISTS OF 60-INCH DIAMETER CMP CULVERT AND A PAVED ROAD IN A RESIDENTIAL AREA.
PROPOSED CONSTRUCTION ACTIVITIES:	THE PROJECT CONSISTS OF REMOVING THE EXISTING DETERIORATED 60-INCH DIAMETER CMP CULVERT. THE CULVERT IS TO BE REPLACED WITH A 47 LINEAR FOOT 73" X 45" ARCH PIPE CULVERT.

GPS COORDINATES OF CONSTRUCTION ENTRANCE: N33.31998°, W84.43590°

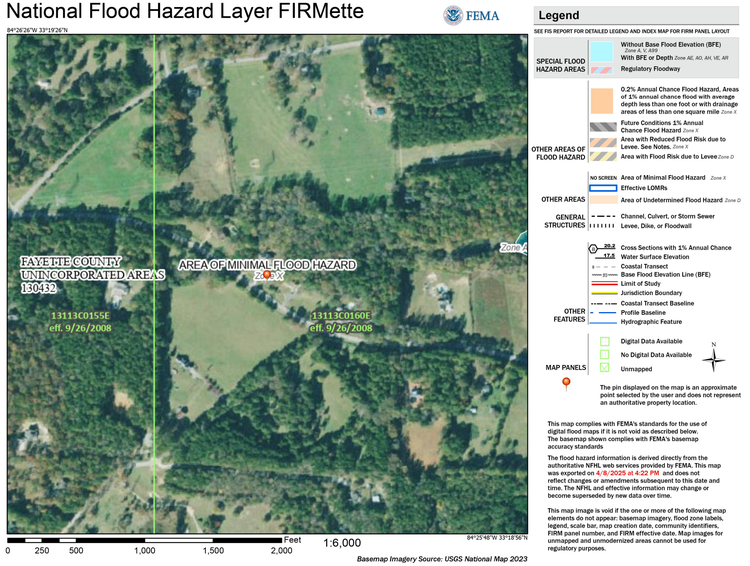
NAME OF RECEIVING WATERS: LAKE HORTON

STATE AND FEDERAL WATERS DO NOT EXIST ON OR WITHIN 200' OF THE PROJECT SITE.

NO KNOWN WETLANDS EXIST ON OR WITHIN 200' OF THE PROJECT SITE.

THERE ARE NO IMPAIRED STREAMS WITHIN ONE MILE DOWNSTREAM OF THIS PROJECT.

National Flood Hazard Layer FIRMette



Legend

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

- SPECIAL FLOOD HAZARD AREAS: Without Base Flood Elevation (BFE) Zone A, V, A99; With BFE or Depth Zone AE, AO, AH, VE, AR; Regulatory Floodway
- OTHER AREAS OF FLOOD HAZARD: 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X; Future Conditions 1% Annual Chance Flood Hazard Zone X; Area with Reduced Flood Risk due to Levee. See Notes. Zone X; Area with Flood Risk due to Levee Zone D
- OTHER AREAS: NO SCREEN Area of Minimal Flood Hazard Zone X; Effective LOMRs; Area of Undetermined Flood Hazard Zone D
- GENERAL STRUCTURES: Channel, Culvert, or Storm Sewer; Levee, Dike, or Floodwall
- OTHER FEATURES: 20.2 Cross Sections with 1% Annual Chance; 17.5 Water Surface Elevation; Coastal Transect; Base Flood Elevation Line (BFE); Limit of Study; Jurisdiction Boundary; Coastal Transect Baseline; Profile Baseline; Hydrographic Feature
- MAP PANELS: Digital Data Available; No Digital Data Available; Unmapped

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

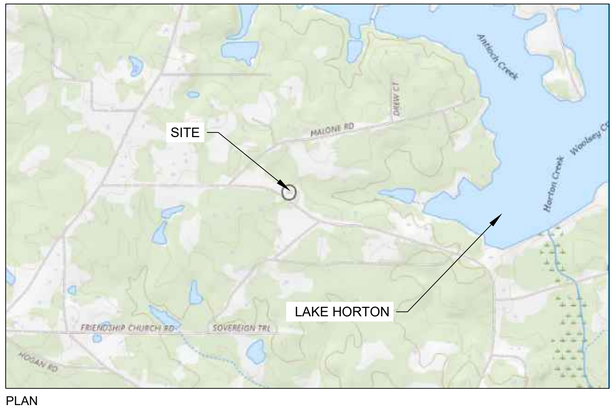
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/8/2025 at 4:22 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

PLAN NORTH

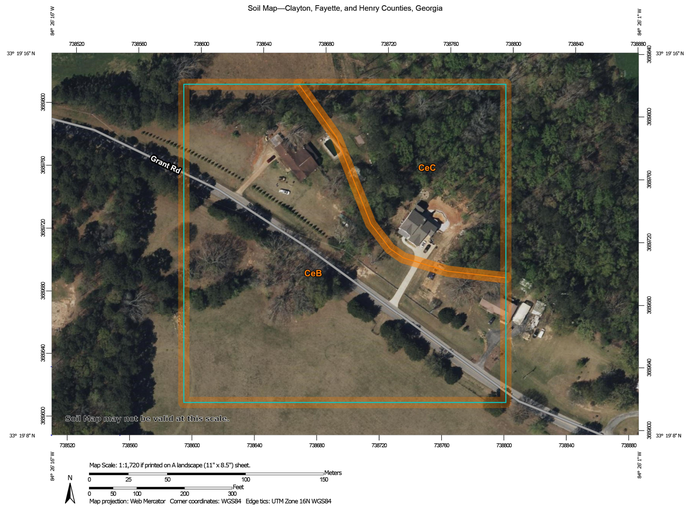
FEMA FLOOD MAP - 13113C0160E
SCALE: NTS — DATED 09/26/2008



PLAN NORTH

VICINITY MAP
SCALE: NTS

Soil Map—Clayton, Fayette, and Henry Counties, Georgia



Natural Resources Conservation Service — Web Soil Survey, National Cooperative Soil Survey — 4/8/2025 Page 1 of 3

SOIL MAP

SOILS LEGEND

SYMBOL	DESCRIPTION
CeB	Cecil sandy loam, 2 to 6 percent slopes
CeC	Cecil sandy loam, 6 to 10 percent slopes

ACTIVITY SCHEDULE (FOR PERMITTING REFERENCE ONLY)

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

ES&PC PLAN FIELD REVISIONS SUMMARY

REV #	DATE	ENTITY REQUESTING	REVISIONS

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

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

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

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EOR/AOR SEAL

GEORGIA REGISTERED PROFESSIONAL CODY ALAN OWENBY ENGINEER No. PE047343 04/03/2026

GSWCC# 95439, EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME

250 GRANT ROAD CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE

EROSION AND SEDIMENT CONTROL NOTES

SHEET NUMBER

CE001

SHEET 11 OF 18

ORIGINAL SHEET SIZE: 22" X 34"

FILE PATH: X:\FY25\1250121\07.CAD-BIM\07.02 CAD\CIVIL\CE001 PLOTTED BY: HENAO, CESAR DATE: 1/7/26

STRUCTURAL PRACTICES:

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

STONE CHECK DAM (CD-S), ROCK DAM (RD), SILT FENCE (SD1-TYPE "NS"), AND TREE PROTECTION FENCE (TR) SHALL BE INSTALLED PRIOR TO CLEARING, DEMOLITION, AND GRADING OPERATIONS TO KEEP SEDIMENT CONTAINED WITHIN THE SITE AS NECESSARY. SEDIMENT STORAGE OF 67 CY PER DISTURBED ACRE SHALL BE PROVIDED.

CRITICAL WORK ZONE:

ALL DISTURBED SLOPES 3:1 OR STEEPER AND HIGHER THAN 5 FEET SHALL RECEIVE SURFACE ROUGHENING, AND SLOPE STABILIZATION. SILT FENCING AND THE CONSTRUCTION EXIT SHALL BE USED TO PREVENT SEDIMENT FROM LEAVING THE DISTURBED AREA. INLET PROTECTION SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER.

STORM WATER MANAGEMENT:

NEW PERMANENT STORMWATER MANAGEMENT BMPS WILL BE PROVIDED AS A PART OF THIS PROJECT. THE PROJECT WILL INSTALL A DITCH AND RIRAP OUTLET PROTECTION TO TREAT STORMWATER QUALITY ON SITE.

CONSTRUCTION PERIOD STORM WATER POLLUTANT CONTROL:

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

POST-CONSTRUCTION STORM WATER POLLUTANT CONTROL:

EXISTING UNDISTURBED AREAS ARE PRIMARILY COVERED IN VEGETATION OR HARDSCAPE. MEASURES WILL BE TAKEN TO ENSURE ALL PERVIOUS DISTURBED AREAS ARE VEGETATED POST-CONSTRUCTION TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES.

STABILIZATION MEASURES:

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

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

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

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

KEEPING PLANS CURRENT:

THE PRIMARY PERMITTEE(S), SHALL AMEND THEIR PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION , OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT (I.E., THOSE BMPs WHERE THE DESIGN IS BASED UPON RAINFALL INTENSITY, DURATION AND RETURN FREQUENCY STORMS) OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM SOURCES IDENTIFIED UNDER PART IV.D.3. AMENDMENTS TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT.

PROPER OPERATION AND MAINTENANCE:

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

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

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

NON-STORM WATER DISCHARGES:

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

WASTE MATERIALS AND DISPOSAL:

NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED INTO STORM WATER INLETS, WATERS OF THE STATE, OR WATERS OF THE UNITED STATES, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER OR OTHER APPROPRIATE WASTE MANAGEMENT FACILITY PERMISSIBLE UNDER PERMIT NO. GAR 100002. WASTE MANAGEMENT FACILITIES SHALL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE WASTE MANAGEMENT FACILITIES. WASTE MANAGEMENT FACILITIES SHALL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH SHALL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE SHALL BE BURIED ON-SITE.

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

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

HAZARDOUS WASTES:

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

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

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

SPILL CLEANUP AND CONTROL PRACTICES :

A. LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.

B. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.

C. SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.

D. ALL SPILLS MUST BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS MUST BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

E. ALL SPILLS MUST BE IMMEDIATELY REPORTED TO BASE CEV (ENVIRONMENTAL FLIGHT). BASE CEV WILL PROVIDE STORMWATER TRAINING SLIDES THAT MUST BE REVIEWED AND IMPLEMENTED BY THE CONTRACTOR.

F. FOR SPILLS THAT IMPACT SURFACE WATERS (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NCR) MUST BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.

G. FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONS RESPONSE CENTER NRC MUST BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.

H. FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE GEORGIA E.P.D. MUST BE CONTACTED WITHIN 24 HOURS.

I. FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE SPILL MUST BE CLEANED UP AND LOCAL AGENCIES MUST BE CONTACTED AS REQUIRED.

J. GENERAL NPDES PERMIT NO. GAR 100002 DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTER MEASURERS PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

SANITARY WASTES:

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

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

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

OFFSITE VEHICLE TRACKING / DUST CONTROL:

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

INVENTORY FOR POLLUTION PREVENTION PLAN

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

SPILL PREVENTION

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

GOOD HOUSEKEEPING

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

J. PRODUCTS AND MATERIALS MUST BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.

K. PRODUCTS MUST BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.

L. PRODUCT MIXING, PRODUCT DISPOSAL, AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

M. THE CONTRACTOR MUST INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.

MATERIALS AND PRODUCTS DRY STORAGE

“FOR BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE, PROVIDE COVER (E.G. PLASTIC SHEETING, TEMPORARY ROOFS) TO MINIMIZE THE EXPOSURE OF THESE PRODUCTS TO PRECIPITATION AND TO STORMWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. MINIMIZATION OF EXPOSURE IS NOT REQUIRED IN CASES WHERE EXPOSURE TO PRECIPITATION AND TO STORMWATER WILL NOT RESULT IN A DISCHARGE OF POLLUTANTS, OR WHERE EXPOSURE OF A SPECIFIC MATERIAL OR PRODUCT POSES LITTLE RISK TO STORMWATER CONTAMINATION (SUCH AS FINAL PRODUCTS AND MATERIALS INTENDED FOR OUTDOOR USE).”

EROSION CONTROL LEGEND

Ds1	TEMPORARY MULCHING - DETAIL A1/CE501
Ds2	TEMPORARY SEEDING - DETAIL A3/CE501
Ds3	DISTURBED AREA STABILIZATION W/ PERMANENT VEGETATION - DETAIL A3/CE502
Du	DUST CONTROL - DETAIL C1/CE501
Sd1-NS	SILT FENCING - NS - DETAIL A1/CE502
Tr	TREE PROTECTION FENCING- DETAIL C1/CE502
Cd-S	STONE CHECK DAM - DETAIL A1/CE503
St	RIPRAP -STORM OUTLET PROTECTION - DETAIL A3/CE503
Ss	SLOPE STABILIZATION - DETAIL C1/CE503

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

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EOR/AOR SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER CODY ALAN OWENBY No. 0000095439 04/03/2026

GSWCC# 95439, EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME

250 GRANT ROAD CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE

EROSION AND SEDIMENT CONTROL NOTES

SHEET NUMBER

CE002

SHEET 12 OF 18

ORIGINAL SHEET SIZE: 22" X 34"

FILE PATH: X:\FY25\1250121\07.CAD\CIVIL\CE001 PLOTTED BY: HENAO, CESAR DATE: 1/7/26

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS GAR100002

SWCD: Towaliga

Project Name: 250 Grant Road Culvert Replacement — **Address:** 250 Grant Road, Brooks, GA 30205

Local Issuing Authority: Fayette County — **Date on Plans:** July 10, 2025

Name & Email of person filling out checklist: Jesus Gonzalez, jesus.gonzalez@pondco.com

Plan Page #	Included Y/N		TO BE SHOWN ON ES&PC PLAN
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. 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. 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."
N/A	N/A	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: 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.
CG201	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-CE503	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-CE503	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-CE503	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, P.E.
LEVEL II CERTIFICATION
No.: 0000011643
EXPIRES : 06/03/2024

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EOR/AOR SEAL
GEORGIA — CODY ALAN OWENBY — REGISTERED No. PE047343 PROFESSIONAL ENGINEER — 04/03/2026
GSWCC# 95439, EXP. 9/10/2027

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

PROJECT NAME
250 GRANT ROAD CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE

DATE	DESCRIPTION	MARK

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES

SHEET NUMBER
CE003
SHEET 13 OF 18

ORIGINAL SHEET SIZE: 22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

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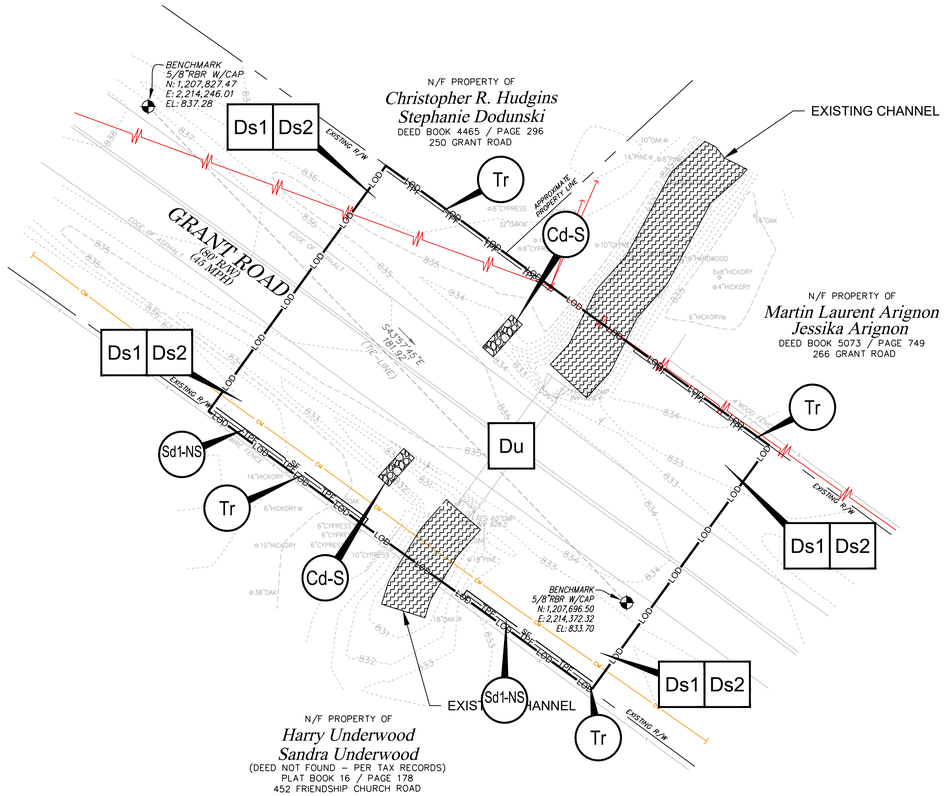

GENERAL SHEET NOTES

1. REFER TO SHEET C-001 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 30 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

A1 EROSION AND SEDIMENT CONTROL PLANS - INITIAL PHASE
SCALE: 1" = 20'

0 10' 20' 40' 60'

N

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

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EOR/AOR SEAL

GEORGIA REGISTERED NO. PE047343 PROFESSIONAL ENGINEER CODY ALAN OWENBY 04/03/2026

GSWCC# 95439, EXP. 9/10/2027

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DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE

EROSION AND SEDIMENT CONTROL PLANS - INITIAL PHASE

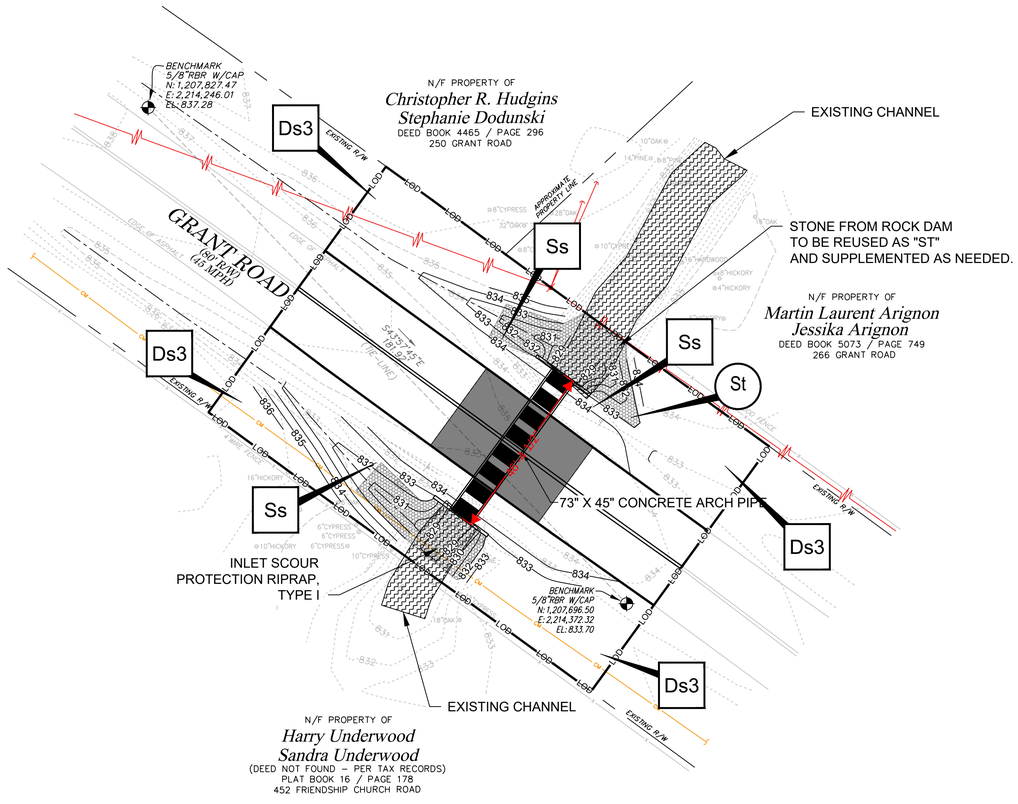
SHEET NUMBER

CE101

SHEET 14 OF 18

ORIGINAL SHEET SIZE: 22" X 34"

FILE PATH: X:\FY25\1250121\07 CAD-BIM\07.02 CAD\CIVIL\CE101 PLOTTED BY: HENAO, CESAR DATE: 1/7/26



A1 EROSION AND SEDIMENT CONTROL PLANS - FINAL PHASE
SCALE: 1" = 20'

0 10' 20' 40' 60'

GENERAL SHEET NOTES

1. REFER TO SHEET C-001 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 30 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

POND
3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

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EOR/AOR SEAL

GEORGIA REGISTERED NO. PE047343 PROFESSIONAL ENGINEER CODY ALAN OWENBY 04/03/2026

GSWCC# 95439, EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME

250 GRANT ROAD CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE

EROSION AND SEDIMENT CONTROL PLANS - FINAL PHASE

SHEET NUMBER

CE201

SHEET 15 OF 18

ORIGINAL SHEET SIZE: 22" X 34"

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

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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.

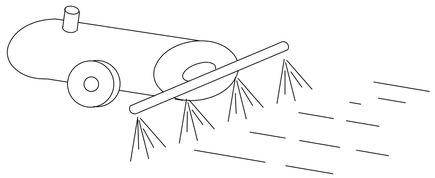
BARRIERS
SOLID BOARD FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

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 EROSIVE SOIL MATERIAL. SEE TOPSOILING.

STONE
COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.



C1 DUST CONTROL — Du
SCALE: N.T.S.

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

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

MULCHING MATERIALS

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

1. 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.
2. WOOD WASTE (CHIPS, SAWDUST OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH. THIS METHOD OF MULCHING CAN GREATLY REDUCE EROSION CONTROL COSTS.
3. 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.

1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
3. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH

1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK". DISKS MAY BE 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.
2. 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.
3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

A1 DISTURBED AREA STABILIZATION (WITH MULCHING) — Ds1
SCALE: N.T.S.

TEMPORARY SEEDING:

SEEDBED PREPARATION: WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AMD 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 OTHEWRWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO SEE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OF THE EQUIVALENT PER ACRE (12-16 LBS/1000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHISEL.

SEEDING:
REFER TO TEMPORARY SEEDING CHART THIS PAGE.

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

Species	Broadcast Rates - PLS Per Acre	Broadcast Rates - PLS Per 1000 sq. ft.	Planting Dates (Solid lines indicate optimum dates, dotted lines indicated permissible but marginal dates.)
BARLEY (Hordeum vulgare)			J F M A M J J A S O N D
alone	3 bu. (144 lbs.)	3.3 lb.	
in mixtures	½ bu. (24 lbs.)	0.6 lb.	
LESPEDEZA, ANNUAL (Iezpedeza striata)			J F M A M J J A S O N D
alone	40 lbs.	0.9 lb.	
in mixtures	10 lbs.	0.2 lb.	
LOVEGRASS, WEEPING (Eragrostis curvula)			J F M A M J J A S O N D
alone	4 lbs.	0.1 lb.	
in mixtures	2 lbs.	0.05 lb.	
MILLET, BROWNTOP (Pancium fasciculatum)			J F M A M J J A S O N D
alone	40 lbs.	0.9 lb.	
in mixtures	10 lbs.	0.2 lb.	
MILLET, PEARL (Pennesetum glaucum)			J F M A M J J A S O N D
alone	50 lbs.	1.1 lb.	
OATS (Avena sativa)			J F M A M J J A S O N D
alone	4 bu. (128 lbs.)	2.9 lb.	
in mixtures	1 bu. (32 lbs.)	0.7 lb.	
RYE (Secale cereale)			J F M A M J J A S O N D
alone	3 bu. (168 lbs.)	3.9 lb.	
in mixtures	½ bu. (28 lbs.)	0.6 lb.	
RYEGRASS, ANNUAL (Lolium temulentum)			J F M A M J J A S O N D
alone	40 lbs.	0.9 lb.	
SUDANGRASS (Sorghum sudonese)			J F M A M J J A S O N D
alone	60 lbs.	1.4 lb.	
WHEAT (Triticum aestivum)			J F M A M J J A S O N D
alone	3 bu. (180 lbs.)	4.1 lb.	
in mixtures	½ bu. (30 lbs.)	0.7 lb.	

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

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

1. UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIEW SEEDING RATES.
2. SEEDING DATES MAY NEED TO BE ALTERED TO FIT TEMPERATURE VARIATIONS AND LOCAL CONDITIONS.
3. FOR MAJOR LAND RESOURCE AREAS (MLRAs), SEE "TACKIFIERS AND BINDERS" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION.
3. 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:

1. INSTALL ALL E&SC MEASURES PRIOR TO APPLYING TEMPORARY VEGETATION.
2. GRADING OR SHAPING ARE NOT REQUIRED IF SLOPES CAN BE PLANTED WITH A HYDROSEEDER OR BY HAND-SEEDING.
3. SEEDBED PREPARATION IS NOT REQUIRED IF SOIL IS LOOSE AND NOT SEALED BY RAIN.
4. WHEN THE SOIL IS SEALED OR CRUSTED, IT SHOULD BE PITTED, TRENCHED OR SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.
5. AGRICULTURAL LIME IS NOT REQUIRED.
6. 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.)
7. 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.
8. APPLY SEED BY HAND, CYCLONE SEEDER, DRILL OR HYDRO-SEEDER. SEED PLANTED WITH A DRILL SHOULD BE PLANTED ¼"-½" DEEP.
9. APPLY IN ACCORDANCE WITH SPECIFICATIONS ON THE E&SC PLAN. IF INFORMATION IS NOT AVAILABLE, SELECT A TEMPORARY COVER FROM TABLE 1.
10. 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.

A3 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING) — Ds2
SCALE: N.T.S.

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

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EOR/AOR SEAL
GEORGIA — BY GIT REGENTS — CODY ALAN OWENBY — No. PE047343 — PROFESSIONAL — ENGINEER
04/03/2026
GSWCC# 95439, EXP. 9/10/2027

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

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250 GRANT ROAD CULVERT REPLACEMENT
FAYETTE COUNTY, GA

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MARK	DESCRIPTION	DATE

DESIGNED BY: CAO
DRAWN BY: JCU/CAH/LS
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SUBMITTED BY: TT
DATE: JANUARY 6, 2026
PROJECT # 1250121

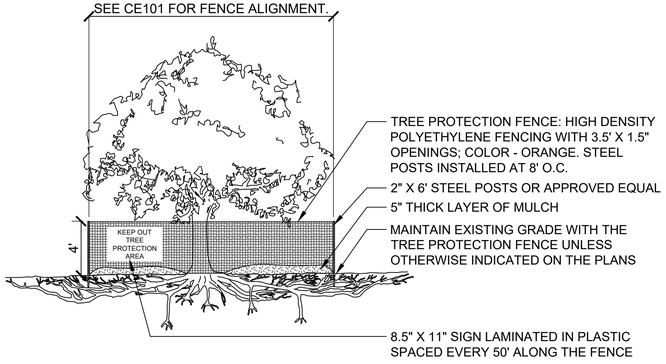
SHEET TITLE
EROSION AND SEDIMENT CONTROL DETAILS

SHEET NUMBER
CE501
SHEET 16 OF 18

ORIGINAL SHEET SIZE:
22" X 34"

FILE PATH: X:\FY25\1250121\07.CAD-BIM\07.02 CAD\CIVIL\CE501 PLOTTED BY: HENAO, CESAR DATE: 1/7/26

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

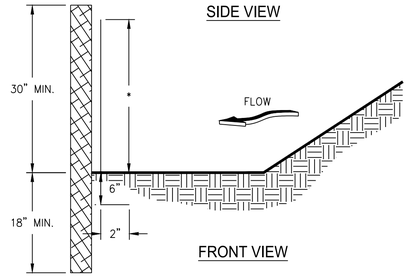
SECTION VIEW

NOTES:
1. SEE CE101 FOR LIMITS OF ORANGE TREE PROTECTION FENCE.
2. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
3. NO EQUIPMENT SHALL OPERATE INSIDE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
4. SEE SITE PREPARATION FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.

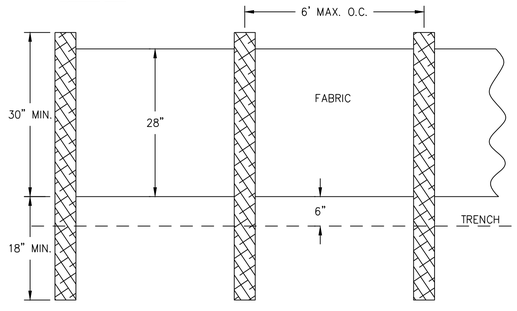
C1 ORANGE TREE PROTECTION — Tr
SCALE: N.T.S.

SILT FENCE - TYPE NON-SENSITIVE

SIDE VIEW



FRONT VIEW



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

A1 SILT FENCE - NON SENSITIVE — Sd1-NS
SCALE: N.T.S.

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

CONSTRUCTION SPECIFICATIONS

GRADING & SHAPING

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

LIME AND FERTILIZER RATES AND ANALYSIS

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

LIME AND FERTILIZER APPLICATION

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

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

FERTILIZER REQUIREMENTS

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

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

A3 DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDING) — Ds3
SCALE: N.T.S.

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3500 Parkway Lane
Suite 500
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Georgia 30092

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EOR/AOR SEAL

GEORGIA — CODY ALAN OWENBY — REGISTERED PROFESSIONAL ENGINEER — No. 35047 — 04/03/2026

GSWCC# 95439, EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME

250 GRANT ROAD CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE

EROSION AND SEDIMENT CONTROL DETAILS

SHEET NUMBER

CE502

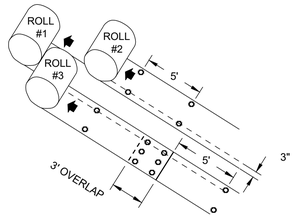
SHEET 17 OF 18

ORIGINAL SHEET SIZE: 22" X 34"

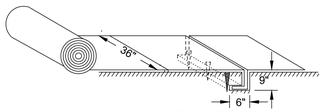
100% SUBMITTAL - ISSUED FOR CONSTRUCTION

FILE PATH: X:\FY25\1250121\07 CAD-BIM\07.02 CAD\CIVIL\CE501 PLOTTED BY: HENAO, CESAR DATE: 1/7/26

BLANKET AND MATTING CROSS-SECTIONS



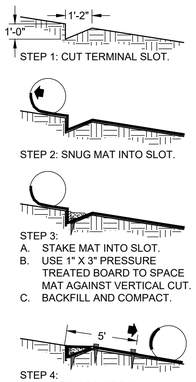
SEQUENTIAL ROLL RUN OUT IN CHANNELS



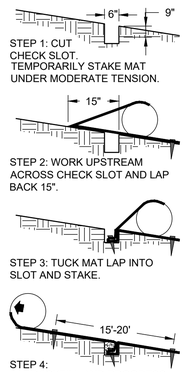
PICTORAL VIEW OF TRANSVERSE SLOT

NOTES

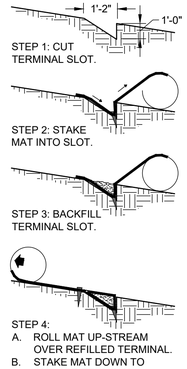
1. START AT DOWNSTREAM TERMINAL AND PROGRESS UPSTREAM.
2. FIRST ROLL IS CENTERED LONGITUDINALLY IN MID-CHANNEL AND PINNED WITH TEMPORARY STAKES TO MAINTAIN ALIGNMENT.
3. SUBSEQUENT ROLLS FOLLOW IN STAGGERED SEQUENCE BEHIND THE FIRST ROLL. USE THE CENTER ROLL FOR ALIGNMENT TO THE CHANNEL CENTER.
4. WORK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



UPSTREAM TERMINAL



TRANSVERSE CHECK SLOT



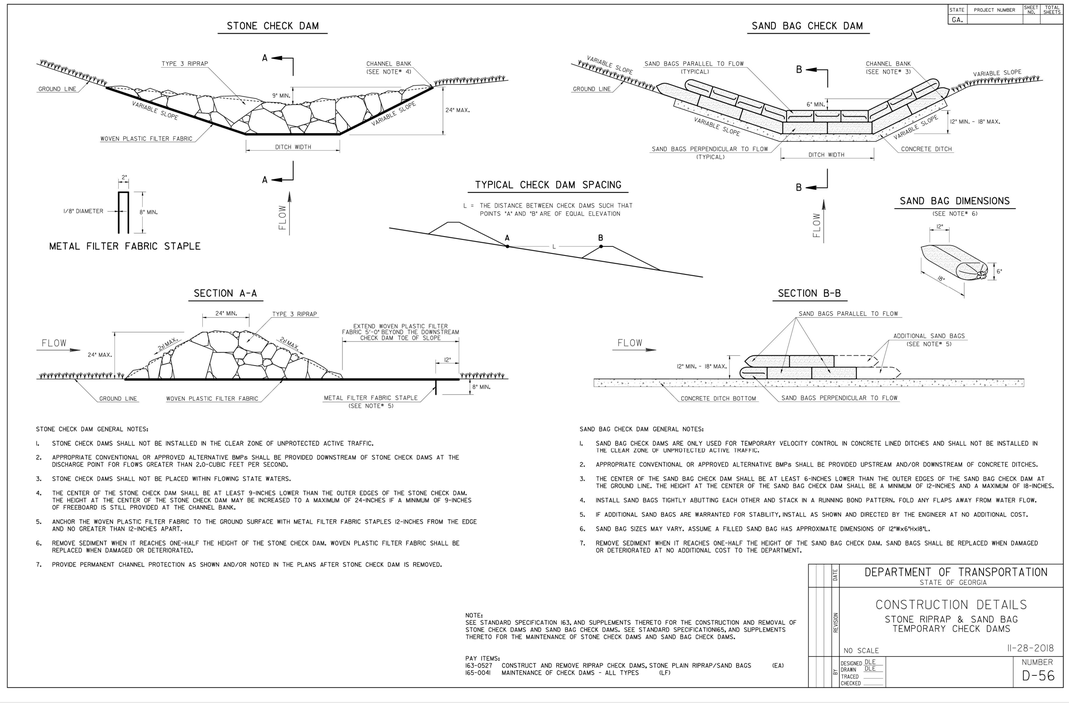
DOWNSTREAM TERMINAL

C1 SLOPE STABILIZATION

SCALE: N.T.S.

Ss

(St) ID	Pipe Diameter (Do)	Flow Rate (cfs)	Velocity (fps)	Tailwater (Min/Max)	Riprap size per HEC14 (d50)	Apron Thickness	Apron Length (HEC14)	Apron Width at HW (W=3Do)	Apron Width at End (W=Do+La)	Apron Weight (tons)
1	45"x73"	44.15	5.69	Min	0.35'	18" Minimum	16'	18.25	26.08333333	45.9648



STONE CHECK DAM GENERAL NOTES:

1. STONE CHECK DAMS SHALL NOT BE INSTALLED IN THE CLEAR ZONE OF UNPROTECTED ACTIVE TRAFFIC.
2. APPROPRIATE CONVENTIONAL OR APPROVED ALTERNATIVE BMPs SHALL BE PROVIDED DOWNSTREAM OF STONE CHECK DAMS AT THE DISCHARGE POINT FOR FLOWS GREATER THAN 2.0-CUBIC FEET PER SECOND.
3. STONE CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.
4. THE CENTER OF THE STONE CHECK DAM SHALL BE AT LEAST 9-INCHES LOWER THAN THE OUTER EDGES OF THE STONE CHECK DAM. THE HEIGHT AT THE CENTER OF THE STONE CHECK DAM MAY BE INCREASED TO A MAXIMUM OF 24-INCHES IF A MINIMUM OF 9-INCHES OF FREEBOARD IS STILL PROVIDED AT THE CHANNEL BANK.
5. 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.
6. REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE STONE CHECK DAM. WOVEN PLASTIC FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED.
7. PROVIDE PERMANENT CHANNEL PROTECTION AS SHOWN AND/OR NOTED IN THE PLANS AFTER STONE CHECK DAM IS REMOVED.

SAND BAG CHECK DAM GENERAL NOTES:

1. SAND BAG CHECK DAMS ARE ONLY USED FOR TEMPORARY VELOCITY CONTROL IN CONCRETE LINED DITCHES AND SHALL NOT BE INSTALLED IN THE CLEAR ZONE OF UNPROTECTED ACTIVE TRAFFIC.
2. APPROPRIATE CONVENTIONAL OR APPROVED ALTERNATIVE BMPs SHALL BE PROVIDED UPSTREAM AND/OR DOWNSTREAM OF CONCRETE DITCHES.
3. THE CENTER OF THE SAND BAG CHECK DAM SHALL BE AT LEAST 6-INCHES LOWER THAN THE OUTER EDGES OF THE SAND BAG CHECK DAM AT THE GROUND LINE. THE HEIGHT AT THE CENTER OF THE SAND BAG CHECK DAM SHALL BE A MINIMUM OF 12-INCHES AND A MAXIMUM OF 18-INCHES.
4. INSTALL SAND BAGS TIGHTLY ABUTTING EACH OTHER AND STACK IN A RUNNING BOND PATTERN. FOLD ANY FLAPS AWAY FROM WATER FLOW.
5. IF ADDITIONAL SAND BAGS ARE WARRANTED FOR STABILITY, INSTALL AS SHOWN AND DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
6. SAND BAG SIZES MAY VARY, ASSUME A FILLED SAND BAG HAS APPROXIMATE DIMENSIONS OF 12"Wx6"Hx18"L.
7. REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SAND BAG CHECK DAM. SAND BAGS SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED AT NO ADDITIONAL COST TO THE DEPARTMENT.

NOTE:
SEE STANDARD SPECIFICATION 163, AND SUPPLEMENTS THERETO FOR THE CONSTRUCTION AND REMOVAL OF STONE CHECK DAMS AND SAND BAG CHECK DAMS. SEE STANDARD SPECIFICATION165, AND SUPPLEMENTS THERETO FOR THE MAINTENANCE OF STONE CHECK DAMS AND SAND BAG CHECK DAMS.

PAY ITEMS:
163-0527 CONSTRUCT AND REMOVE RIPRAP CHECK DAMS, STONE PLAIN RIPRAP/SAND BAGS (EA)
165-0041 MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
STONE RIPRAP & SAND BAG TEMPORARY CHECK DAMS

NO SCALE 11-28-2018

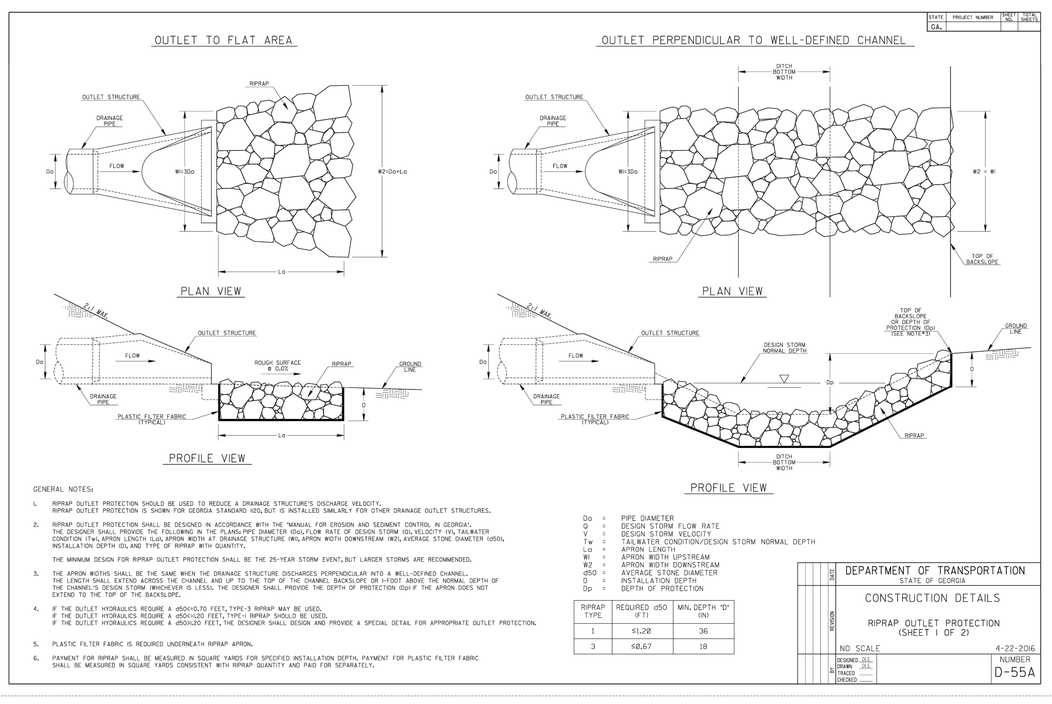
DESIGNED DLE
DRAWN DLE
TRACED
CHECKED

NUMBER D-56

A1 STONE CHECK DAM

SCALE: N.T.S.

Cd-S



GENERAL NOTES:

1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.
2. RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'. THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (Lo), APRON WIDTH AT DRAINAGE STRUCTURE (W1), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

   THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
3. THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PERPENDICULAR INTO A WELL-DEFINED CHANNEL. THE LENGTH SHALL EXTEND ACROSS THE CHANNEL AND UP TO THE TOP OF THE CHANNEL BACKSLOPE OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE APRON DOES NOT EXTEND TO THE TOP OF THE BACKSLOPE.
4. IF THE OUTLET HYDRAULICS REQUIRE A d50<0.70 FEET, TYPE-3 RIPRAP MAY BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50<1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.
6. PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

Do = PIPE DIAMETER
Q = DESIGN STORM FLOW RATE
V = DESIGN STORM VELOCITY
Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
Lo = APRON LENGTH
W1 = APRON WIDTH UPSTREAM
W2 = APRON WIDTH DOWNSTREAM
d50 = AVERAGE STONE DIAMETER
D = INSTALLATION DEPTH
Dp = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	≤1.20	36
3	≤0.67	18

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
RIPRAP OUTLET PROTECTION (SHEET 1 OF 2)

NO SCALE 4-22-2016

DESIGNED DLE
DRAWN DLE
TRACED
CHECKED

NUMBER D-55A

A3 RIP RAP - OUTLET PROTECTION

SCALE: N.T.S.

St

100% SUBMITTAL - ISSUED FOR CONSTRUCTION

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Georgia 30092

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EOR/AOR SEAL

GEORGIA REGISTERED PROFESSIONAL ENGINEER CODY ALAN OWENBY
No. 35047343
04/03/2026
GSWCC# 95439, EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME

250 GRANT ROAD CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

MARK	DESCRIPTION	DATE

DESIGNED BY:	CAO
DRAWN BY:	JCU/CAH/LS
CHECKED BY:	COA
SUBMITTED BY:	TT
DATE:	JANUARY 6, 2026
PROJECT #	1250121

SHEET TITLE

EROSION AND SEDIMENT CONTROL DETAILS

SHEET NUMBER

CE503

SHEET 18 OF 18

ORIGINAL SHEET SIZE: 22" X 34"

FILE PATH: X:\FY25\1250121\07.CAD-BIM\07.02 CAD\CIVIL\CE501 PLOTTED BY: HENAO, CESAR DATE: 1/7/26