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CIVIL CONSTRUCTION DOCUMENTS FOR

FAYETTE COUNTY

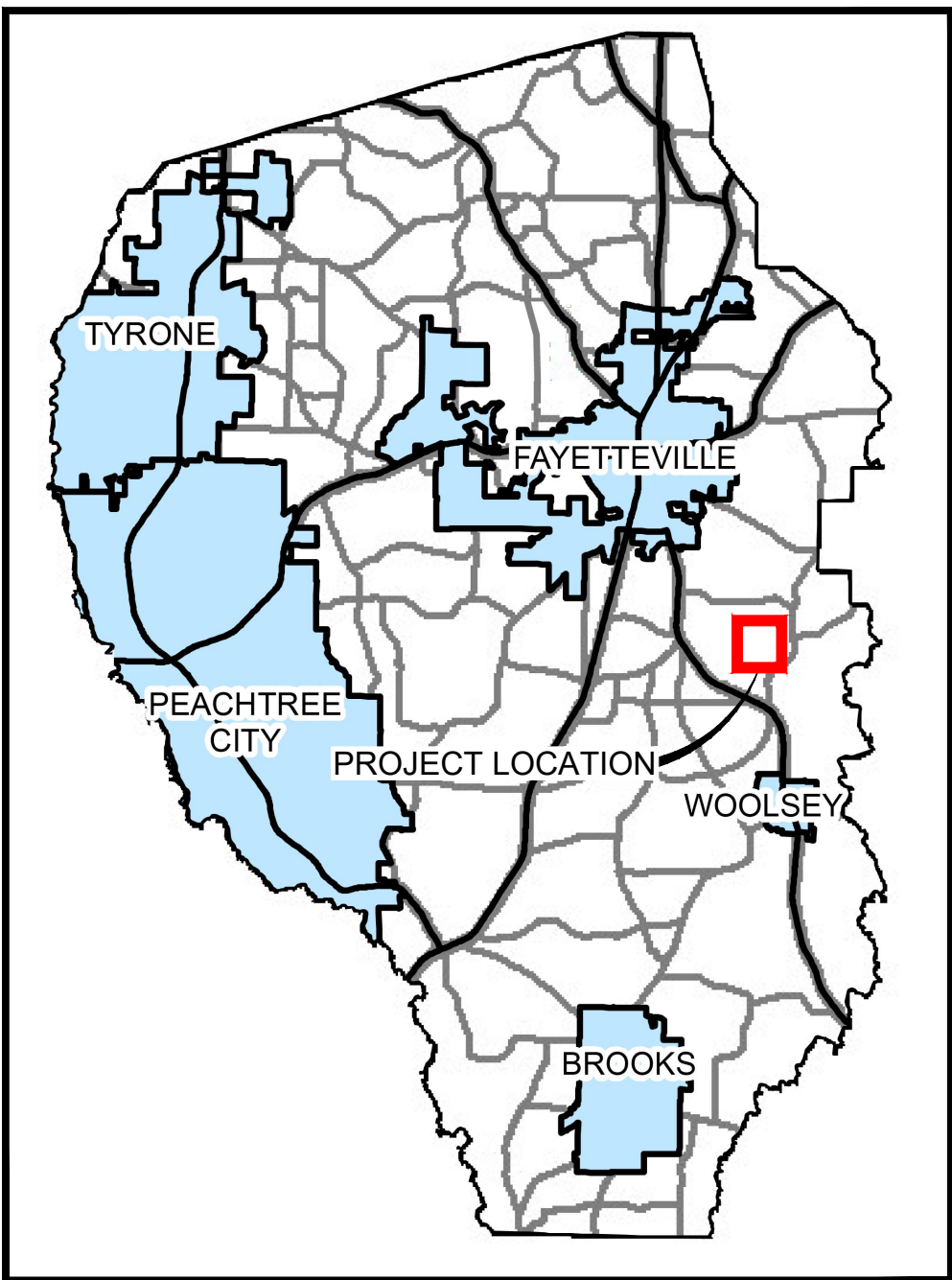
CROSS CREEK TRAIL - CULVERT REPLACEMENT

LAND LOT 23 & 42, 5TH DISTRICT, FAYETTE COUNTY, GA.

NOVEMBER 24, 2025

100% DESIGN SUBMITTAL

COUNTY PROJECT NUMBER: 21SAJ



VICINITY MAP

SCALE: NTS



CLIENT INFORMATION	
OWNER CONTACT (24-HR): PHIL MALLON PHONE (770) 313-9855 publicworks@FayetteCountyGA.GOV	CLIENT INFORMATION: FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT 140 STONEWALL AVE. W., SUITE 203, FAYETTEVILLE, GA. 30214
CIVIL DESIGN TEAM	
PROJECT MANAGER: CODY OWENBY, P.E. MorganD@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

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

PROJECT DESCRIPTION:

THE PROJECT CONSISTS OF REMOVING THE EXISTING DETERIORATED QUADRUPLE 72-INCH DIAMETER CMP CULVERTS. EACH CULVERT HAS A LENGTH OF 76-FT. THE CULVERTS ARE TO BE REPLACED WITH A DOUBLE 9' X 9' CONCRETE BOX CULVERT.

PROJECT INFORMATION:

DISTURBED AREA:
0.42 AC

IMPERVIOUS SURFACE AREA:
0.05 AC

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.

CIVIL INDEX	
SHEET NUMBER	SHEET TITLE
G-001	CIVIL COVER SHEET
C-001	LEGEND AND ABBREVIATIONS
C-002	CIVIL GENERAL NOTES
V-001	TOPOGRAPHIC SURVEY
CD101	CIVIL SITE DEMOLITION PLAN
CG101	SITE AND GRADING PLAN
CG201	CULVERT PROFILE
CG301	EASEMENT EXHIBIT
CE001	EROSION AND SEDIMENT CONTROL NOTES AND LEGEND
CE002	EROSION AND SEDIMENT CONTROL NOTES AND LEGEND
CE003	EROSION AND SEDIMENT CONTROL NOTES AND LEGEND
CE101	EROSION AND SEDIMENT CONTROL INITIAL PHASE
CE201	EROSION AND SEDIMENT CONTROL FINAL PHASE
CE501	EROSION AND SEDIMENT CONTROL DETAILS
CE502	EROSION AND SEDIMENT CONTROL DETAILS
CE503	EROSION AND SEDIMENT CONTROL DETAILS
CE504	EROSION AND SEDIMENT CONTROL DETAILS
C-501	CONSTRUCTION DETAILS
C-502	CONSTRUCTION DETAILS
C-503	CONSTRUCTION DETAILS

UTILITY NOTIFICATION/RELOCATION CHECKBOX				
UTILITY COMPANY	PLAN PHASE	CONTACT	DATE NOTIFIED	UTILITY RESPONSE
SOUTHERN COMPANY	35% DESIGN	MFLOYD@SOUTHERNCO.COM WCBRITTI@SOUTHERNCO.COM X2KSTEPH@SOUTHERNCO.COM	12/9/2021	NO RESPONSE
	65% DESIGN		3/11/2022	NO RESPONSE
	95% DESIGN		7/5/2022	NO RESPONSE
FAYETTE COUNTY WATER SYSTEM (FCWS)	35% DESIGN	JAMES ROSSER (JROSSER@FAYETTECOUNTYGA.GOV)	12/9/2021	NO RESPONSE
	65% DESIGN		3/11/2022	NO RESPONSE
	95% DESIGN		7/5/2022	NO RESPONSE
COMCAST	35% DESIGN	REGINALD ARNEY (REGINALD_ARNEY@COMCAST.COM)	12/9/2021	NO RESPONSE
	65% DESIGN		3/11/2022	NO RESPONSE
	95% DESIGN		7/5/2022	NO RESPONSE
COWETA-FAYETTE EMC	35% DESIGN	STEVE JONES (STJONES@UTILITY.ORG)	12/9/2021	NO RESPONSE
	65% DESIGN		3/11/2022	NO RESPONSE
	95% DESIGN		7/5/2022	NO RESPONSE
ATT	35% DESIGN	ANDRE WALTON AW9750@ATT.COM	12/9/2021	NO RESPONSE
	65% DESIGN		3/11/2022	NO RESPONSE
	95% DESIGN		7/5/2022	NO RESPONSE
ZAYO	95% DESIGN	KATE.PETERS@COBBFENDLEY.COM	7/5/2022	NO RESPONSE



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

100% DESIGN ISSUED FOR CONSTRUCTION

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

PROJECT NAME
**CROSS CREEK TRAIL
CULVERT REPLACEMENT**
FAYETTE COUNTY, GA

DRAWING ISSUE
DATE
DESCRIPTION
MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: TT
DATE: NOVEMBER 24, 2025
PROJECT # 1210496

SHEET TITLE
CIVIL COVER SHEET

SHEET NUMBER
G-001
SHEET 1 OF 20
ORIGINAL SHEET SIZE:
22" X 34"

ABBREVIATIONS

D	A	ALARM ANNUNCIATOR PANEL AUTOMATIC	E	EAST	LEN	LEN LENGTH
	AAP	AIR RELEASE VALVE AUTOMATIC	EA	EACH	LB	POUND(S)
	AARV	AIR VENT	ECC	ECCENTRIC	LF	LINEAR FEET
	AB	ANCHOR BOLT	EF	EACH FACE	LP	LIGHT POLE
	ABAN	ABANDON(ED)	EFF	EFFLUENT	LS	LINE SLURRY
	ABRSV	ABRASIVE	EFL	EASEMENT LINE	LSS	LIME STABILIZED SLUDGE
	ABS	ACRYLONITRILE BUTADIENE STYRENE	EL	ELEVATION	LVR	LOUVER
	ABV	ABOVE	ELC	ELECTRIC	LWL	LOW WATER LEVEL
	AC	ALTERNATING CURRENT	ELM	ELECTROMER	M	METER
	ACOMP	ASPHALT-COATED CORRUGATED METAL PIPE	ELEC	ELECTRICAL	MAINT	MAINTAIN OR MAINTENANCE
	ACP	ASBESTOS CEMENT PIPE	EMER	EMERGENCY	MAN	MANUAL(LY)
	ADDM	ADDENDUM	EMC	ENCASE(MENT)	MAS	MASONRY
	ADH	ADHESIVE	ENGR	ENGINEER	MATL	MATERIAL
	AFF	ABOVE FINISHED FLOOR	EP	EDGE OF PAVEMENT	MAX	MAXIMUM
	AFG	ABOVE FINISHED GRADE	EPDM	ETHYLENE PROPYLENE DIENE MONOMER	MCC	MOTOR CONTROL CENTER
	AFS	ABOVE FINISHED SLAB	EPRF	EXPLOSION PROOF EQUIPMENT	ME	METERED END
	AHD	AHEAD	ER	ECCENTRIC REDUCER	MECH	MECHANICAL
	AL	ALUMINUM	ESTM	EASEMENT	MEG	MATCH EXISTING GRADE
	ALT	ALTERNATE	EST	ESTIMATE(D)	MFR	MANUFACTURE(R)
	AMP	AMPERE	EW	EACH WAY	MG	MILLION GALLONS
	AMT	AMOUNT	EXC	EXCAVATE	MGD	MILLION GALLONS PER DAY
	APRX	APPROXIMATE(LY)	EXP	EXPANSION	MH	MANHOLE
	ARCH	ARCHITECT(URAL)	EXST	EXISTING	MI	MILE(S)
	AS	ALUM SOLUTION	EXT	EXISTING GRADE	MIN	MINIMUM, MINUTE(S)
	ASPH	ASPHALT	EXTN	EXTENSION	MISC	MISCELLANEOUS
	ASSY	ASSEMBLY			MJ	MECHANICAL JOINT
	AVE	AVENUE			ML	MIXED LIQUOR
	A/C	AIR CONDITIONING	F	FABRICATE(D)	MO	MASONRY OPENING
	AVV	AIR/VACUUM AIR VALVE	FAB	FLANGED COUPLING ADAPTER	MON	MONUMENT
C	B	BAFFLE	FCA	FLAT BAR	MPH	MILES PER HOUR
	BCV	BALL CHECK VALVE	FB	FLOW-CONTROL VALVE	MPT	MALE PIPE THREAD
	BF	BLIND FLANGE	FCV	FLOOR DRAIN	MS	MOTOR STARTER
	BFV	BUTTERFLY VALVE	FD	FOUNDATION	MSP	MOTOR STARTER PANEL
	BHP	BRAKE HORSEPOWER	FDN	FILTER(ED) EFFLUENT	MTD	MOUNTED
	BI	BLACK IRON	FE	FIRE HYDRANT	MV	MOTORIZED VALVE
	BITUM	BITUMINOUS OR BITUMASTIC	FHY	FIGURE	MW	MANWAY
	BL	BASELINE	FIG	FINISH(ED) FLOOR	MWL	MEAN WATER LEVEL
	BLDG	BUILDING	FIN	FINISH GRADE	MWP	MAXIMUM WORKING PRESSURE
	BLK	BLOCK	FINFLR	FINISH GRADE	N	NORTH
	BM	BENCH MARK	FINGR	FLUORIDE	NaOCl	SODIUM HYPOCHLORITE
	BOC	BACK OF CURB	FL	FLANGE(D)	NE	NORTHEAST
	BOT	BOTTOM	FLG	FLOW LINE	NIC	NOT IN CONTRACT
	BP	BASE PLATE	FLL	FILTER	NO	NUMBER
	BRG	BEARING	FLTR	FORCE MAIN	NOM	NOMINAL
	BSP	BLACK STEEL PIPE	FM	FEET PER MINUTE	NPF	NATIONAL PIPE THREAD
	BV	BALL VALVE	FPM	FEET PER SECOND	NPT	NATIONAL PIPE TAPER (THREAD)
	BW	BOTH WAYS	FPS	FIBERGLASS REINFORCED PLASTIC	NPW	NON-POTABLE WATER
	BWW	BACKWASH WATER	FRP	FOOT OR FEET	NRS	NON-RISING SYSTEM
			FT	FUTURE	NTS	NOT TO SCALE
			FUT	FOOT VALVE	NW	NORTHWEST
			FV	FINISHED WATER	N/A	NOT APPLICABLE
			FW	FACTORY WIRED PANEL		
			FWP	FACE TO FACE	O	OXYGEN
B	C	CAPACITY	G	GAUGE	O2	ON CENTER
	CAP	COMPRESSED AIR	GA	GALLON(S)	OC	OUTSIDE DIAMETER
	CA	COMBINATION AIR VALVE	GAL	GALVANIZED	ODP	OPEN DRIP PROOF
	CAV	CATCH BASIN	GALV	GALVANIZED IRON PIPE	OF	OUTSIDE FACE
	CB	CHLORINE CONTACT CHAMBER	GIP	GROOVE JOINT	OH	OVER HEAD
	CCC	CHLORINATED EFFLUENT	GJ	GROUND	OHV	OVER HEAD WIRE
	CE	CUBIC FEET PER MINUTE	GND	GALLONS PER DAY	OPP	OPPOSITE
	CFM	CUBIC FEET PER SECOND	GPD	GALLONS PER HOUR	OPT	OPTIONAL
	CFS	CATCH VALVE	GPH	GALLONS PER MINUTE	OR	OFFICIAL RECORDS
	CV	CAST IRON	GPM	GALLONS PER SECOND	OSY	OUTSIDE SCREW AND YOKE
	CI	CAST IRON PIPE	GPS	GRADE	O&M	OPERATION AND MAINTENANCE
	CIP	CAST IRON SOIL PIPE	GR	GRATING	P	PROCESS AIR
	CISP	CONSTRUCTION JOINT	GRTG	GALVANIZED STEEL	PA	POINT OF CURVE
	CJ	CIRCUIT	GS	GALVANIZED STEEL PIPE	PC	PERMANENT CONTROL MONUMENT PLAIN
	CKT	CENTER LINE	GSP	GROUND STORAGE RESERVOIR	PE	END
	CL	CHLORINE GAS	GSR	GROUND STORAGE TANK	PG	PRESSURE GAGE
	CL2	CHAIN LINK FENCE	GST	GROUT	PI	POINT OF INTERSECTION
	CLF	CLEAR OR CLEARANCE	GV	GATE VALVE	PL	PLATE
	CLVT	CULVERT	H	HOSE BIBB	P/L	PROPERTY LINE
	CMP	CORRUGATED METAL PIPE	HB	HEAVY-DUTY	PNV	PINCH VALVE
	CMPA	CORRUGATED METAL PIPE ARCH	HD	HIGH-DENSITY POLYETHYLENE	POB	POINT OF BEGINNING
	CMU	CONCRETE MASONRY UNIT	HDPE	HYDRAULIC	POJ	PUSH-ON JOINT
	CND	CONDUIT	HDR	HYDROFLUOSILICIC ACID	POL	POLYMER
A	CNR	CORNER	HGR	HANGER	PP	POWER POLE
	CO	CLEAN OUT	HGT	HAND RAIL	PPD	POUNDS PER DAY
	CO2	COAGULANT	HNDRL	HAND-OFF-AUTO	PPM	PARTS PER MILLION
	COAG	COLUMN	HOA	HORIZONTAL	PREFAB	PREFABRICATED
	COL	COMMON	HORIZ	HORSEPOWER	PRESS	PRESSURE
	COM	CONCRETE	HP	HIGH PRESSURE AIR	PRV	PRESSURE REDUCING VALVE
	CONC	CONNECTION	HPA	HOUR	PRW	PROCESS WATER
	CONN	CONSTRUCTION(ION)	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	PSF	POUNDS PER SQUARE FOOT
	CONT	CONTINUOUS	HWL	HIGHWAY	PSI	POUNDS PER SQUARE INCH
	CONTR	CONTRACT(OR)	HWY	HERTZ	PSIG	POUNDS PER SQUARE INCH ABSOLUTE
	COORD	COORDINATE	HZ		PT	POTABLE WATER
	CO	COMPANY			PV	PUG VALVE
	CP	CONCRETE PIPE	I	INSIDE DIAMETER	PVC	POLYVINYL CHLORIDE
	CPA	CONCRETE PIPE ARCH	IN	INCH(ES)	PVMT	PAVEMENT
	CPLG	COUPLING	INF	INFLUENT	PW	POTABLE WATER
	CPVC	CHLORINATED POLYVINYL CHLORIDE	INT	INTERSECTION	PWR	PWR POWER
	CR	CONCENTRIC REDUCER	INTR	INTERIOR	Q	FLOW QUANTITY
	CS	CHLORINE SOLUTION	INV	INVERT	QTY	
	CSG	CASING	IPS	IRON PIPE	R	RADIUS
	CTV	CABLE TELEVISION	IR	INTERNATIONAL PIPE STANDARD	RAS	RETURN ACTIVATED SLUDGE
	CV	CUBIC YARD	IW	INTERNAL RECYCLE IRRIGATION WATER	RCB	REINFORCED CONCRETE BOX
	CYL	CYLINDER			RCP	REINFORCED CONCRETE PIPE
	C&G	CURB AND GUTTER			RCPA	REINFORCED CONCRETE PIPE ARCH
	C/C	CENTER TO CENTER			RDCR	REDUCER
J	D	DATUM	J	JUNCTION BOX	REBAR	REBAR REINFORCING STEEL REF
	DAT	DOUBLE	JB	JOINT	REF	REFERENCE
	DBL	DIRECT CURRENT	JT		REINF	REINFORCE(D)(ING)(MENT)
	DEMO	DEMOLITION			REM	REMOVE(ABLE)
	DEPT	DEPARTMENT			REQD	REQUIRED
	DESC	DESCRIPTION			RF	RAISED FACE
	DET	DETAIL			RM	ROOM
	DF	DIESEL FUEL			RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	DI	DUCTILE IRON				
	DIA	DIAMETER	K	KIP (1,000 LB)		
	DIFF	DIFFUSER	K	KICK PLATE		
	DIM	DIMENSION	KPL	KILOVOLT		
	DIP	DUCTILE IRON PIPE	KV	KILOVOLT-AMPERE		
	DISCH	DISCHARGE	KWA	KILOWATT		
	DIREC	DIRECTION	KWH	KILOWATT-HOUR		
	DMH	DROP MANHOLE				
	DOWN	DRAIN				
	DR	DIAPHRAGM VALVE				
	DV	DRIVEWAY				
	DWG	DRAWING	L	LEFT		
	DWV	DRAIN, WASTE, AND VENT	LAB	LABORATORY		
			LAM	LAMINATE OR LAMINATION		
			LATL	LAVATORY		
			LAV			

CIVIL LEGEND

PROPOSED ITEM	DESCRIPTION
+ 267.54	SPOT ELEVATION
---C/L---	CONSTRUCTION LIMITS
---W---W---	DOMESTIC WATER
---FW---	FIRE WATER
	VALVE
	FIRE HYDRANT
---SS---SS---	SANITARY SEWER
	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEANOUT
	STORM DRAIN
	DROP INLET
	HEADWALL
---x---x---	FENCE
---40---	PROPOSED CONTOUR MAJOR
---42---	PROPOSED CONTOUR MINOR
	NORTH ARROW
---TPF---	TREE PROTECTION FENCE
---??---	UNKNOWN UTILITY
---E---	EXISTING ELECTRICAL OVERHEAD
---CM---	EXISTING COMMUNICATION LINE OVERHEAD
	GUARD RAIL
	BENCHMARK
	UNDERDRAIN
	UNION
	TRENCH DRAIN
	TOTAL DYNAMIC HEAD
	TOTALLY ENCLOSED FAN COOLED
	TELEPHONE
	TOTALLY ENCLOSED NON-VENTILATED
	THREAD(ED)
	THICKNESS
	TOLERANCE
	TOP OF BANK
	TOP OF CURB
	TOE OF SLOPE
	TOTAL
	TELEPHONE POLE
	THICKENED SLUDGE
	TELEVISION
	TYPICAL
	TOP AND BOTTOM
	UNDERGROUND ELECTRIC
	UNDERGROUND TELEPHONE CABLE
	UTILITY
	VOLT(S)
	VACUUM
	VARIES
	VERTICAL CURVE
	VITRIFIED CLAY PIPE
	VELOCITY
	VERTICAL
	VARIABLE FREQUENCY DRIVE
	VOLUME
	WATT, WEST
	WASTE ACTIVATED SLUDGE WALL
	CLEAN OUT
	WIDE FLANGE
	WALL HYDRANT
	WATER LINE
	WATER MAIN
	WATER PROOF(ING),WORKING POINT
	WORKING PRESSURE
	WATER SURFACE
	WELDED STEEL PIPE
	WEIGHT
	WATER TREATMENT PLANT
	WASH WATER
	WELDED WIRE FABRIC
	WELDED WIRE MESH
	WASTEWATER TREATMENT PLANT
	WITH
	WITHOUT
	TRANSFER
	YD YARD(S)
	YARD HYDRANT
	YEAR(S)

HATCHING LEGEND

	CAST-IN-PLACE CONCRETE
	ASPHALT PAVEMENT SURFACE
	HEAVY DUTY GRAVEL
	EARTH
	RIP RAP

REFERENCE SYMBOLS

	DENOTES SECTION LETTER IDENTIFICATION
	DENOTES DRAWING NO WHERE SECTION IS LOCATED
SECTION REFERENCE	
	DENOTES SECTION LETTER IDENTIFICATION
	DENOTES DRAWING NO WHERE SECTION IS LOCATED
SECTION	
SCALE:	
SECTION TITLE	
	DENOTES DETAIL NUMBER IDENTIFICATION
	DENOTES DRAWING NO WHERE DETAIL IS LOCATED
DETAIL REFERENCE	
	DENOTES DETAIL NUMBER IDENTIFICATION
	DENOTES DRAWING NO WHERE DETAIL IS LOCATED
DETAIL	
SCALE:	
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, P.E.

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



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Georgia 30092

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FOR/AOR SEAL



GSWCC# 95439,
EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

CROSS CREEK
TRAIL
CULVERT
REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: TT
DATE: NOVEMBER 24, 2025
PROJECT # 1210496

SHEET TITLE

LEGEND AND
ABBREVIATIONS

SHEET NUMBER

C-001

SHEET 2 OF 20

ORIGINAL SHEET SIZE:
22" X 34"

100% DESIGN ISSUED FOR CONSTRUCTION

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.

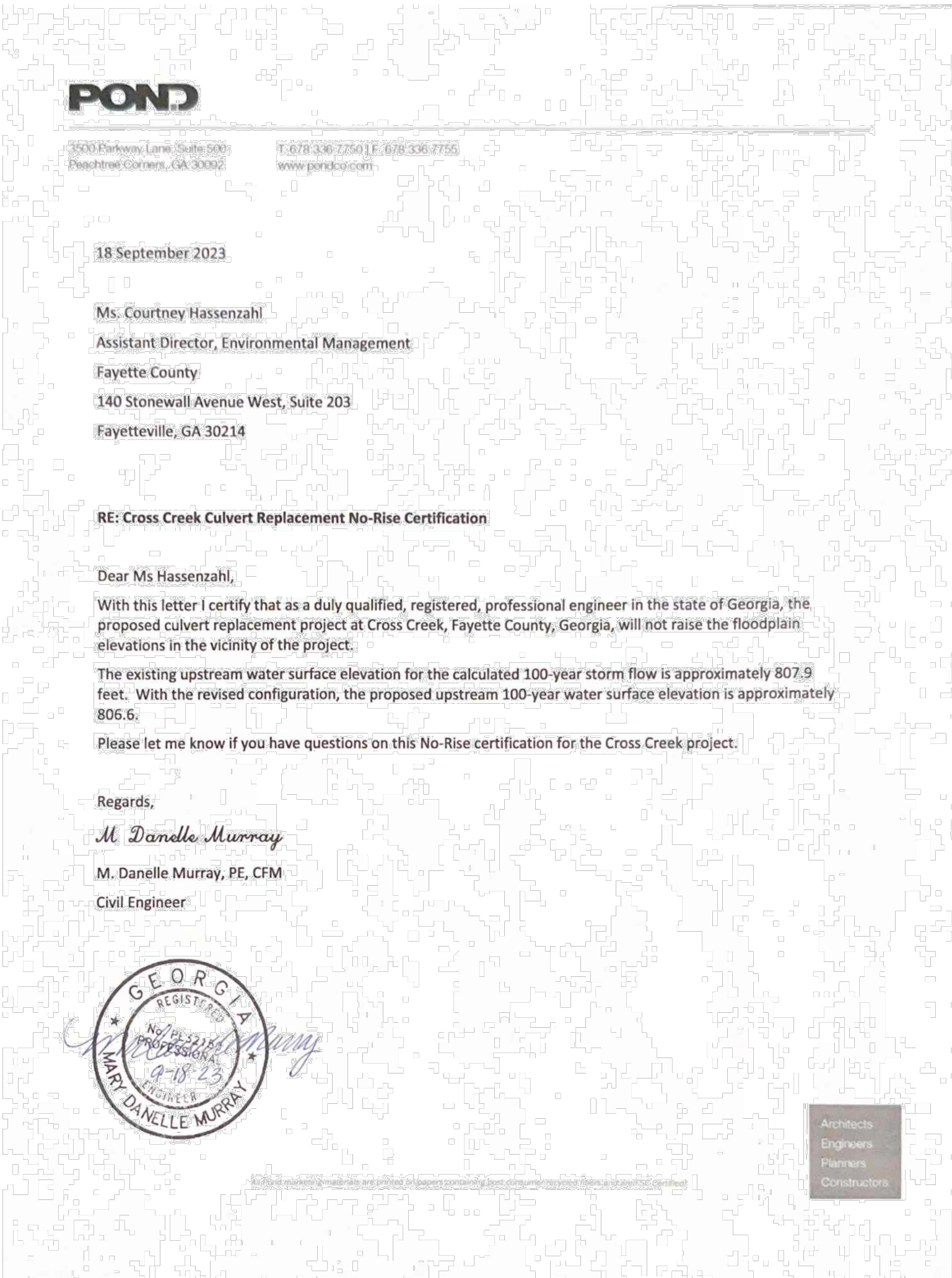
1. AMENDMENTS/REVISIONS TO THE E&SPC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
2. WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
3. ALL BUFFERS AND TREE SAVE AREAS 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-PERMANENT 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.

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: 61. PROPOSED RUNOFF CURVE NUMBER FOR THE PROJECT: 61.
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.

1. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES WHICH MAY HAVE THEIR UTILITIES WITHIN THE CONSTRUCTION AREA 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.

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.

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. CONSTRUCTION OF THE COORDINATE LANE CLOSURES WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES.
6. CHANGEABLE MESSAGE SIGNS, INFORMING MOTORISTS OF THE PROJECT START DATE SHALL BE INSTALLED A MINIMUM OF TWO (2) WEEKS PRIOR TO WORK COMMENCING. THESE SIGNS SHALL BE INSTALLED AT OR AS NEAR AS POSSIBLE TO THE PROJECT LIMITS.



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

CROSS CREEK TRAIL CULVERT REPLACEMENT

FAYETTE COUNTY, GA

MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: T
DATE: NOVEMBER 24, 2023
PROJECT # 121049

SHEET TITLE

CIVIL GENERAL NOTES

SHEET NUMBER

C-002

SHEET 3 OF 20

ORIGINAL SHEET SIZE:
22" X 34"

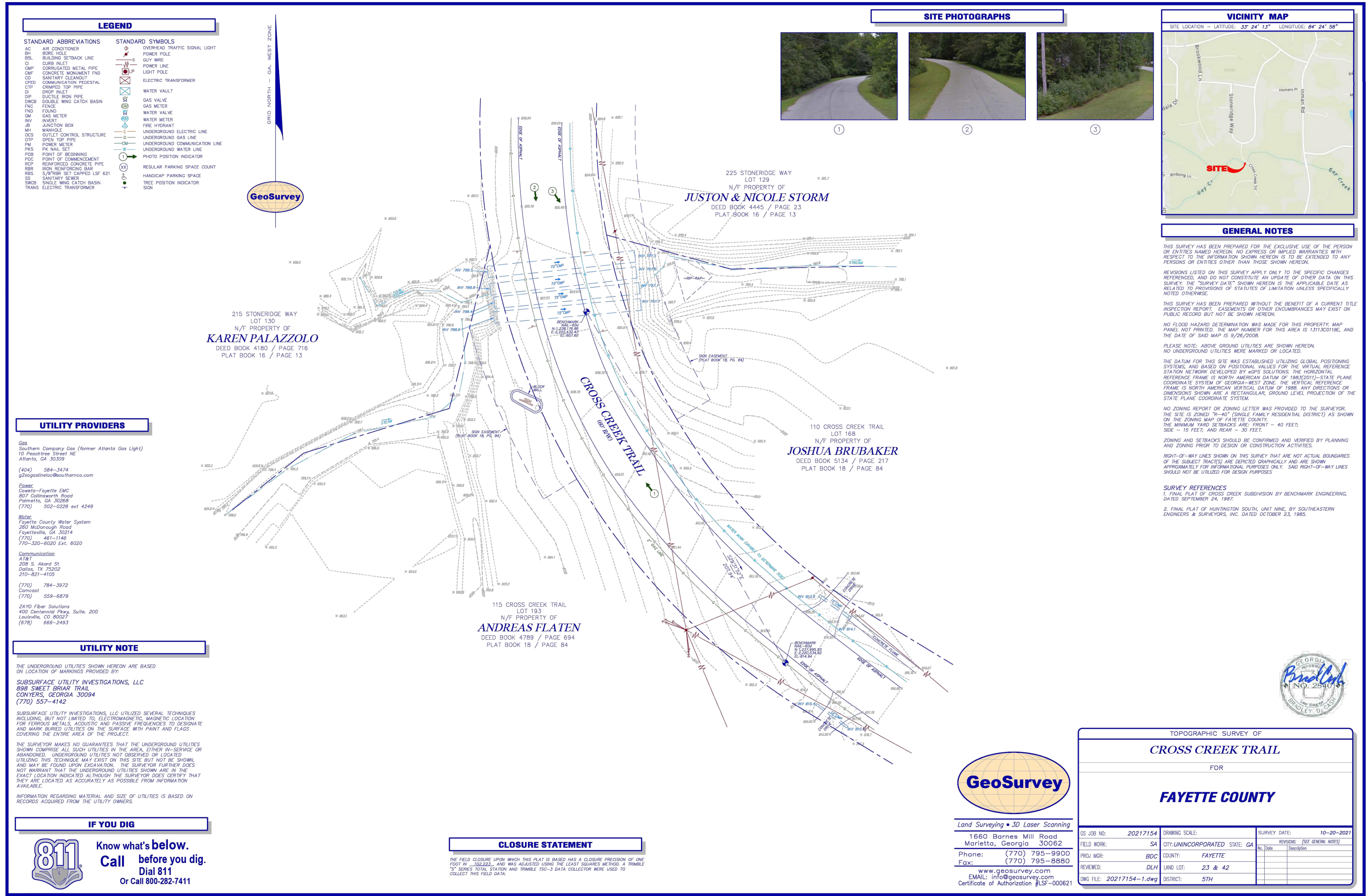
FILE PATH: X:\FY21\121049604 CAD_BIM\04_02 CAD\001 PLOTTED BY: URUETA, JUAN DATE: 11/24/25

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C

B

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CLIENT INFORMATION

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

PROJECT NAME

**CROSS CREEK TRAIL
CULVERT
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: TT
DATE: NOVEMBER 24, 2025
PROJECT # 1210496

TOPOGRAPHIC SURVEY

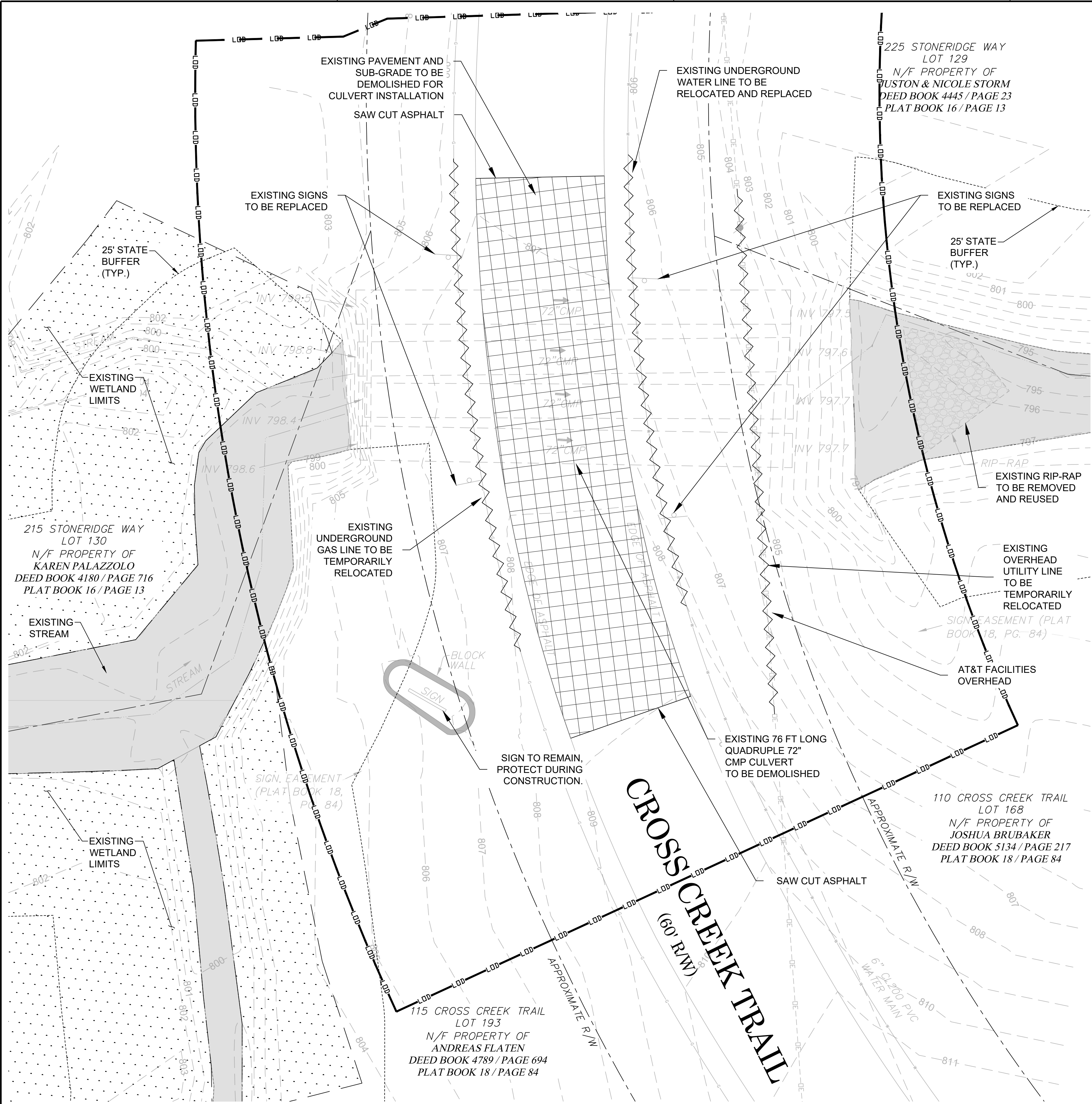
SHEET NUMBER

V-001

SHEET 4 OF 20

ORIGINAL SHEET SIZE:
22" X 34"

FILE PATH: X:\FY21\1210496\04 CAD_BIM\04.02 CAD\CD-101 PLOTTED BY: URUETA, JUAN DATE: 11/24/25



A1

CIVIL SITE DEMOLITION PLAN

SCALE: 1" = 10'

0

5'

10'

20'








30'

N

- GENERAL SHEET NOTES:**
- REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS, AND CIVIL NOTES.
 - THIS SHEET IS PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
 - CONTRACTOR TO COORDINATE LANE CLOSURE WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES.
 - ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY THE FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTORS REPRESENTATIVE BEFORE CONCRETE IS PLACED.
 - AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. (SHALL BE CERTIFIED BY A GEORGIA REGISTERED LAND SURVEYOR)
 - CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
 - CONTRACTOR TO MAINTAIN UTILITY SERVICES DURING CONSTRUCTION, WITH MINIMAL INTERRUPTION.
 - CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB, DRIVEWAYS, ASPHALT, FENCING OR EXISTING ROADWAY OUTSIDE OF PAVING LIMITS DURING CONSTRUCTION.
 - ANY DAMAGED ASPHALT OUTSIDE OF THE RESURFACE OR PAVING LIMITS SHOWN ON PLANS WILL REQUIRE TO BE MILLED AND RESURFACED.
 - CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS TO PROTECT OR RELOCATE THE EXISTING INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO GAS, COMMUNICATIONS, POWER, AND WATER.
 - EXISTING CONDITIONS AS SHOWN ARE BASED ON SURVEY PROVIDED IN GENERAL NOTES #13 FROM SHEET C-002. EXISTING CONDITIONS SHOULD BE CONSIDERED APPROXIMATE AND SHOULD BE CONFIRMED BY CONTRACTOR PRIOR TO WORK.
 - CULVERT STREAM BEDDING MATERIAL IS ALLOWED BY FAYETTE COUNTY TO BE EMBED NATURALLY WITH FLOW.
 - TOPOGRAPHIC SURVEY FOR CROSS CREEK TRAIL FOR FAYETTE COUNTY, PREPARED BY: GEOSURVEY, LTD., DATED: 10/20/2021.
 - FAYETTE COUNTY TO COORDINATE AND OBTAIN REQUIRED EASEMENTS.
 - LIMIT OF DISTURBANCE TO BE CLEARED IN ITS ENTIRETY, INCLUDING THE REMOVAL OF STUMPS.

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

NOTE:
TEMPORARY AND PERMANENT EASEMENTS ARE SHOWN ON CG301.

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

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GSWCCA 95439,
EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME
**CROSS CREEK TRAIL
CULVERT
REPLACEMENT**
FAYETTE COUNTY, GA

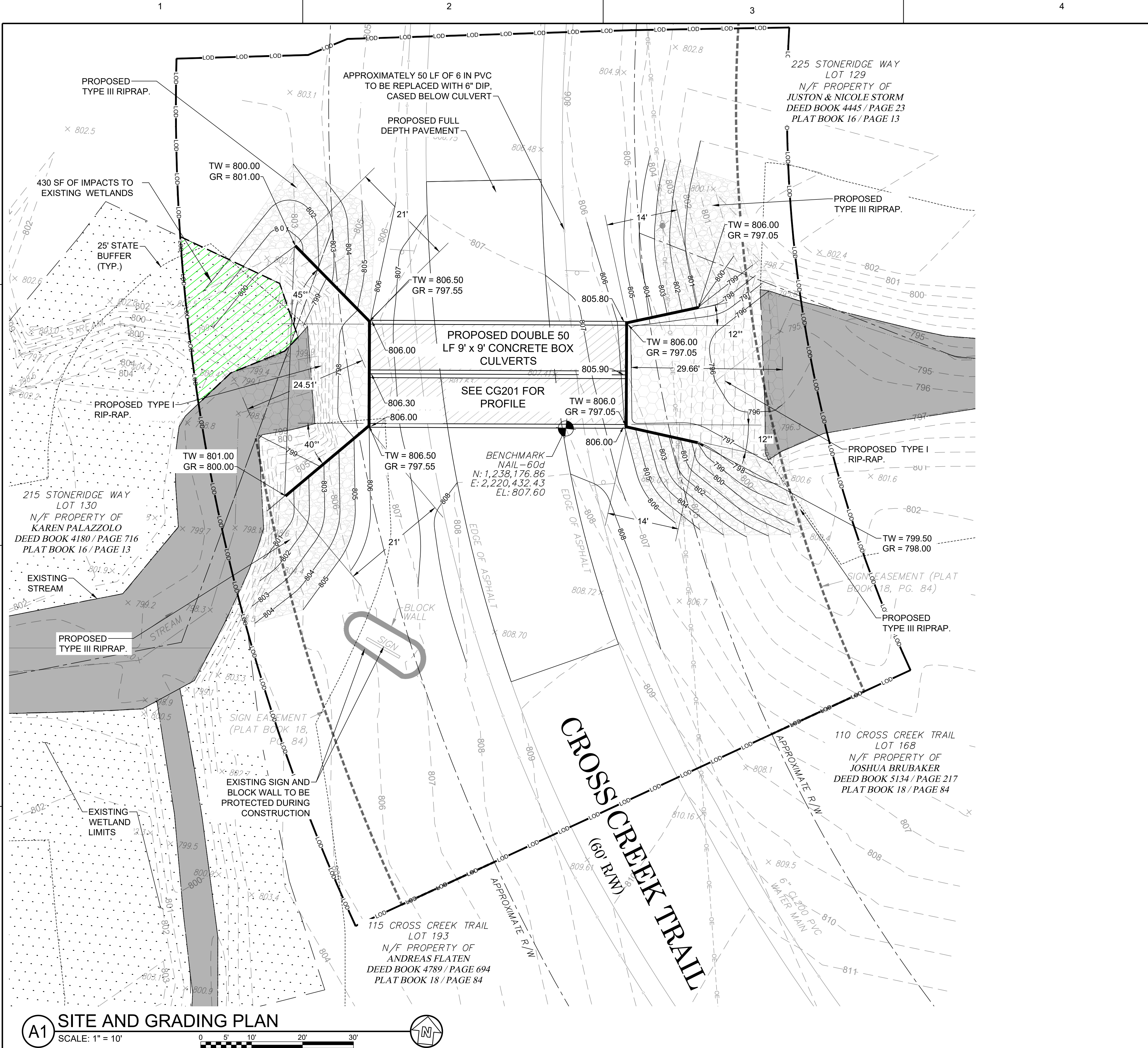
DRAWING ISSUE	DATE	DESCRIPTION	MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: TT
DATE: NOVEMBER 24, 2025
PROJECT # 1210496

SHEET TITLE
**CIVIL SITE
DEMOLITION
PLAN**

SHEET NUMBER
CD101
SHEET 5 OF 20
ORIGINAL SHEET SIZE:
22" X 34"

FILE PATH: X:\FY21\1210496\04 CAD_BIM\04.02 CAD\CG-101 PLOTTED BY: URUETA, JUAN DATE: 11/24/25



- GENERAL SHEET NOTES**
- REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS, AND CIVIL NOTES.
 - THIS SHEET IS PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
 - CONTRACTOR TO COORDINATE LANE CLOSURE WITH FAYETTE COUNTY AND ENGINEER. PROVIDE AT LEAST ONE 12 FOOT LANE FOR TRAFFIC AT ALL TIMES. CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD) AND GDOT STANDARDS.
 - ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY ENGINEER'S OR OWNER'S FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTOR'S REPRESENTATIVE BEFORE CONCRETE IS PLACED.
 - AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. (ALL AS-BUILT DRAWINGS SHOULD BE CERTIFIED BY A GEORGIA REGISTERED LAND SURVEYOR).
 - CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
 - CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB OR DRIVEWAYS DURING CONSTRUCTION.
 - CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED ROADWAY/ASPHALT DURING PROJECT CONSTRUCTION, AS WELL AS REPLACEMENT AND RELOCATION OF MAILBOXES.
 - IF PRECAST STRUCTURE IS USED IN PLACE OF A CAST-IN-PLACE STRUCTURE, THE STRUCTURE SHOP DRAWINGS ARE TO BE APPROVED BY ENGINEER FOR OWNER.
 - ALL UTILITY LOCATIONS AND DEPTHS ARE APPROXIMATE. CONTRACTOR TO VERIFY.

- GRADING NOTES:**
- ROAD TO BE GRADED FROM CROWN TO EDGE OF ASPHALT AT 1/4" PER 1'
 - MINIMUM SHOULDER WIDTH TO BE PROVIDED IS 6'. SHOULDER SHALL BE GRADED AT 1/2" PER 1'
 - MAXIMUM SLOPES ALLOWED WITHIN FAYETTE COUNTY RIGHT-OF-WAY SHALL BE 3:1. PROVIDE GENTLER SLOPES WHERE POSSIBLE.

NOTE:
CONDUCTING MAINTENANCE AND REPAIR ACTIVITIES WITHIN WATERS OF THE US IS AUTHORIZED UNDER REGIONAL PERMIT (RP) 30 PER THE GENERAL CONDITIONS PROVIDED BY THE USACE SAVANNAH DISTRICT. THIS PROJECT MEETS THE TERMS AND CONDITIONS OF RP 30 AND IS AUTHORIZED BY PERMIT WITH NO PRE-CONSTRUCTION NOTIFICATION (PCN) REQUIRED. A NOTIFICATION OF CONSTRUCTION TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES (GADNR) MUST BE SUBMITTED PRIOR TO CONSTRUCTION. PER GEORGIA ADMINISTRATIVE CODE RULE 391-3-7-.05 (1)(C) IMPACTS TO BUFFERS ARE EXEMPT "WHERE ROADWAY DRAINAGE STRUCTURES MUST BE CONSTRUCTED". A BUFFER VARIANCE REQUEST WILL NOT BE REQUIRED FOR ENCROACHMENT WITHIN THE 25' STATE REGULATED BUFFER. PER COORDINATION WITH COUNTY OFFICIALS, THIS PROJECT IS EXEMPT FROM ANY FAYETTE COUNTY BUFFER ORDINANCES, AS IT IS A FAYETTE COUNTY FUNDED STORMWATER PROJECT. A NOTICE OF INTENT FOR NPDES COVERAGE IS NOT REQUIRED FOR THIS PROJECT AS THE TOTAL DISTURBANCE AREA IS LESS THAN ONE ACRE.

NOTE:
TEMPORARY AND PERMANENT EASEMENTS ARE SHOWN ON CG301.

SHEET LEGEND	
	FULL DEPTH ASPHALT PAVING (FOUNDATION TYPE REFER TO FAYETTE COUNTY TYPICAL)
	LIMITS OF DISTURBANCE AND TEMPORARY CONSTRUCTION EASEMENT
	25 FOOT STATE BUFFER
	APPROXIMATE RIGHT-OF-WAY PROPERTY LINE
	EXISTING STREAM LIMITS
	EXISTING WETLAND LIMITS
	EXISTING WETLAND IMPACTS
	PROPOSED RIPRAP - TYPE I
	PROPOSED RIPRAP - TYPE III

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FOR/AOR SEAL

GSWCCA 95439,
EXP. 9/10/2027
CLIENT INFORMATION

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

PROJECT NAME
CROSS CREEK TRAIL CULVERT REPLACEMENT
FAYETTE COUNTY, GA

DRAWING ISSUE	DATE	DESCRIPTION	MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: TT
DATE: NOVEMBER 24, 2025
PROJECT # 1210496

SITE AND GRADING PLAN

SHEET NUMBER
CG101
SHEET 6 OF 20
ORIGINAL SHEET SIZE: 22" X 34"



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Suite 500
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Georgia 30092

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GSWCCA 95439,
EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

CROSS CREEK
TRAIL
CULVERT
REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: TT
DATE: NOVEMBER 24, 2025
PROJECT # 1210496

SHEET TITLE

CULVERT
PROFILE

SHEET NUMBER

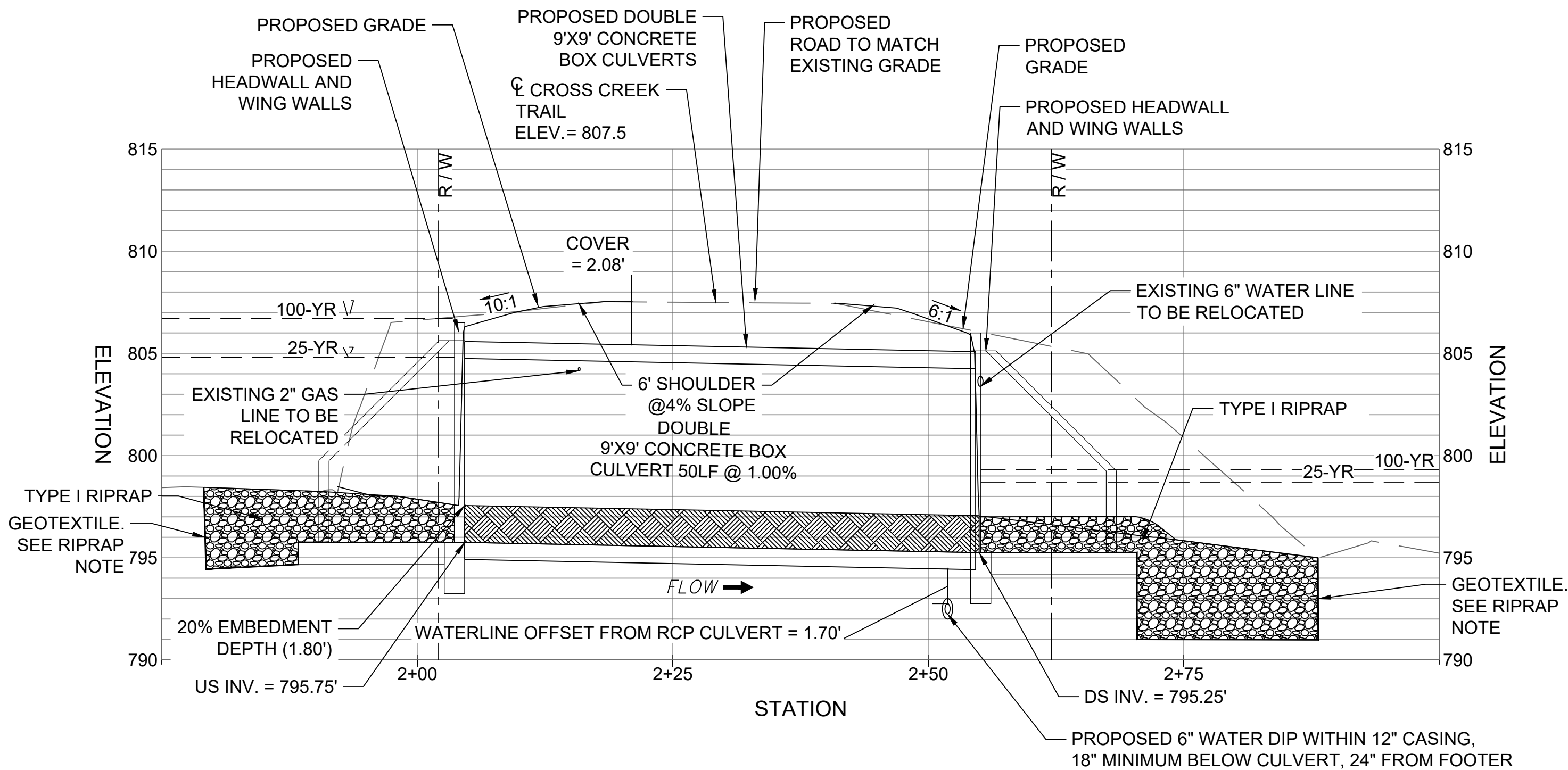
CG201

SHEET 7 OF 20

ORIGINAL SHEET SIZE:
22" X 34"

FLOW SUMMARY TABLE					
STORM FREQUENCY	FLOW (CFS)	ENERGY GRADE LINE (FT)	HEADWATER ELEVATION (FT)	OUTLET VELOCITY (FPS)	DOWNSTREAM VELOCITY (FPS)
10-YEAR	686.00	804.14	804.03	2.4	7.7
25-YEAR	891.00	805.31	805.24	2.8	8.7
100-YEAR	1204.00	806.63	806.58	3.2	8.4

DRAINAGE AREA = 1319 ACRES
AVERAGE STREAM SLOPE = 1.0%



RIPRAP NOTE:

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

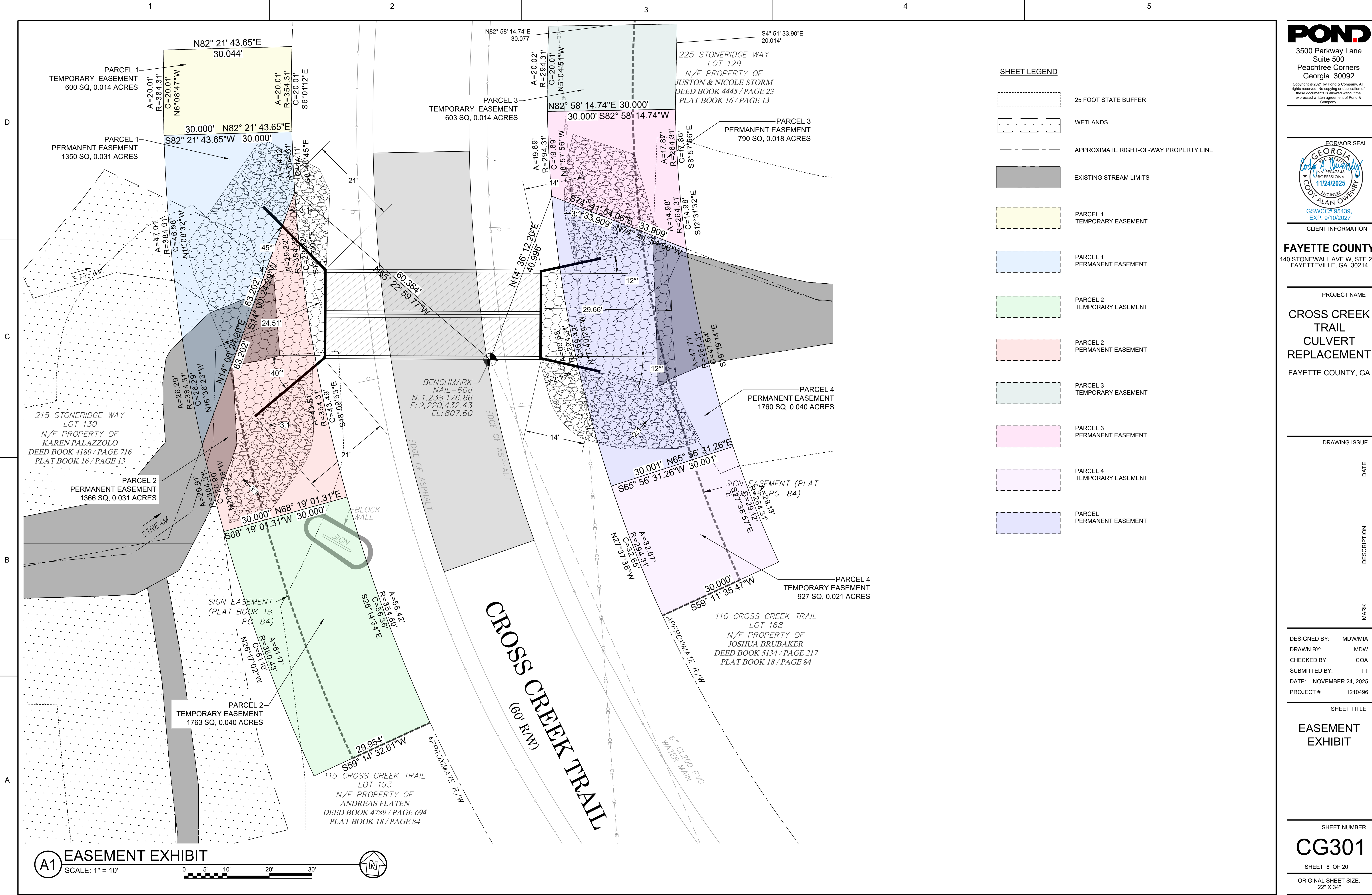
PROPOSED DOUBLE 9'X9' CONCRETE BOX CULVERT PROFILE

HORIZ. SCALE 1" = 10'

VERT. SCALE 1" = 5'

A1 CULVERT PROFILE

FILE PATH: X:\FY21\121049604 CAD_BIM\04.02 CAD\CG-101 PLOTTED BY: URUETA, JUAN DATE: 11/24/25



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Peachtree Corners
Georgia 30092

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FOR/AOR SEAL

GEORGIA

Professional Engineer

11/24/2025

ALAN OWENBY

GSWCC# 95439, EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

**CROSS CREEK TRAIL
CULVERT
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: TT
DATE: NOVEMBER 24, 2025
PROJECT # 1210496

SHEET TITLE

**EASEMENT
EXHIBIT**

SHEET NUMBER

CG301

SHEET 8 OF 20

ORIGINAL SHEET SIZE:
22" X 34"

100% DESIGN ISSUED FOR CONSTRUCTION

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

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

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

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

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

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

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

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

DESIGN PROFESSIONAL CERTIFICATION:

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

Cody A. Owenby, P.E.
CODY OWENBY, P.E.
GSWCC LEVEL II CERTIFICATION # 0000095439
EXPIRES: 09/10/2027

11/24/2025
DATE

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

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

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

GA. P.E. # 27428 , E&S LEVEL II CERTIFICATION # 0000011643

CONTRACTOR: TO BE DETERMINED

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

TOTAL SITE AREA: 0.42 AC
DISTURBED AREA: 0.42 AC

EXISTING LAND USE: THE EXISTING LAND USE CONSISTS OF QUADRUPLE 72-INCH CMP CULVERTS AND A PAVED ROAD.

PROPOSED LAND USE: THE PROJECT CONSISTS OF REMOVING THE EXISTING DETERIORATED QUADRUPLE 72-INCH DIAMETER CMP CULVERTS. EACH CULVERT HAS A LENGTH OF 76-FT. THE CULVERTS ARE TO BE REPLACED WITH A DOUBLE 9' X 9' CONCRETE BOX CULVERT.

GPS COORDINATES OF SITE: 33°24'13.33"N, 84°24'58.43"W

NAME OF RECEIVING WATERS: GAY CREEK
AREA OF ON-SITE WETLANDS: .01 AC

National Flood Hazard Layer FIRMette



FEMA FLOOD MAP - 13113C0118E
SCALE: NTS DATED 09/26/2008

EROSION CONTROL LEGEND

- Ds1 TEMPORARY MULCHING - DETAIL A2/CE501
- Ds2 TEMPORARY SEEDING - DETAIL A1/CE502
- Ds3 PERMANENT SEEDING - DETAIL A1/CE503
- Ds4 DISTURBED AREA STABILIZATION WITH SODDING - DETAIL C1/CE501
- Sd1-S double SILT FENCE - DETAIL C1/CE501
- Du DUST CONTROL - DETAIL A1/CE501
- Tr TREE PROTECTION - DETAIL C1/CE504
- Ss SLOPE STABILIZATION - DETAIL B3/CE504
- St STORM DRAIN OUTLET PROTECTION - DETAIL A1/CE504

Legend

- Without Base Flood Elevation (BFE)
- With BFE or Depth
- Regulatory Floodway
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Flood Risk due to Levee. See Notes.
- Area with Flood Risk due to Levee
- Area of Minimal Flood Hazard
- Effective LOMRs
- Area of Undetermined Flood Hazard
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall
- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 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 6/14/2022 at 2:50 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.

SOIL MAP

SOILS LEGEND	
SYMBOL	DESCRIPTION
AmB	Applying sandy loam, 2 to 6 percent slopes
AmC	Applying sandy loam, 6 to 10 percent slopes
CeB	Cecil sandy loam, 2 to 6 percent slopes
CtC2	Cecil sandy clay loam, 6 to 10 percent slopes, eroded
DgB	Davidson loam, 2 to 6 percent slopes
GwC3	Gwinnett sandy clay loam, 6 to 10 percent slopes, severely eroded
PaE	Pacolet sandy loam, 10 to 25 percent slopes
WH	Wehadkee soils, 0 to 2 percent slopes, frequently flooded

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	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█

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



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



3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

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FOR/AOR SEAL



CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

CROSS CREEK

TRAIL

CULVERT

REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: TT
DATE: NOVEMBER 24, 2025
PROJECT # 1210496

SHEET TITLE

EROSION AND

SEDIMENT

CONTROL

NOTES AND

LEGEND

SHEET NUMBER

CE001

SHEET 9 OF 20

ORIGINAL SHEET SIZE:
22" X 34"

100% DESIGN ISSUED FOR CONSTRUCTION

FILE PATH: X:\FY21\1121049604_CAD_BIM\04_02 CAD\CE001 PLOTTED BY: URUETA, JUAN DATE: 11/24/25

1	2	3	4	5
D	<p>STRUCTURAL PRACTICES:</p> <p>THE STRUCTURAL PRACTICES SHOWN ON THIS PLAN HAVE BEEN DESIGNED TO REDUCE EROSION & SEDIMENTATION OF DISTURBED AREAS.</p> <p>SILT FENCE (SD1-TYPE "S"), TEMPORARY SEDIMENT BASINS, AND DIVERSION DITCHES WILL BE INSTALLED PRIOR TO CLEARING AND GRADING OPERATIONS TO KEEP SEDIMENT CONTAINED WITHIN THE SITE AS NECESSARY. DISTURBED AREA STABILIZATION SHALL BE STABILIZED WITH MULCH (Ds1), TEMPORARY SEEDING (Ds2), AND PERMANENT SEEDING (Ds3) AS NECESSARY. INLET SEDIMENT TRAP PROTECTION WILL BE USED TO HELP PREVENT SEDIMENT FROM ENTERING ANY EXISTING INLETS. SEDIMENT STORAGE OF 67 CY PER DISTURBED ACRE IS PROVIDED BY TEMPORARY SEDIMENT BASINS.</p>	<p>WASTE MATERIALS AND DISPOSAL:</p> <p>ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER OR OTHER APPROPRIATE WASTE MANAGEMENT FACILITY PERMISSIBLE UNDER GAR PERMIT NO. 100001. WASTE MANAGEMENT FACILITIES SHALL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE WASTE MANAGEMENT FACILITIES. WASTE MANAGEMENT FACILITIES SHALL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH SHALL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE SHALL BE BURIED ON-SITE.</p> <p>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.</p> <p>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.</p>	<p>EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN GENERAL NOTES</p> <p>(IN CONFORMANCE WITH STATE OF GEORGIA GENERAL NPDES PERMIT NO. GAR 100001)</p>	
	<p>CONSTRUCTION PERIOD STORM WATER POLLUTANT CONTROL:</p> <p>SEDIMENTATION AND FUEL SPILLS ARE POTENTIAL SOURCES OF STORM WATER POLLUTION DURING THE CONSTRUCTION PROCESS. THESE POLLUTANTS WILL BE REMOVED AND/OR REDUCED VIA THE BMP'S CONTAINED WITHIN THIS PLAN</p>	<p>HAZARDOUS WASTES:</p> <p>ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER AS REQUIRED BY LOCAL, STATE, AND/OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, SHALL INSTRUCT SITE PERSONNEL IN THESE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE SHALL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS SHALL BE POSTED IN THE IMMEDIATE AREA WHERE SUCH PRODUCT IS STORED AND/OR USED AND ANOTHER COPY OF EACH MSDS SHALL BE MAINTAINED IN THE EROSION SEDIMENTATION AND POLLUTION CONTROL PLAN (ESPCP) FILE AT THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO HANDLES A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE/SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.</p> <p>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.</p> <p>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.</p>	<p>PRODUCT SPECIFIC PRACTICES</p>	
C	<p>STABILIZATION MEASURES:</p> <p>THE STABILIZATION MEASURES SHOWN ON THESE PLANS HAVE BEEN DESIGNED TO STABILIZE THE DISTURBED AREAS FOLLOWING THE TEMPORARY OR PERMANENT COMPLETION OF CONSTRUCTION. ALL EXPOSED AREAS SHALL BE STABILIZED WITH TEMPORARY MULCHING (DS1) IMMEDIATELY AFTER TRENCHING IF THEY ARE TO REMAIN INACTIVE FOR 14 DAYS OR MORE. ALL DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY (DS2) OR PERMANENT (DS3) VEGETATION AS INDICATED ON THE PLAN. SLOPES GREATER 3:1 ARE TO BE STABILIZED WITH EROSION CONTROL MATTING (MB). DUST CONTROL (DU) SHALL ALSO BE PROVIDED AS NEEDED DURING GRADING ACTIVITIES. SEE EROSION, SEDIMENTATION, AND POLLUTION CONTROL (ESPCP) DETAIL SHEETS FOR MORE DETAILS REGARDING THESE STABILIZATION MEASURES.</p>		<p>PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED INTO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.</p>	
B	<p>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:</p> <p>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.</p> <p>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.</p>		<p>CONCRETE/MASONRY - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON SITE. THE CONCRETE PROVIDER HAS RESPONSIBILITY TO ENSURE APPROPRIATE TRAINING HAS BEEN PROVIDED TO THEIR TRUCK DRIVERS, AND MUST PROVIDE APPROPRIATE DETAILS AND RESOURCES TO ENABLE THEM TO COMPLETE A DELIVERY WITHOUT CAUSING POLLUTION. CHUTES, BARRELS, WHEELBARROWS AND OTHER EQUIPMENT MUST BE RINSED IN THE SITE WASH-DOWN AREA. SWEEP OR SHOVEL ANY SPILLS THAT OCCUR AND ALLOW RESIDUE TO SET BEFORE REMOVING. THE HARDENED RESIDUE MAY THEN BE PLACED IN A DESIGNATED CONCRETE/MASONRY RECYCLING BIN ON SITE. DO NOT WASH CONCRETE/MASONRY INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. TRUCKS SHOULD NOT TRACK ANY CONCRETE OR MUD AND SEDIMENT OFF SITE.</p>	
A	<p>KEEPING PLANS CURRENT:</p> <p>THE PRIMARY, SECONDARY OR TERTIARY PERMITTEES, AS APPLICABLE, SHALL AMEND THEIR PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON 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. OF THIS PERMIT. AMENDMENTS TO THE PLAN MUST BE CERTIFIED BY A DESIGN PROFESSIONAL AS PROVIDED IN THIS PERMIT. SECONDARY PERMITTEES MUST NOTIFY THE PRIMARY PERMITTEE WITHIN 24-HOURS OF BECOMING AWARE OF ANY SUSPECTED BMP DESIGNED DEFICIENCIES WHICH ARE NOT EFFECTIVE IN CONTROLLING THE DISCHARGE OF POLLUTANTS FROM THE SECONDARY PERMITTEE'S SITE. THE PRIMARY PERMITTEE MUST EVALUATE WHETHER THESE DEFICIENCIES EXIST WITHIN 48-HOURS OF SUCH NOTICE, AND IF THESE DEFICIENCIES ARE FOUND TO EXIST MUST AMEND THE PLAN IN ACCORDANCE WITH THIS PARAGRAPH TO ADDRESS THOSE DEFICIENT BMPS WITHIN SEVEN (7) DAYS OF BEING NOTIFIED BY THE SECONDARY PERMITTEE. WHEN THE PLAN IS AMENDED, THE PRIMARY PERMITTEE MUST NOTIFY AND PROVIDE A COPY OF THE AMENDMENT TO ALL AFFECTED SECONDARY PERMITTEES WITHIN THIS SEVEN (7) DAY PERIOD. THE SECONDARY PERMITTEE(S) MUST IMPLEMENT ANY NEW PLAN REQUIREMENTS AFFECTING THEIR SITE(S) WITHIN 48-HOURS OF NOTIFICATION BY THE PRIMARY PERMITTEE. NOTWITHSTANDING THE FOREGOING, THE PRIMARY OR TERTIARY PERMITTEE REMAINS RESPONSIBLE FOR INSURING THAT THE PLAN, AS APPROPRIATE, MEETS THE REQUIREMENTS OF THIS PERMIT.</p> <p>PROPER OPERATION AND MAINTENANCE:</p> <p>THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT AND WITH THE REQUIRED PLANS. PROPER OPERATION AND MAINTENANCE ALSO INCLUDES ADEQUATE LABORATORY CONTROLS AND APPROPRIATE QUALITY ASSURANCE PROCEDURES. PROPER OPERATION AND MAINTENANCE REQUIRES THE OPERATION OF BACKUP OR AUXILIARY FACILITIES OR SIMILAR SYSTEMS, INSTALLED BY AN PERMITTEE ONLY WHEN NECESSARY TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT.</p> <p>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.</p> <p>REFER TO THE DETAILS CONTAINED WITHIN THIS PLAN SET FOR ADDITIONAL MAINTENANCE INSTRUCTION.</p> <p>NON-STORM WATER DISCHARGES:</p> <p>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.</p>	<p>INVENTORY FOR POLLUTION PREVENTION PLAN</p> <p>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.</p> <p>SPILL PREVENTION</p> <p>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.</p> <p>GOOD HOUSEKEEPING</p> <p>QUANTITIES OF PRODUCTS STORED ONSITE WILL BE LIMITED TO THE AMOUNT NEEDED FOR THE JOB.</p> <p>A. PRODUCTS AND MATERIALS WILL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS PROTECTED FROM RAINFALL, WHERE POSSIBLE.</p> <p>B. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH MANUFACTURER LABELS LEGIBLE AND VISIBLE.</p> <p>C. PRODUCT MIXING, PRODUCT DISPOSAL, AND DISPOSAL OF PRODUCT CONTAINERS WILL BE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</p> <p>D. THE CONTRACTOR WILL INSPECT SUCH MATERIALS TO ENSURE PROPER USE, STORAGE AND DISPOSAL.</p>	<p>DESIGN PROFESSIONAL: CODY OWENBY, P.E. LEVEL II CERTIFICATION No.: 0000095439 EXPIRES : 09/10/2027</p> <p>811 Know what's below. Call before you dig. Dial 811 Or Call 800-282-7411</p>	

POND

3500 Parkway Lane

Suite 500

Peachtree Corners

Georgia 30092

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FOR/AOR SEAL

GEORGIA

PROFESSIONAL

11/24/2025

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

**CROSS CREEK
TRAIL
CULVERT
REPLACEMENT**

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: TT
DATE: NOVEMBER 24, 2025
PROJECT # 1210496

SHEET TITLE

**EROSION AND
SEDIMENT
CONTROL
NOTES AND
LEGEND**

SHEET NUMBER

CE002
SHEET 10 OF 20
ORIGINAL SHEET SIZE:
22" X 34"

100% DESIGN ISSUED FOR CONSTRUCTION

CE001	Y
-------	---

- CE502
-
- CE503

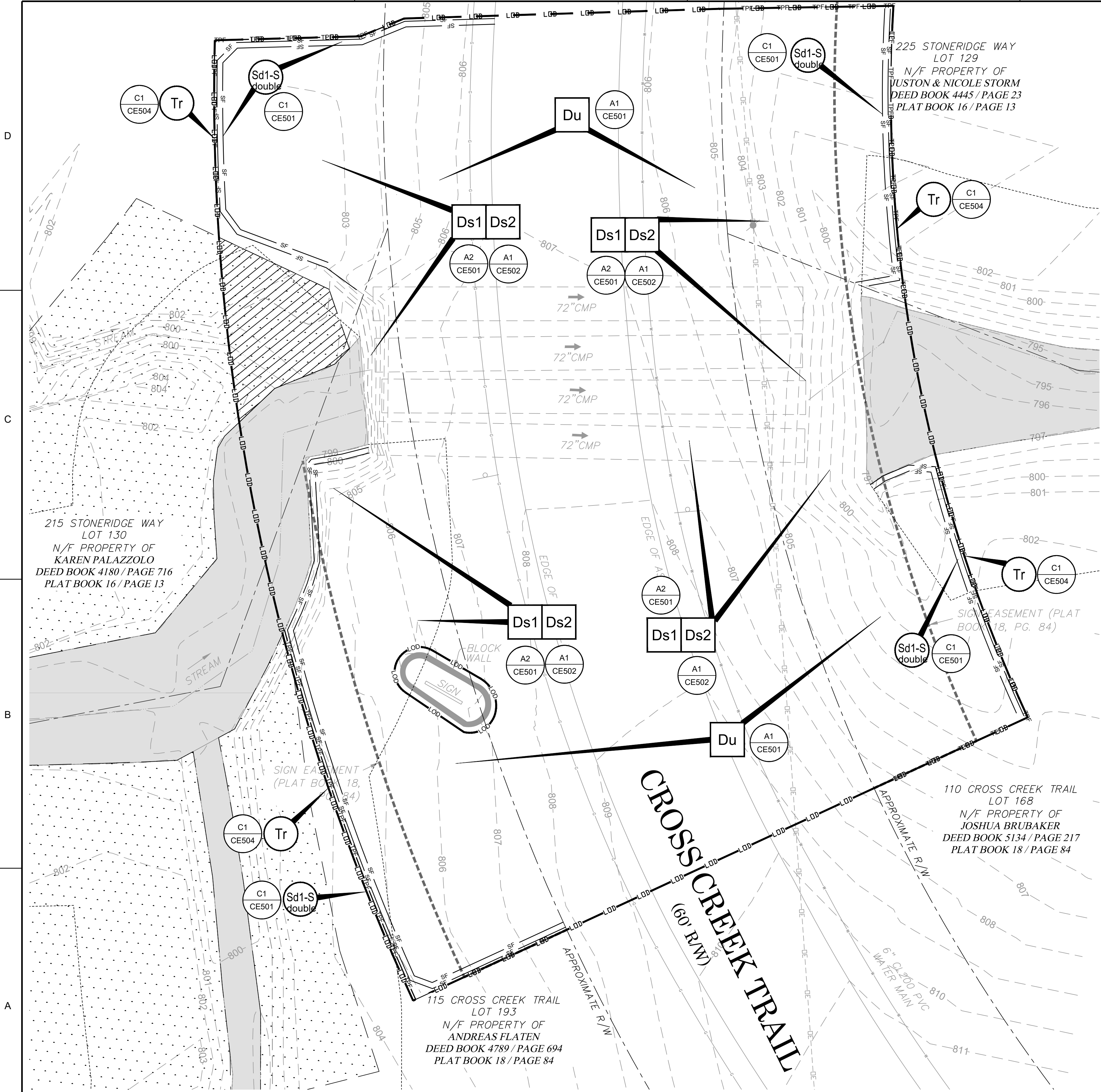
- Effective January 1, 2024**

SHEET NUMBER

SHEET 11 OF 20

ORIGINAL SHEET SIZE:
22" X 34"

FILE PATH: X:\FY21\121049604 CAD_BIM\04.02 CAD\CE101 PLOTTED BY: URUETA, JUAN DATE: 11/24/25



A1

EROSION AND SEDIMENT CONTROL INITIAL PHASE

SCALE: 1" = 10'

0

5'

10'

20'

30'

↑

N

GENERAL SHEET NOTES

1. REFER TO SHEET CE001 FOR GENERAL CIVIL NOTES, LEGENDS, AND ABBREVIATIONS.
2. THIS SHEET IS PART OF A MULTI-SHEET SET OF EROSION CONTROL PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
4. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
5. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
6. ANY DISTURBED AREA LEFT IDLE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH PERMANENT SEEDING.
7. CONSTRUCTION ENTRANCE TO BE DETERMINED BY COUNTY AND CONTRACTOR PRIOR TO CONSTRUCTION.

SHEET LEGEND

- FULL DEPTH ASPHALT PAVING
(FOUNDATION TYPE REFER TO
FAYETTE COUNTY TYPICAL)
- LIMITS OF DISTURBANCE
- 25 FOOT STATE BUFFER
- APPROXIMATE RIGHT-OF-WAY PROPERTY LINE
- EXISTING STREAM LIMITS
- EXISTING WETLAND LIMITS
- EXISTING WETLAND IMPACTS

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EOR/AOR SEAL

GEORGIA

REGISTERED

PROFESSIONAL

ENGINEER

11/24/2025

ALAN OWENBY

GSWCC# 95439,
EXP. 9/10/2027

CLIENT INFORMATION

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

PROJECT NAME
**CROSS CREEK
TRAIL
CULVERT
REPLACEMENT**
FAYETTE COUNTY, GA

DRAWING ISSUE	DATE	DESCRIPTION	MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: TT
DATE: NOVEMBER 24, 2025
PROJECT # 1210496

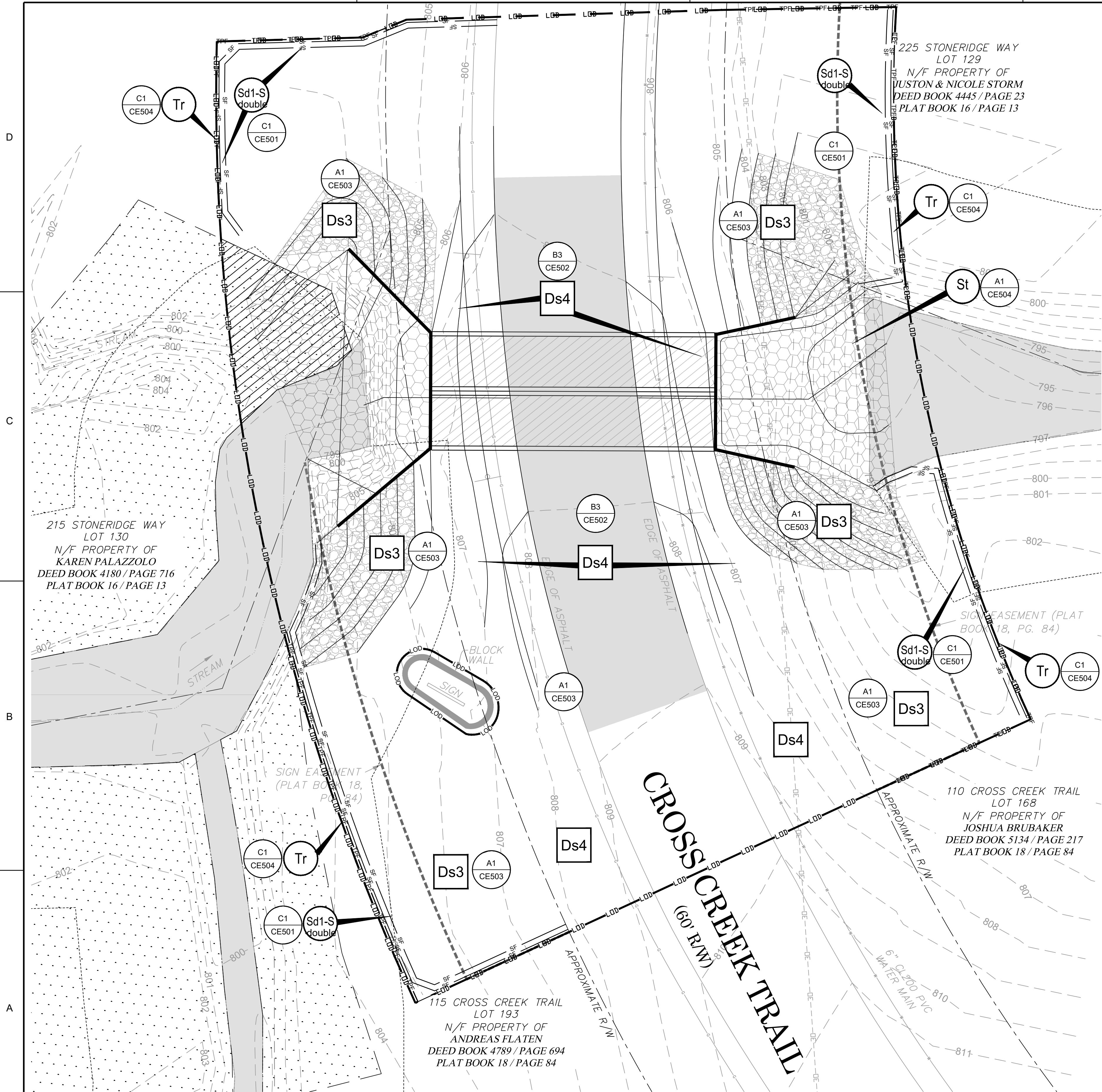
SHEET TITLE

**EROSION AND
SEDIMENT
CONTROL
INITIAL PHASE**

SHEET NUMBER
CE101
SHEET 12 OF 20
ORIGINAL SHEET SIZE:
22" X 34"

100% DESIGN ISSUED FOR CONSTRUCTION

FILE PATH: X:\FY21\121049604 CAD_BIM\04.02 CAD\CE101 PLOTTED BY: URUETA, JUAN DATE: 11/24/25



(A1) EROSION AND SEDIMENT CONTROL FINAL PHASE
SCALE: 1" = 10'

GENERAL SHEET NOTES

1. REFER TO SHEET CE001 FOR GENERAL CIVIL NOTES, LEGENDS, AND ABBREVIATIONS.
2. THIS SHEET IS PART OF A MULTI-SHEET SET OF EROSION CONTROL PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
3. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
4. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
5. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
6. ANY DISTURBED AREA LEFT IDLE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH PERMANENT SEEDING.
7. CONSTRUCTION ENTRANCE TO BE DETERMINED BY COUNTY AND CONTRACTOR PRIOR TO CONSTRUCTION.
8. CONTRACTOR TO INSTALL SOD INSIDE COUNTY RIGHT OF WAY WITHIN LIMITS OF DISTURBANCE. INSTALL PERMANENT SEEDING OUTSIDE OF RIGHT OF WAY EXCEPT WHERE THERE IS EXISTING SOD. REPLACE ANY SOD IN KIND WITH SOD.

SHEET LEGEND

- FULL DEPTH ASPHALT PAVING (FOUNDATION TYPE REFER TO FAYETTE COUNTY TYPICAL)
- LIMITS OF DISTURBANCE AND TEMPORARY CONSTRUCTION EASEMENT
- 25 FOOT STATE BUFFER
- APPROXIMATE RIGHT-OF-WAY PROPERTY LINE
- EXISTING STREAM LIMITS
- EXISTING WETLAND LIMITS
- EXISTING WETLAND IMPACTS
- RIP RAP APRON

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FOR/AOR SEAL
ALAN OWENBY
REGISTERED PROFESSIONAL ENGINEER
11/24/2025
GSWCC# 95439, EXP. 9/10/2027

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FAYETTE COUNTY, GA

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SHEET TITLE

EROSION AND SEDIMENT CONTROL FINAL PHASE

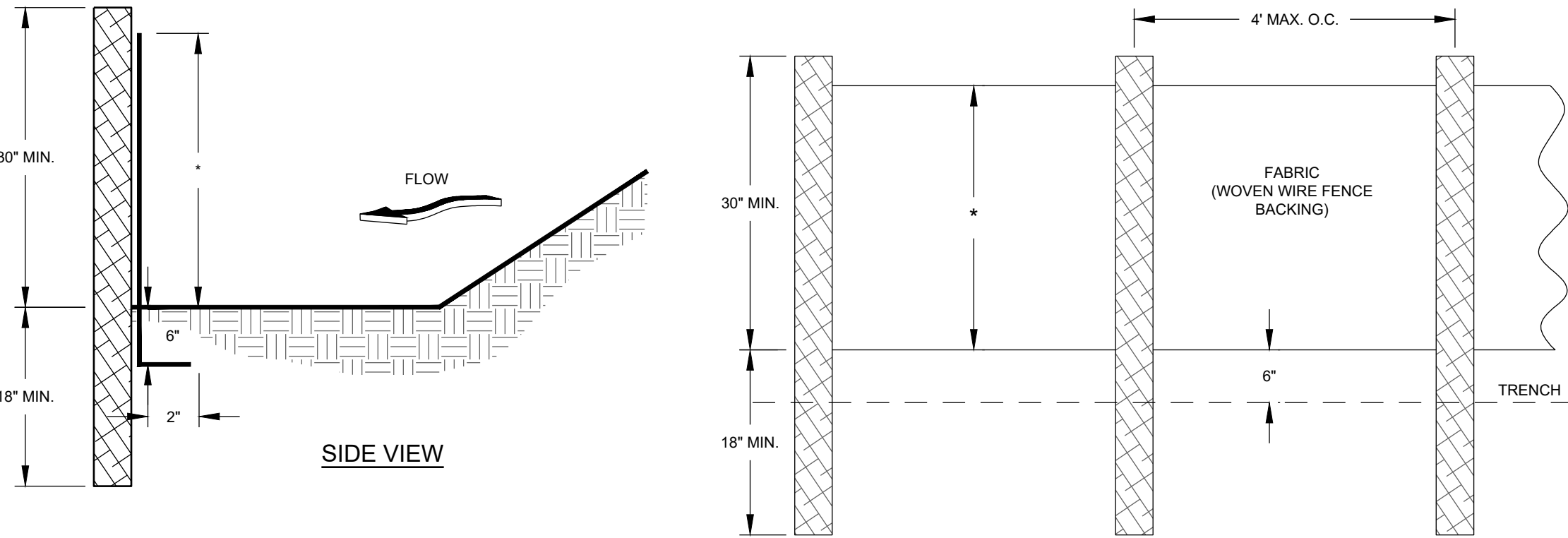
SHEET NUMBER
CE201
SHEET 13 OF 20
ORIGINAL SHEET SIZE: 22" X 34"

D

C

B

A



MAINTENANCE

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

NOTES

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

C1 TYPE 'S' SILT FENCE

NO SCALE

Sd1-S
double

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.

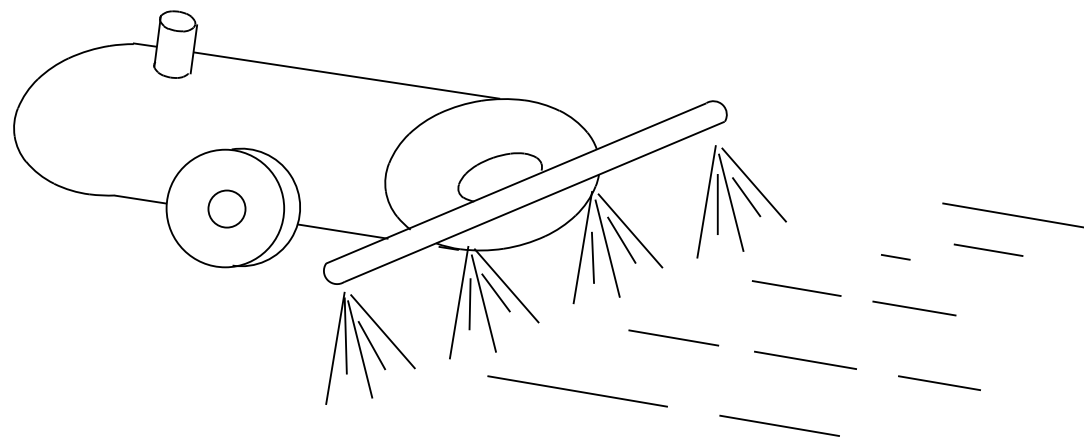
BARRIERS
SOLID BOARD FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING. BARRIERS PLACED AT RIGHT ANGLES TO PREVAILING CURRENTS AT INTERVALS OF ABOUT 15 TIMES THEIR HEIGHT ARE EFFECTIVE IN CONTROLLING WIND EROSION.

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 EROSION SOIL MATERIAL. SEE TOPSOILING.

STONE
COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.



A1 DUST CONTROL

NO SCALE

Du

MULCHING MATERIAL

1. DRY STRAW OR HAY SHALL BE APPLIED AT A DEPTH OF 2 TO 4 INCHES PROVIDING COMPLETE SOIL COVERAGE.
 2. WOOD WASTE (CHIPS, SAWDUST, OR BARK) SHALL BE APPLIED AT A DEPTH OF 2 TO 3 INCHES. ORGANIC MATERIAL FROM THE CLEARING STAGE OF DEVELOPMENT SHOULD REMAIN ON SITE, BE CHIPPED, AND APPLIED AS MULCH.
 3. CUTBACK ASPHALT (SLOW CURING) SHALL BE APPLIED AT 1200 GALLONS PER ACRE (OR 1/4 GALLON PER SQ. YD.)
 4. POLYETHYLENE FILM SHALL BE SECURED OVER BANKS OR STOCKPILED SOIL MATERIAL FOR TEMPORARY PROTECTION.
- APPLYING MULCH**
1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
 2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY DECOMPOSITION OF THE ORGANIC MULCHES.
 3. CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OR DAMAGE TO SHOES, CLOTHING, ETC.
 4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH

1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK." DISKS MAY BE USED SMOOTH OR SERRATED AND SHOULD BE 20 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN 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 WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION TO TACKIFIERS AND BINDERS. 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. OPENING OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.

3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

DISTURBED AREA STABILIZATION
(WITH MULCHING ONLY)

A2

NO SCALE

Ds1

TABLE 1. Mulching Application Requirements

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

INSTALLATION NOTES:

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

MAINTENANCE NOTES:

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



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SHEET TITLE

EROSION AND
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CONTROL
DETAILS

SHEET NUMBER

CE501

SHEET 14 OF 20

ORIGINAL SHEET SIZE:
22" X 34"

FILE PATH: X:\FY21\1210496\04 CAD_BIM\04.02 CAD\CE501 PLOTTED BY: URUETA, JUAN DATE: 11/24/25

1

2

3

4

5

TEMPORARY SEEDING:
SEEDBED PREPARATION: WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH UNDISTURBED CUT SLOPES, THE SOIL SHALL HAVE PITTED, TRENCHED OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

LIME AND FERTILIZER: AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO SEE IF FERTILIZER IS NEEDED. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR 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)	3 bu. (144 lbs.)	3.3 lb.	J F M A M J J A S O N D
alone			
in mixtures	½ bu. (24 lbs.)	0.6 lb.	J F M A M J J A S O N D
LESPEDEZA, ANNUAL (lepedeza striata)	40 lbs.	0.9 lb.	J F M A M J J A S O N D
alone	10 lbs.	0.2 lb.	
in mixtures			J F M A M J J A S O N D
LOVEGRASS, WEEPING (Eragrostis curvula)	4 lbs.	0.1 lb.	J F M A M J J A S O N D
alone	2 lbs.	0.05 lb.	
in mixtures			J F M A M J J A S O N D
MILLET, BROWNTOP (Panicum fasciculatum)	40 lbs.	0.9 lb.	J F M A M J J A S O N D
alone	10 lbs.	0.2 lb.	
in mixtures			J F M A M J J A S O N D
MILLET, PEARL (Pennisetum glaucum)	50 lbs.	1.1 lb.	J F M A M J J A S O N D
alone			
OATS (Avena sativa)	4 bu. (128 lbs.)	2.9 lb.	J F M A M J J A S O N D
alone	1 bu. (32 lbs.)	0.7 lb.	
in mixtures			J F M A M J J A S O N D
RYE (Scaele cereale)	3 bu. (168 lbs.)	3.9 lb.	J F M A M J J A S O N D
alone	½ bu. (28 lbs.)	0.6 lb.	
in mixtures			J F M A M J J A S O N D
RYEGRASS, ANNUAL (Lolium temulentum)	40 lbs.	0.9 lb.	J F M A M J J A S O N D
alone			
SUDANGRASS (Sorghum sudanese)	60 lbs.	1.4 lb.	J F M A M J J A S O N D
alone			
WHEAT (Triticum aestivum)	3 bu. (180 lbs.)	4.1 lb.	J F M A M J J A S O N D
alone	½ bu. (30 lbs.)	0.7 lb.	
in mixtures			

TABLE 2. FERTILIZER REQUIREMENTS FOR TEMPORARY VEGETATION

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Top Dressing Rate (lbs./acre)
Cool season grasses	First	6-12-12	1500	50-100
	Second	6-12-12	1000	-
	Maintenance	10-10-10	400	30
Cool season grasses and legumes	First	6-12-12	1500	0-50
	Second	0-10-10	1000	-
	Maintenance	0-10-10	400	-
Temporary cover crops seeded alone	First	10-10-10	500	30
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 ½" - 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.)

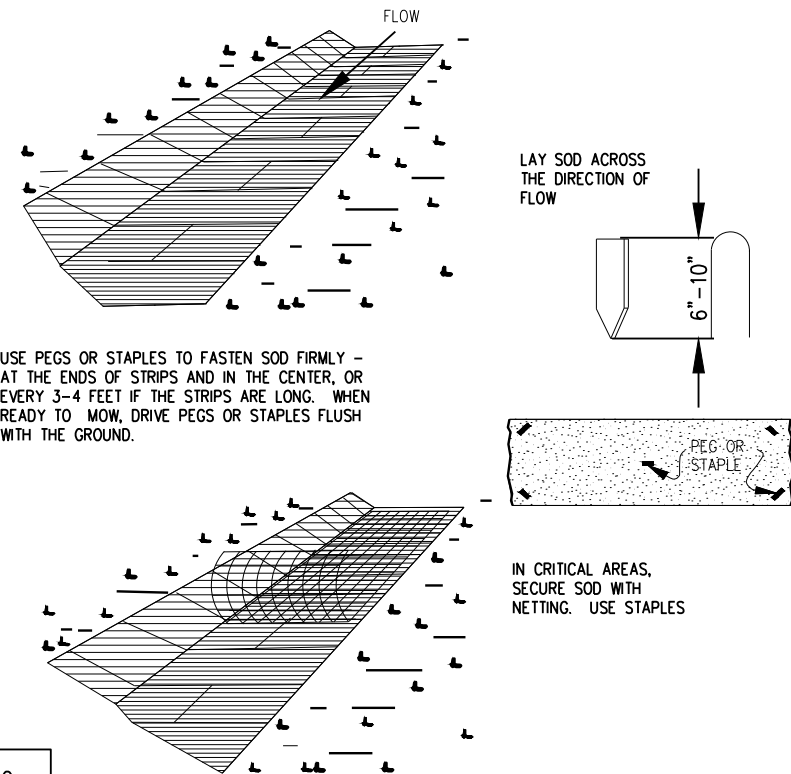
MAINTENANCE NOTE:

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

FERTILIZER REQUIREMENTS FOR SOIL SURFACE APPLICATION

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

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

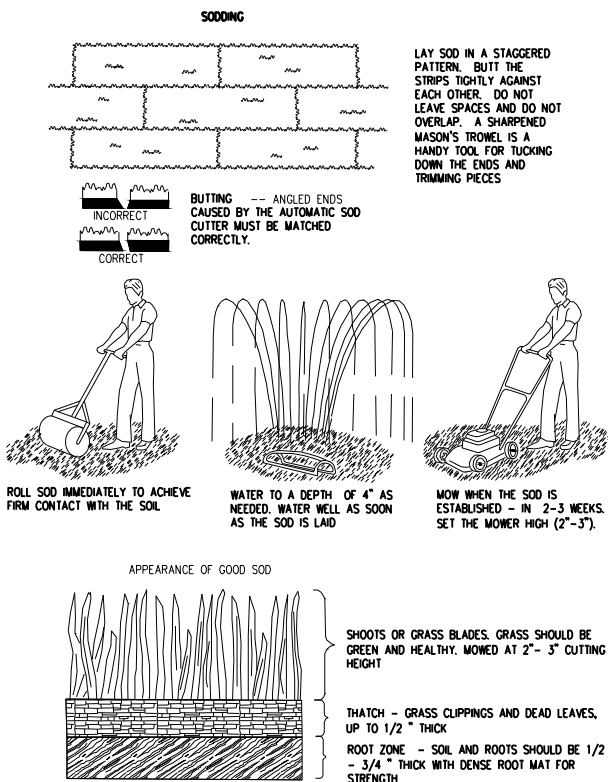


SOD PLANTING REQUIREMENTS			
GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON
BERMUDAGRASS	COMMON TIFWAY TIFGREEN TIFLAWN	M-L,P,C P,C P,C P,C	WARM WEATHER
BAHAGRASS	PENSACOLA	P,C	WARM WEATHER
CENTPEDE	-	P,C	WARM WEATHER
ST. AUGUSTINE	COMMON BITTERBLUE RALEIGH	C	WARM WEATHER
ZOYSIA	EMERALD MEYER	P,C	WARM WEATHER
TALL FESCUE	KENTUCKY	M-L,P	COOL WEATHER

TABLE 6-6.3

FERTILIZER REQUIREMENTS FOR SOD

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



DISTURBED AREA
STABILIZATION W/ SODDING

B3 NO SCALE

Ds4

DEFINITION

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

CONDITIONS

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

PLANNING CONSIDERATIONS

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

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

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

CONSTRUCTION SPECIFICATIONS INSTALLATION

SOIL PREPARATION

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

INSTALLATION

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

MATERIALS

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

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

MAINTENANCE

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

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



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EROSION AND
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CONTROL
DETAILS

SHEET NUMBER

CE502

SHEET 15 OF 20

ORIGINAL SHEET SIZE:
22" X 34"

A1 SEEDING SCHEDULE TEMPORARY COVER
NO SCALE

Ds2

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FILE PATH: X:\FY21\121049604 CAD_BIM\02 CAD\CE501 PLOTTED BY: URUETA, JUAN DATE: 11/24/25

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THE PLANTING OF PERENNIAL VEGETATION SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. PERMANENT PERENNIAL VEGETATION SHALL BE USED TO ACHIEVE PERMANENT STABILIZATION.

THIS PRACTICE SHALL BE APPLIED IMMEDIATELY TO ROUGH GRADED AREAS THAT WILL BE UNDISTURBED FOR LONGER THAN SIX MONTHS. THIS PRACTICE OR SODDING SHALL BE APPLIED IMMEDIATELY TO ALL AREAS AT FINAL GRADE. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND THAT FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES, AT LEAST 70% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN EMPLOYED. PERMANENT VEGETATION SHALL CONSIST OF: PLANTED TREES, SHRUBS, PERENNIAL VINES, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE REGION, SUCH THAT WITHIN THE GROWING SEASON A 70% COVERAGE BY PERENNIAL VEGETATION SHALL BE ACHIEVED. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION. FOR LINEAR CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE. UNTIL THIS STANDARD IS SATISFIED AND PERMANENT CONTROL MEASURES AND FACILITIES ARE OPERATIONAL, INTERIM STABILIZATION MEASURES AND TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL NOT BE REMOVED.

- PLANNING CONSIDERATIONS
- USE CONVENTIONAL PLANTING METHODS WHERE POSSIBLE.
 - WHEN MIXED PLANTINGS ARE DONE DURING MARGINAL PLANTING PERIODS, COMPANION CROPS SHALL BE USED.
 - NO-TILL PLANTING IS EFFECTIVE WHEN PLANTING IS DONE FOLLOWING A SUMMER OR WINTER ANNUAL COVER CROP.
 - BLOCK SOD PROVIDES IMMEDIATE COVER. IT IS ESPECIALLY EFFECTIVE IN CONTROLLING EROSION ADJACENT TO CONCRETE FLUMES AND OTHER STRUCTURES. REFER TO Ds-4 DISTURBED AREA STABILIZATION (WITH SODDING).
 - IRRIGATION SHOULD BE USED WHEN THE SOIL IS DRY OR WHEN SUMMER PLANTINGS ARE DONE.
 - LOW MAINTENANCE PLANTS, AS WELL AS NATIVES, SHOULD BE USED TO ENSURE LONG LASTING EROSION CONTROL.
 - MOVING SHOULD NOT BE PERFORMED DURING THE QUAIL NESTING SEASON (MAY TO SEPT.). WILDLIFE PLANTINGS SHOULD BE INCLUDED IN CRITICAL AREA PLANTINGS. SEE MANUAL FOR PLANT LIST.

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 APPLICATION

WHEN HYDRAULIC SEEDING EQUIPMENT IS USED, THE INITIAL FERTILIZER SHALL BE MIXED WITH SEED, INOCULANT (IF NEEDED), AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE INOCULANT, IF NEEDED, SHALL BE MIXED WITH THE SEED PRIOR TO BEING PLACED INTO THE HYDRAULIC SEEDER. THE SLURRY MIXTURE WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.

FINELY GROUND LIMESTONE WILL BE MIXED WITH WATER AND APPLIED IMMEDIATELY AFTER MULCHING IS COMPLETED OR IN COMBINATION WITH THE TOP DRESSING. WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS.

- APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
- MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS.
- BROADCAST AFTER STEEP SURFACES ARE SCARIFIED, PITTED OR TRENCHED.
- A FERTILIZER PELLET SHALL BE PLACED AT ROOT DEPTH IN THE CLOSING HOLE BESIDE EACH TREE SEEDLING.

B

PLANTS, PLANTING RATES, AND PLANTING DATES																
SPECIES	BROADCAST RATES 1/ - PLS 2/		RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS												REMARKS
	PER ACRE	PER 1000 sq. ft.		PLANTING DATES												
				(SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.)												
				J	F	M	A	M	J	J	A	S	O	N	D	
BAHIA, PENSACOLA (PASPALUM NOTATUM)			P													166,000 SEED PER POUND. LOW GROWING. SOD FORMING. SLOW TO ESTABLISH. PLANT WITH A COMPANION CROP. WILL SPREAD INTO BERMUDA PASTURES AND LAWNS. MIX WITH SERICEA LESPEDEZA OR WEEPING LOVEGRASS.
ALONE OR WITH TEMPORARY COVER	60 LBS	1.4 LB	C													
WITH OTHER PERENNIALS	30 LBS	0.7 LB														
BAHIA, WILMINGTON (PASPALUM NOTATUM)			M-L P													SAME AS ABOVE
ALONE OR WITH TEMPORARY COVER	60 LBS	1.4 LB														
WITH OTHER PERENNIALS	30 LBS	0.7 LB														
BERMUDA, COMMON (CYNODON DACTYLON)			P													1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
ALONE	10 LBS	0.2 LB	C													
WITH OTHER PERENNIALS	6 LBS	0.1 LB														
BERMUDA, COMMON (CYNODON DACTYLON)			P													PLANT WITH WINTER ANNUALS.
UNHULLED SEED			C													
WITH TEMPORARY COVER	10 LBS	0.2 LB														
WITH OTHER PERENNIALS	6 LBS	0.1 LB														PLANT WITH TALL FESCUE.
BERMUDA SPRIGS (CYNODON DACTYLON)	40 CU. FT. OR SOD PLUGS 3' X 3'	0.9 CU. FT.	M-L													A CUBIC FOOT CONTAINS APPROXIMATELY 650 SPRIGS. A BUSHEL CONTAINS 1.25 CUBIC FEET OR APPROXIMATELY 800 SPRIGS.
COASTAL, COMMON, MIDLAND, OR TIFT 44																
COASTAL, COMMON, OR TIFT 44			P													
TIFT 78			C													SAME AS ABOVE
																SOUTHERN COASTAL PLAIN ONLY.
CENTPEDE (ERMOCHLOA OPHIUROIDES)	BLOCK SOD ONLY		P													DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONCRETE AND IN CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES. WINTERHARDY AS FAR NORTH AS ATHENS AND ATLANTA.
			C													
				J	F	M	A	M	J	J	A	S	O	N	D	

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SEEDING SCHEDULE PERMANENT COVER

NO SCALE

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LIME AND FERTILIZER RATES AND ANALYSIS

AGRICULTURAL LIME IS REQUIRED AT A 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 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.

AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT SHALL BE "FINELY GROUND LIMESTONE." FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 98% OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70% 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 MLRA'S. (SEE MANUAL.) 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.

PLANT SELECTION

REFER TO TABLES 6-4.1, 6-5.2, 6-5.3 AND 6-5.4 FOR APPROVED SPECIES. SPECIES NOT LISTED SHALL BE APPROVED BY THE STATE RESOURCE CONSERVATIONIST OF THE NATURAL RESOURCE CONSERVATION SERVICE BEFORE THEY ARE USED. PLANTS SHALL BE SELECTED ON THE BASIS OF SPECIES CHARACTERISTICS, SITE AND SOIL CONDITIONS, PLANNED USE AND MAINTENANCE OF THE AREA, TIME OF YEAR OF PLANTING, METHOD OF PLANTING, AND THE NEEDS AND DESIRES OF THE LAND USER. SOME PERENNIAL SPECIES ARE EASILY ESTABLISHED AND CAN BE PLANTED ALONE. EXAMPLES OF THESE ARE COMMON BERMUDA, TALL FESCUE AND WEEPING LOVEGRASS. OTHER PERENNIALS SUCH AS BAHIA GRASS AND SERICEA LESPEDEZA ARE SLOW TO BECOME ESTABLISHED AND SHOULD BE PLANTED WITH ANOTHER PERENNIAL SPECIES. THE ADDITIONAL SPECIES WILL PROVIDE QUICK COVER AND AMPLE SOIL PROTECTION UNTIL THE TARGET PERENNIAL SPECIES BECOME ESTABLISHED. FOR EXAMPLE COMMON SEEDING COMBINATIONS INCLUDE: WEEPING LOVEGRASS WITH SERICEA LESPEDEZA (SCARIFIED) AND TALL FESCUE WITH SERICEA LESPEDEZA (UNSCARIFIED).

PLANT SELECTION MAY ALSO INCLUDE ANNUAL COMPANION CROPS. ANNUAL COMPANION CROPS SHOULD BE USED ONLY WHEN THE PERENNIAL SPECIES ARE NOT PLANTED DURING THEIR OPTIMUM PLANTING PERIOD. A COMMON MIXTURE IS BROWN TOP MILLET WITH COMMON BERMUDA IN MID-SUMMER. CARE SHOULD BE TAKEN IN SELECTING COMPANION CROP SPECIES AND SEEDING RATES BECAUSE ANNUAL CROPS WILL COMPETE WITH PERENNIAL SPECIES FOR WATER, NUTRIENTS AND GROWING SPACE. A HIGH SEEDING RATE OF THE COMPANION CROP MAY PREVENT THE ESTABLISHMENT OF PERENNIAL SPECIES. RYEGRASS SHALL NOT BE USED IN ANY SEEDING MIXTURES CONTAINING PERENNIAL SPECIES DUE TO ITS ABILITY TO OUT-COMPETE DESIRED SPECIES CHOSEN FOR PERMANENT PERENNIAL COVER.

SEED QUALITY

THE TERM "PURE LIVE SEED" IS USED TO EXPRESS THE QUALITY OF SEED AND IS NOT SHOWN ON THE LABEL. PURE LIVE SEED, PLS, IS EXPRESSED AS A PERCENTAGE OF THE SEEDS THAT ARE PURE AND WILL GERMINATE. INFORMATION ON PERCENT GERMINATION AND PURITY CAN BE FOUND ON SEED TAGS. PLS IS DETERMINED BY MULTIPLYING THE PERCENT OF PURE SEED WITH THE PERCENT OF GERMINATION; I.E., PLS = % GERMINATION X % PURITY

THE PERCENT OF PLS HELPS YOU DETERMINE THE AMOUNT OF SEED YOU NEED. FOR EXAMPLE IF THE SEEDING RATE IS 10 POUNDS PLS AND THE BULK SEED IS 56% PLS,

THE BULK SEEDING RATE IS: 10 LBS. OF PLS / ACRE = 17.9 LBS / ACRE 56% PLS

YOU WOULD NEED TO PLANT 17.9 LBS/ACRE TO PROVIDE 10 LBS/ACRE OF PURE LIVE SEED.

SEEDBED PREPARATION

SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:

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BROADCAST PLANTINGS:

- TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES. ALLEVIATE COMPACTION, INCORPORATE LIME AND FERTILIZER, SMOOTH AND FIRM THE SOIL. ALLOW FOR THE PROPER PLACEMENT OF SEED, SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.
- TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
- TILLAGE SHOULD BE DONE ON THE CONTOUR, WHERE FEASIBLE.
- ON SLOPES TOO STEEP FOR THE SAFE OPERATION OF TILLAGE EQUIPMENT, THE SOIL SURFACE SHALL BE PITTED OR TRENCHED ACROSS THE SLOPE WITH APPROPRIATE HAND TOOLS TO PROVIDE TWO PLACES 6 TO 8 IN. APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

- WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DIGGLE PLANTING.
- FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING.
- WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE CONTOUR FOUR TO SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR SEPTEMBER.

INOCULANTS

ALL LEGUME SEED SHALL BE INOCULATED WITH APPROPRIATE NITROGEN-FIXING BACTERIA. THE INOCULANT SHALL BE A PURE CULTURE PREPARED SPECIFICALLY FOR THE SEED SPECIES AND USED WITHIN THE DATES ON THE CONTAINER. A MIXING MEDIUM RECOMMENDED BY THE MANUFACTURER SHALL BE USED TO BOND THE INOCULANT TO THE SEED. FOR CONVENTIONAL SEEDING, USE TWICE THE AMOUNT OF INOCULANT RECOMMENDED BY THE MANUFACTURER. FOR HYDRAULIC SEEDING, FOUR TIMES THE AMOUNT OF INOCULANT RECOMMENDED BY THE MANUFACTURER SHALL BE USED. ALL INOCULATED SEED SHALL BE PROTECTED FROM THE SUN AND HIGH TEMPERATURES AND SHALL BE PLANTED THE SAME DAY INOCULATED. NO INOCULATED SEED SHALL REMAIN IN THE HYDROSEEDER LONGER THAN ONE HOUR.

PLANTING

HYDRAULIC SEEDING: MIX THE SEED (INOCULATED IF NEEDED), FERTILIZER, AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH WITH WATER AND APPLY IN A SLURRY UNIFORMLY OVER THE AREA TO BE TREATED. APPLY WITHIN ONE HOUR AFTER THE MIXTURE IS MADE.

CONVENTIONAL SEEDING: SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER, OTHER MECHANICAL SEEDER, OR HAND SEEDING TO DISTRIBUTE THE SEED UNIFORMLY OVER THE AREA TO BE TREATED. COVER THE SEED LIGHTLY WITH 1/8 TO 1/4 INCH OF SOIL. FOR SMALL SEED AND 1/2 TO 1 INCH FOR LARGE SEED WHEN USING A CULTIPACKER OR OTHER SUITABLE EQUIPMENT. NO-TILL SEEDING: NO-TILL SEEDING IS PERMISSIBLE INTO ANNUAL COVER CROPS WHEN PLANTING IS DONE FOLLOWING MATURITY OF THE COVER CROP OR IF THE TEMPORARY COVER STAND IS SPARSE ENOUGH TO ALLOW ADEQUATE GROWTH OF THE PERMANENT (PERENNIAL) SPECIES. NO TILL SEEDING SHALL BE DONE WITH APPROPRIATE NO-TILL SEEDING EQUIPMENT. THE SEED MUST BE UNIFORMLY DISTRIBUTED AND PLANTED AT THE PROPER DEPTH.

INDIVIDUAL PLANTS: SHRUBS, VINES AND SPRIGS MAY BE PLANTED WITH APPROPRIATE PLANTERS OR HAND TOOLS. PINE TREES SHALL BE PLANTED MANUALLY IN THE SUBSOIL FURROW. EACH PLANT SHALL BE SET IN A MANNER THAT WILL AVOID CROWDING THE ROOTS. NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GREW AT THE NURSERY. THE TOPS OF VINES AND SPRIGS MUST BE AT OR SLIGHTLY ABOVE THE GROUND SURFACE. WHERE INDIVIDUAL HOLES ARE DUG, FERTILIZER SHALL BE PLACED IN THE BOTTOM OF THE HOLE. TWO INCHES OF SOIL SHALL BE ADDED AND THE PLANT SHALL BE SET IN THE HOLE.

MULCHING

MULCH IS REQUIRED FOR ALL PERMANENT VEGETATION APPLICATIONS. MULCH APPLIED TO SEEDBED AREAS SHALL ACHIEVE 75% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED.

DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED ABOVE) AFTER THE HYDRAULIC SEEDING. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 4:1 OR STEEPER. SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.

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PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDBED AREAS. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK SOD, MULCH IS NOT REQUIRED. BITUMINOUS TREATED ROVING MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED ROVING SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

WOOD CELLULOSE AND WOOD PULP FIBERS SHALL NOT CONTAIN GERMINATION OR GROWTH INHIBITING FACTORS. THEY SHALL BE EVENLY DISPERSED WHEN AGITATED IN WATER. THE FIBERS SHALL CONTAIN A DYE TO ALLOW VISUAL METERING AND AID IN UNIFORM APPLICATION DURING SEEDING.

APPLYING MULCH

STRAW OR HAY MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORMLY WITH HYDRAULIC SEEDING EQUIPMENT.

ANCHORING MULCH ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS: EMULSIFIED ASPHALT CAN BE (A) SPRAYED UNIFORMLY ONTO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE OR (B) SPRAYED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT. THE COMBINATION OF ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENEOUS MIXTURE SATISFACTORY FOR SPRAYING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF WATER PER TON OF MULCH. CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT STATE WATERS, THE PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS AND OTHER STRUCTURES FROM ASPHALT DISCOLORATION. 2. HAY AND STRAW MULCH SHALL BE PRESSED INTO THE SOIL IMMEDIATELY AFTER THE MULCH IS SPREAD. A SPECIAL "PACKER DISK" OR DISK HARROW WITH THE DISKS SET STRAIGHT MAY BE USED. THE 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 DISKS SHALL BE DULL ENOUGH TO PRESS THE MULCH INTO THE GROUND WITHOUT CUTTING IT, LEAVING MUCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL. 3. SYNTHETIC TACKIFIERS OR BINDERS APPROPRIATE FOR GDOT SHALL BE APPLIED IN CONJUNCTION WITH OR IMMEDIATELY AFTER THE MULCH IS SPREAD. SYNTHETIC TACKIFIERS SHALL BE MIXED AND APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. REFER TO Td- TACKIFIERS AND BINDERS. 4. RYE OR WHEAT CAN BE INCLUDED WITH FALL AND WINTER PLANTINGS TO STABILIZE THE MULCH. THEY SHALL BE APPLIED AT A RATE OF ONE-QUARTER TO ONE-HALF BUSHEL PER ACRE. 5. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH MAY BE NEEDED TO ANCHOR STRAW OR HAY MULCH ON UNSTABLE SOILS AND CONCENTRATED FLOW AREAS. THESE MATERIALS SHALL BE INSTALLED AND ANCHORED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

BEDDING MATERIAL: MULCH USED AS A BEDDING MATERIAL TO CONSERVE MOISTURE AND CONTROL WEEDS IN NURSERIES, ORNAMENTAL BEDS, AROUND SHRUBS, AND ON BARE AREAS ON LAWNS.

MATERIAL	DEPTH
GRASS HAY	4" TO 6"
PINE NEEDLES	3" TO 5"
WOOD WASTE	4" TO 6"

IRRIGATION: IRRIGATION WILL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

TOPDRESSING: WILL BE APPLIED ON ALL TEMPORARY AND PERMANENT (PERENNIAL) SPECIES PLANTED ALONE OR IN MIXTURES WITH OTHER SPECIES. RECOMMENDED RATES OF APPLICATION ARE LISTED IN TABLE 6-5.1

SECOND YEAR AND MAINTENANCE FERTILIZATION: SECOND YEAR FERTILIZER RATES AND MAINTENANCE FERTILIZER RATES ARE LISTED IN TABLE 6-5.1

LIME MAINTENANCE APPLICATION: APPLY ONE TON OF AGRICULTURAL LIME EVERY 4 TO 6 YEARS OR AS INDICATED BY SOIL TESTS. SOIL TESTS CAN BE CONDUCTED TO DETERMINE MORE ACCURATE REQUIREMENTS IF DESIRED.

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PLANTS, PLANTING RATES, AND PLANTING DATES																	
SPECIES	BROADCAST RATES 1/ - PLS 2/		RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS												REMARKS	
	PER ACRE	PER 1000 sq. ft.		PLANTING DATES													
				(SOLID LINES INDICATE OPTIMUM DATES, DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.)													
				J	F	M	A	M	J	J	A	S	O	N	D		
CROWN VETCH (CORONILLA VARIA)																	100,000 SEED PER POUND. DENSE GROWTH, DROUGHT TOLERANT AND FIRE RESISTANT. ATTRACTIVE ROSE, PINK, AND WHITE BLOSSOMS SPRING TO LATE FALL. MIX WITH 30 POUNDS OF TALL FESCUE OR 15 POUNDS OF RYE. INOCULATE SEED WITH M INNOCUANT. USE FROM NORTH ATLANTA AND NORTHWARD.
WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS	0.3 LB	M-L P														
FESCUE, TALL (FESTUCA ARUNDINACEA)																	227,000 SEED PER POUND. USE ALONE ONLY ON BETTER SITES. NOT FOR DROUGHTY SOILS. MIX WITH PERENNIAL LESPEDEZAS OR CROWN VETCH. APPLY TOPDRESSING IN SPRING FOLLOWING FALL PLANTINGS. NOT FOR HEAVY USE AREAS OR ATHLETIC FIELDS.
ALONE	50 LBS.	1.1 LB.	M-L P														
WITH OTHER PERENNIALS	30 LBS.	0.7 LB.															
KUDZU (PUERARIA THUMBERGIANA)																	RAPID AND VIGOROUS GROWTH. EXCELLENT IN GULLY EROSION CONTROL. WILL CLIMB. GOOD LIVESTOCK FORAGE.
PLANTS OR CROWNS	3" - 7" APART		ALL														
LESPEDEZA SERICEA (LESPEDEZA CUNEATA)																	350,000 SEED PER POUND. WIDELY ADAPTED. LOW MAINTENANCE. MIX WITH WEEPING LOVEGRASS, COMMON BERMLUDA, BAHIA, OR TALL FESCUE. TAKES 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED. EXCELLENT ON ROADBANKS. INOCULATE SEED WITH EL INNOCUANT.
SCARIFIED	60 LBS.	1.4 LB.	M-L P C														
UNSCARIFIED	75 LBS.	1.7 LB.	M-L P C														MIX WITH TALL FESCUE OR WINTER ANNUALS.
SEED-BEARING HAY	3 TONS	138 LBS.	M-L P C														CUT WHEN SEED IS MATURE, BUT BEFORE IT SHATTERS. ADD TALL FESCUE OR WINTER ANNUALS.

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PLANTS, PLANTING RATES, AND PLANTING DATES																
SPECIES	BROADCAST RATES 1/ - PLS 2/		RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS												REMARKS
	PER ACRE	PER 1000 SQ. FT.		PLANTING DATES												
				(SOLID LINES INDICATE OPTIMUM DATES DOTTED LINES INDICATE PERMISSIBLE BUT MARGINAL DATES.)												
				J	F	M	A	M	J	J	A	S	O	N	D	
LESPEDEZA AMBRO VIRGATA (LESPEDEZA VIRGATA DC) OR APPALOW (LESPEDEZA CUNEATA [DUMONT] G. DON)	60 LBS	1.4 LB	M-L P C													300,000 SEED PER POUND. HEIGHT OF GROWTH IS 18 TO 24 INCHES. ADVANTAGEOUS IN URBAN AREAS. SPREADING-TYPE GROWTH. NEW GROWTH HAS BRONZE COLORATION. MIX WITH WEEPING LOVEGRASS. COMMON BERMUDA, BAHIA, TALL FESCUE OR WINTER ANNUALS. DO NOT MIX WITH SERICEA LESPEDEZA. SLOW TO DEVELOP SOLID STANDS. INOCULATE SEED WITH EL INOCULANT.
SCARIFIED																
UNSCARIFIED	75 LBS	1.7 LB	M-L P C													
LESPEDEZA, SHRUB (LESPEDEZA BICOLOR) (LESPEDEZA THUMBERGII)	3" X 3"		M-L P C													
PLANTS																PROVIDE WILDLIFE FOOD AND COVER
LOVEGRASS, WEEPING (ERAGROSTIS CURVULA)	4 LBS	0.1 LB	M-L P C													1,500,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT. GROWS WELL WITH SERICEA LESPEDEZA ON ROADBANKS
ALONE	2 LBS	0.05 LB														
WITH OTHER PERENNIALS																
MAIDENCANE (PANICUM HERMITOMON)	2' X 3' SPACING		ALL													FOR VERY WET SITES. MAY CLOG CHANNELS. DIG SPRIGS FROM LOCAL SOURCES. USE ALONG RIVER BANKS AND SHORELINES.
SPRIGS																
PANICGRASS, ATLANTIC COASTAL (PANICUM AMARUM VAR. AMARULUM)	20 LBS	0.5 LB	P C													GROWS WELL ON COASTAL SAND DUNES. BORROW AREAS, AND GRAVEL PITS. PROVIDES WINTER COVER FOR WILDLIFE. MIX WITH SERICEA LESPEDEZA EXCEPT ON SAND DUNES
REED CANARY GRASS (PHALARIS ARUNDINACEA)	50 LBS	1.1 LB	M-L P													
ALONE	30 LBS	0.7 LB														GROWS SIMILAR TO TALL FESCUE
WITH OTHER PERENNIALS																
SUNFLOWER 'AZTEC' MAXIMILLIAN (HELIANTHUS MAXIMILIANI)	10 LBS	0.2 LB	M-L P C													227,000 SEED PER POUND. MIX WITH WEEPING LOVEGRASS OR OTHER LOW-GROWING GRASSES OR LEGUMES.
				J	F	M	A	M	J	J	A	S	O	N	D	

FILE PATH: X:\FY21\1210496\04 CAD_BIM\04.02 CAD\CE501 PLOTTED BY: URUETA, JUAN DATE: 11/24/25

D

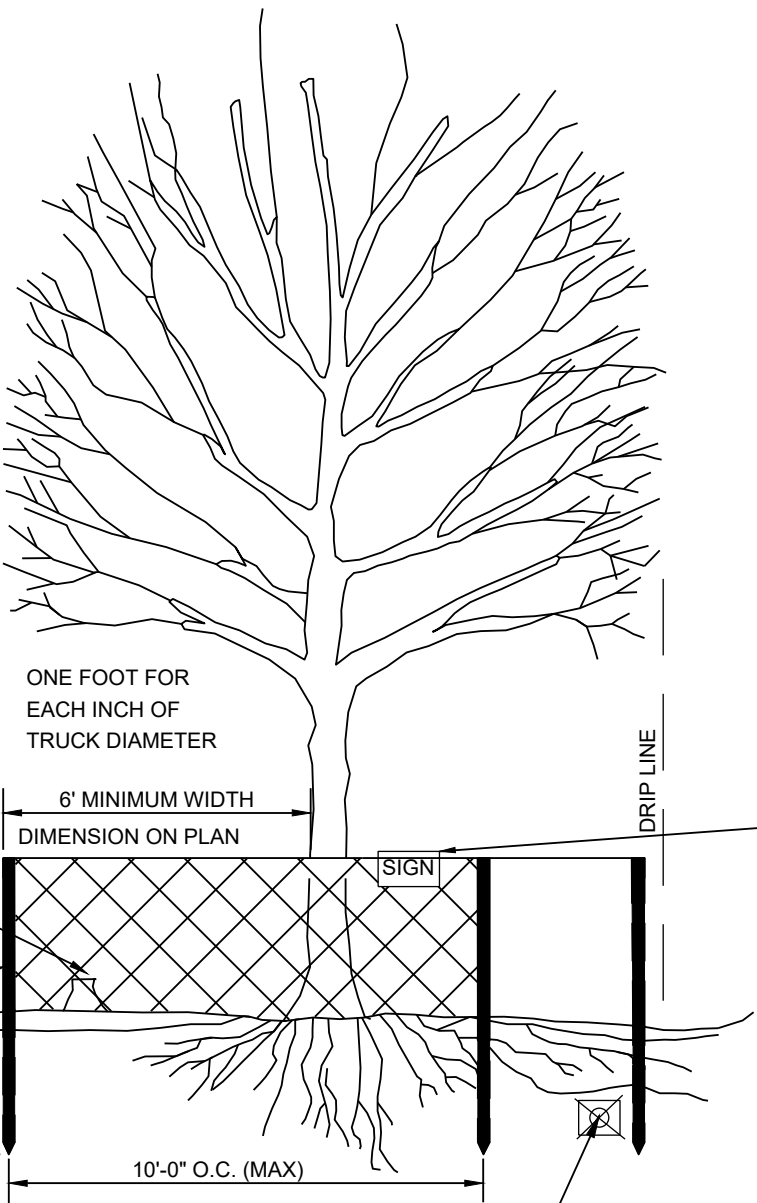
ANY ROOT OR BRANCH PRUNING SHALL BE DONE ONLY BY A LICENSED ARBORIST AT CONTRACTORS EXPENSE. NO GRADE CHANGE IS TO OCCUR IN TREE SAVE AREA. NO TREE WELLS OR AERATION SYSTEM. DO NOT DISTURB ORIGINAL GRADE.

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

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

REMOVE ALL BARRIERS UPON COMPLETION OF PROJECT.

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



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

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

NO TRENCHING OR TUNNELING FOR UTILITIES IN TREE SAVE AREA

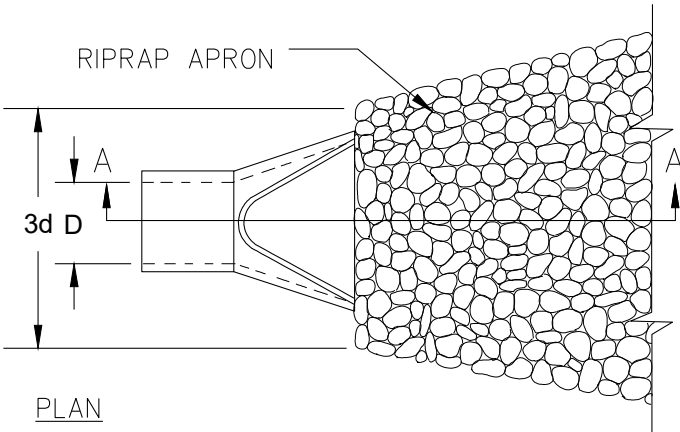
C

C1 TREE PROTECTION FENCE

NO SCALE

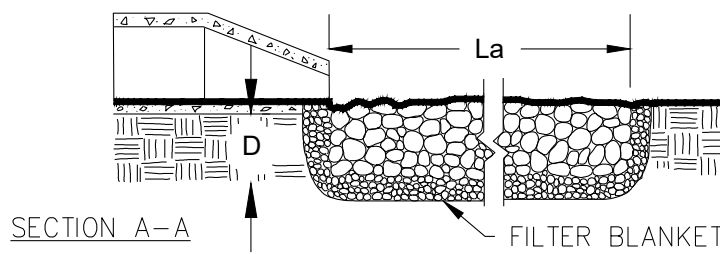
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PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



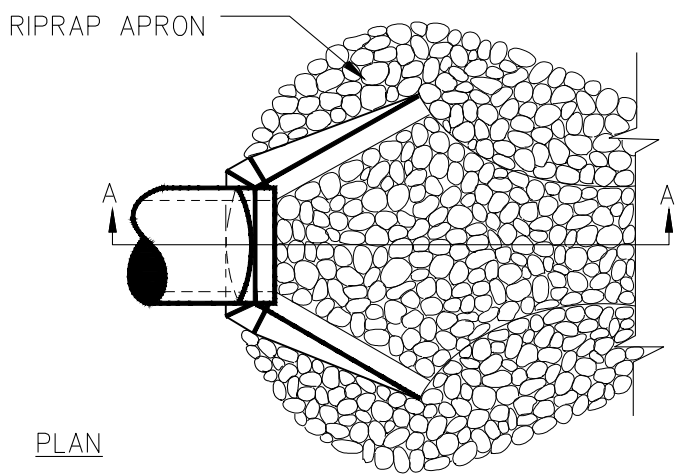
PLAN

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

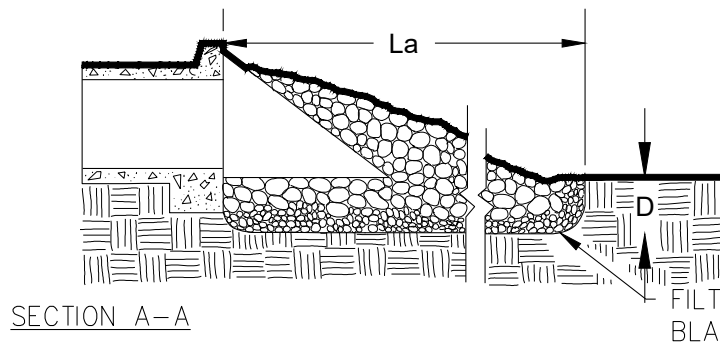


SECTION A-A

PIPE OUTLET TO WELL DEFINED CHANNEL



PLAN



SECTION A-A

Riprap Apron Summary

(St)	Pipe Diameter	Flow Rate		Tailwater	Riprap size	Max Stone	Apron	Apron Length	Apron Width at HW	Apron Width at End	Apron Weight
ID	(Do)	(cfs)	(fps)	(Min/Max)	(d50)	Size	Thickness	(La)	(W=3Do)	(W=Do+La)	(tons)
1	108	891	8.7	Min	12	24	36	54	27	63	3359.2

A1 STORM DRAIN OUTLET PROTECTION

NO SCALE

St



3500 Parkway Lane
Suite 500
Peachtree Corners
Georgia 30092

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FOR/AOR SEAL



GSWCCA 95439,
EXP. 9/10/2027

CLIENT INFORMATION

FAYETTE COUNTY

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

PROJECT NAME

CROSS CREEK TRAIL CULVERT REPLACEMENT

FAYETTE COUNTY, GA

DRAWING ISSUE

DATE

DESCRIPTION

MARK

DESIGNED BY: MDW/MIA
DRAWN BY: MDW
CHECKED BY: COA
SUBMITTED BY: TT
DATE: NOVEMBER 24, 2025
PROJECT # 1210496

SHEET TITLE

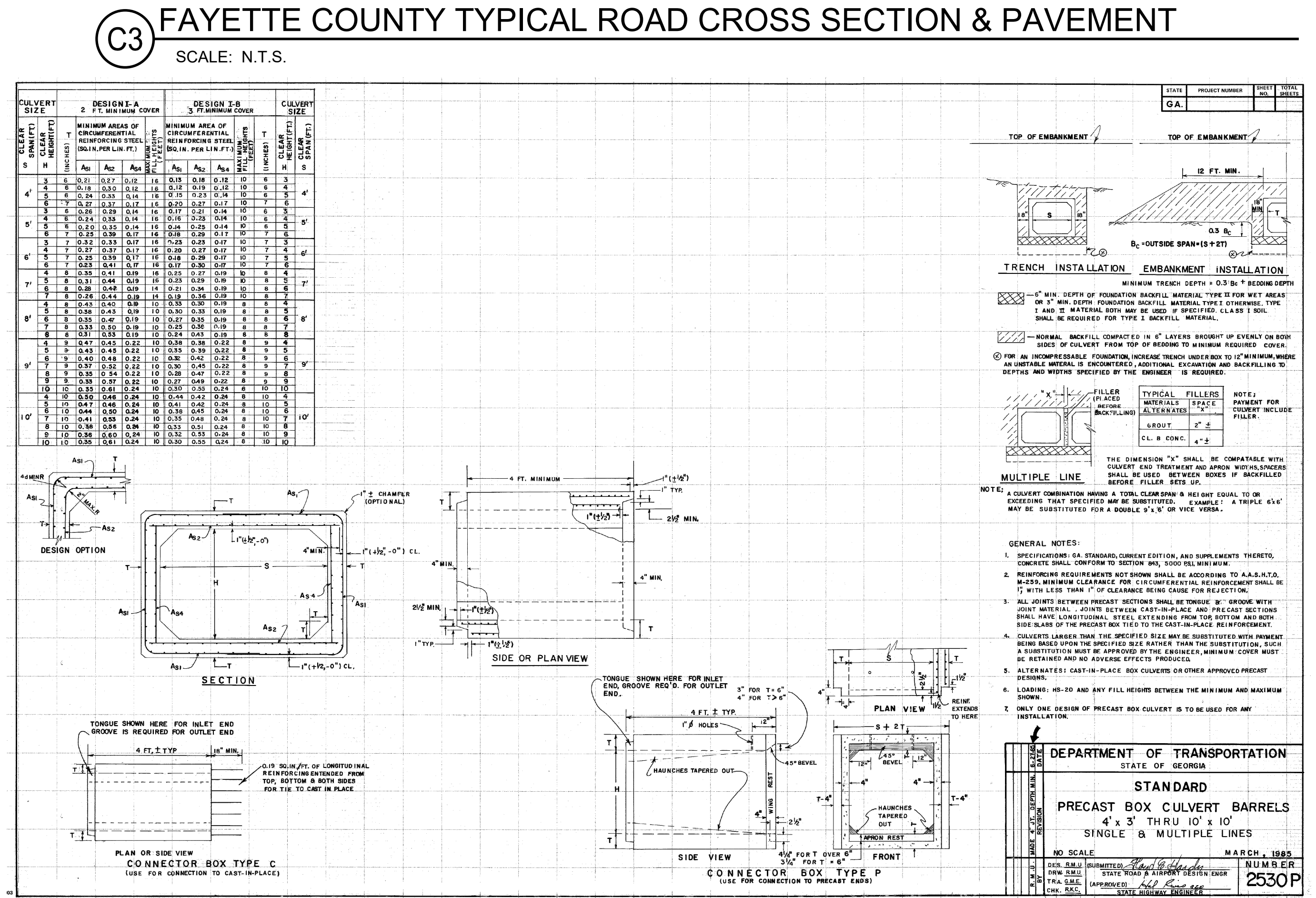
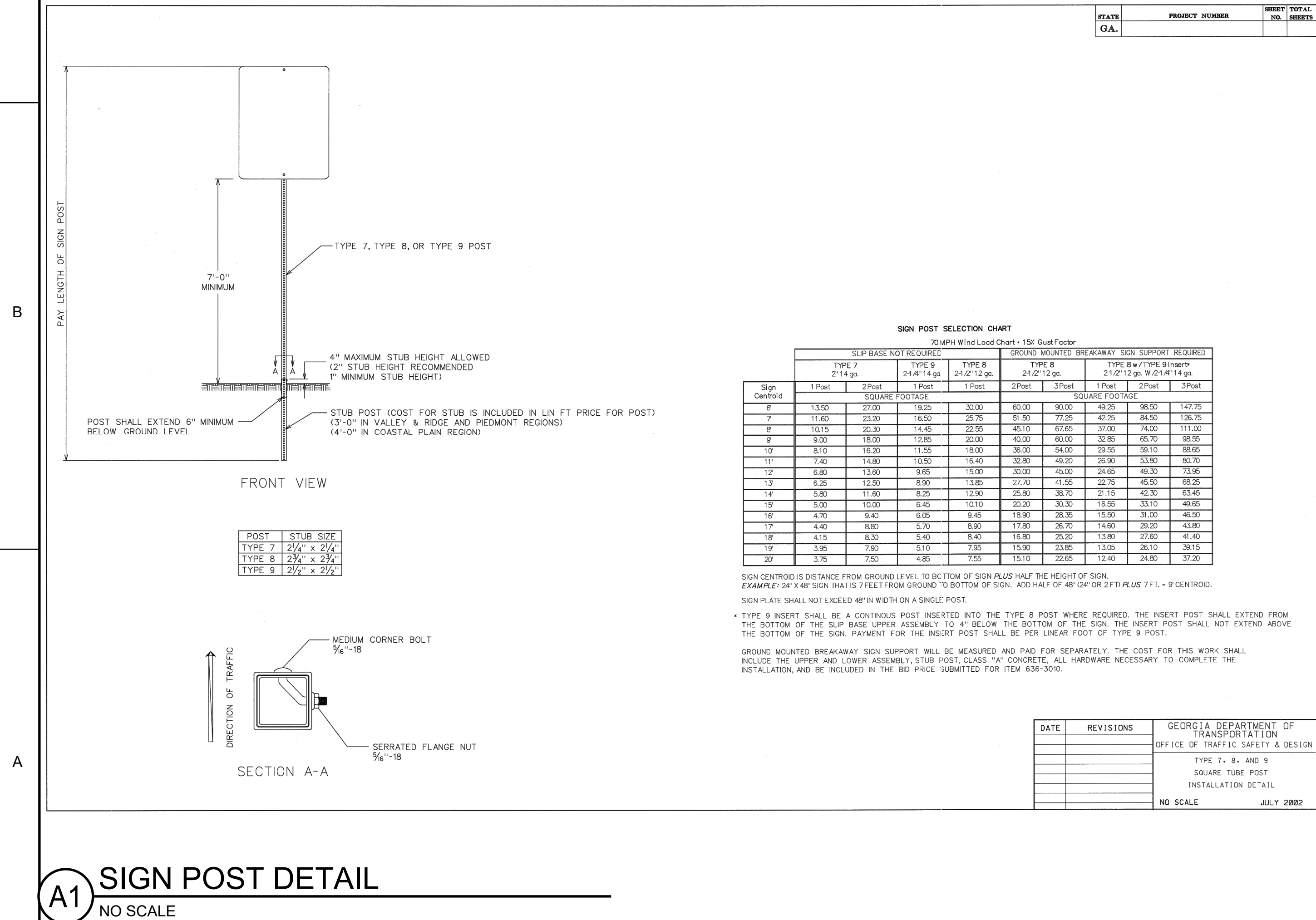
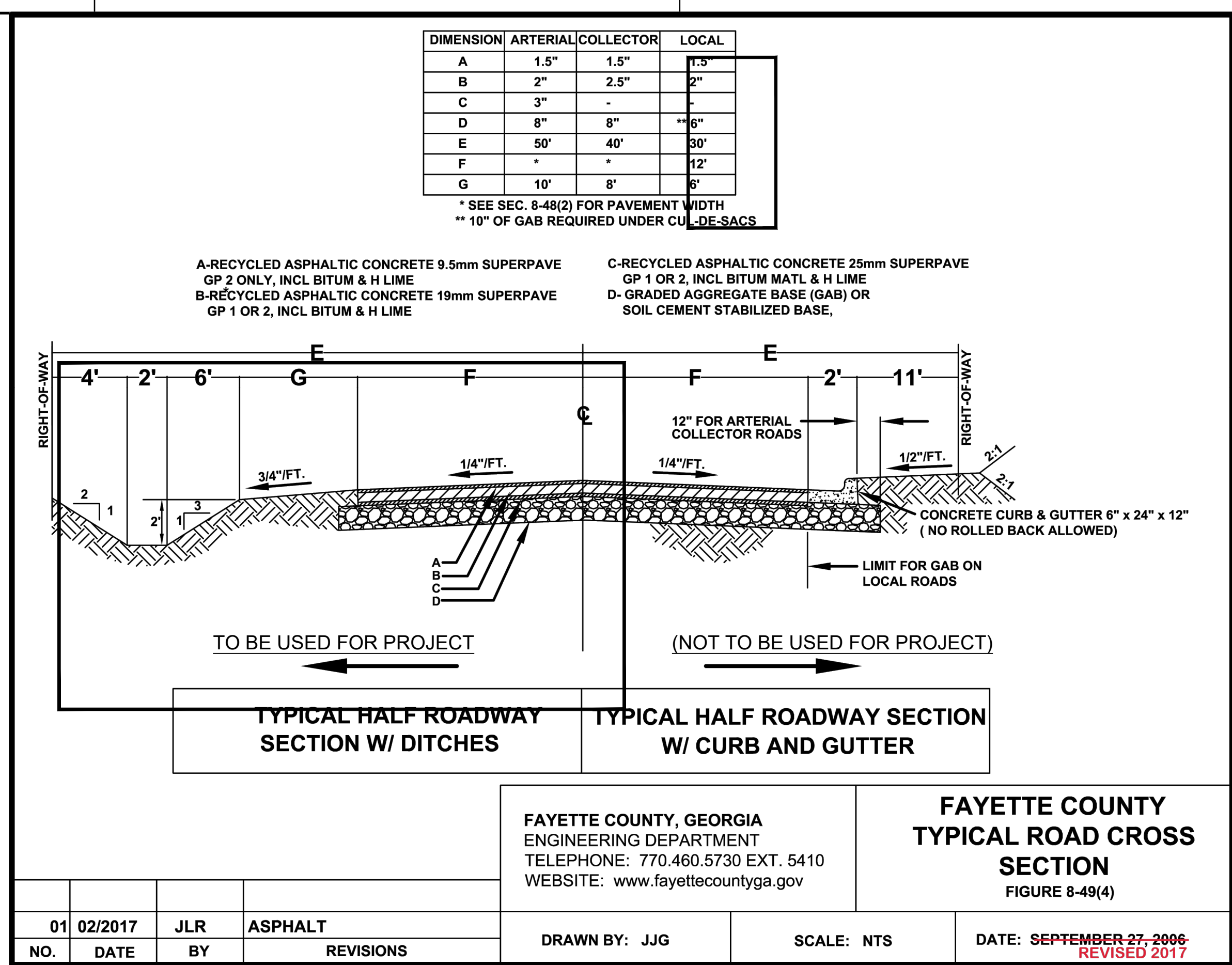
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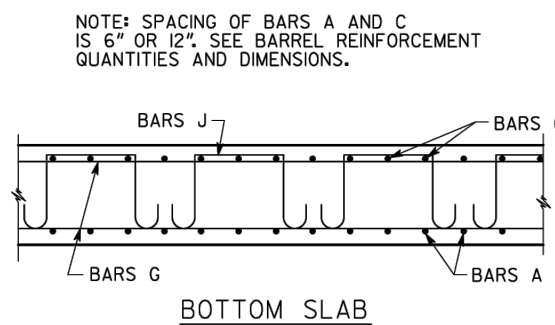
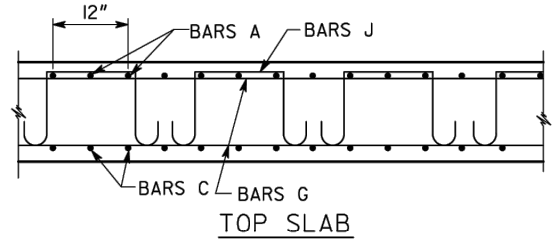
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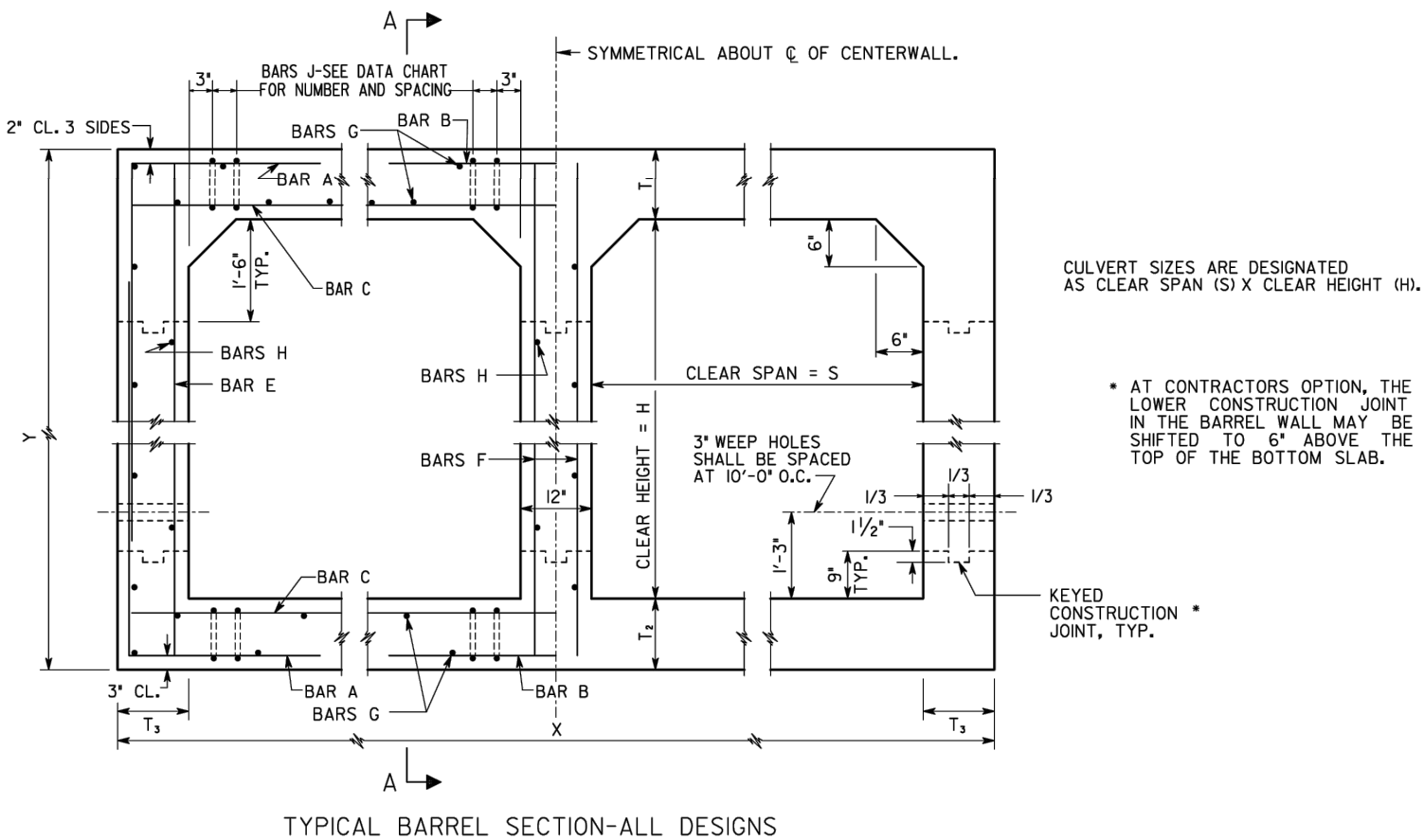
SHEET 17 OF 20

ORIGINAL SHEET SIZE:
22" X 34"





SECTION A-A



TYPICAL BARREL SECTION-ALL DESIGNS

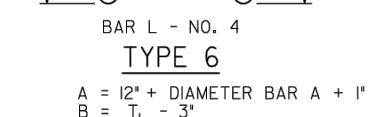
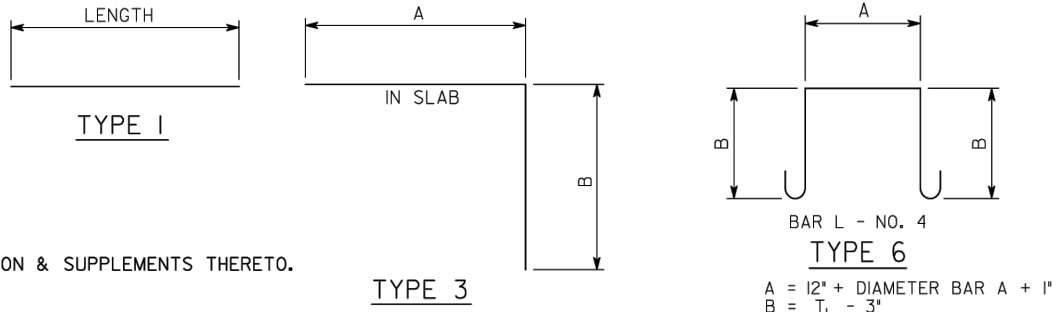
DESIGN	1	2	3	4	5	6	7	8
MAXIMUM FILL HEIGHT	10'	20'	30'	40'	50'	60'	70'	80'

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

- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
- ALL CONCRETE SHALL BE CLASS "AA".
- CHAMFER ALL EXPOSED EDGES 3/4".
- COST OF DRAIN PIPES, WEEP HOLES, COARSE AGGREGATE, AND ANY OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN THE PRICE BID FOR CONTRACT ITEMS.
- CONSTRUCTION JOINTS IN BARREL WALLS ARE REQUIRED.
- FOR DETAILS OF WINGWALLS AND PARAPETS SEE "REINFORCED CONCRETE WINGWALLS, TOWALLS AND PARAPETS FOR CONCRETE BOX CULVERTS" SHEETS.

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

GENERAL NOTES



DATE	DEPARTMENT OF TRANSPORTATION	
REVISION	STATE OF GEORGIA	
BY	STANDARD	
CHK	REINFORCED CONCRETE	
DATE	DOUBLE BOX CULVERT	
NO SCALE	SEPTEMBER 2017	NUMBER
DES. YSK	(SUBMITTED) <i>Paul S. R...</i>	2402
DRW. EGS	STATE DESIGN POLICY ENGINEER	SHEET 1 OF 3
TRAL	(APPROVED) <i>Marjorie B. R...</i>	
CHK. JMB	CHIEF ENGINEER	

DOUBLE 9'-0" X 9'-0" BOX CULVERT

BARREL REINFORCEMENT QUANTITIES AND DIMENSIONS

DESIGN	1	2	3	4	5	6	7	8
BAR A	581A @ 12"	478A @ 6"	714A @ 12"	563A @ 6"	606A @ 6"			
BAR B	718 @ 12"	623 @ 6"	618 @ 6"	718 @ 6"	802 @ 6"			
BAR C	741 @ 12"	742 @ 12"	510 @ 6"	642 @ 6"	643 @ 6"			
BAR E	457 @ 12"	548 @ 12"	549 @ 12"	550 @ 12"	461 @ 6"			
BAR F	457 @ 12"	458 @ 12"	459 @ 12"	460 @ 12"	461 @ 12"			
BAR G IN 2 SLABS	64 - 401	64 - 401	64 - 401	64 - 401	64 - 401			
BAR H IN 3 WALLS	38 - 402	38 - 402	38 - 402	38 - 402	38 - 402			
BAR J IN EXT. CORNER	0	0	4-428 @ 10 1/4"	4-428 @ 10 1/4"	3-438 @ 11 1/4"			
BAR J IN INT. CORNER	0	0	4-428 @ 10 1/4"	4-428 @ 10 1/4"	3-438 @ 8 1/2"			
T1	14"	16"	17"	17"	18"			
T2	14"	16"	17"	17"	18"			
X	21'-4"	21'-6"	21'-8"	21'-10"	22'-0"			
Y	11'-5"	11'-7"	11'-9"	11'-11"	12'-3"			
YD' CLASS AA CONCRETE/FT	3,039	3,242	3,448	3,655	3,864			
LB BAR REINF. STEEL/FT	293.4	328.4	350.8	375.9	414.3			
YD' CLASS AA CONCRETE	10.2	10.5	10.7	10.9	11.1			
LB BAR REINF. STEEL	1399	1399	1398	1397	1397			
YD' CLASS AA CONCRETE	10.6	10.9	11.1	11.3	11.6			
LB BAR REINF. STEEL	1709	1711	1713	1714	1716			
YD' CLASS AA CONCRETE	11.9	12.1	12.4	12.6	12.9			
LB BAR REINF. STEEL	1805	1808	1810	1812	1815			
YD' CLASS AA CONCRETE	14.6	15.2	15.8	16.2	16.5			
LB BAR REINF. STEEL	2034	2038	2042	2046	2049			

MARK	LENGTH	TYPE
401	1'-4"	I
402	1'-4"	I
403	3'-11"	I
404	3'-9"	I
405	3'-11"	I
406	4'-0"	I
407	4'-1"	I
408	4'-2"	I
409	4'-3"	I
410	4'-4"	I
411	4'-6"	I
412	4'-8"	I
413	4'-10"	I
414	5'-0"	I
415	5'-2"	I
416	5'-4"	I
417	5'-6"	I
418	5'-8"	I
419	5'-10"	I
420	6'-0"	I
421	6'-2"	I
422	6'-4"	I
423	6'-6"	I
424	6'-8"	I
425	6'-10"	I
426	6'-12"	I
427	6'-14"	I
428	7'-0"	I
429	7'-2"	I
430	7'-4"	I
431	7'-6"	I
432	7'-8"	I
433	7'-10"	I
434	7'-12"	I
435	7'-14"	I
436	7'-16"	I
437	7'-18"	I
438	7'-20"	I
439	7'-22"	I
440	7'-24"	I
441	7'-26"	I
442	7'-28"	I
443	7'-30"	I
444	7'-32"	I
445	7'-34"	I
446	7'-36"	I
447	7'-38"	I
448	7'-40"	I
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453	7'-50"	I
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455	7'-54"	I
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458	7'-60"	I
459	7'-62"	I
460	7'-64"	I
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462	7'-68"	I
463	7'-70"	I
464	7'-72"	I
465	7'-74"	I
466	7'-76"	I
467	7'-78"	I
468	7'-80"	I
469	7'-82"	I
470	7'-84"	I
471	7'-86"	I
472	7'-88"	I
473	7'-90"	I
474	7'-92"	I
475	7'-94"	I
476	7'-96"	I
477	7'-98"	I
478	7'-100"	I
479	7'-102"	I

MARK	LENGTH	TYPE
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482	2'-4"	I
483	2'-6"	I
484	2'-8"	I
485	2'-10"	I
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490	2'-20"	I
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493	2'-26"	I
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495	2'-30"	I
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499	2'-38"	I
500	2'-40"	I
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504	2'-48"	I
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565	2'-170"	I
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567	2'-174"	I
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569	2'-178"	I
570	2'-180"	I
571	2'-182"	I
572	2'-184"	I

MARK	LENGTH	TYPE
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609	6'-11"	I
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613	8'-4"	I
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616	9'-4"	I
617	9'-6"	I
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620	10'-6"	I
621	10'-8"	I
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625	11'-6"	I
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636	14'-2"	I
637	14'-8"	I
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645	24'-0"	I
646	24'-4"	I

MARK	LENGTH	TYPE
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711	9'-6"	I
712	9'-8"	I
713	9'-10"	I
714	10'-0"	I
715	10'-2"	I
716	10'-4"	I
717	10'-8"	I
718	11'-0"	I
719	11'-4"	I
720	11'-6"	I
721	11'-8"	I
722	11'-10"	I
723	12'-0"	I
724	12'-2"	I
725	12'-3"	I
726	12'-4"	I
727	12'-6"	I
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732	13'-6"	I
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734	14'-0"	I
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736	15'-0"	I
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742	21'-2"	I
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803	11'-3"	I
804	11'-8"	I
805	11'-8"	I
806	12'-0"	I
807	12'-4"	I
808	12'-8"	I
809	13'-0"	I
810	13'-2"	I
811	13'-4"	I