

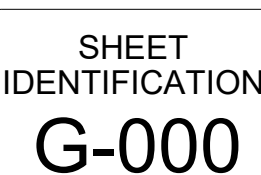
FAYETTE COUNTY PROJECT NUMBER:19SBK



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.



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**Dial 811**  
Or Call 800-282-7411





ABBREVIATIONS

D	AAP	ALARM ANNUNCIATOR PANEL AUTOMATIC	E	EAST	LEN	LEN LENGTH	RPM	REVOLUTIONS PER MINUTE
	AARV	AIR RELEASE VALVE AUTOMATIC	EA	EACH	LB	POUND(S)	RR	RAILROAD
	AAV	AIR VENT	ECC	ECCENTRIC	LF	LINEAR FEET	RT	RIGHT
	AB	ANCHOR BOLT	EF	EACH FACE	LP	LIGHT POLE	RVT	RIVETED
	ABAN	ABANDON(ED)	EFF	EFFLUENT	LS	LIME SLURRY	RW	RAW WATER
	ABRSV	ABRASIVE	E/L	EASEMENT LINE	LSS	LIME STABILIZED SLUDGE	RWW	RAW WASTEWATER
	ABS	ACRYLONITRILE BUTADIENE STYRENE	EL	ELEVATION	LWL	LOUVER	R/W	RIGHT-OF-WAY
	ABV	ABOVE	ELAST	ELASTOMERIC				
	AC	ALTERNATING CURRENT	ELEC	ELECTRICAL	M		S	SOUTH
	ACOMP	ASPHALT-COATED CORRUGATED METAL PIPE	EMER	EMERGENCY	M	METER	S	SAMPLE LINE
	ACP	ASBESTOS CEMENT PIPE	EMC	ENCASE(MENT)	MAINT	MAINTAIN OR MAINTENANCE	SA	SANITARY
	ADDM	ADDENDUM	ENGR	ENGINEER	MAN	MANUAL(LY)	SCHED	SCHEDULE
	ADH	ADHESIVE	EP	EDGE OF PAVEMENT	MAS	MASONRY	SD	STORM DRAIN
	AFF	ABOVE FINISHED FLOOR	EPDM	ETHYLENE PROPYLENE DIENE	MATL	MATERIAL	SE	SOUTHEAST
	AFG	ABOVE FINISHED GRADE		MONOMER	MAX	MAXIMUM	SECT	SECTION
	AFS	ABOVE FINISHED SLAB	EPRF	EXPLOSION PROOF	MCC	MOTOR CONTROL CENTER	SEFF	SECONDARY EFFLUENT
	AHD	ALUMINUM	EQUIP	EQUIPMENT	ME	MITERED END	SF	SQUARE FOOT OR FEET
	AL	ALTERNATE	ER	ECCENTRIC REDUCER	MECH	MECHANICAL	SHT	SHEET(ED)(ING)
	ALT	ALTERNATE	ESTM	ESTIMATE(D)	MEG	MATCH EXISTING GRADE	SIG	SIGNAL
	AMP	AMPERE	EST	ESTIMATE(D)	MFR	MANUFACTURE(R)	SIM	SIMILAR
	AMT	AMOUNT	EW	EACH WAY	MG	MILLION GALLONS	SL	SLUDGE
	APRX	APPROXIMATE(LY)	EXC	EXCAVATE	MGD	MILLION GALLONS PER DAY	SLV	SLEEVE
	ARCH	ARCHITECT(URAL)	EXP	EXPANSION	MH	MANHOLE	SM	SHEET METAL
	AS	ALUM SOLUTION	EXST	EXISTING	MI	MILE(S)	SOLN	SOLUTION
	ASPH	ASPHALT	EXST	EXISTING GRADE	MIN	MINIMUM, MINUTE(S)	SP	SOIL PIPE, SPACE(ING)
	ASSY	ASSEMBLY	EXT	EXTERIOR	MISC	MISCELLANEOUS	SPEC	SPECIFICATION
	AVE	AVENUE	EXTN	EXTENSION	MJ	MECHANICAL JOINT	SPRT	SUPPORT
	A/C	AIR CONDITIONING	F	FABRICATE(D)	ML	MIXED LIQUOR	SQ	SQUARE
	AVV	AIR/VACUUM AIR VALVE	FAB	FABRICATE(D)	MO	MASONRY OPENING	SS	SANITARY SEWER
		B	BAFFLE	FCA	FLANGED COUPLING ADAPTER	MON	MONUMENT	SSE
BCV		BALL CHECK VALVE	FB	FLAT BAR	MPH	MILES PER HOUR	SST	STAINLESS STEEL
BF		BLIND FLANGE	FD	FLOW-CONTROL VALVE	MPT	MALE PIPE THREAD	ST	STREET
BFV		BUTTERFLY VALVE	FDN	FOUNDATION	MS	MOTOR STARTER	STA	STATION
BHP		BRAKE HORSEPOWER	FE	FILTER(ED) EFFLUENT	MSP	MOTOR STARTER PANEL	STD	STANDARD
BI		BLACK IRON	FHY	FIRE HYDRANT	MTD	MOUNTED	STK	STAKE
BITUM		BITUMINOUS OR BITUMASTIC	FE	FILTER(ED) EFFLUENT	MV	MOTORIZED VALVE	STL	STEEL
B/L		BASLINE	FIG	FIGURE	MW	MANWAY	STR	STRAIGHT
BLDG		BUILDING	FIN	FINISH(ED)	MWL	MEAN WATER LEVEL	STRUCT	STRUCTURAL
BLK		BLOCK	FIN/FLR	FINISH FLOOR	MWP	MAXIMUM WORKING PRESSURE	SURF	SURFACE
C	BM	BENCH MARK	FIN/GR	FINISH GRADE	N		SV	SOLENOID VALVE
	BOC	BACK OF CURB	FL	FLUORIDE	N	NORTH	SVW	SERVICE
	BOT	BOTTOM	FLG	FLANGE(D)	NaOCI	SODIUM HYPOCHLORITE	SW	SOUTHWEST
	BP	BASE PLATE	FLL	FLOW LINE	NE	NORTHEAST	SWD	SIDEWATER DEPTH
	BRG	BEARING	FLTR	FILTER	NIC	NOT IN CONTRACT	SWSH	SURFACE WASH
	BSP	BLACK STEEL PIPE	FM	FORCE MAIN	NO	NUMBER	SYM	SYMBOL
	BV	BALL VALVE	FPM	FEET PER MINUTE	NOM	NOMINAL	SYMM	SYMMETRICAL
	BW	BOTH WAYS	FPS	FEET PER SECOND	NPT	NATIONAL PIPE THREAD	S/W	SIDEWALK
	BWW	BACKWASH WATER	FRP	FIBERGLASS REINFORCED PLASTIC	NPW	NON-POTABLE WATER		
		C	CAPACITY	FT	FOOT OR FEET	NRS	NON-RISING SYSTEM	T
CAP		COMPRESSED AIR	FUT	FUTURE	NTS	NOT TO SCALE	TAN TB	TEMPORARY BENCH MARK TEST
CA		COMBINATION AIR VALVE	FV	FOOT VALVE	NW	NORTHWEST	TB-xx	BORING-xx (e.g. TB-1)
CAV		CATCH BASIN	FW	FINISHED WATER	N/A	NOT APPLICABLE	TD	TRENCH DRAIN
CB		CHLORINE CONTACT CHAMBER	F/F	FACTORY WIRED PANEL	Q		TDH	TOTAL DYNAMIC HEAD
CCC		CHLORINATED EFFLUENT		FACE TO FACE	O2	OXYGEN	TE	TOTALLY ENCLOSED
CE		CUBIC FEET PER MINUTE	G	GAUGE	OC	ON CENTER	TEFC	TOTALLY ENCLOSED FAN COOLED
CFM		CUBIC FEET PER SECOND	GA	GALLON(S)	OD	OUTSIDE DIAMETER	TEL	TELEPHONE
CFS		CUBIC FEET PER SECOND	GAL	GALLON(S)	ODP	OPEN DRIP PROOF	TENV	TOTALLY ENCLOSED
CV		CHECK VALVE	GALV	GALVANIZED	OF	OUTSIDE FACE	THD	NON-VENTILATED
	CIP	CAST IRON	GJ	GALVANIZED IRON PIPE	OH	OVER HEAD	THK	THICKNESS
	CISP	CAST IRON PIPE	GND	GROOVE JOINT	OHW	OVER HEAD WIRE	TLM	TELEMETRY
	CJ	CAST IRON SOIL PIPE	GPD	GALLONS PER DAY	OPP	OPPOSITE	TOB	TOP OF BANK
	CKT	CONSTRUCTION JOINT	GPH	GALLONS PER HOUR	OPT	OPTIONAL	TOC	TOP OF CURB
	CL	CIRCUIT	GPM	GALLONS PER MINUTE	OR	OFFICIAL RECORDS	TOS	TOE OF SLOPE
	CL2	CENTER LINE	GPS	GALLONS PER SECOND	OSY	OUTSIDE SCREW AND YOKE	TOT	TOTAL
	CLF	CHLORINE GAS	GR	GRADE	OSM	OPERATION AND MAINTENANCE	TP	TELEPHONE POLE
	CLR	CHAIN LINK FENCE	GRTG	GRATING	P		TS	THICKENED SLUDGE
	CLVT	CLEAR OR CLEARANCE	GS	GALVANIZED STEEL	PA	PROCESS AIR	TV	TELEVISION
	CMP	CULVERT	GSP	GALVANIZED STEEL PIPE	PC	POINT OF CURVE	T&B	TYPICAL
	CMPA	CORRUGATED METAL PIPE	GSR	GROUND STORAGE RESERVOIR	PCM	PERMANENT CONTROL MONUMENT PLAIN		TOP AND BOTTOM
	CMU	CORRUGATED METAL PIPE ARCH	GST	GROUND STORAGE TANK	PE	END		
	CND	CONCRETE MASONRY UNIT	GT	GROUT	PG	PRESSURE GAGE	U	
	CNR	CONDUIT	GV	GATE VALVE	PI	POINT OF INTERSECTION	UD	UNDERDRAIN
	CO	CORNER	H		PL	PLATE	UG	UNDERGROUND
	CO2	CLEAN OUT	HB	HOSE BIBB	P/L	PROPERTY LINE	ULT	ULTIMATE
	COAG	COAGULANT	HD	HEAVY-DUTY	PNV	PINCH VALVE	UN	UNION
	COL	COLUMN	HDPE	HIGH-DENSITY POLYETHYLENE	POB	POINT OF BEGINNING	UON	UNLESS OTHERWISE NOTED
	COM	COMMON	HDR	HYDRAULIC	POJ	PUSH-ON JOINT	UGE	UNDERGROUND ELECTRIC
	CONC	CONCRETE	HFA	HYDROFLUOSILICIC ACID	POL	POLYMER	UTC	UNDERGROUND TELEPHONE CABLE
	CONN	CONNECTION	HGR	HYDROFLUOSILICIC ACID	PP	POWER POLE		UTILITY
	CONSTR	CONSTRUCTION	HGT	HANGER	PPD	POUNDS PER DAY	UTIL	
	CONT	CONSTRUCTION	HNDRL	HEIGHT	PPM	POUNDS PER MINUTE		
	CONTR	CONTRACT(OR)	HOA	HAND RAIL	PREFAB	PARTS PER MILLION	V	VOLT(S)
	COORD	COORDINATE	HORIZ	HAND-OFF-AUTO	PRESS	PRESSURE	V	VACUUM
	CO	COMPANY	HP	HORIZONTAL	PRV	PRESSURE REDUCING VALVE	VAC	VARIES
	CP	CONCRETE PIPE	HPA	HORSEPOWER	PRW	PROCESS WATER	VAR	VERTICAL CURVE
	CPA	CONCRETE PIPE ARCH	HR	HIGH PRESSURE AIR	PSF	POUNDS PER SQUARE FOOT	VC	VITRIFIED CLAY PIPE
	CPLG	COUPLING	HR	HOUR	PSI	POUNDS PER SQUARE INCH	VCP	VELOCITY
	CPVC	CHLORINATED POLYVINYL CHLORIDE	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	VEL	VERTICAL
	CR	CONCENTRIC REDUCER		CONDITIONING	PSIG	POUNDS PER SQUARE INCH GAGE POINT OF TANGENCY	VERT	VARIABLE FREQUENCY DRIVE
	CS	CHLORINE SOLUTION	HWL	HIGH WATER LEVEL	PT	TANGENCY	VFD	VOLUME
	CSG	CASING	HWY	HIGHWAY	PV	PLUG VALVE	VOL	
	CTV	CABLE TELEVISION	HZ	HERTZ	PVC	POLYVINYL CHLORIDE		
	CY	CUBIC YARD			PVM	PAVEMENT	W	WATT, WEST
	C&G	CURB AND GUTTER	I		PW	POTABLE WATER	WAS	WASTE ACTIVATED SLUDGE WALL
	C/C	CENTER TO CENTER	ID	INSIDE DIAMETER	PWR	PWR POWER	WCO	CLEAN OUT
	D	DATUM	IN	INCH(ES)	Q	FLOW	WF	WIDE FLANGE
	DBL	DOUBLE	INF	INFLUENT	Q	QUANTITY	WH	WALL HYDRANT
	DC	DIRECT CURRENT	INT	INTERSECTION	QTY		WL	WATER LINE
	DEMO	DEMOLITION	INTR	INTERIOR			WM	WATER MAIN
	DEPT	DEPARTMENT	INV	INVERT	R	RADIUS	WM	WATER PROOF(ING),WORKING POINT
	DESC	DESCRIPTION	IPS	IRON PIPE	RAD	RETURN ACTIVATED SLUDGE	WP	WORKING PRESSURE
	DET	DETAIL		INTERNATIONAL PIPE STANDARD	RAS	REINFORCED CONCRETE	WPR	WATER SURFACE
	DI	DIESEL FUEL		INTERNAL RECYCLE	RC	REINFORCED CONCRETE BOX	WS	WELDED STEEL PIPE
	DIA	DIAMETER	IR	IRRIGATION WATER	RCB	REINFORCED CONCRETE PIPE	WSP	WEIGHT
	DIFF	DIFFUSER	IW		RCP	REINFORCED CONCRETE PIPE ARCH	WT	WATER TREATMENT PLANT
	DIM	DIMENSION	J	JUNCTION BOX	RCPA	ROAD	WTP	WASH WATER
	DIP	DUCTILE IRON PIPE	JB	JOINT	RD	REDUCER	WW	WELDED WIRE FABRIC
	DISCH	DISCHARGE	JT		RDCR	REBAR	WWF	WELDED WIRE MESH
A	DIR	DIRECTION	K	KIP (1,000 LB)	REF	REFERENCE	WWTP	WASTEWATER TREATMENT PLANT
	DMH	DROP MANHOLE	K	KICK PLATE	REF	REINFORCE(D)(ING)(MENT)	W	W/O WITHOUT
	DN	DOWN	KPL	KILOVOLT	REIN	REINFORCE(D)(ING)(MENT)	X	XFER
	DR	DRAIN	KV	KILOVOLT-AMPERE	REIN	REMOVE(ABLE)		
	DV	DIAPHRAGM VALVE	KWA	KILOVOLT-AMPERE	REQD	REQUIRED		
	DW	DRIVEWAY	KW	KILOWATT	RF	RAISED FACE		
	DWG	DRAWING	KWH	KILOWATT-HOUR	RJ	RESTRAINED JOINT		
	DWV	DRAIN, WASTE, AND VENT	L	LEFT	RM	ROOM	YD	YD YARD(S)
			L	LABORATORY	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER	YH	YARD HYDRANT
			LAM	LAMINATE OR LAMINATION			YR	YEAR(S)
		LATL	LATERAL					
		LAV	LAVATORY					

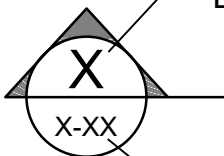

CIVIL LEGEND

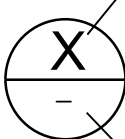
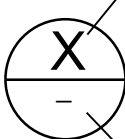
PROPOSED ITEM	DESCRIPTION
+ 267.54	SPOT ELEVATION
---C/L---C/L---	CONSTRUCTION LIMITS
—W—W—	DOMESTIC WATER
—FW—FW—	FIRE WATER
	VALVE
	FIRE HYDRANT
—SS—SS—	SANITARY SEWER
	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEANOUT
	STORM DRAIN
	DROP INLET
	HEADWALL
—X—X—	FENCE
—40—	PROPOSED CONTOUR MAJOR
—42—	PROPOSED CONTOUR MINOR
	NORTH ARROW
—TPF—	TREE PROTECTION FENCE
—??—	UNKNOWN UTILITY
—E—	EXISTING ELECTRICAL OVERHEAD
—CM—	EXISTING COMMUNICATION LINE OVERHEAD
	GUARD RAIL
	BENCHMARK

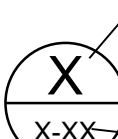
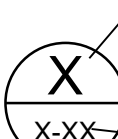
HATCHING LEGEND

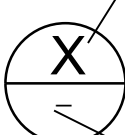
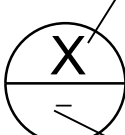
	CAST-IN-PLACE CONCRETE
	ASPHALT PAVEMENT SURFACE
	HEAVY DUTY GRAVEL
	EARTH
	GROUT
	RIP RAP

REFERENCE SYMBOLS

	DENOTES SECTION LETTER IDENTIFICATION
	
	DENOTES DRAWING NO WHERE SECTION IS LOCATED
<u>SECTION REFERENCE</u>	

	DENOTES SECTION LETTER IDENTIFICATION
<b>SECTION</b>	
	SCALE:
	DENOTES DRAWING NO WHERE SECTION IS LOCATED
<u>SECTION TITLE</u>	

	DENOTES DETAIL NUMBER IDENTIFICATION
	DENOTES DRAWING NO WHERE DETAIL IS LOCATED
<u>DETAIL REFERENCE</u>	

	DENOTES DETAIL NUMBER IDENTIFICATION
<b>DETAIL</b>	
	SCALE:
	DENOTES DRAWING NO WHERE DETAIL IS LOCATED
<u>DETAIL TITLE</u>	



DEMOLITION NOTES

- ## EARTHWORK, GRADING, STABILIZATION, PAVING AND DRAINAGE NOTES

- TRAFFIC CONTROL NOTES

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

SHEET  
IDENTIFICATION  
C-002



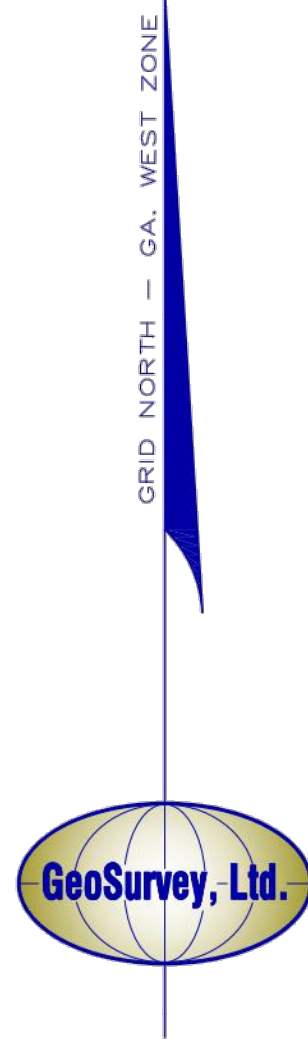
## SITE PHOTOGRAPHS



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②



## UTILITY PROVIDERS

**Gas**  
Southern Company Gas (former Atlanta Gas Light)  
10 Peachtree Street NE  
Atlanta, GA 30309  
Hilma Alemayehu  
(404) 584-3474  
g2sogasline@southernco.com

**Power**  
Caweta-Fayette EMC  
807 Collinsworth Road  
Palmetto, GA 30268  
(770) 502-0226 ext 4249  
Jay Coker

**Water**  
Fayette County Water System  
260 McDonough Road  
Fayetteville, GA 30214  
(770) 461-1146

**Communication**  
AT&T  
208 S. Akard St  
Dallas, TX 75202  
210-821-4105  
Angelo Hines

(770) 784-3972  
Comcast  
(770) 559-6879  
Sandra Andrews

ZAYO Fiber Solutions  
400 Centennial Pkwy, Suite. 200  
Louisville, CO 80027  
(678) 666-2493  
Nic Flores

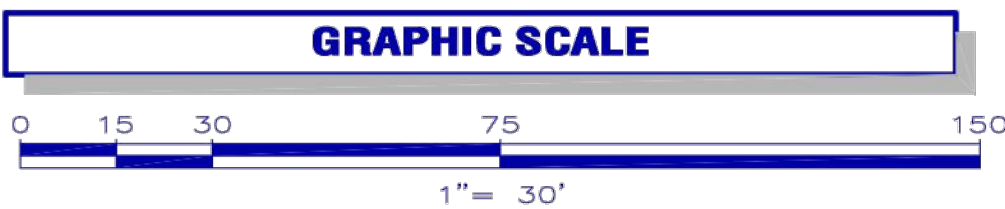
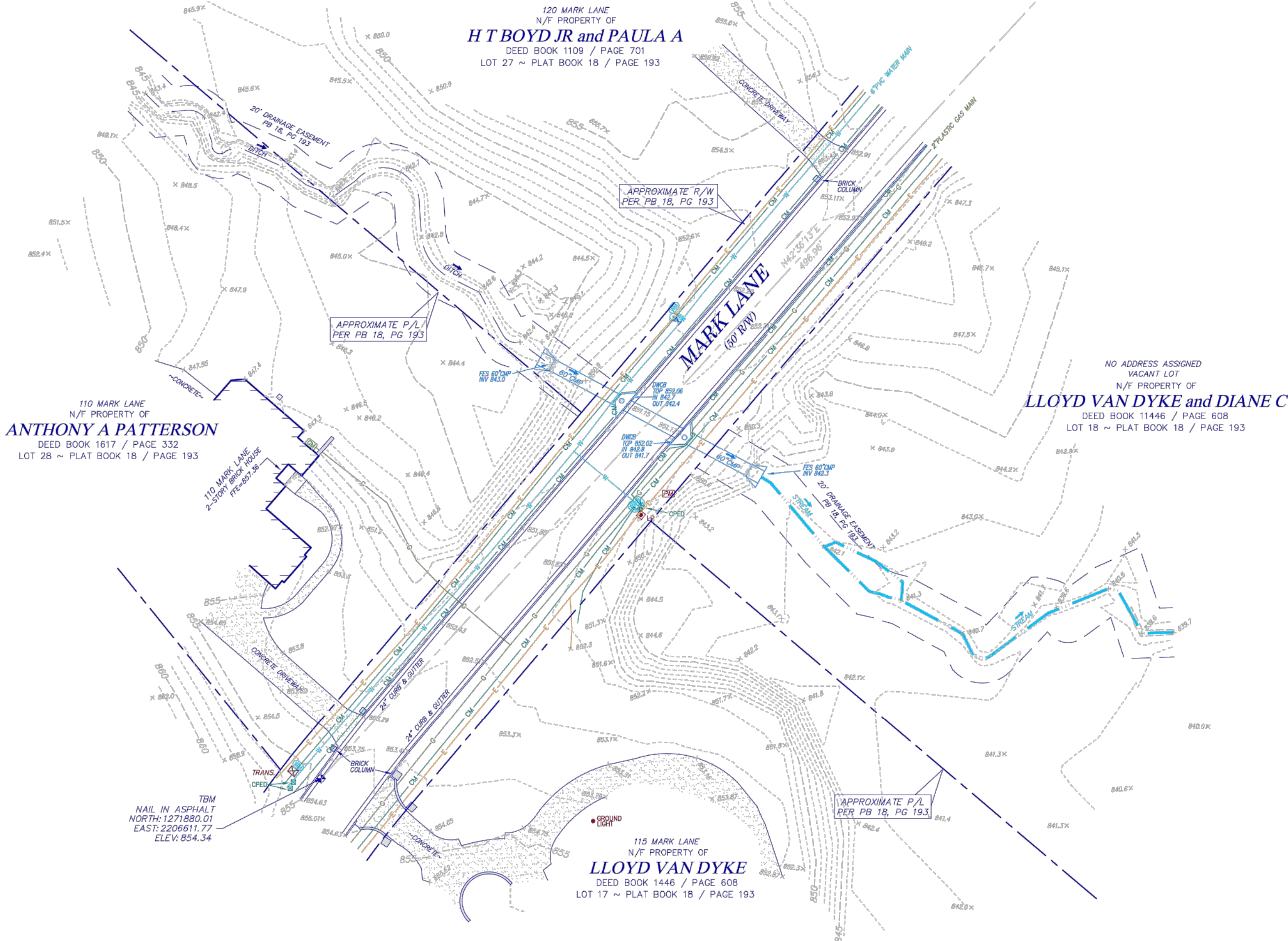
## CLOSURE STATEMENT

THE FIELD CLOSURE UPON WHICH THIS PLAT IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 118,281, AND WAS ADJUSTED USING THE LEAST SQUARES METHOD. A TRIMBLE S-6 TOTAL STATION AND TRIMBLE TSC-3 DATA COLLECTOR WERE USED TO COLLECT THIS FIELD DATA.

## IF YOU DIG



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



## AERIAL IMAGE



## UTILITY NOTE

THE UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON LOCATION OF MARKINGS PROVIDED BY:

UTILISURVEY, LLC  
1227 NORTH PEACHTREE PARKWAY, STE 178  
PEACHTREE CITY, GA 30269

THE UNDERGROUND UTILITIES (EXCEPT THE LOCATION OF EXISTING DRAINAGE, SEWER AND IRRIGATION UTILITIES AS WELL AS UNDERGROUND STORAGE TANKS) WERE LOCATED BY UTILISURVEY, LLC, UTILIZING RADIO FREQUENCY TECHNIQUE. THIS TECHNIQUE IS CAPABLE OF LOCATING METALLIC UTILITIES AND TRACER WIRES. ANY NON-METALLIC UTILITIES (WITHOUT TRACER WIRE) ARE NOT LOCATED.

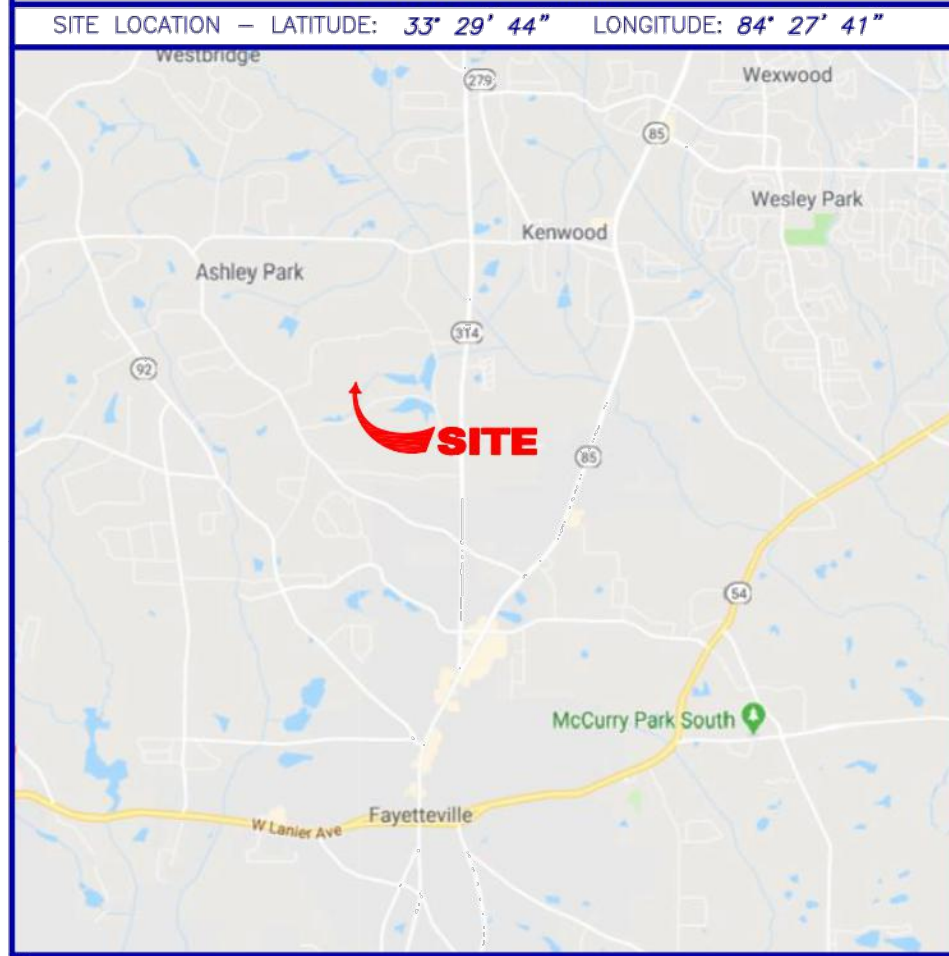
THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. UNDERGROUND UTILITIES NOT OBSERVED OR LOCATED UTILIZING THIS TECHNIQUE MAY EXIST ON THIS SITE BUT NOT BE SHOWN, AND MAY BE FOUND UPON EXCAVATION. THE SURVEYOR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

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

### LIST OF UTILITIES FOUND:

UNDERGROUND POWER ON NORTHWEST AND SOUTHEAST SIDE OF ROAD.  
UNDERGROUND COMMUNICATION ON NORTHWEST AND SOUTHEAST SIDE OF ROAD.  
UNDERGROUND CABLE TV COMMUNICATION ON NORTHWEST AND SOUTHEAST SIDE OF ROAD.  
WATER MAIN ON NORTHWEST SIDE OF ROAD WITH CROSSING AS SHOWN.  
GAS MAIN ON SOUTHEAST SIDE OF THE ROAD WITH CROSSING AS SHOWN.

## VICINITY MAP



## GENERAL NOTES

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

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

PLEASE NOTE: GEOSURVEY, LTD., ASSUMES NO LIABILITY REGARDING THE ACCURACY OR LOCATION OF PROPERTY LINES SHOWN HEREON. PROPERTY LINE INFORMATION IS SHOWN AS APPROXIMATE BASED ON SURVEY REFERENCE 1. NO BOUNDARY SURVEY WAS PERFORMED BY GEOSURVEY, LTD.

THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA BASED ON THE FLOOD INSURANCE RATE MAP FOR THIS AREA. THE MAP NUMBER FOR THIS AREA IS 13113C0102E, AND THE DATE OF SAID MAP IS SEPTEMBER 26, 2008. THIS DETERMINATION WAS MADE BY GRAPHICALLY DETERMINING THE POSITION OF THIS SITE ON SAID FIRM MAPS UNLESS OTHERWISE NOTED.

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

PLEASE NOTE: ZONING AND SETBACKS SHOULD BE CONFIRMED AND VERIFIED BY PLANNING AND ZONING PRIOR TO DESIGN OR CONSTRUCTION ACTIVITIES.

### SURVEY REFERENCES

1> FINAL PLAT OF MARTHA'S VINEYARD, RECORDED IN PLAT BOOK 18, PAGE 193.

## LEGEND

STANDARD ABBREVIATIONS	STANDARD SYMBOLS
AC AIR CONDITIONER	OVERHEAD TRAFFIC SIGNAL LIGHT
BH BORE HOLE	POWER POLE
BSL BUILDING SETBACK LINE	GUY WIRE
CI CURB INLET	POWER LINE
CMF CORRUGATED METAL PIPE	LIGHT POLE
CO SANITARY CLEANOUT	ELECTRIC TRANSFORMER
CPED COMMUNICATION PEDESTAL	WATER VAULT
CTP CRIMPED TOP PIPE	GAS VALVE
DI DROP INLET	GAS METER
DIP DUCTILE IRON PIPE	WATER VALVE
DWCB DOUBLE WING CATCH BASIN	WATER METER
FNC FENCE	FIRE HYDRANT
FND FOUND	UNDERGROUND ELECTRIC LINE
GM GAS METER	UNDERGROUND GAS LINE
INV INVERT	UNDERGROUND COMMUNICATION LINE
JBI JUNCTION BOX	UNDERGROUND WATER LINE
MH MANHOLE	PHOTO POSITION INDICATOR
OCS OUTLET CONTROL STRUCTURE	REGULAR PARKING SPACE COUNT
OTP OPEN TOP PIPE	HANDICAP PARKING SPACE
PM POWER METER	TREE POSITION INDICATOR
PK PK NAIL SET	SIGN
POB POINT OF BEGINNING	
POC POINT OF COMMENCEMENT	
RCP REINFORCED CONCRETE PIPE	
RBR IRON REINFORCING BAR	
RBS 5/8"RBR SET CAPPED LSF 621	
SS SANITARY SEWER	
SWCB SINGLE WING CATCH BASIN	
TRANS ELECTRIC TRANSFORMER	



Land Surveying • 3D Laser Scanning

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

## TOPOGRAPHIC SURVEY

### Mark Lane Stream Crossing

FOR

## Fayette County

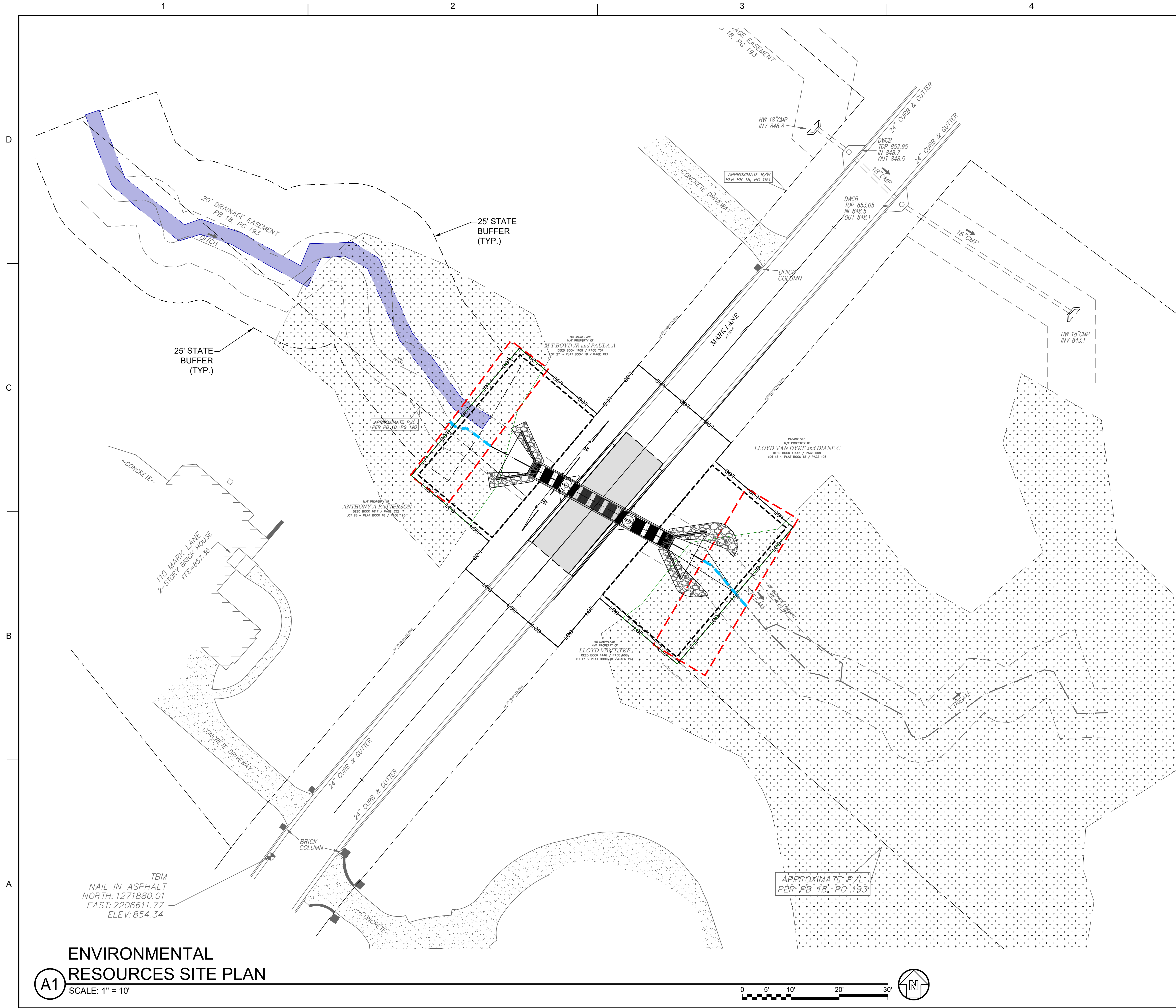
GS JOB NO:	20196043	DRAWING SCALE:	1"= 30'	SURVEY DATE:	02-19-2019
FIELD WORK:	CM	CITY:	UNINCORPORATED	REVISIONS	
PROJ MGR:	BDC	COUNTY:	FAYETTE	STATE:	GA
REVIEWED:	JRC	LAND LOT:	220	No.	Date
DWG FILE:	20196043-01.dwg	DISTRICT:	5TH	Description	







FILE NAME: X:\FY19\190369\T006 - Mark Lane 110 Culvert Replacement\04.CAD\_BIM\04.02.CAD\CS100.dwg PLOTTED: Monday, April 29, 2024



**ENVIRONMENTAL  
RESOURCES SITE PLAN**

SCALE: 1" = 10'

**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 10 FOOT LANE FOR TRAFFIC AT ALL TIMES.
- 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 DRAWING 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.
- EXISTING DRIVEWAYS TO REMAIN OPEN AND ACCESSIBLE AT ALL TIMES. CONTRACTOR TO PROTECT DRIVEWAYS DURING ALL PHASES OF CONSTRUCTION.
- IF PRECAST STRUCTURE IS USED IN PLACE OF A CAST-IN-PLACE STRUCTURE, THEN THE PRECAST STRUCTURE TO BE DESIGNED BY VENDOR DURING THE CONSTRUCTION SHOP DRAWING PROCESS. THE STRUCTURE SHOP DRAWINGS TO BE APPROVED BY ENGINEER FOR OWNER.

**LEGEND:**

- STREAM/SURFACE WATERS
- WETLAND
- 25 FOOT STATE BUFFER
- PERMANENT EASEMENT
- LIMITS OF DISTURBANCE AND TEMPORARY EASEMENT
- TYPE 3 RIP RAP AREA
- PROPOSED BOX CULVERT

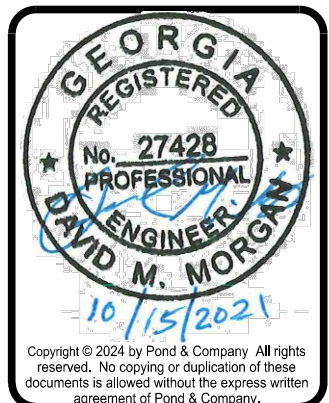
IMPACTED AREAS TABLE	
STREAM (L.F.) (LINEAR FEET)	WETLANDS (ACRES)
45 L.F.	0.073 ACRES

**NOTES**

- IMPACT TO STREAMS MUST BE LESS THAN 100 LINEAR FEET
- IMPACT TO WETLANDS MUST BE LESS THAN 0.1 ACRES
- STREAM BUFFER IMPACTS MUST NOT EXTEND PAST THE EXEMPT 50-FT BY 50-FT SQUARE MEASURED FROM THE END OF EACH CULVERT WINGWALL; OR BY THE EXEMPT 100-FT BY 100-FT SQUARE MEASURED FROM THE BEGINNING AND END OF THE BRIDGE STRUCTURE.



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



DATE	DESCRIPTION	MARK

DESIGNED BY: MIA	DATE: OCTOBER 15, 2021	FAYETTE COUNTY 140 STONEWALL AVE W, SUITE 203, FAYETTEVILLE, GA 30214 <b>POND</b> 3500 Parkway Lane, Suite 500 Fayetteville, GA 30830 Phone: (770) 336-7740 POND PROJECT NO. 119389
DRAWN BY: MDA	CHECKED BY: MDM	
SUBMITTED BY: DM	CONTRACT NO.:	
FILE NAME: CS100	FILE NUMBER:	
SIZE: 22" x 34"	PLOT SCALE:	PLOT DATE:

MARK LANE CULVERT REPLACEMENT FAYETTE COUNTY, GA 30214	ENVIRONMENTAL RESOURCES SITE PLAN
--	--------------------------------------

SHEET IDENTIFICATION CS100
----------------------------------



1. GATE VALVE WITH DEADMAN BLOCKING, APPROXIMATELY 9+71
2. 6" MECHANICAL JOINT 45 DEGREE BEND, APPROXIMATELY 9+77
3. 6" MECHANICAL JOINT 45 DEGREE BEND, APPROXIMATELY 9+88
4. BEGIN 12" STEEL CASING, APPROXIMATELY 9+89
5. END 12" STEEL CASING, APPROXIMATELY 10+06
6. 6" MECHANICAL JOINT 45 DEGREE BEND, APPROXIMATELY 10+07
7. 6" MECHANICAL JOINT 45 DEGREE BEND, APPROXIMATELY 10+18
8. 6" GATE VALVE WITH DEADMAN BLOCKING, APPROXIMATELY 10+23

120 MARK LANE  
N/F PROPERTY OF  
**H T BOYD JR and PAULA A**  
DEED BOOK 1109 / PAGE 701  
LOT 27 ~ PLAT BOOK 18 / PAGE 193

N/F PROPERTY OF  
**ANTHONY A PATTERSON**  
DEED BOOK 1617 / PAGE 332  
LOT 28 ~ PLAT BOOK 18 / PAGE 193

VACANT LOT  
N/F PROPERTY OF  
**LLOYD VAN DYKE and DIANE C**  
DEED BOOK 11446 / PAGE 608  
LOT 18 ~ PLAT BOOK 18 / PAGE 193

LIMIT OF CONSTRUCTION /  
TEMPORARY CONSTRUCTION  
EASEMENT (TYP.)

SEE WATER  
REPLACEMENT  
NOTES IN THIS  
SHEET

MATCH  
EXISTING  
CURB AND  
GUTTER

9+70.12=

MATCH  
EXISTING

115 MARK LANE  
N/F PROPERTY OF  
**LLOYD VAN DYKE**  
DEED BOOK 1446 / PAGE 608  
LOT 17 ~ PLAT BOOK 18 / PAGE 193

**MARK LANE**  
(50' R/W)

STREAM

BRICK  
COLUMN

1. REFER TO SHEETS C-001 AND C-002 FOR LEGENDS, ABBREVIATIONS AND CIVIL NOTES.
2. THIS SHEET IS PART OF A MULTI-SHEET SET OF CONSTRUCTION PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
3. CONTRACTOR TO COORDINATE LANE CLOSURE WITH FAYETTE COUNTY AND ENGINEER, AT LEAST ONE 12-FT LANE AT ALL TIMES.
4. ALL CONCRETE FORMWORK AND REINFORCING BARS TO BE INSPECTED BY ENGINEER'S OR OWNER'S FIELD REPRESENTATIVE IN CONJUNCTION WITH THE CONTRACTOR'S REPRESENTATIVE BEFORE CONCRETE IS PLACED.
5. AS-BUILT DRAWINGS SHALL CONTAIN ALL RELEVANT ELEVATIONS AND INVERTS. (ALL AS-BUILT DRAWING SHOULD BE CERTIFIED BY A GEORGIA REGISTERED LAND SURVEYOR).
6. CONTRACTOR TO ESTABLISH TEMPORARY SUPPORT FOR EXISTING UTILITIES AND MAINTAIN IT THROUGHOUT CONSTRUCTION.
7. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED CURB OR DRIVEWAYS DURING CONSTRUCTION.
8. CONTRACTOR TO BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED ROADWAY/ASPHALT DURING PROJECT CONSTRUCTION, AS WELL AS REPLACEMENT AND RELOCATION OF MAILBOXES.
9. CONTRACTOR TO MILL ENTIRE WIDTH OF ANY PORTION OF THE TOP COURSE ASPHALT DAMAGED DURING CONSTRUCTION AND OVERLAY.
10. IF PRECAST STRUCTURE IS USED IN PLACE OF A CAST-IN-PLACE STRUCTURE, THEN THE PRECAST STRUCTURE TO BE DESIGNED BY VENDOR DURING THE CONSTRUCTION SHOP DRAWING PROCESS. THE STRUCTURE SHOP DRAWINGS TO BE APPROVED BY ENGINEER FOR OWNER.
11. COORDINATE RELOCATION OF EXISTING LONG-SIDE SERVICE FOR 115 MARK LANE WITH FAYETTE COUNTY WATER DEPARTMENT. REPLACEMENT LINE TO BE 1" COPPER. EXTEND ASPHALT REPAIR AS NECESSARY.

Page 10

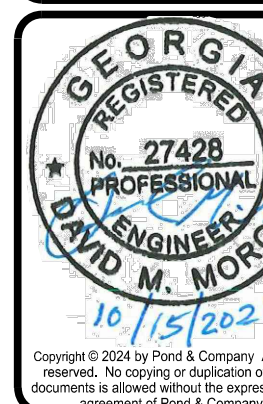
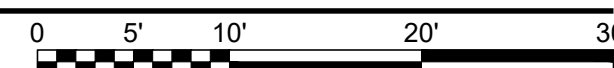
\_\_\_\_\_

— LOD — LOD — LIMITS OF DISTURBANCE AND  
TEMPORARY EASEMENT

**A1 CIVIL SITE PLAN**  
SCALE: 1" = 10'



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

[illegible]

DESIGNED BY:	MIA	DATE:	OCTOBER 15, 2021
DWN BY:	NDA	CKD BY:	MDM
SUBMITTED BY:	DM	CONTRACT NO.:	
FILE NAME:	CS101	FILE NUMBER:	

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

**POND**  
3500 Parkway Lane, Suite 500  
Deertrce Corners GA 30092

**MARK LANE**  
**CULVERT REPLACEMENT**  
FAYETTE COUNTY, GA. 30214

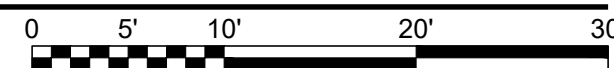
CIVIL SITE PLAN

SHEET  
IDENTIFICATION  
**CS10**

100% DESIGN SUBMITTAL

FILE NAME: X:\FY19\1190369\TO06 - Mark Lane 110 Culvert Replacement\04.CAD BIM\04.02.CAD\CS101.dwg PLOTTED: Monday, April 29, 2024





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

[illegible]

DWN BY:	NDA	CKD BY:	MDM	SOLICITATION NO.:
SUBMITTED BY:		DM		CONTRACT NO.:
FILE NAME:		CG101		
SIZE:	PLOT SCALE:		PLOT DATE:	
22" x 34"				

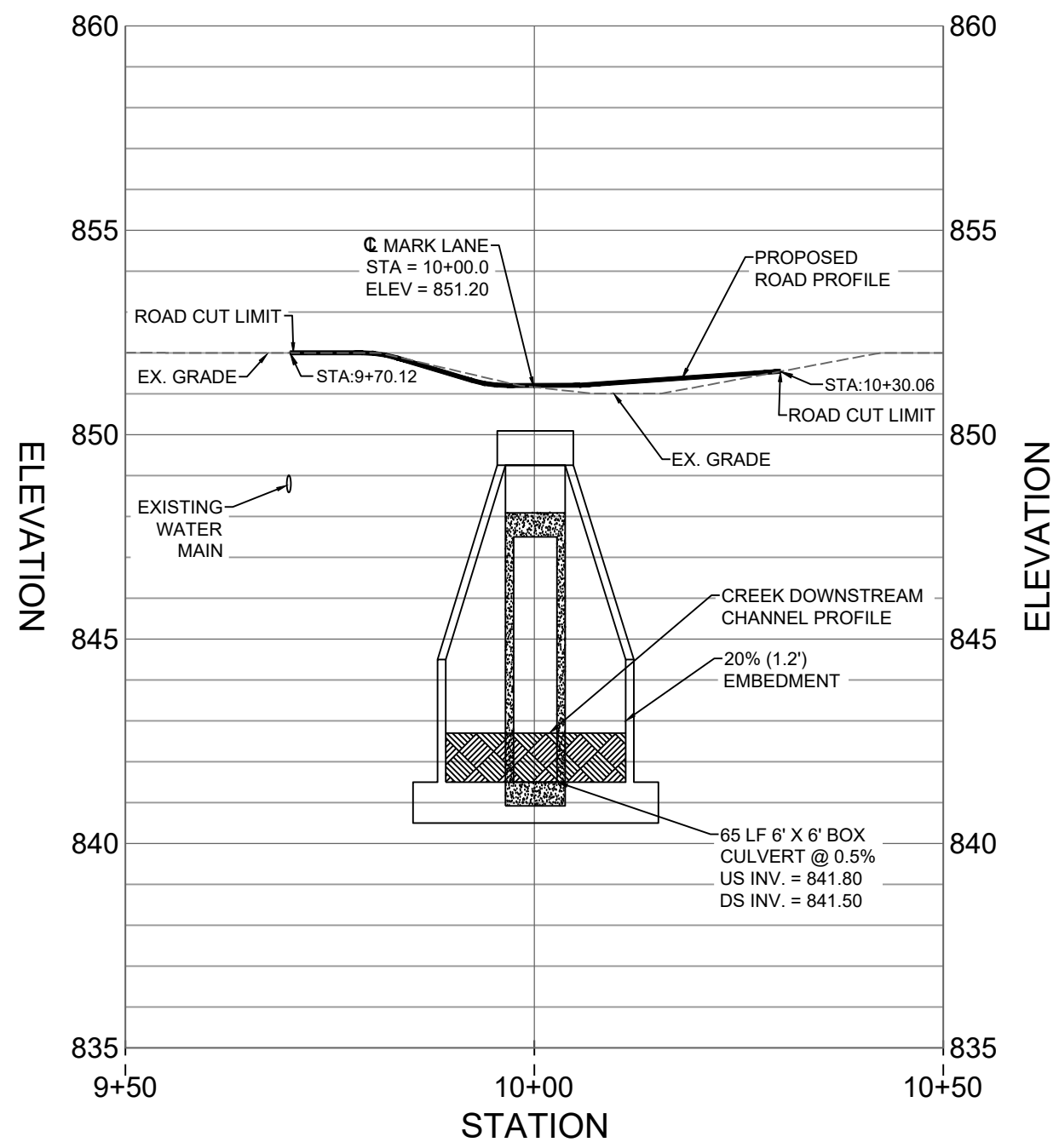
140 STONEWALL AVE W, SUITE 203,  
FAYETTEVILLE, GA. 30214

**CULVERT REPLACEMENT**  
FAYETTE COUNTY, GA. 30214

SHEET  
IDENTIFICATION  
CG101



FILE NAME: X:\FY19\1190369\TO06 - Mark Lane 110 Culvert Replacement\04.CAD\_BIM\04.02.CAD\CG101.dwg PLOTTED: Monday, April 29, 2024

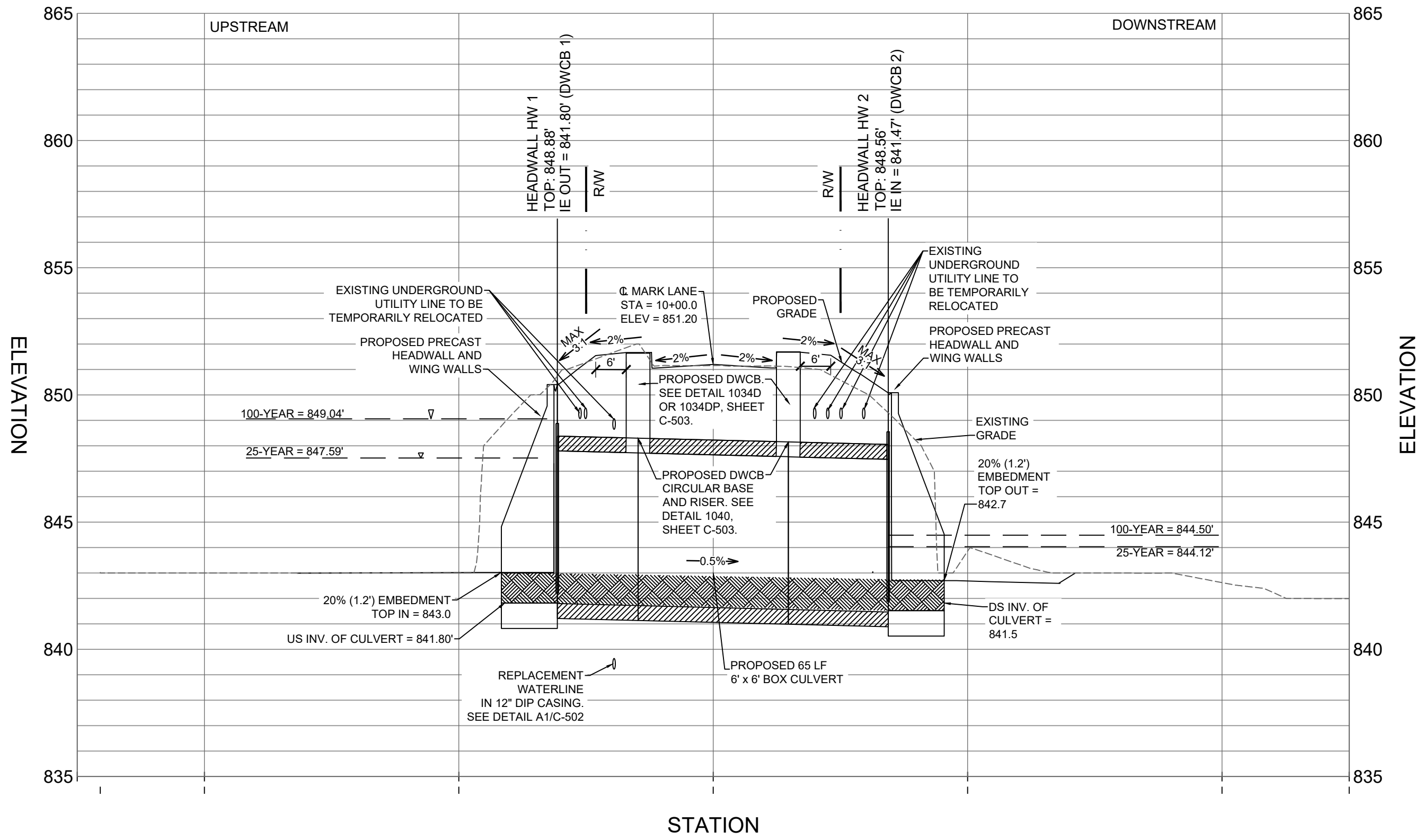


OVERALL PROPOSED CULVERT PROFILE (A-A)

HORIZ. SCALE 1" = 20'

VERT. SCALE 1" = 4'

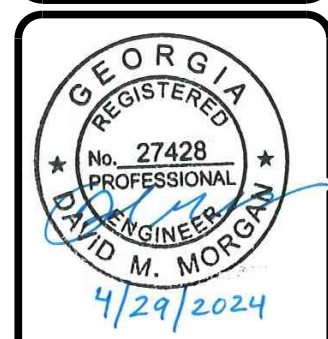
NOTE:  
CONTRACTOR TO MATCH EXISTING GRADE  
AND PROVIDE CROWN PER FAYETTE COUNTY  
ROAD SECTION DETAILS SHEET C3/C-502



PROPOSED MAIN FLOW CULVERT PROFILE (B-B)

HORIZ. SCALE 1" = 20'

VERT. SCALE 1" = 4'



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DATE	DESCRIPTION	MARK	FAYETTE COUNTY COMMENTS	DATE	APPR.
04-29-2024					

DESIGNED BY: MIA	DATE: APRIL 29, 2024	SOLICITATION NO.:
DWN BY: MIA	CRD BY: MIA	CONTRACT NO.:
SUBMITTED BY: DM	FILE NAME: CG201	FILE NUMBER:
SIZE: 22" x 34"	PLOT SCALE:	PLOT DATE:

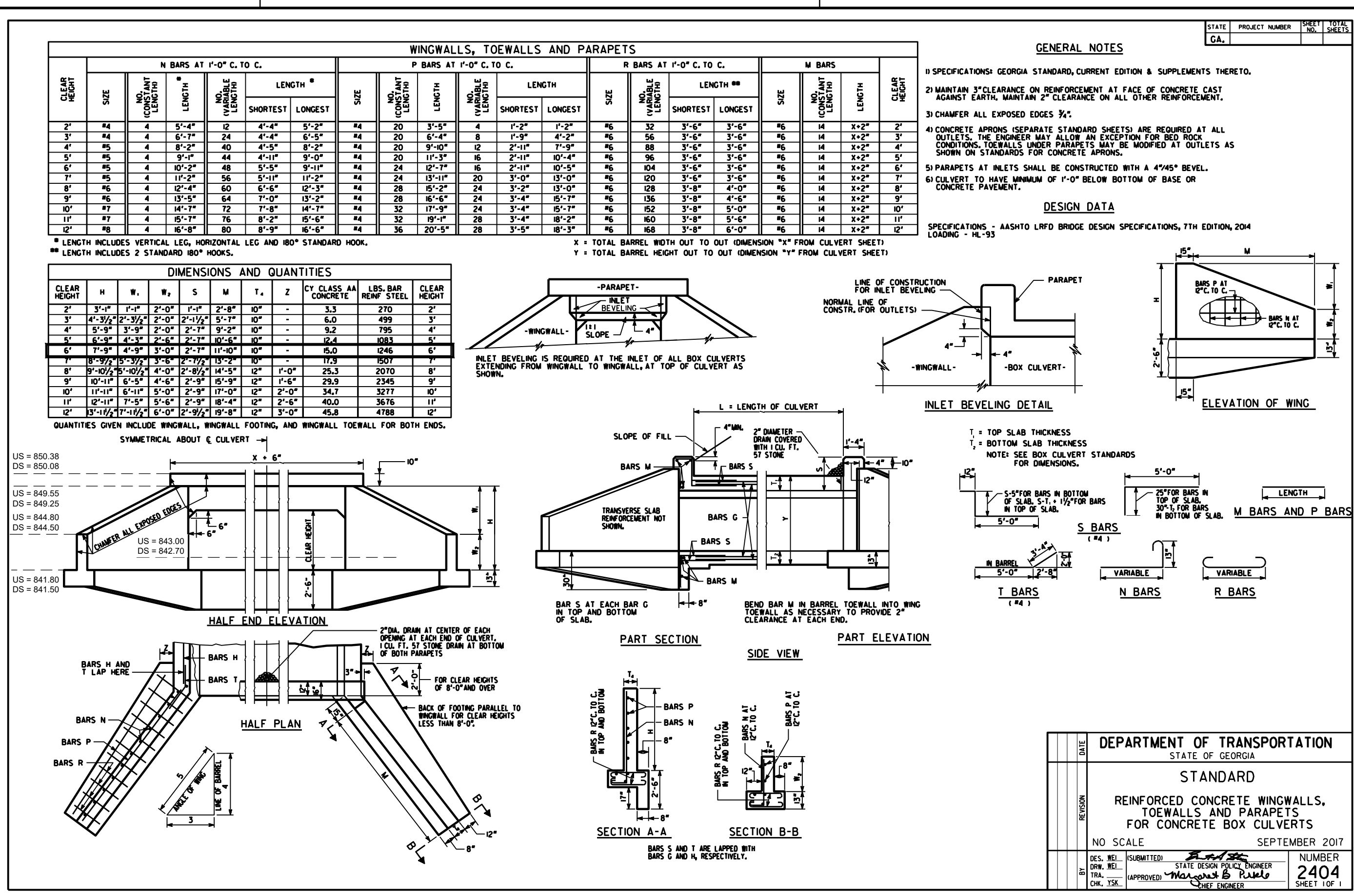
**FAYETTE COUNTY**  
140 STONEWALL AVE W, SUITE 203,  
FAYETTEVILLE, GA 30214

**POND**  
3500 Parkway Lane, Suite 500  
Fayetteville, GA 30830  
Phone: 678.336.7740  
FAX: 678.336.7741  
POND PROJECT NO. 1190369

<b>MARK LANE</b> <b>CULVERT REPLACEMENT</b> FAYETTE COUNTY, GA 30214	<b>GRADING AND DRAINAGE</b> <b>PROFILES</b>
--	--

SHEET IDENTIFICATION <b>CG201</b>
---





NO SCALE

STATE	PROJECT NUMBER	DISTRICT	SHEET
GA.			

DESIGN A 2 FT. MINIMUM COVER					DESIGN B 3 FT. MINIMUM COVER					CULVERT SIZE				
MINIMUM AREA OF CIRCUMFERENTIAL REINFORCING STEEL (SQ. IN. PER LIN. FT.)	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	MINIMUM AREA OF CIRCUMFERENTIAL REINFORCING STEEL (SQ. IN. PER LIN. FT.)	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	MINIMUM AREA OF CIRCUMFERENTIAL REINFORCING STEEL (SQ. IN. PER LIN. FT.)	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>
1	0.17	0.27	0.12	0.16	0.19	0.19	0.12	0.16	0.12	0.19	0.19	0.12	0.16	0.12
2	0.18	0.30	0.12	0.16	0.19	0.19	0.12	0.16	0.12	0.19	0.19	0.12	0.16	0.12
3	0.24	0.35	0.14	0.18	0.25	0.25	0.14	0.18	0.14	0.25	0.25	0.14	0.18	0.14
4	0.27	0.37	0.17	0.21	0.29	0.29	0.17	0.21	0.17	0.29	0.29	0.17	0.21	0.17
5	0.28	0.39	0.14	0.18	0.27	0.27	0.14	0.18	0.14	0.27	0.27	0.14	0.18	0.14
6	0.14	0.25	0.14	0.18	0.19	0.28	0.14	0.18	0.14	0.19	0.28	0.14	0.18	0.14
7	0.20	0.35	0.14	0.18	0.24	0.26	0.14	0.18	0.14	0.24	0.26	0.14	0.18	0.14
8	0.25	0.39	0.17	0.21	0.28	0.28	0.17	0.21	0.17	0.28	0.28	0.17	0.21	0.17
9	0.22	0.33	0.17	0.21	0.25	0.23	0.17	0.21	0.17	0.23	0.23	0.17	0.21	0.17
10	0.27	0.37	0.17	0.21	0.29	0.27	0.17	0.21	0.17	0.29	0.27	0.17	0.21	0.17
11	0.25	0.39	0.17	0.21	0.28	0.26	0.17	0.21	0.17	0.28	0.26	0.17	0.21	0.17
12	0.25	0.41	0.19	0.23	0.31	0.27	0.19	0.23	0.19	0.31	0.27	0.19	0.23	0.19
13	0.31	0.44	0.19	0.23	0.33	0.33	0.19	0.23	0.19	0.33	0.33	0.19	0.23	0.19
14	0.28	0.44	0.19	0.23	0.34	0.33	0.19	0.23	0.19	0.34	0.33	0.19	0.23	0.19
15	0.25	0.41	0.19	0.23	0.33	0.30	0.19	0.23	0.19	0.33	0.30	0.19	0.23	0.19
16	0.43	0.40	0.19	0.23	0.30	0.30	0.19	0.23	0.19	0.30	0.30	0.19	0.23	0.19
17	0.38	0.41	0.19	0.23	0.30	0.33	0.19	0.23	0.19	0.33	0.33	0.19	0.23	0.19
18	0.35	0.40	0.19	0.23	0.27	0.33	0.19	0.23	0.19	0.33	0.33	0.19	0.23	0.19
19	0.33	0.50	0.19	0.23	0.30	0.30	0.19	0.23	0.19	0.30	0.30	0.19	0.23	0.19
20	0.31	0.53	0.19	0.23	0.24	0.31	0.19	0.23	0.19	0.31	0.31	0.19	0.23	0.19
21	0.47	0.43	0.22	0.28	0.38	0.38	0.22	0.28	0.22	0.38	0.38	0.22	0.28	0.22
22	0.43	0.45	0.22	0.28	0.39	0.39	0.22	0.28	0.22	0.39	0.39	0.22	0.28	0.22
23	0.40	0.48	0.22	0.28	0.40	0.40	0.22	0.28	0.22	0.40	0.40	0.22	0.28	0.22
24	0.37	0.52	0.22	0.28	0.36	0.41	0.22	0.28	0.22	0.36	0.41	0.22	0.28	0.22
25	0.36	0.40	0.22	0.28	0.36	0.47	0.22	0.28	0.22	0.36	0.47	0.22	0.28	0.22
26	0.35	0.37	0.22	0.28	0.27	0.49	0.22	0.28	0.22	0.27	0.49	0.22	0.28	0.22
27	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
28	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
29	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
30	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
31	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
32	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
33	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
34	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
35	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
36	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
37	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
38	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
39	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
40	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
41	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
42	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
43	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
44	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
45	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
46	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
47	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
48	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
49	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
50	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
51	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
52	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
53	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
54	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
55	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
56	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
57	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
58	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
59	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
60	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
61	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
62	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
63	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
64	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
65	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
66	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
67	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
68	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
69	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
70	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
71	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
72	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
73	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
74	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
75	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
76	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
77	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
78	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
79	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
80	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
81	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
82	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
83	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
84	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
85	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
86	0.35	0.37	0.24	0.30	0.30	0.50	0.24	0.30	0.24	0.30	0.50	0.24	0.30	0.24
87	0.													

NO SCALE

[illegible]



FILE NAME: X:\FY19\150369\T006 - Mark Lane 110 Culvert Replacement\T004.CAD\_BIM\04.02.CAD\C-501.dwg PLOTTED: Monday, April 29, 2024

D

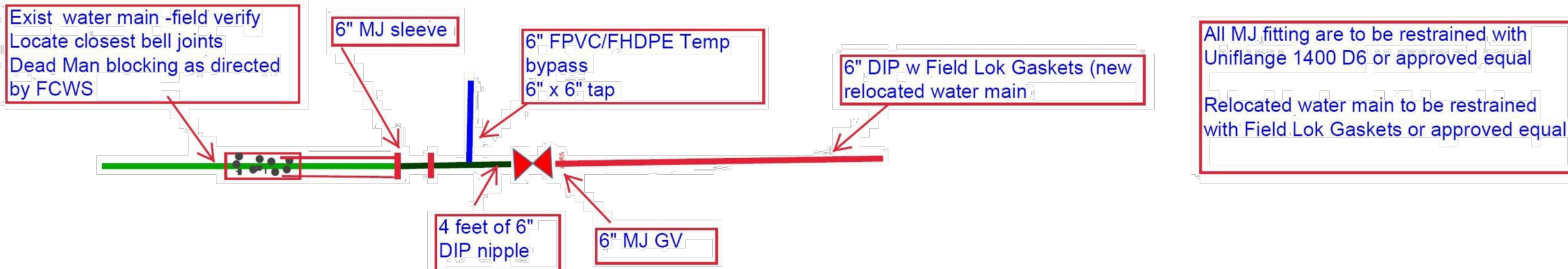
C

B

A

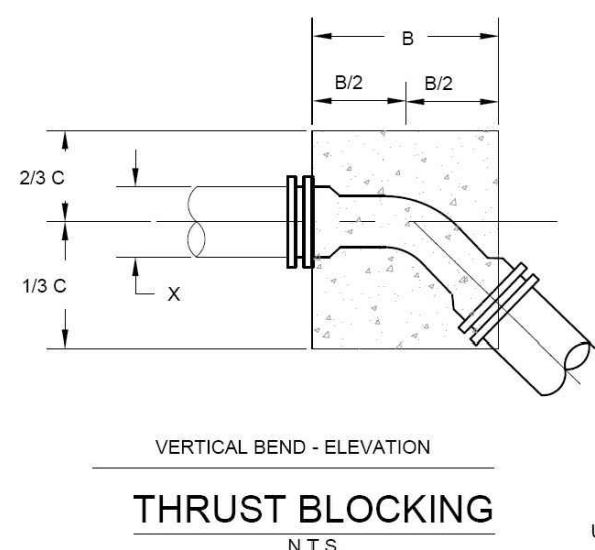
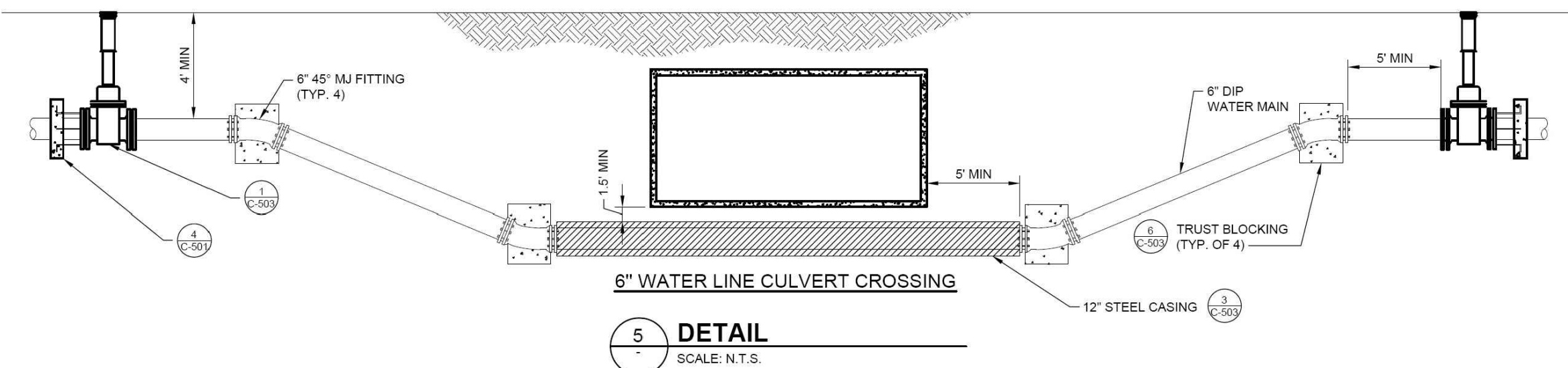
(Typical each side)

- Field verify size, type and class of existing water main
- Connect to existing water main w/ 6" long pattern MJ solid sleeve
- Install 4" DIP nipple from 6" MJ solid sleeve
- Install 6" x 6" MJ Tee
- Install 6" MJ Gate valve and dead man blocking



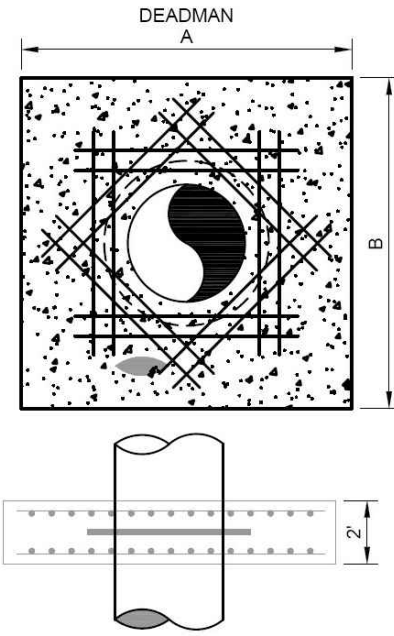
All MJ fitting are to be restrained with Uniflange 1400 D6 or approved equal

Relocated water main to be restrained with Field Lok Gaskets or approved equal



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

- NOTES:
1. DEADMAN SHALL BE CLASS "C" CONCRETE. "SACKCRETE" WILL NOT BE ALLOWED.
  2. THE UTILITY LINE MUST BE LOWERED IN ORDER TO HAVE FOUR FEET (4') OF COVER AT THE BEND, TEE, REDUCER, OR PLUG AT ALL LOCATIONS WHERE THESE FITTINGS MAY BE UTILIZED.
  3. FOR SOIL CONDITIONS LESS THAN 2000 P.S.F. BEARING PRESSURE OR PIPE PRESSURE OVER 150 P.S.I. SPECIAL THRUST BLOCKS/RESTRAINT MUST BE COMPUTED AND APPROVED.
  4. CONCRETE SHALL BE POURED AGAINST UNDISTURBED SOIL. DISTURBED SOIL TO BE COMPACTED TO 95% OPTIMUM MOISTURE CONTENT.
  5. MAINTAIN 2" CLEARANCE BETWEEN PIPE WALL AND REBAR.



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

## A1 FAYETTE COUNTY WATER LINE CULVERT CROSSING DETAILS

SCALE: N.T.S.

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

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

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

RIGHT-OF-WAY 4' 2' 6' E F F E 2' 11' RIGHT-OF-WAY

12" FOR ARTERIAL COLLECTOR ROADS

CONCRETE CURB & GUTTER 6" x 24" x 12" (NO ROLLED BACK ALLOWED)

LIMIT FOR GAB ON LOCAL ROADS

(TO BE USED FOR PROJECT)

TYPICAL HALF ROADWAY SECTION W/ DITCHES

TYPICAL HALF ROADWAY SECTION W/ CURB AND GUTTER

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

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

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

## C3 FAYETTE COUNTY TYPICAL ROAD CROSS SECTION & PAVEMENT

SCALE: N.T.S.

FINISHED GRADE

RESTRAINED JOINTS. SEE RESTRAINED JOINT SCHEDULE

MINIMUM DISTANCE (SEE TABLE BELOW)

UTILITY TYPE (SEE TABLE BELOW)

SEE UTILITY SEPARATION REQUIREMENTS ON DETAILS 1 AND 2, SHEET C-504

UTILITY TYPE: SANITARY SEWER OR FORCE MAIN, OTHER THAN SEWER

MINIMUM DISTANCE: 10'-0" MIN, 1'-0" MIN

NOTE: 18" MIN SEPARATION FOR STORM DRAIN CROSSINGS

RESTRAINED JOINT UTILITY CROSSING FOR UTILITIES OTHER THAN SEWER MAINS

RESTRAINED LENGTH EACH SIDE OF RESTRAINED FITTING (FEET)											
DIP						PVC					
PIPE DIA (INCHES)	90°	45°	22-1/2°	11-1/4°	90°	45°	22-1/2°	11-1/4°	3	4	6
4	35	15	10	5	55	25	15	10	40	-	-
6	55	25	10	5	80	35	20	10	50	45	-
8	65	30	15	10	90	40	20	10	75	70	40
10	80	35	20	10	110	50	25	15	95	90	70
12	95	40	20	10	130	55	30	15	120	115	100
16	120	50	25	15	165	70	35	20	160	155	140
20	150	65	30	15	200	85	40	20	200	195	185
24	180	70	35	20	210	90	45	25	160	155	150
30	190	80	40	20	250	105	50	25	195	190	185
36	220	95	45	25	-	-	-	-	225	220	215
42	245	105	50	25	-	-	-	-	245	240	235
48	260	120	60	30	-	-	-	-	255	250	245

RESTRAINED LENGTHS FOR DEAD ENDS, BRANCHES AND HOPE TO PVC TRANSITIONS SHALL BE THE SAME AS FOR 90° BENDS. IN-LINE VALVES SHALL BE RESTRAINED 20' EACH SIDE OF THE VALVE. (IF A JOINT FALLS AT THE MAXIMUM DISTANCE, IT SHALL BE RESTRAINED). TABLE BASED ON IRON FITTINGS. TEST PRESSURE 150 PSI.

LENGTH OF RESTRAINED JOINT FOR LARGER DIAMETER PIPE

RESTRAINED JOINT SCHEDULE

PIPE SIZE X	A	B
6"	2'-0"	2'-0"
8"	2'-6"	2'-6"
10"	3'-6"	3'-6"
12"	4'-0"	4'-0"
14"	4'-6"	4'-6"
16"	5'-0"	5'-0"
18"	6'-0"	6'-0"
20"	6'-6"	6'-6"
24"	7'-6"	7'-6"

4 DETAIL SCALE: N.T.S.

FINISHED GRADE

CASING END SEAL

(SEE NOTE 4)

36" MIN COVER

6" DIP

6" MIN

12" STEEL CASING PIPE

CASING AND CASING SPACERS SPACING PER DETAIL AND SPECIFICATIONS

RESTRAINED JOINTS (MEGALUGS)

CASCADE WATERWORKS MFG. STEEL SPACERS

6" DIP

30" 00" 30" 00"

(VARIES BY CASING SIZE)

NOTES:

1. WHEN CONSTRUCTION IS WITHIN FAA OR FDOT JURISDICTION, ADDITIONAL REQUIREMENTS OF THE UTILITY ACCOMMODATION GUIDE SHALL BE MET.
2. DISTANCE BETWEEN SPACERS TO BE PER PROJECT SPECIFICATIONS.
3. NO FLOWABLE FILL BETWEEN THE ANNULAR SPACE OF THE CASING OR CARRIER PIPE.
4. SHALL BE A MINIMUM OF 8' OR MEET FAYETTE COUNTY SPECIFICATIONS REQUIREMENTS, WHICHEVER IS GREATER.

3 DETAIL SCALE: N.T.S.

FAYETTE COUNTY, GEORGIA

REGISTERED PROFESSIONAL ENGINEER

NO. 27428

DAVID M. MORGAN

10/15/2021

DESIGNED BY: MIA

DRAWN BY: CRO BY: MDA

SUBMITTED BY: DM

FILE NAME: C-502

SIZE: 22" x 34"

DATE: OCTOBER 15, 2021

SOLICITATION NO.:

CONTRACT NO.:

FILE NUMBER:

PLOT DATE:

FAYETTE COUNTY

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

POND

3500 Parkway Lane, Suite 500 Fayetteville, GA 30214 Phone (770) 336-7740 Fax (770) 336-7741

MARK LANE CULVERT REPLACEMENT FAYETTE COUNTY, GA 30214

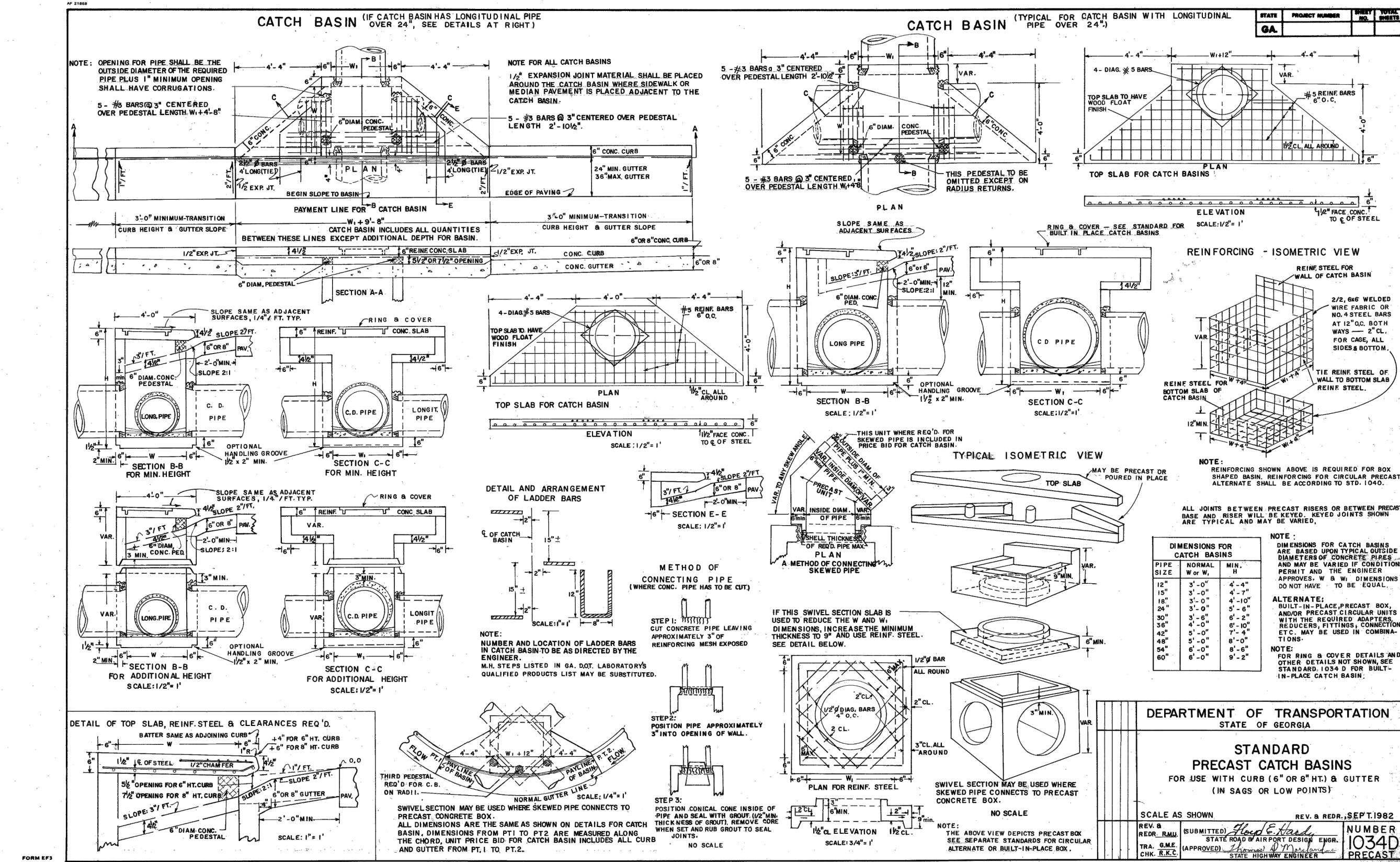
CONSTRUCTION DETAILS

SHEET IDENTIFICATION C-502



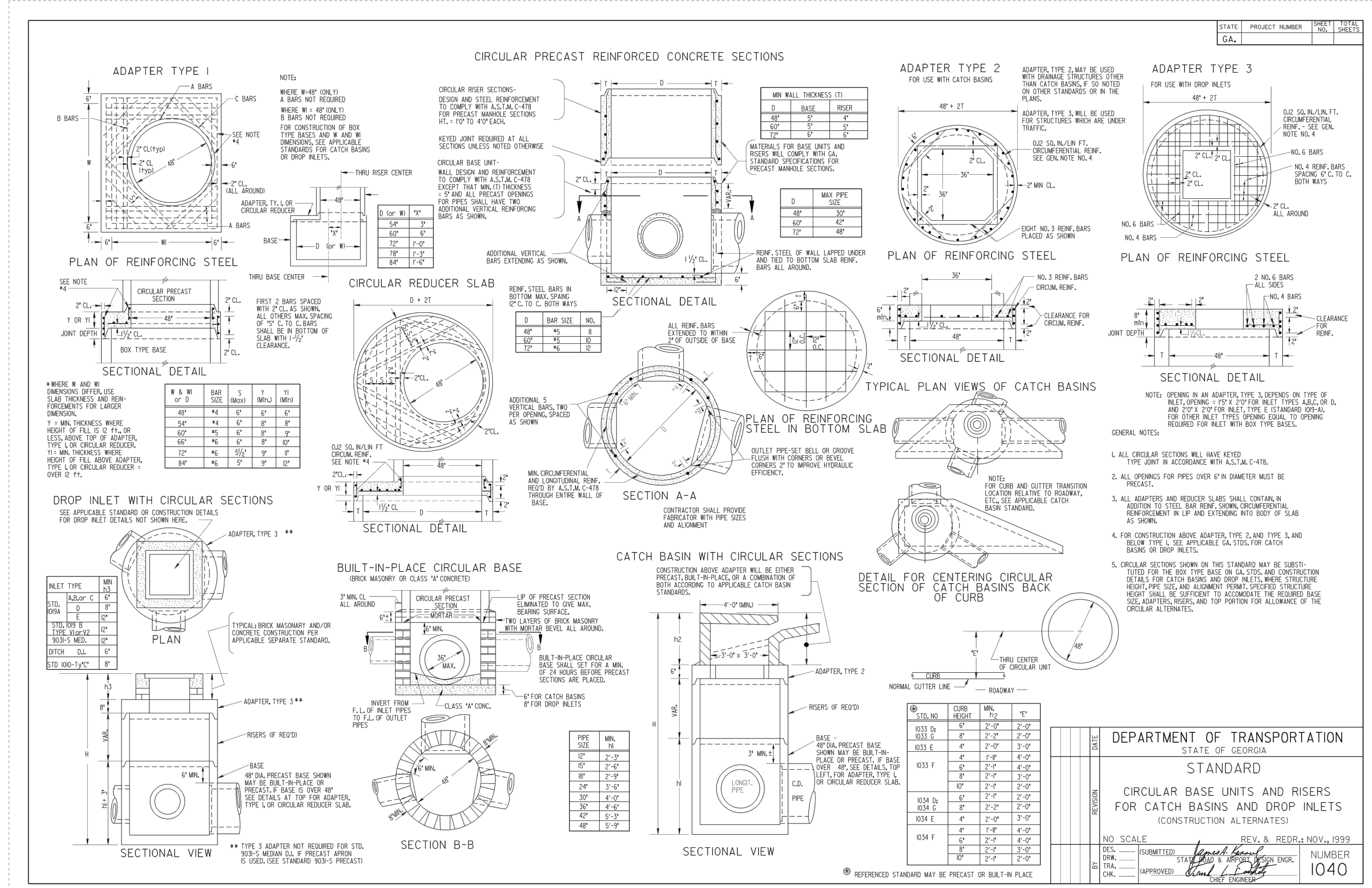
D

C



B

A

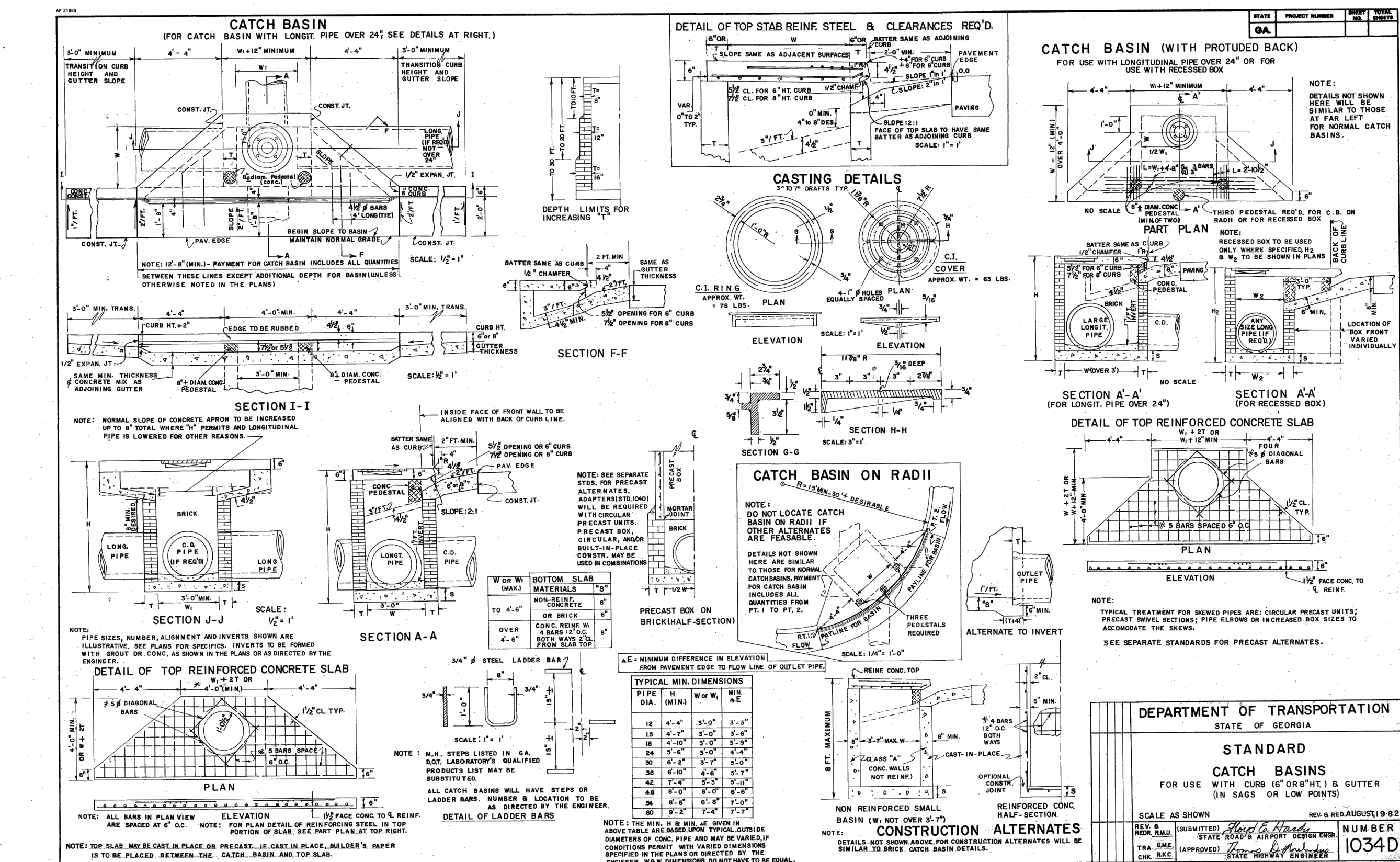


1

3

4

5



100% DESIGN SUBMITTAL

SHEET IDENTIFICATION

C-503

MARK LANE

CULVERT REPLACEMENT

FAYETTE COUNTY, GA 30214

DESIGNED BY: MIA

DRAWN BY: MIA

SUBMITTED BY: DM

FILE NAME: C-503

SIZE: 22" x 34"

DATE: APRIL 29, 2024

OWNED BY: MIA

CONTRACT NO.: 140 STONEWALL AVE W SUITE 203, FAYETTEVILLE, GA 30214

FILE NUMBER: C-503

PLOT SCALE: 1" = 20'

CONSTRUCTION DETAILS

100% DESIGN SUBMITTAL

100% DESIGN SUBMITTAL

SHEET IDENTIFICATION

C-503

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CULVERT REPLACEMENT

FAYETTE COUNTY, GA 30214

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FILE NUMBER: C-503

PLOT SCALE: 1" = 20'

CONSTRUCTION DETAILS

100% DESIGN SUBMITTAL



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.

DAVID MORGAN, P.E.  
GSWCC LEVEL II CERTIFICATION # 0000011643  
EXPIRES: 02/26/2022

OCTOBER 15, 2021  
DATE

OWNER/ PRIMARY PERMITEE:	FAYETTE COUNTY ENVIRONMENTAL MANAGEMENT PHIL MALLON 140 STONEWALL AVE. W., SUITE 203, FAYETTEVILLE, GA. 30214 PHONE (770) 313-9855 PUBLICWORKS@FAYETTECOUNTYGA.GOV
--------------------------------	---

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

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

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

TOTAL SITE AREA: 0.27 ACRES  
DISTURBED AREA: 0.27 ACRES

EXISTING LAND USE: THE EXISTING LAND USE CONSISTS OF TWO LANE PAVED ROAD WITH 60" DIAMETER PLATED CMP CULVERT .

PROPOSED LAND USE: THE PROJECT CONSISTS OF THE REMOVAL OF TOTAL 100 LF OF THE EXISTING DETERIORATED 60-INCH PLATED CORRUGATED METAL PIPE CULVERT SPANNING UNDER MARK LANE AND REPLACING WITH TOTAL 65LF OF 6 FT X 6 FT REINFORCED CONCRETE BOX CULVERT.

NAME OF RECEIVING WATERS: MORNING CREEK  
AREA OF ON-SITE WETLANDS: 0 AC

Ds1	TEMPORARY MULCHING - DETAIL A4/CE-501
Ds2	TEMPORARY SEEDING - DETAIL A1/CE-502
Ds3	PERMANENT SEEDING - DETAIL A1/CE-503
Ds4	DISTURBED AREA STABILIZATION W/ SOODING - DETAIL A3/CE-502
Ss	SLOPE STABILIZATION DETAIL A1/CE-504

Sd1-S — XX — SILT FENCING -  
28" DETAIL C1/CE-501

Du DUST CONTROL - DETAIL  
A1/CE-501

 FILTER SOCK  
-DETAIL C4/CE-502

Tr TREE PROTECTION FENCE -  
DETAIL C1/CE-504

St  
15

STORM DRAIN OUTLET  
PROTECTION

**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.**

[illegible]

33 304 097N  
94 27 52 507W

13113 C0039 E  
eff. 9/26/2008

FAYETTE COUNTY  
130432

AREA OF MINIMAL FLOOD HAZARD  
Zone X

13113 C0102 E  
eff. 9/26/2008

SITE

0 250 500 1,000 1,500 2,000 Feet

1:6,000

33 29 54 09 N  
94 28 02 78 W

SEGIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

**SPECIAL FLOOD HAZARD AREAS**

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

**OTHER AREAS OF FLOOD HAZARD**

- Area of Minimal Flood Hazard Zone X
- Effective LOMs
- Area of Undetermined Flood Hazard Zone D

**OTHER AREAS**

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

**GENERAL STRUCTURES**

- Cross Sections with 1% Annual Chance
- Water Surface Elevation
- Coastal Transient
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transient Baseline
- Profile Baseline
- Hydrographic Feature

**OTHER FEATURES**

- Digital Data Available
- No Digital Data Available
- Unmapped

**MAP PANELS**

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

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

The flood hazard information is derived directly from the authoritative NFPA, with services provided by FEMA. This map was exported on 3/23/2019 at 10:01:58 AM and does not reflect changes or amendments subsequent to this date and time. The NFPA and effective information may change or become superseded by new data over time.

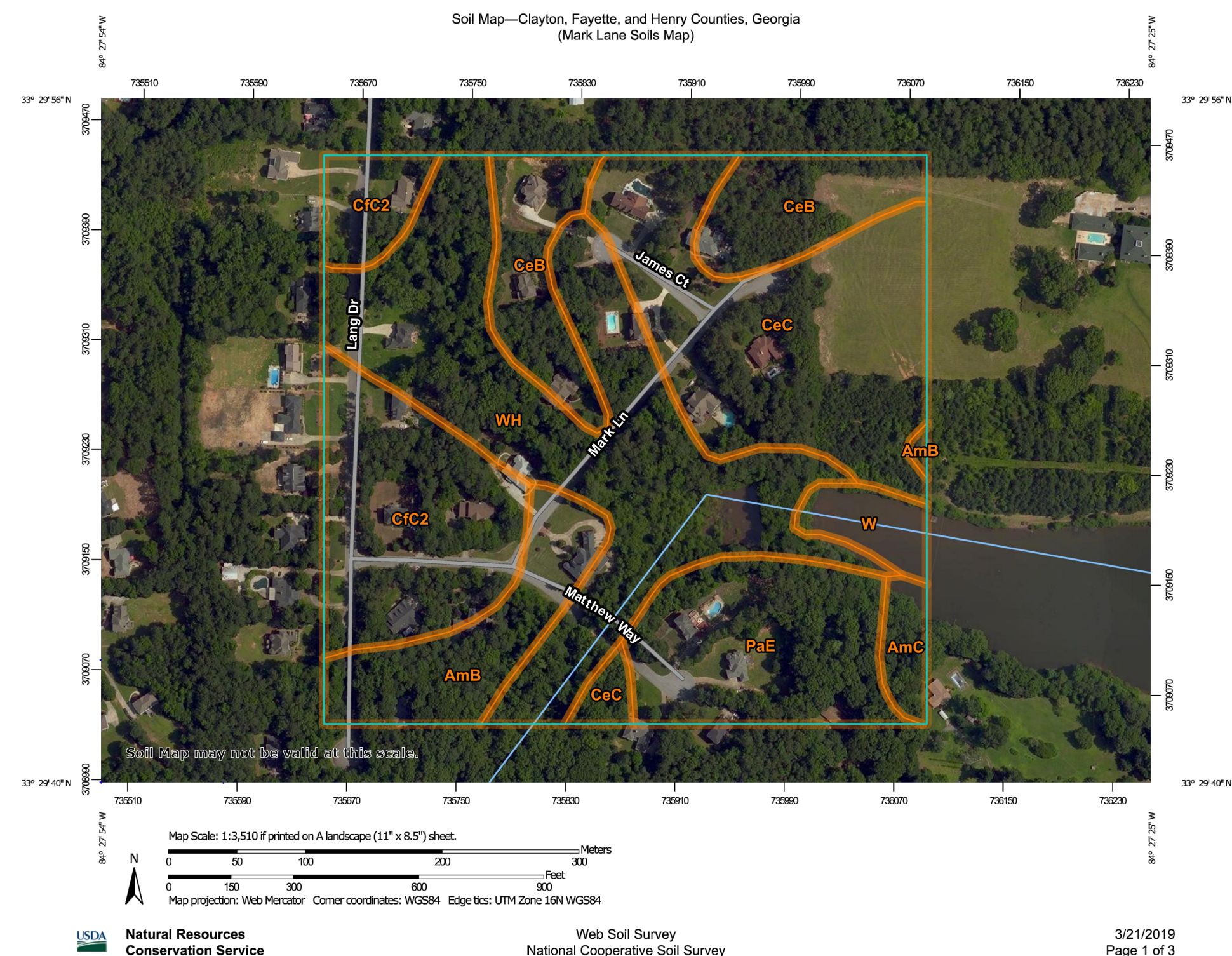
This map image is void if the base or one of the following map elements do not appear: basement map image, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and undetermined areas cannot be used for regulatory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

PLAN  
NORTH



FEMA FLOOD MAP - 1311C0102E  
SCALE: NTS DATED 09/26/2008

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



SYMBOL	DESCRIPTION
AmB	Appling sandy loam, 2 to 6 percent slopes
CeB	Cecil sandy loam, 2 to 6 percent slopes
CeC	Cecil sandy loam, 6 to 10 percent slopes
CiC2	Cecil sandy clay loam, 6 to 10 percent slopes, eroded
WH	Wehadkee soils, 0 to 2 percent slopes, frequently flooded

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



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[illegible]

<b>FAYETTE COUNTY</b> 140 STONEWALL AVE W, SUITE 203, FAYETTEVILLE, GA. 30214		RECEIVED BY: MIA OCTOBER 15, 2021
DWN BY: NDA	GIG BY: MDM	SOLICITATION NO.:
SUBMITTED BY:	DMI	CONTRACT NO.:
FILE NAME:	CEO01	FILE NUMBER:
SIZE:	PLOT SCALE:	PLOT DATE:

**MARK LANE  
CULVERT REPLACEMENT  
FAYETTE COUNTY, GA. 30214**

---

SHEET  
IDENTIFICATION  
**CE001**



FILE NAME: X:\FY19\1190369\T06 - Mark Lane 110 Culvert Replacement\04 CAD\_BIM\04.02 CAD\CE001.dwg PLOTTED: Monday, April 29, 2024

1

2

3

4

5

STRUCTURAL PRACTICES:

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

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

CRITICAL WORK ZONE:

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

CONSTRUCTION PERIOD STORM WATER POLLUTANT CONTROL:

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

STABILIZATION MEASURES:

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

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

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

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

KEEPING PLANS CURRENT:

THE PRIMARY, SECONDARY OR TERTIARY PERMITTEES, AS APPLICABLE, SHALL AMEND THEIR PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION , OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON 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.

PROPER OPERATION AND MAINTENANCE:

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

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

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

NON-STORM WATER DISCHARGES:

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

WASTE MATERIALS AND DISPOSAL:

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

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

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

HAZARDOUS WASTES:

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

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

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

SANITARY WASTES:

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

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

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

OFFSITE VEHICLE TRACKING / DUST CONTROL:

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

INVENTORY FOR POLLUTION PREVENTION PLAN

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

SPILL PREVENTION

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

GOOD HOUSEKEEPING

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

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

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

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

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

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN GENERAL NOTES

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

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAINMENT. DISCHARGE OF OILS, FUELS AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

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

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

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

SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN:

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

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

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

ALL SPILLS WILL BE CLEANED IMMEDIATELY UPON DISCOVERY. ALL SPILLS SHALL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.

THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORM WATER DISCHARGE(S) FROM A SITE SHALL BE PREVENTED.

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. SEC. 12-14-2, ET SEQ.), 40 CFR 117, OR 40 CFR 302 OCCURS DURING A 24-HOUR PERIOD, THE PERMITTEE IS REQUIRED TO NOTIFY EPD AT (404) 656-4863 OR (800) 241-4113 AND THE NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802 IN ACCORDANCE WITH THE REQUIREMENTS OF GEORGIA'S OIL OR HAZARDOUS MATERIAL SPILLS OR RELEASES ACT (O.C.G.A. SEC. 12-14-2, ET SEQ.), 40 CFR 117, AND 40 CFR 302 AS SOON AS HE HAS KNOWLEDGE OF THE DISCHARGE.

FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER) OR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL RESPONSE CENTER (NRC) SHALL BE CONTACTED WITHIN 24 HOURS AT (800) 424-8802.

FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD SHALL BE CONTACTED WITHIN 24 HOURS AT (404) 656-4863 OR (800) 241-4113.

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

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

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY A LICENSED PROFESSIONAL.

DESIGN PROFESSIONAL:

DAVID MORGAN, P.E.

LEVEL II CERTIFICATION

No.: 0000011643

EXPIRES : 06/03/2024

811

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MARK LANE  
CULVERT REPLACEMENT  
FAYETTE COUNTY, GA 30214

EROSION AND SEDIMENT  
CONTROL NOTES

SHEET  
IDENTIFICATION  
CE002

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

DESIGNED BY: MIA

DATE: OCTOBER 15, 2021

DWN BY: MDN

SOLUTION NO.:

SUBMITTED BY: DM

CONTRACT NO.:

FILE NAME: CE002

FILE NUMBER:

SIZE: 12" x 34"

PLOT SCALE:

PLOT DATE:

CE002

140 STONEWALL AVE W, SUITE 203,  
FAYETTEVILLE, GA 30214  
Phone (678) 335-7740  
Fax (678) 335-7740  
POND DESIGN NO. 118890

REGISTERED  
PROFESSIONAL  
ENGINEER  
No. 27428  
DAVID M. MORGAN  
10/15/2021

FAYETTE COUNTY  
GEORGIA

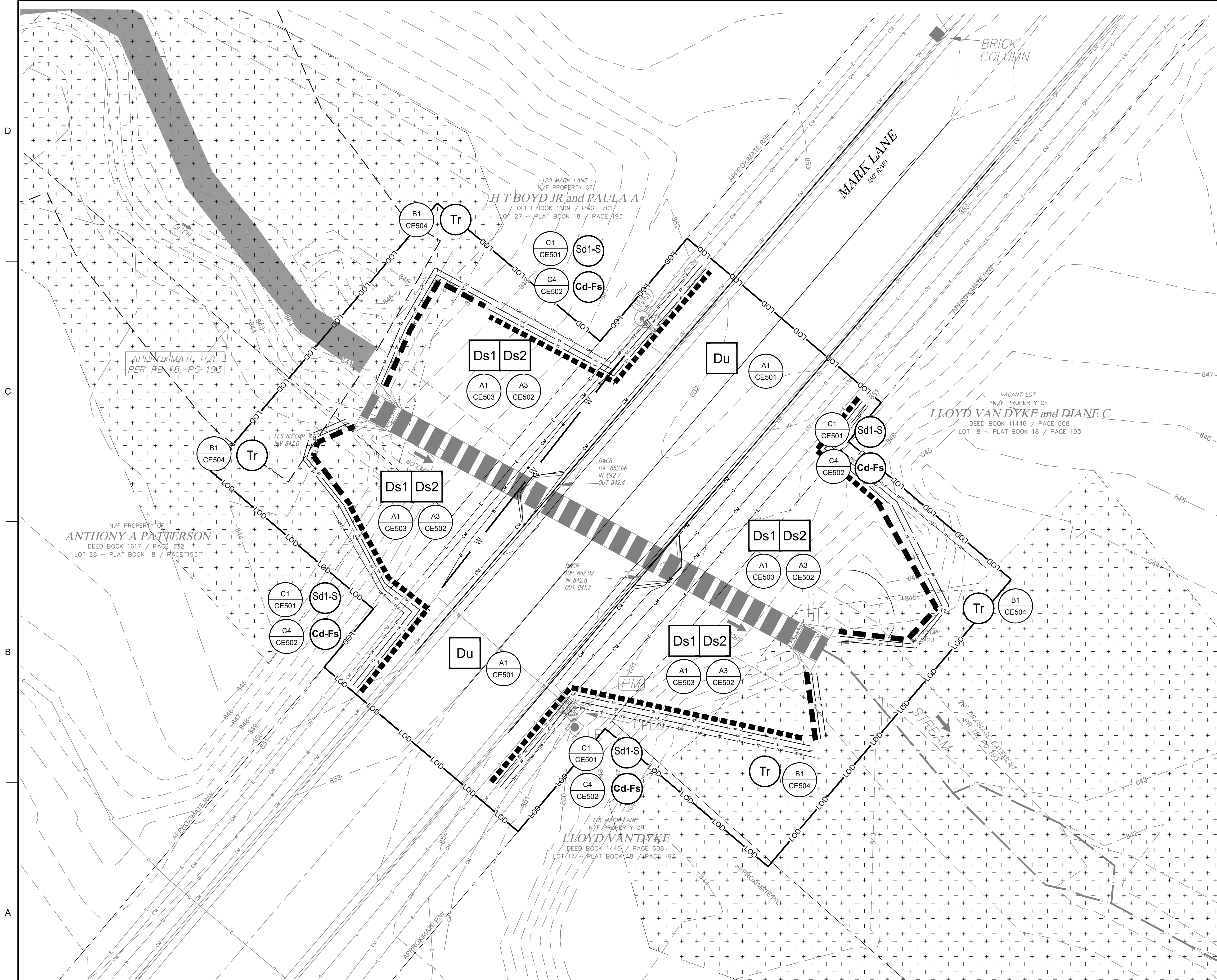
100% DESIGN SUBMITTAL







FILE NAME: X:\FY19\1190369\T006 - Mark Lane 110 Culvert Replacement\04.CAD\_BIM\04.02.CAD\CE101.dwg PLOTTED: Monday, April 29, 2024



#### GENERAL SHEET NOTES

- REFER TO SHEET CE001 FOR GENERAL CIVIL NOTES, LEGENDS, AND ABBREVIATIONS.
- THIS SHEET IS PART OF A MULTI-SHEET SET OF EROSION CONTROL PLANS AND SHALL BE READ WITH THE FULL SET TO BEST ENSURE PROPER INTERPRETATION.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- ANY DISTURBED AREA LEFT IDLE FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH PERMANENT SEEDING.
- CONTRACTOR TO PROVIDE A SEDIMENT WASH DOWN BMP AT PROJECT EXIT, AND TO BE MAINTAINED AT ALL TIMES. CONTRACTOR MAY USE A CONSTRUCTION ENTRANCE IF APPLICABLE.
- CONSTRUCTION ENTRANCE TO BE DETERMINED BY COUNTY AND CONTRACTOR PRIOR TO CONSTRUCTION.
- SLOPES 3:1 OR GREATER. SLOPE STABILIZATION IS REQUIRED AT ALL PHASES OF CONSTRUCTION.
- BMP INSTALLATION AND APPLICATION TO BE ADJUSTED BASED ON SITE CONDITIONS AND CONSTRUCTION PHASING.

#### SHEET LEGEND

- |     |                              |
|-----|------------------------------|
| SF  | SILT FENCE                   |
| LOD | LIMITS OF DISTURBANCE        |
| TPF | TREE PROTECTION FENCING(TYP) |
| --- | PROPERTY LINE                |

#### SUMMARY OF AREAS

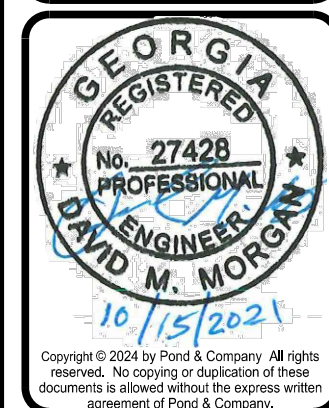
TOTAL SITE AREA: 0.27 ACRES  
ONSITE DISTURBED AREA: 0.27 ACRES

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

24 HR. EROSION CONTROL CONTACT  
PHIL MALLON  
(770) 313-9855



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MARK	DESCRIPTION	DATE	APPR.

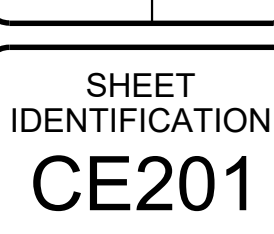
DESIGNED BY: MIA	DATE: OCTOBER 15, 2021
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FILE NAME: CE101	FILE NUMBER:
SIZE: 22" x 34"	PLOT SCALE:
	PLOT DATE:

**FAYETTE COUNTY**  
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FAYETTEVILLE, GA 30214  
**POND**  
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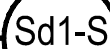
**MARK LANE**  
**CULVERT REPLACEMENT**  
FAYETTE COUNTY, GA 30214  
**EROSION AND SEDIMENT**  
**CONTROL PLAN - INITIAL PHASE**

SHEET  
IDENTIFICATION  
**CE101**









## Du









FILE NAME: X:\FY19\190369\T06 - Mark Lane 110 Culvert Replacement\04 CAD\_BIM\04.02 CAD\CE501.dwg PLOTTED: Monday, April 29, 2024

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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 FINAL STABILIZATION.

INSTRUCTIONS

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

1. USE CONVENTIONAL PLANTING METHODS WHERE POSSIBLE.
2. WHEN MIXED PLANTINGS ARE DONE DURING MARGINAL PLANTING PERIODS, COMPANION CROPS SHALL BE USED.
3. NO-TILL PLANTING IS EFFECTIVE WHEN PLANTING IS DONE FOLLOWING A SUMMER OR WINTER ANNUAL COVER CROP.
4. 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).
5. IRRIGATION SHOULD BE USED WHEN THE SOIL IS DRY OR WHEN SUMMER PLANTINGS ARE DONE.
6. LOW MAINTENANCE PLANTS, AS WELL AS NATIVES, SHOULD BE USED TO ENSURE LONG LASTING EROSION CONTROL.
7. MOWING 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 SLOPE 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. 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.

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

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 80% 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 80% 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 ANY 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. LOVEGRASS 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 ARE OBTAINED ON SEEDING PLANTS 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:  $\frac{10 \text{ LBS. OF PLS}}{.56} \div \text{ACRE} = 17.9 \text{ LBS} \div \text{ACRE}$

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:

BROADCAST PLANTINGS:

1. TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 IN. 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.
2. TILLAGE MAY BE DONE WITH ANY SUITABLE EQUIPMENT.
3. TILLAGE SHOULD BE DONE ON THE CONTOUR, WHERE FEASIBLE.
4. 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 8 TO 8 IN. APART IN WHICH SEED MAY LODGE AND GERMINATE. HYDRAULIC SEEDING MAY ALSO BE USED.

INDIVIDUAL PLANTS

1. WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DIBBLE PLANTING.
2. FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CROWDING.
3. 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 PATES 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.

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 MULCH OF IT IN AN ERECT POSITION. MULCH SHALL NOT BE PLOWED INTO THE SOIL. 3. SYNTHETIC TACKIFIERS OR BINDERS APPROVED BY 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 STRAW	4" TO 6"
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 8 YEARS OR AS INDICATED BY SOIL TESTS. SOIL TESTS CAN BE CONDUCTED TO DETERMINE MORE ACCURATE REQUIREMENTS IF DESIRED.

			ANALYSIS OR EQUIVALENT N-P-K		N TOP DRESSING RATE
1.	COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	50-100 LBS./AC. 1/ 2/ 30
2.	COOL SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	0-50 LBS./AC. 1/ -- --
3.	GROUND COVERS	FIRST SECOND MAINTENANCE	10-10-10 10-10-10 10-10-10	1300 LBS./AC. 3/ 1300 LBS./AC. 3/ 1100 LBS./AC.	-- -- --
4.	PINE SEEDLINGS	FIRST	20-10-5	ONE 21-GRAM PELLET PER SEEDLING PLACED IN THE CLOSING HOLE	--
5.	SHRUB LESPEDEZA	FIRST MAINTENANCE	0-10-10 0-10-10	700 LBS./AC. 700 LBS./AC. 4/	--
6.	TEMPORARY COVER CROPS SEEDED ALONE	FIRST	10-10-10	500 LBS./AC.	30 LBS./AC. 5/
7.	WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 6-12-12 10-10-10	1500 LBS./AC. 800 LBS./AC. 400 LBS./AC.	50-100 LBS./AC. 2/ 6/ 50-100 LBS./AC. 2/ 30 LBS./AC.
8.	WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 0-10-10 0-10-10	1500 LBS./AC. 1000 LBS./AC. 400 LBS./AC.	50 LBS./AC. 6/

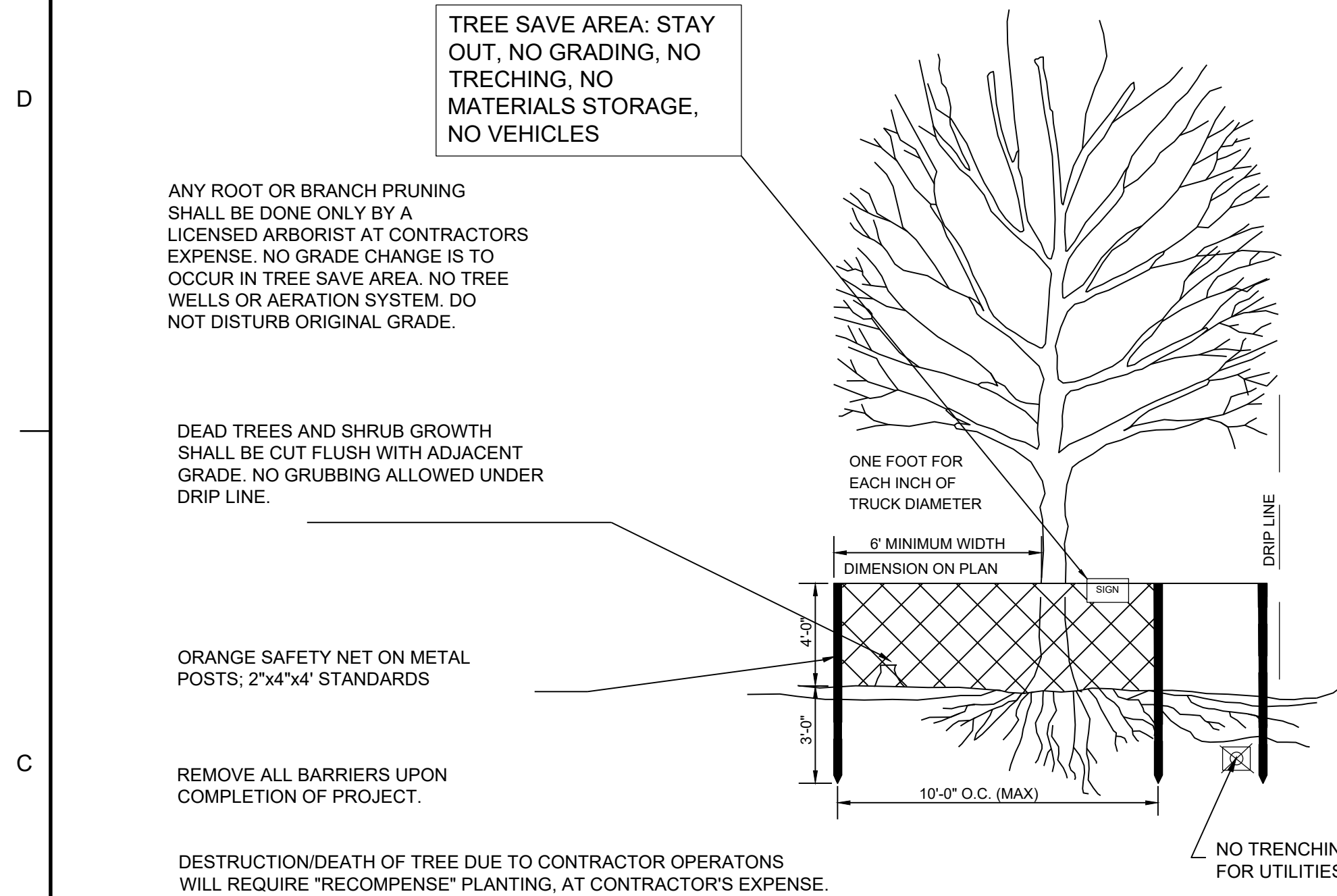
- 1/ APPLY IN SPRING FOLLOWING SEEDING.
- 2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
- 3/ APPLY IN SPLIT APPLICATIONS.
- 4/ APPLY WHEN PLANTS ARE PRUNED.
- 5/ APPLY TO GRASS SPECIES ONLY.
- 6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

PLANTS, PLANTING RATES, AND PLANTING DATES																		
SPECIES	BROADCAST RATES 1/ - PLS 2/		RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS												REMARKS		
				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 C														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																
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 C														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																
WITH OTHER PERENNIALS	6 LBS	0.1 LB																
BERMUDA, COMMON (CYNODON DACTYLON)			P C														PLANT WITH WINTER ANNUALS.	
UNHULLED SEED																		
WITH TEMPORARY COVER	10 LBS	0.2 LB															PLANT WITH TALL FESCUE.	
WITH OTHER PERENNIALS	6 LBS	0.1 LB																
BERMUDA SPRIGS (CYNODON DACTYLON)	40 CU. FT. OR SOD PLUGS 3' X 3'		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 C														SAME AS ABOVE	
TIFT 78			C														SOUTHERN COASTAL PLAIN ONLY.	
CENTPEDE (ERMOCHLOA OPHIURIODES)		BLOCK SOD ONLY	P C														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.	
				J	F	M	A	M	J	J	A	S	O	N	D			

PLANTS, PLANTING RATES, AND PLANTING DATES															
SPECIES	BROADCAST RATES 1/ - PLS 2/		RESOURCE AREA 3/	PLANTING DATES BY RESOURCE AREAS											
	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)															
WITH WINTER ANNUALS OR COOL SEASON GRASSES	15 LBS	0.3 LB	M-L P												
FESCUE, TALL (FESTUCA ARUNDINACEA)															
ALONE	50 LBS.	1.1 LB.	M-L P												
WITH OTHER PERENNIALS	30 LBS.	0.7 LB.													
KUDZU (PUERARIA THURBERGIANA)															
PLANTS OR CROWNS	3' - 7'- APART		ALL												
LESPEDEZA SERICEA (LESPEDEZA CUNEATA)															
SCARIFIED	60 LBS.	1.4 LB.	M-L P C												
UNSCARIFIED	75 LBS.	1.7 LB.	M-L P C												
SEED-BEARING HAY	3 TONS	138 LBS.	M-L P C												



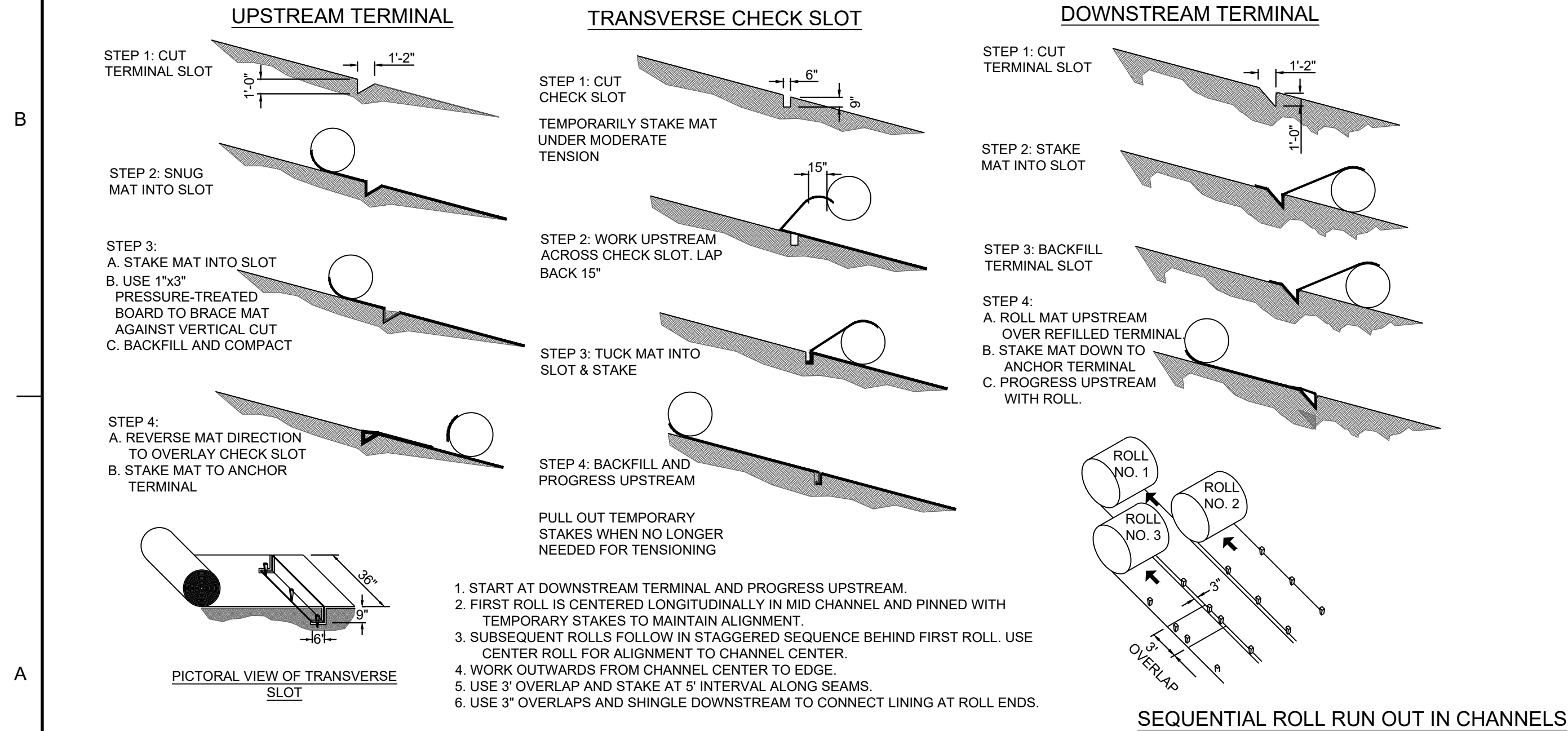
FILE NAME: X:\FY19\190369\T06 - Mark Lane 110 Culvert Replacement\04 CAD\_BIM\04 02 CAD\CE501.dwg PLOTTED: Monday, April 29, 2024



C1 TREE PROTECTION FENCE

NO SCALE

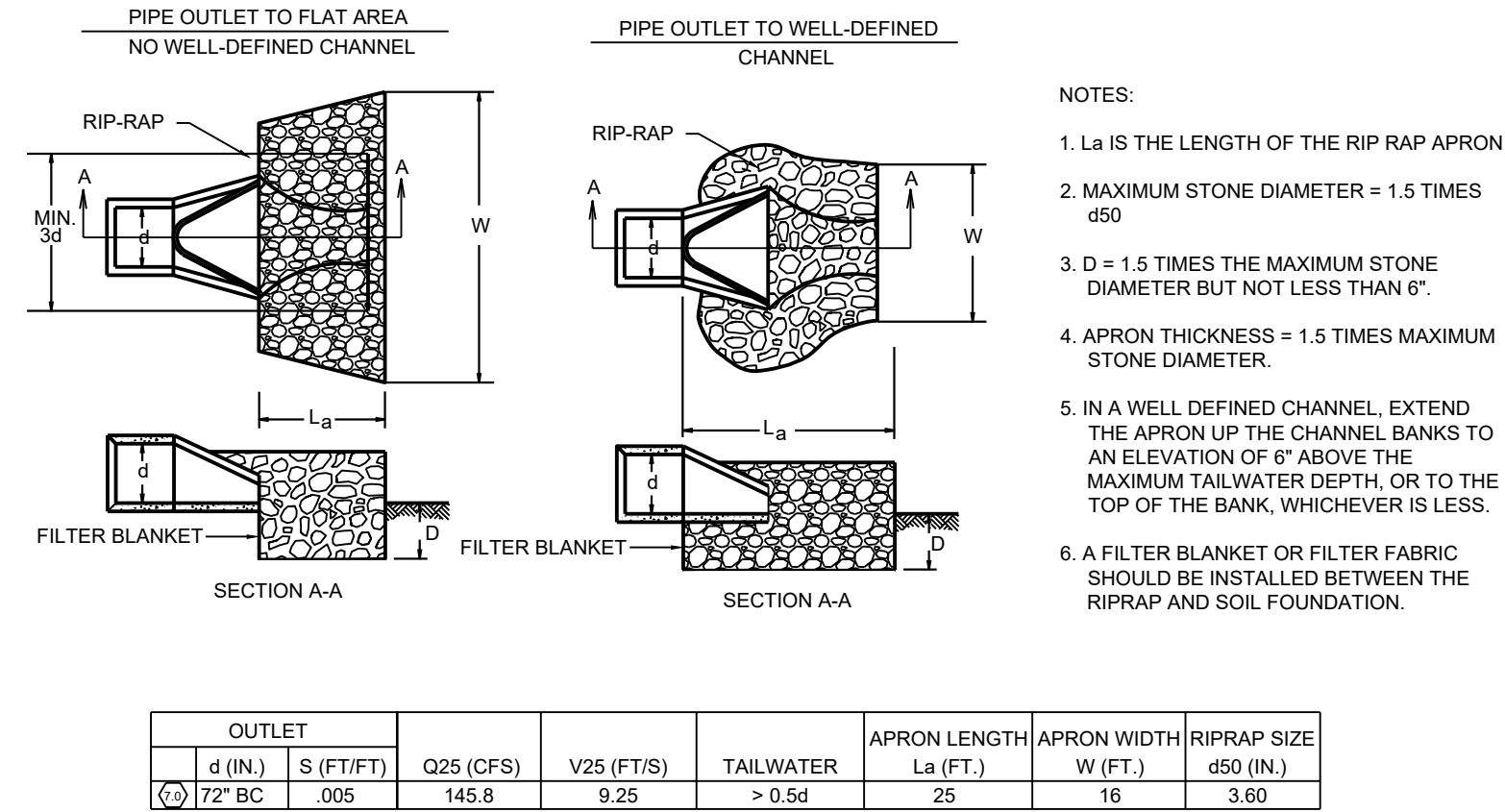
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A1 TYPICAL INSTALLATION GUIDELINES FOR SLOPE STABILIZATION WITH MATTING AND BALNKETS

NO SCALE

Ss



A3 STORM DRAIN OUTLET PROTECTION

NO SCALE

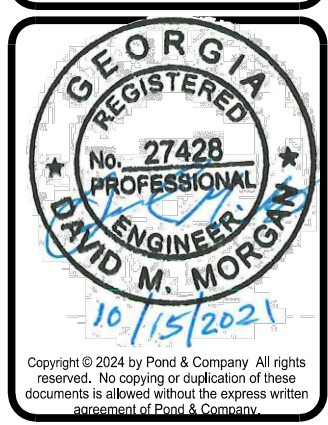
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15

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



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



MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: MIA  
DWN BY: NDA  
SUBMITTED BY: DM  
FILE NAME: CE504  
SIZE: 12" x 34"

DATE: OCTOBER 15, 2021  
SOLICITATION NO.: MDM  
CONTRACT NO.:  
FILE NUMBER:  
PLOT DATE:

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

POND  
Pond Engineering, Inc.  
Pond Engineering, Inc.  
Pond Engineering, Inc.  
Pond Engineering, Inc.  
Pond Engineering, Inc.

MARK LANE  
CULVERT REPLACEMENT  
FAYETTE COUNTY, GA 30214

EROSION AND SEDIMENT  
CONTROL DETAILS

SHEET  
IDENTIFICATION  
CE504



FILE NAME: X:\FY19\1503691\006 - Mark Lane 110 Culvert Replacement\04.CAD\_BIM\04.02.CAD\STORM EASEMENT.dwg PLOTTED: Monday, April 29, 2024

- GENERAL SHEET NOTES
- NO RESEARCH OF FIELD LOCATION HAS BEEN PREPARED, BY POND.
  - LAND SURVEY REFERENCE: TOPOGRAPHIC SURVEY, MARK LANE AT MORNING CREEK FOR FAYETTE COUNTY, PREPARED BY : GEOSURVEY, LTD., DATED 02/19/2019, REVISED DATED: 07/06/2021.

LEGEND:

POC POINT OF COMMENCE

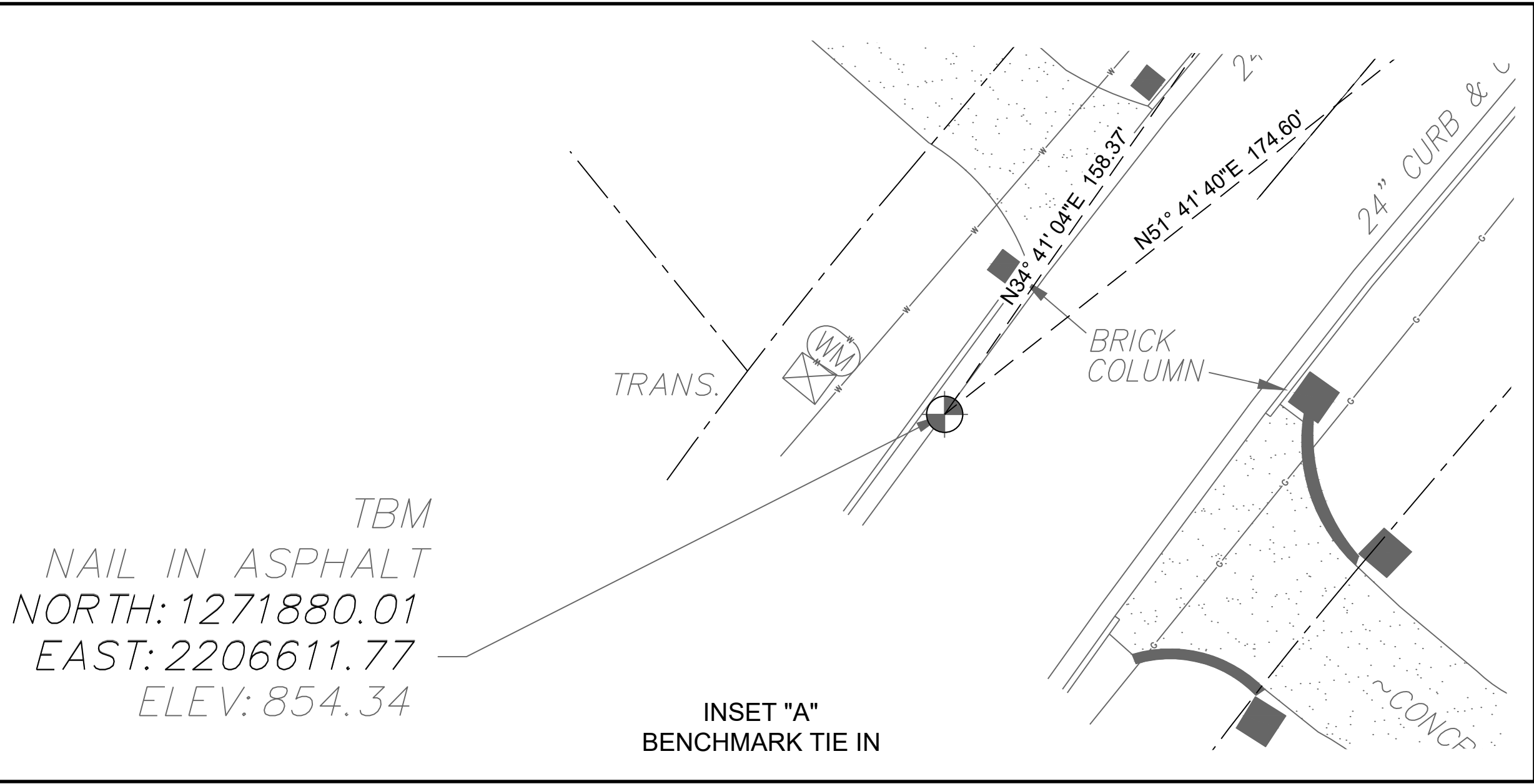
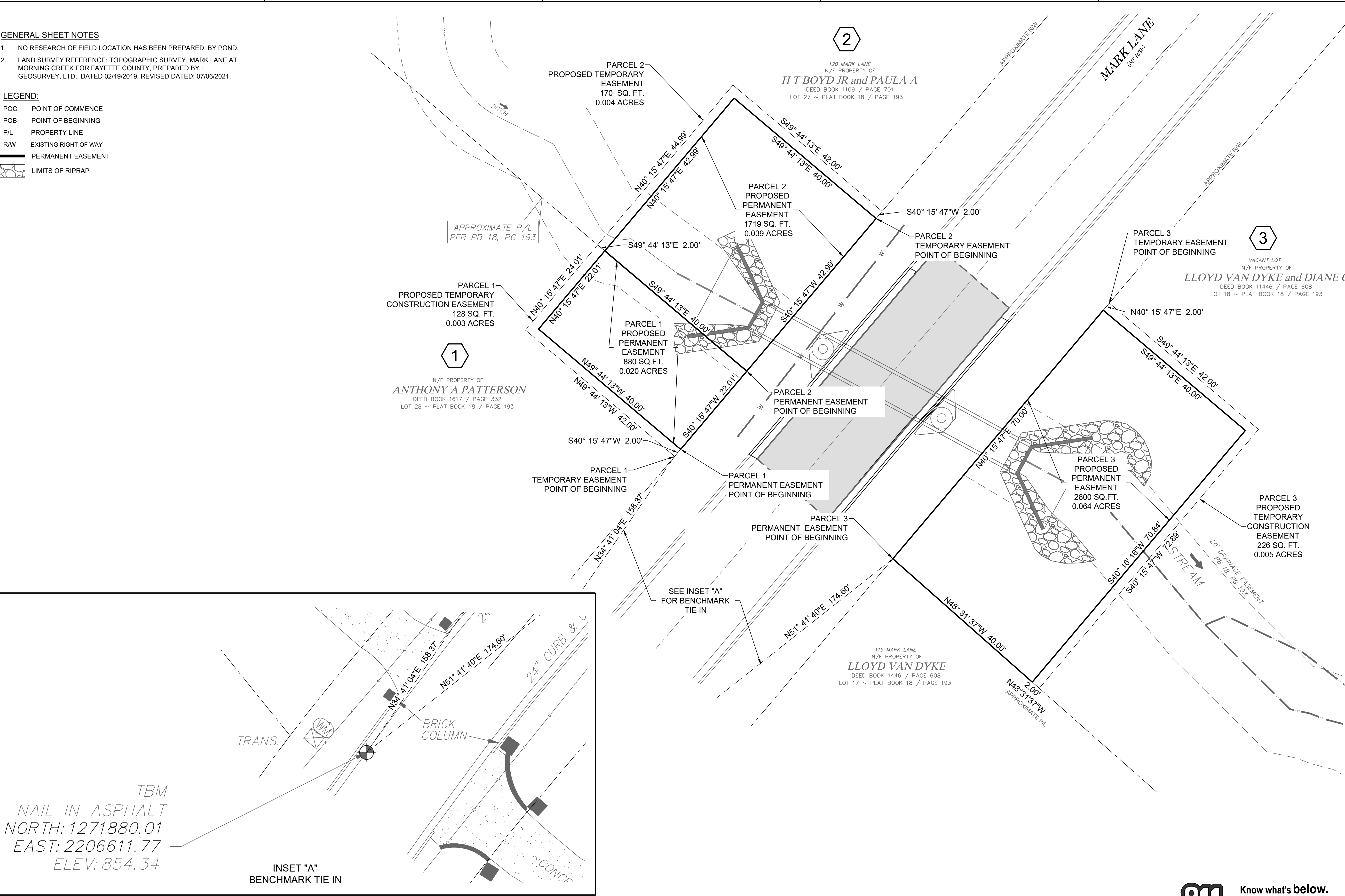
POB POINT OF BEGINNING

P/L PROPERTY LINE

R/W EXISTING RIGHT OF WAY

PERMANENT EASEMENT

LIMITS OF RIPRAP



A1 EASEMENT EXHIBIT A

SCALE: 1" = 10'



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



DATE	DESCRIPTION	MARK	APPR.

DESIGNED BY: MIA  
DRAWN BY: MDA  
CHECKED BY: MDA  
SUBMITTED BY: DM  
FILE NAME: E-101  
SIZE: 22" x 34"  
PLOT SCALE: 1" = 100'

DATE: OCTOBER 15, 2021  
SOLICITATION NO.:  
CONTRACT NO.:  
FILE NUMBER:  
PLOT DATE:

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

**POND**  
3500 Parkway Lane, Suite 500  
Fayetteville, GA 30214  
Phone (770) 335-7740  
POND PROJECT NO. 115959

MARK LANE  
CULVERT REPLACEMENT  
FAYETTE COUNTY, GA 30214

EASEMENT EXHIBIT A

SHEET  
IDENTIFICATION  
E-101