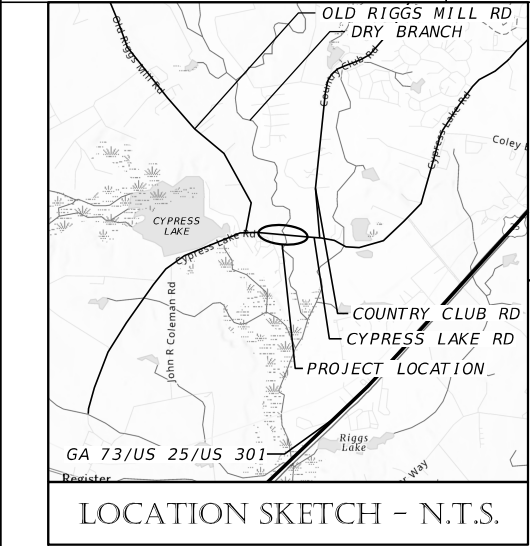




BULLOCH COUNTY

PLAN AND PROFILE OF PROPOSED
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

FEDERAL ROUTE No.: N/A
STATE ROUTE No.: N/A
PROJECT No.: E15

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2026 CONSTRUCTION STANDARDS AND DETAILS BOOK AND ATTACHED APPLICABLE REVISIONS. THE 2026 CONSTRUCTION STANDARDS AND DETAILS BOOK IS AVAILABLE AT:
<http://mydocs.dot.ga.gov/info/gdotpubs/ConstructionStandardsAndDetails/Forms/AllItems.aspx>
ANY REVISIONS CONTAINED WITHIN THIS PLAN SET SUPERSEDE THE 2026 CONSTRUCTION STANDARDS AND DETAILS BOOK WHICH THEY REVISE OR IN WHICH THERE IS A CONFLICT.

DESIGN DATA:N/A
TRAFFIC A.D.T.: 3626 (2026)
TRAFFIC A.D.T.: 4007 (2046)
TRAFFIC D.H.V.: 401 (2046)
DIRECTIONAL DIST: 50%
% TRUCKS: 8%
24 HR.TRUCKS %: N/A
SPEED DESIGN: 55 MPH

FUNCTIONAL CLASS:
MINOR COLLECTOR

THIS PROJECT IS 100% IN
BULLOCH COUNTY AND IS
100% IN CONG. DIST. NO. 12.

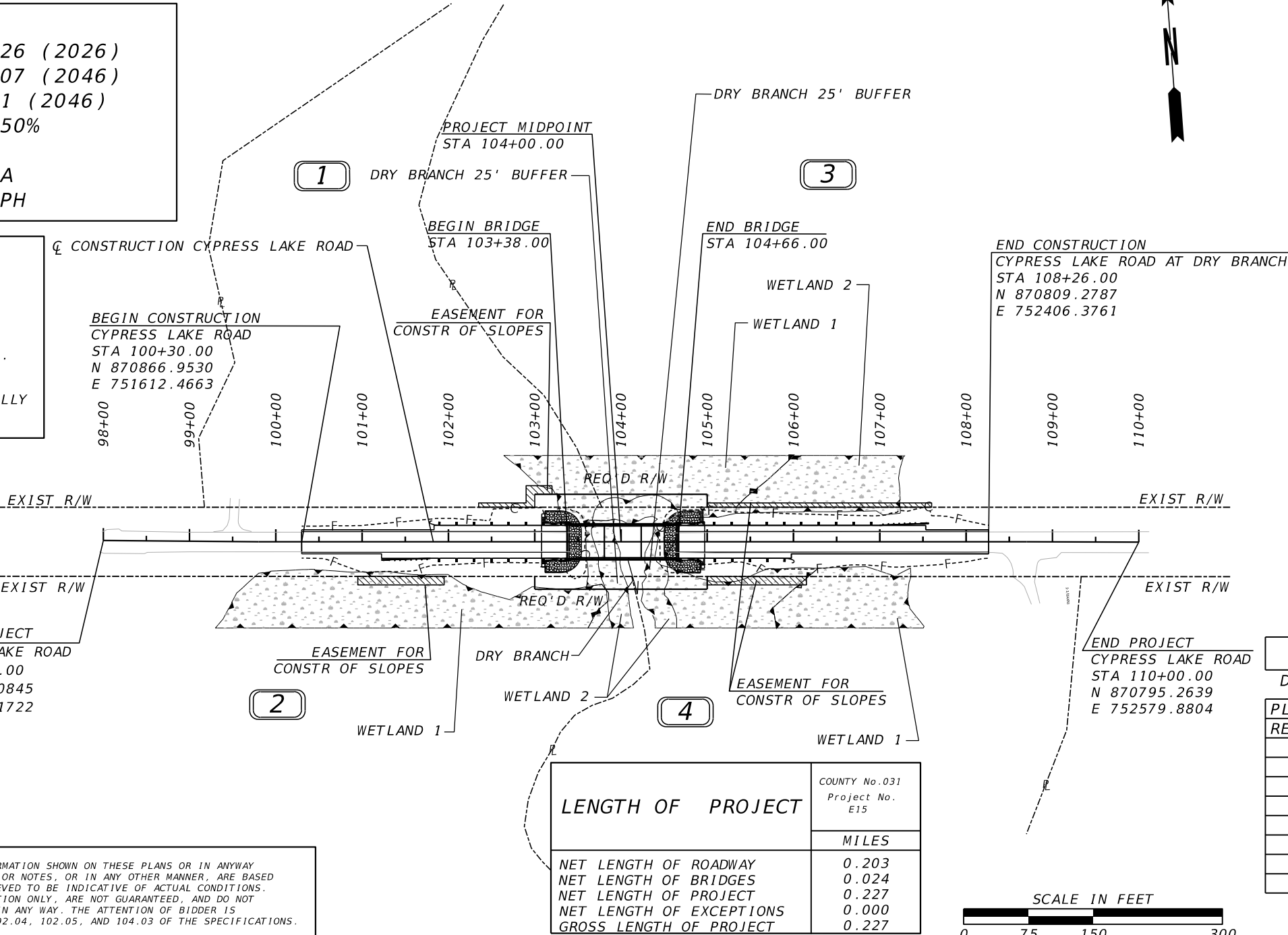
PROJECT DESIGNATION: LOCALLY
FUNDED

THIS PROJECT HAS BEEN PREPARED
USING THE HORIZONTAL GEORGIA
COORDINATE SYSTEM OF 1984 (NAD
1983)/94 EAST ZONE, AND THE NORTH
AMERICAN VERTICAL DATUM (NAVD)
OF 1988.

BEGIN PROJECT
CYPRESS LAKE ROAD
STA 98+00.00
N 870885.0845
E 751383.1722

PROJECT MIDPOINT
STA 104+00.00
N 870840.145
E 751981.489

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT GUARANTEED, AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



NOTE :
ALL REFERENCES IN THIS DOCUMENT, WHICH INCLUDES ALL PAPERS, WRITINGS, DOCUMENTS, DRAWINGS, OR PHOTOGRAPHS USED, OR TO BE USED IN CONNECTION WITH THIS DOCUMENT, TO " STATE HIGHWAY DEPARTMENT OF GEORGIA ", " STATE HIGHWAY DEPARTMENT ", " GEORGIA STATE HIGHWAY DEPARTMENT ", " HIGHWAY DEPARTMENT ", OR " DEPARTMENT " WHEN THE CONTEXT THEREOF MEANS THE STATE HIGHWAY DEPARTMENT OF GEORGIA, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.



Heath & Lineback
10 Glenlake Pkwy NE, North Tower, Suite 800
Sandy Springs, Georgia 30328
770.424.1668

PLANS PREPARED
BY :

DATE	BULLOCH COUNTY
PLANS COMPLETED	5-5-2026
REVISIONS	

LENGTH OF PROJECT	COUNTY No.031 Project No. E15
	MILES
NET LENGTH OF ROADWAY	0.203
NET LENGTH OF BRIDGES	0.024
NET LENGTH OF PROJECT	0.227
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.227

DRAWING No.

01-0001



THE DRAWINGS AS LISTED BELOW
HAVE BEEN SIGNED AND SEALED BY

WARREN WADE DIMSDALE
PE NO 036612

BCC ENGINEERING, LLC, D/B/A HEATH & LINEBACK
10 GLENLAKE PKWY NE, NORTH TOWER, SUITE 800
SANDY SPRINGS, GA 30328
CERTIFICATE OF AUTHORIZATION #:PEF007397
CERTIFICATE OF AUTHORIZATION EXPIRATION DATE:6/30/2026

5/5/2026

DRAWING No.	DRAWING DESCRIPTION
01-0001	COVER SHEET
01-0002	SIGNATURE SHEET
02-0001	INDEX SHEET
03-0001	REVISION SUMMARY DRAWING
04-0001 - 04-0002	GENERAL NOTES
05-0001	TYPICAL SECTIONS
06-0001 - 06-0002	SUMMARY OF QUANTITIES
07-0001	QUANTITIES REQUIRED BY AMENDMENT DRAWING
08-0001	QUANTITIES REQUIRED ON CONSTRUCITON DRAWING
13-0001 - 13-0002	MAINLINE PLAN DRAWINGS
15-0001	MAINLINE PROFILE DRAWINGS
20-0001	BRIDGE CONSTRUCTION ACCESS
23-0001 - 23-0005	CROSS SECTIONS
24-000A - 24-0002	UTILITY PLANS
26-0001 - 26-0002	SIGNING AND MARKING PLANS AND DETAILS
51-0001 - 51-0009	EROSION, SEDIMENTATION AND POLLUTION CONTROL GENERAL NOTES DRAWING
53-0001 - 53-0002	ESPCP DRAINAGE AREA MAP
54-0001 - 54-0006	CONSTRUCTION BMP LOCATION DETAILS
55-0001	EROSION CONTROL WATERSHED MAP AND SITE MONITORING LOCATION

NOTE: DRAWINGS IN SECTIONS 40, 41, 52, AND 56
ARE GDOT STANDARDS AND DETAILS AND ARE NOT
COVERED BY THIS SIGNATURE AND SEAL.



THE DRAWINGS AS LISTED BELOW
HAVE BEEN SIGNED AND SEALED BY

FRANK RANDY BOYKIN
PE NO PE030524

BCC ENGINEERING, LLC, D/B/A HEATH & LINEBACK
10 GLENLAKE PKWY NE, NORTH TOWER, SUITE 800
SANDY SPRINGS, GA 30328
CERTIFICATE OF AUTHORIZATION #:PEF007397
CERTIFICATE OF AUTHORIZATION EXPIRATION DATE:6/30/2026

05/05/2026

DRAWING No.	DRAWING DESCRIPTION
35-0001-35-0011	BRIDGE PLANS



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Sandy Springs, Georgia 30328
770.424.1668

REVISION DATES

SIGNATURE SHEET
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
01-0002

DRAWING NO.	DESCRIPTION	REVISION DATE
01-0001	Cover	
01-0002	Signature Sheet	
02-0001	Index	
03-0001	Revision Summary	
04-0001 TO 04-0002	General Notes	
05-0001	Typical Sections	
06-0001 TO 06-0002	Summary of Quantities	
07-0001	Quantities Required by Amendment Drawings	
08-0001	Quantities Required on Construction Drawings	
13-0001 TO 13-0002	Mainline Plan	
15-0001	Mainline Profile	
20-0001	Bridge Construction Access	
23-0001 TO 23-0005	Cross Sections	
24-000A TO 24-0002	Utility Plans	
26-0001 TO 26-0002	Signing and Marking Plans and Details	
35-0001 TO 35-0011	Bridge Plans	

DRAWING NO.	DESCRIPTION	REVISION DATE
Erosion Control Plans		
50-0001	Erosion Control Cover	
51-0001 TO 51-0009	ESPCP General Notes	
52-0001	EC-L1 Erosion Control Legend and Uniform Code (Sheet 1 of 7)	3/17
52-0002	EC-L2 Erosion Control Legend and Uniform Code (Sheet 2 of 7)	11/18
52-0003	EC-L3 Erosion Control Legend and Uniform Code (Sheet 13of 7)	3/17
52-0004	EC-L4 Erosion Control Legend and Uniform Code (Sheet 4 of 7)	3/17
52-0005	EC-L5 Erosion Control Legend and Uniform Code (Sheet 5 of 7)	3/17
52-0006	EC-L6 Erosion Control Legend and Uniform Code (Sheet 6 of 7)	11/18
52-0007	EC-L7 Erosion Control Legend and Uniform Code (Sheet 7 of 7)	3/17
53-0001 TO 53-0002	Erosion Control Drainage Area Map	
54-0001 TO 54-0006	BMP Location Details -STAGE1, STAGE2, and STAGE3	
55-0001	Watershed Map Site Monitoring Plan	
56-0001	D-24A Temporary Silt Fence (Sheet 1 of 4)	1/19/2011
56-0002	D-24B Temproray Silt Fence Berm Ditch, Installation, Bruch Barrier (Sheet 2 of 4)	1/20/2011
56-0003	D-24C Temporary Silt Fence J-Hooks, Inlet Sediment Traps (Sheet 3 of 4)	1/21/2011
56-0004	D-35 Permanent Soil Reinforcing Mat (Turf Reinforcing Mat) Installation on ditches	1/22/2011
56-0005	D-41 Construction Exit	1/23/2011
56-0006	D-42 Inlet Sediment Trap	5/7/2008
56-0007	D-56 Stone Rip Rap and Sand Bag Temporary Check Dams	11/28/2018
Right of Way Plans		
60-0001 TO 60-0005	Right of Way Plans	

[illegible]

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PROJECT GENERAL NOTES

- 1.AN N.O.I. (NOTICE OF INTENT) WILL BE REQUIRED FOR THIS PROJECT. TOTAL DISTURBED ACREAGE FOR THIS PROJECT IS 1.75
- 2.THE CONTRACTOR SHALL INSTALL ORANGE BARRIER FENCING AS SHOWN ON THE CONSTRUCTION PLAN SHEETS TO ENSURE THAT AN ESA IS NOT ADVERSELY IMPACTED DURING PROJECT CONSTRUCTION. NO STAGING OF EQUIPMENT SHALL BE PERMITTED WITHIN THE ENVIRONMENTALLY SENSITIVE AREA BOUNDARIES.
- 3.CLEARING LIMITS FOR THIS PROJECT ARE RIGHT-OF-WAY TO RIGHT-OF-WAY. CONSTRUCTION RELATED ACTIVITIES (SUCH AS THE USE OF STAGING, EASEMENT, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASINS, TRAILER PLACEMENT, ETC.) ARE PERMITTED WITHIN THESE CLEARING LIMITS, EXCEPT WHERE DEFINED BY NOTE #2. HOWEVER, THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION RELATED ACTIVITIES (AS PREVIOUSLY DEFINED) OCCUR UNDER THE DRIP LINE OF DESIRED TREES THAT WILL REMAIN IN THE ROW. THIS DOES NOT APPLY TO TREES WITHIN THE CONSTRUCTION LIMITS OR LIMITS OF DISTURBANCE THAT WILL BE REMOVED OR DESTROYED TO ALLOW FOR CONSTRUCTION. AREAS DELINEATED BY ORANGE BARRIER FENCE ARE PROHIBITED FROM DISTURBANCE.
- 4.ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL, OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.
- 5.THERE IS NO SUITABLE PLACE TO BURY EXISTING BRIDGE/CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE AS SHOWN IN GA SPECIFICATION 201 TO DISPOSE OF EXISTING BRIDGE/CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE COUNTY.
- 6.ANY SHORING USED TO CONSTRUCT/INSTALL BRIDGE IS TO BE INCLUDED IN THE OVERALL COST BID FOR GRADING COMPLETE.
- 7.EXISTING FILL REMOVED SHALL BE PAID FOR IN THE OVERALL COST BID FOR GRADING COMPLETE.
8. OBSTRUCTIONS, PILING, ETC. FROM PREVIOUS BRIDGE THAT ARE IN CONFLICT WITH THE PROPSED BRIDGE AND/OR ROADWAY CONSTRUCTION THAT NEEDS TO BE REMOVED WILL BE PAID UNDER THE BRIDGE REMOVAL PAY ITEM
9. THE CONTRACTOR SHALL NOTIFY BULLOCH COUNTY OF ALL ROADWAY CLOSURES

UTILITY GENERAL NOTES

UTILITY OWNER	SERVICE
EXCELSIOR ELECTRIC	ELECTRIC
GEORGIA POWER DISTRIBUTION	ELECTRIC
GEORGIA TRANSMISSION CORPORATION	ELECTRIC
BULLOCH SOULTIONS	TELECOMMUNICATION
VYVE BROADBAND	TELECOMMUNICATION

NOTES:
UTILITY DISCLAIMER: EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. UTILITY LOCATION WAS PERFORMED BY UTILITY OWNER MARK-UPS. THE CONTRACTOR/INSTALLER SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION.

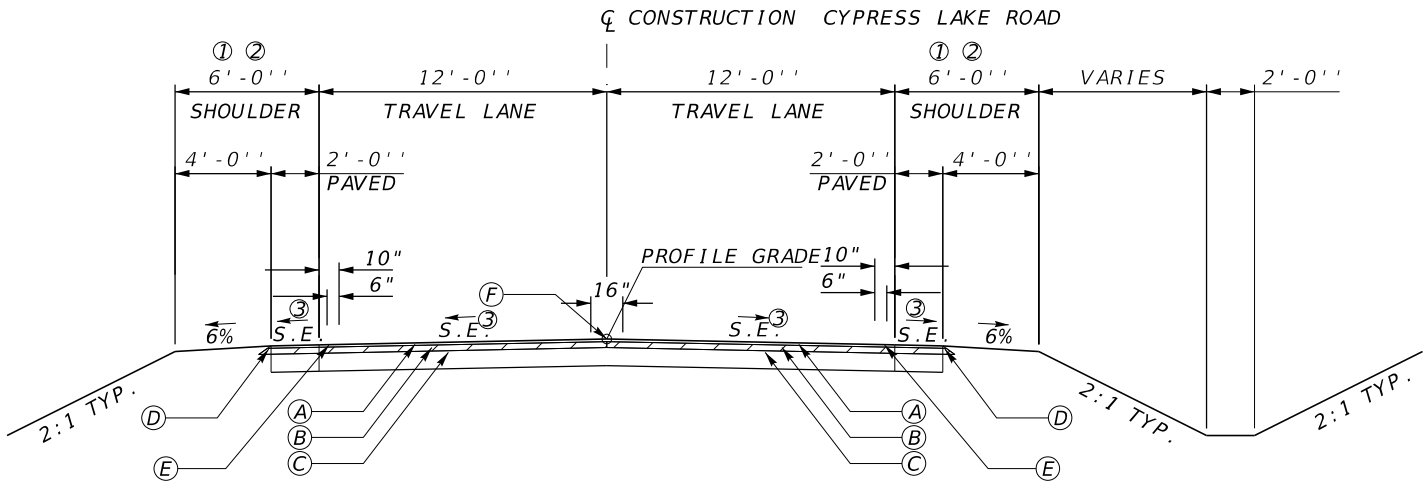
CONTRACTOR/INSTALLER SHALL CONTACT 811 PRIOR TO ANY CONSTRUCTION.



Contact 811 before you dig.

REVISION DATES			GENERAL NOTES			
			CYPRESS LAKE ROAD AT DRY BRANCH BRIDGE REPLACEMENT			
			CHECKED:		DATE:	DRAWING No.: 04-0001
			BACKCHECKED:		DATE:	
			CORRECTED:		DATE:	
			VERIFIED:		DATE:	

GENERAL NOTES-STANDARD SIGNS									
1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.	2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.	3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY. IF SIDEWALK IS PROPOSED OR EXISTING, THE SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE SIDEWALK.	4a. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.	4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).	4c. WHEN GUARDRAIL IS PRESENT OR BEING PROPOSED, SIGNS SHALL BE POSTED AN UNSTIPULATED DISTANCE BEHIND GUARDRAIL.	5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.	6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.	7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.	8. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
11. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. ALL REGULATORY SIGNS WITHIN THE SCHOOL ZONE SHALL HAVE TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING.	12. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.	13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3/8INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.	14. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.	15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.	16. REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS OFFICE, TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.	17. THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.	18. ANY CONSTRUCTION EQUIPMENT IN EXCESS OF 200 FEET ABOVE THE GROUND ELEVATION MUST BE EVALUATED BY THE FAA. EVALUATION BY FILING OF "NOTICE OF PROPOSED CONSTRUCTION"FAA FORM 7460-1 MUST BE ACCOMPLISHED NOT EARLIER THAN 18 MONTHS AND NOT LATER THAN 120 DAYS PRIOR TO CONSTRUCTION. E-FILE AT https://oeaaa.faa.gov/oeaaa/external/portal.jsp		



TYPICAL SECTION #1
FULL DEPTH SECTION CYPRESS LAKE ROAD
STA 100+30.00 TO STA 103+08.00
STA 104+96.00 TO STA 108+26.00

- (A) RECYCLED ASPH CONC 9.5 MM TYPE II SUPERPAVE, BLEND 1, INC BITUM MATL & H LIME (135 LBS/SY).
- (B) RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INC BITUM MATL & H LIME (330 LBS/SY).
- (C) GR AGGR BASE CRS, INCL MATL (8 INCH)
- (D) PAVEMENT EDGE TREATMENT, GDOT DETAIL P-7
- (E) INDENTATION SINUSOIDAL EDGELINE RUMBLE STRIPS - GROUND IN PLACE SKIP, 6 IN - GA DETAIL T-35 & T-36
- (F) INDENTATION SINUSOIDAL CENTERLINE RUMBLE STRIPS - GROUND IN PLACE CONTINUOUS, 16 IN - GA DETAIL T-33 & T-34

- NOTES
- SEE PLANS FOR LOCATION OF GUARDRAIL
 - SEE GDOT DETAIL 5-4 FOR SHOULDER PAVING AT GUARDRAIL
 - SEE CROSS-SECTIONS & CONSTRUCTION PLANS FOR SUPERELEVATION RATE



Heath & Lineback
10 Glenlake Pkwy NE, North Tower, Suite 800
Sandy Springs, Georgia 30328
770.424.1668

N.T.S.

REVISION DATES

TYPICAL SECTIONS
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

05-0001

SUMMARY OF QUANTITIES

ROADWAY

TRAFFIC CONTROL		
TOTAL	1	LS

GRADING COMPLETE		
TOTAL	1	LS

RIGHT OF WAY MARKERS		
TOTAL	8	EA

BARRIER FENCE (ORANGE), 4FT		
TOTAL	1173	LF

SINUSOIDAL EDGELINE RUMBLE STRIPS-GROUND IN PLACE (SKIP)		
TOTAL	1	GLM

SINUSOIDAL CENTERLINE RUMBLE STRIPS-GROUND IN PLACE (CONTINUOUS)		
TOTAL	1	GLM

DRAINAGE

CONCRETE SPILLWAY GA STD 9017J						
STATION	SIDE	TYPE 1 (EA)	TYPE 3 (EA)	SLOPE DRAIN PIPE, 18 IN (LF)	CONCRETE SLOPE DRAIN (SY)	Class A Conc Apron 0.17 CY
103+08.00	LT	-	1	-	1.83	0.17
103+08.00	RT	-	1	-	1.06	0.17
104+97.00	LT	1	-	15.07	-	0.17
104+97.00	RT	-	1	-	1.45	0.17
TOTAL		1	3	15.07	4.34	0.68
ROUNDED TOTAL		1	3	16	5	1

RIP RAP QUANTITIES			
STN DUMPED RIP RAP, TP 3, 18 IN			
Station	Location	Side	Area (SY)
107+18.00	Cypress Lake Road	LT	6
Total:			6
PLASTIC FILTER FABRIC			
Total:			6

PAVEMENT SURFACE QUANTITIES				
ITEMS	UNIT	MAINLINE PAVING	APPROACH SLAB	AMOUNT
RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II BLEND 1, INCL BITUM MATL & H LIME	TN	153	18	171
RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME	TN	373	43	416
GR AGGR BASE CRS, INCL MATL	TN	1018	-	1,018
TACK COAT	GL	453	26	479
REINF CONC APPROACH SLAB	SY	-	259	259

GUARDRAIL

GUARDRAIL						
GUARDRAIL (STA & LOCATION)			GUARDRAIL, TP T GA STD 4382	GUARDRAIL, TP W GA STD 4383	GUARDRAIL ANCHORAGE, TP 1	GUARDRAIL TERMINAL, TP 12A, 31 IN, TANGENT, ENERGY-ABSORBING
BEGIN	END					
STATION	STATION	SIDE	LF	LF	EA	EA
101+79.18	103+37.33	RT	20.65	137.50	-	1
101+79.18	103+37.33	LT	20.65	137.50	1	-
104+66.66	106+99.81	LT	20.65	212.50	-	1
104+66.66	105+99.81	RT	20.65	112.50	1	-
Total:			83.00	600.00	2.00	2.00

FENCE

FIELD FENCE WOVEN WIRE			
FENCE (STA & LOCATION)			Length (FT)
BEGIN	END		
STATION	STATION	SIDE	
102+99.50	103+18.00	LT	33.26
Total:			34.00



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REVISION DATES

SUMMARY QUANTITIES
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:		DATE:		DRAWING No. 06-0001
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

SUMMARY OF QUANTITIES

EROSION

CONSTRUCT AND REMOVE CONSTRUCTION EXIT	
TOTAL	2 EA

CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	
TOTAL	4 EA

MAINTENANCE OF CONSTRUCTION EXIT	
TOTAL	1 EA

MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA	
TOTAL	1 EA

MAINTENANCE OF INLET SEDIMENT TRAP	
TOTAL	4 EA

WATER QUALITY MONITORING AND SAMPLING	
TOTAL	12 EA

WATER QUALITY INSPECTIONS	
TOTAL	12 MO

TEMPORARY SILT FENCE, TP C	
TOTAL	3118 LF

MAINTENANCE OF TEMPORARY SILT FENCE, TP C	
TOTAL	1559 LF

EROSION CONTROL MATS, SLOPES	
TOTAL	844 SY

COCONUT FIBER BLANKET, SLOPES	
TOTAL	42 SY

CONSTRUCT AND REMOVE ROCK FILTER DAMS	
TOTAL	5 EA

STONE PLAIN RIP RAP/SAND BAGS	
TOTAL	6 EA

MAINTENANCE OF ROCK FILTER DAM	
TOTAL	5 EA

MAINTENANCE OF CHECK DAMS - ALL TYPES	
TOTAL	90 LF

SIGNING

Signs					Highway Signs MTL/REFL Sheeting		Type 7 Post	Type 9 Post
Road Name	Station	Sign Code	Size (in)		TP1/TP9 (SF)	TP1/TP11 (SF)	Length (ft)	Length (ft)
			Width	Height				
Cypress Lake Road	98+40.49	W8-13	36	36	0.00	9.00	0.00	15.24
Cypress Lake Road	103+20.49	I2-2	36	12	3.00	0.00	12.00	0.00
Cypress Lake Road	104+80.49	I2-2	36	12	3.00	0.00	12.00	0.00
Cypress Lake Road	109+60.49	W8-13	36	36	0.00	9.00	0.00	15.24
Total =					6.00	18.00	24.00	31.00

MARKING

ITEM	UNIT	QUANTITY
THERMOPLASTIC SOLID TRAF STRIPE, 6 IN, WHITE	LF	1331
THERMOPLASTIC SOLID TRAF STRIPE, 6 IN, YELLOW	LF	1331
WET REFLECTIVE PERFORMED SOLID PAVEMENT MARKINGS, 9 IN CONTRAST (BLACK-WHITE)	LF	262
WET REFLECTIVE PERFORMED SOLID PAVEMENT MARKINGS, 9 IN CONTRAST (BLACK-YELLOW)	LF	262
RAISED PVMT MARKERS TP 1	EA	68
DELINEATOR, TP 2, WHITE	EA	12

GRASSING

GRASSING		QUANTITY	AGRICULTURAL LIME (TN)	FERTILIZER MIXED GRADE(TN)	FERTILIZER NITROGEN CONTENT (LBS)	MULCH (TN)
	UNIT					
PERMANENT GRASSING	AC	2	3	0.25	62	3
TEMPORARY GRASSING	AC	2	-	0.12	-	15
TOTALS:			3	1	62	18

BRIDGE

REMOVAL OF EXISTING BR, BR NO - 1 -- STA NO 105+80.00	
TOTAL	1 LS

CONCRETE BARRIER	
TOTAL	252 LF

CLASS A CONCRETE	
TOTAL	68 CY

PSC CORED SLAB BEAMS, 21 IN, BR 1	
TOTAL	1764 LF

BAR REINF STEEL	
TOTAL	9588 LB

SUPERSTR REINF STEEL, BR NO - 1	
TOTAL	4308 LB

PILING IN PLACE, METAL SHELL, 18 IN OD	
TOTAL	543 LF

PILING IN PLACE, METAL SHELL, 24 IN OD	
TOTAL	539 LF

LOAD TEST, METAL SHELL, 18 IN OD	
TOTAL	1 EA

LOAD TEST, METAL SHELL, 24 IN OD	
TOTAL	1 EA

DYNAMIC PILE TEST	
TOTAL	3 EA

STN DUMPED RIP RAP, TP 1, 18 IN	
TOTAL	516 SY

PLASTIC FILTER FABRIC	
TOTAL	516 SY

BRIDGE DECK WATERPROOFING MEMBRANE, METHOD A	
TOTAL	541 SY



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REVISION DATES

SUMMARY QUANTITIES
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

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BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

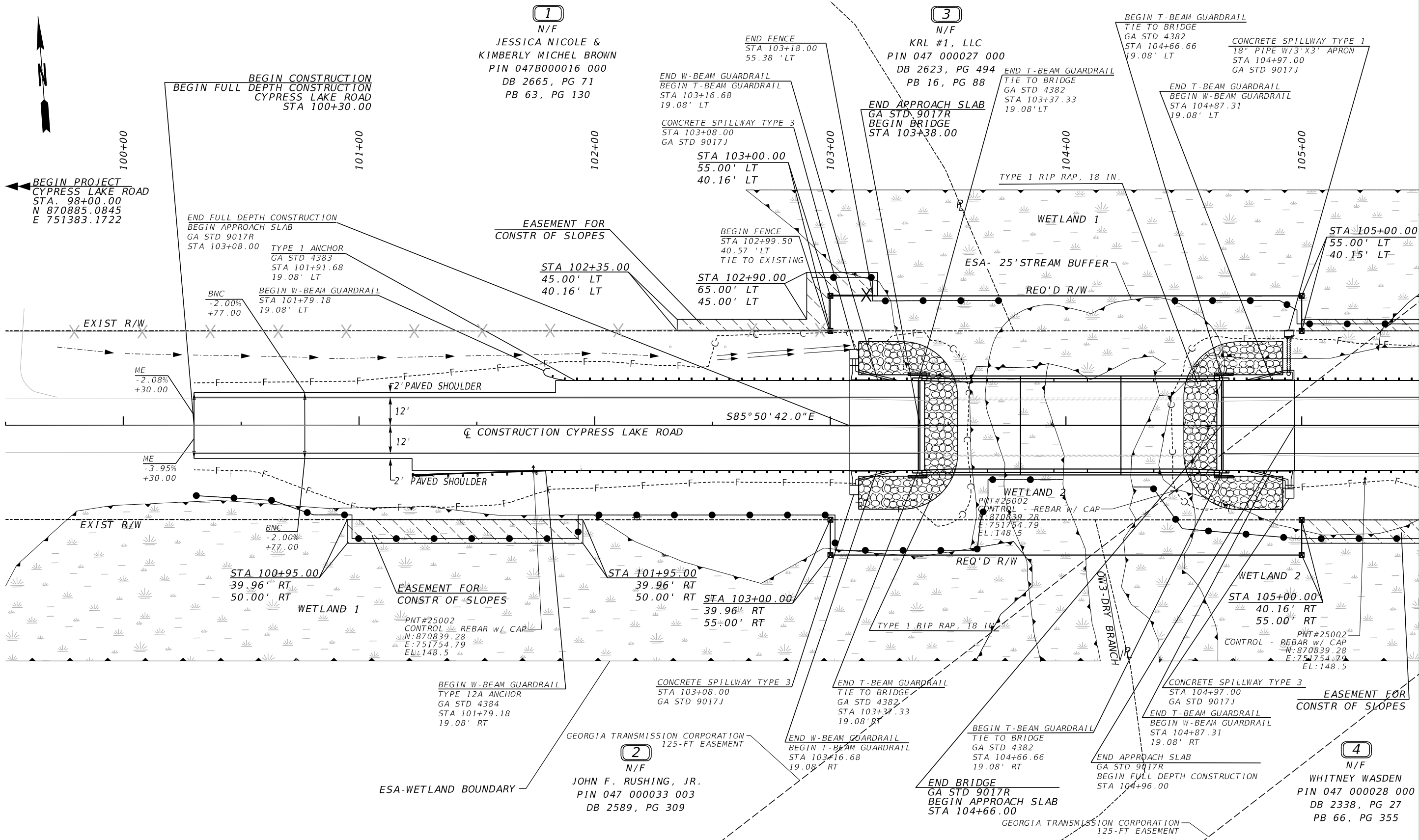
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PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

-----E-----

---C---F---

BEGIN LIMIT OF ACCESS.....BLA

END LIMIT OF ACCESS.....ELA

EXISTING LIMIT OF ACCESS

REQ'D LIMIT OF ACCESS

EXISTING LIMIT OF ACCESS & R/W

REQ'D LIMIT OF ACCESS & R/W

ORANGE BARRIER FENCE

ESA - ENV. SENSITIVE AREA
(SEE E.R.I.T.)

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A BCC COMPANY

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SCALE IN FEET

REVISION DATES

CONSTRUCTION PLAN
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

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DATE:

CORRECTED:

DATE:

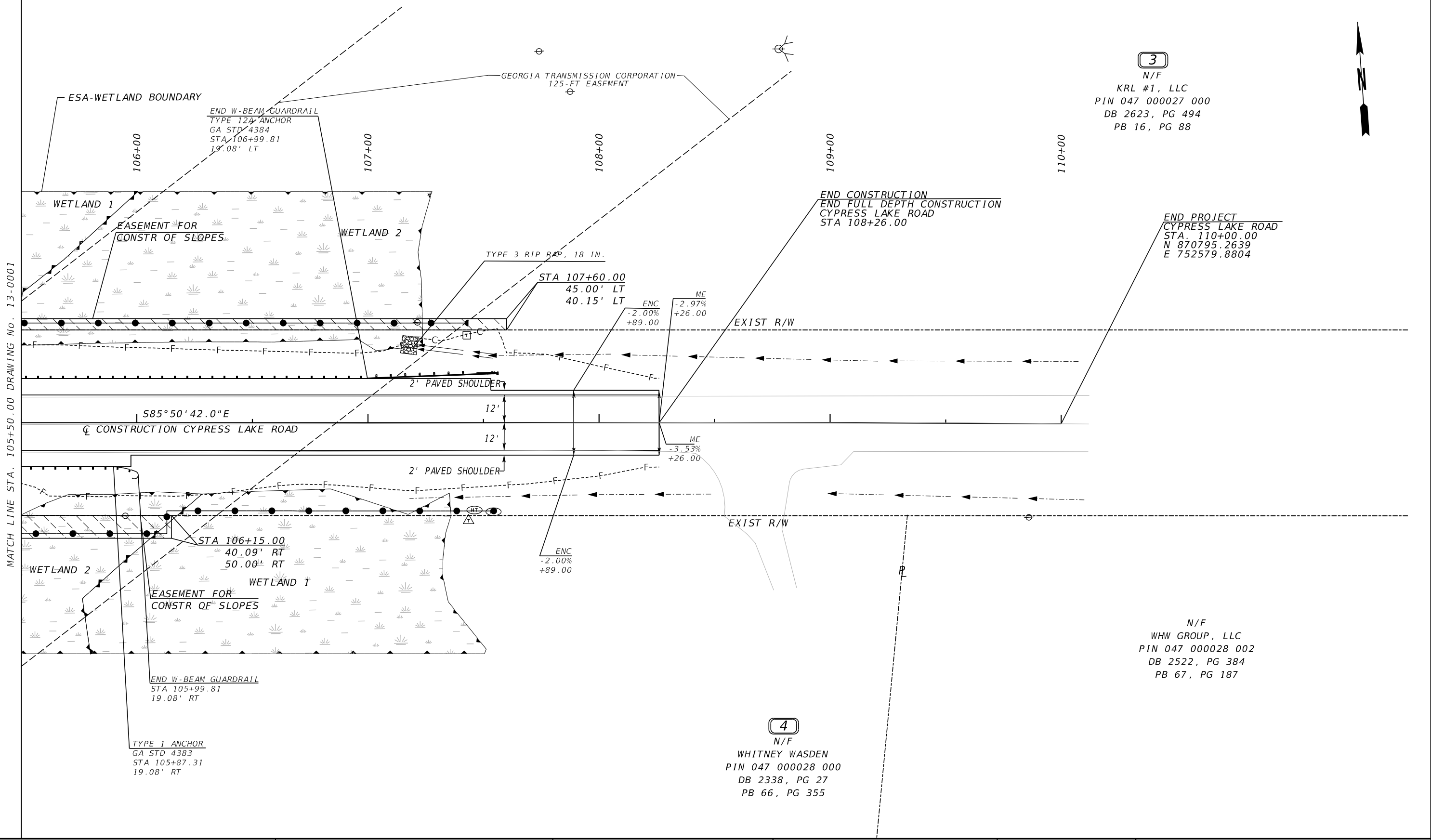
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DATE:

DRAWING No.

13-0001

GPLN-CE



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

-----E-----

---C---F---

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE E.R.I.T.)

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SCALE IN FEET

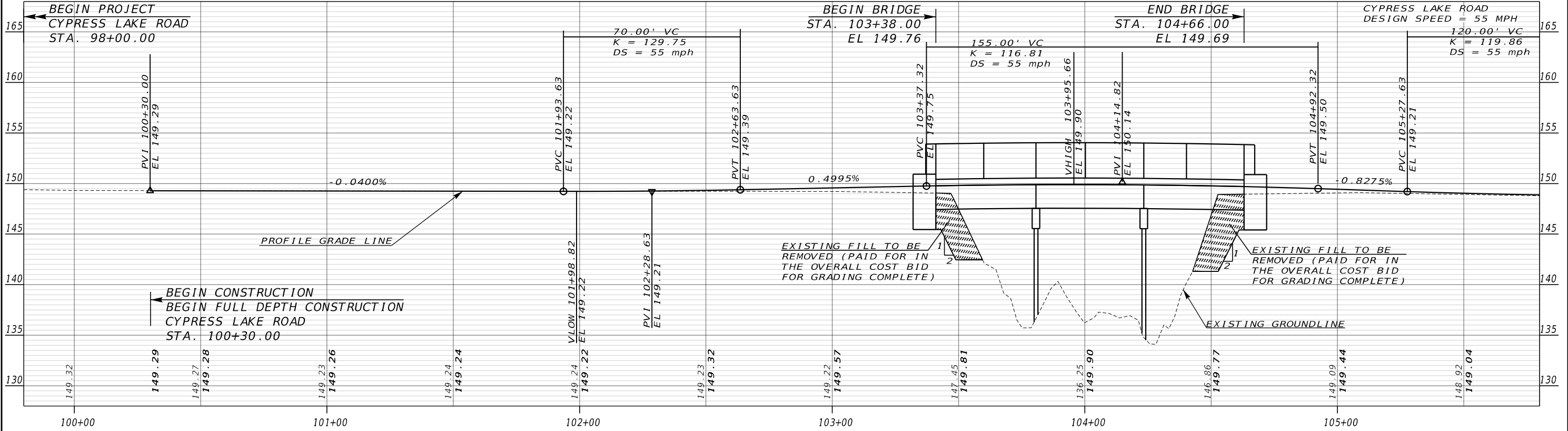
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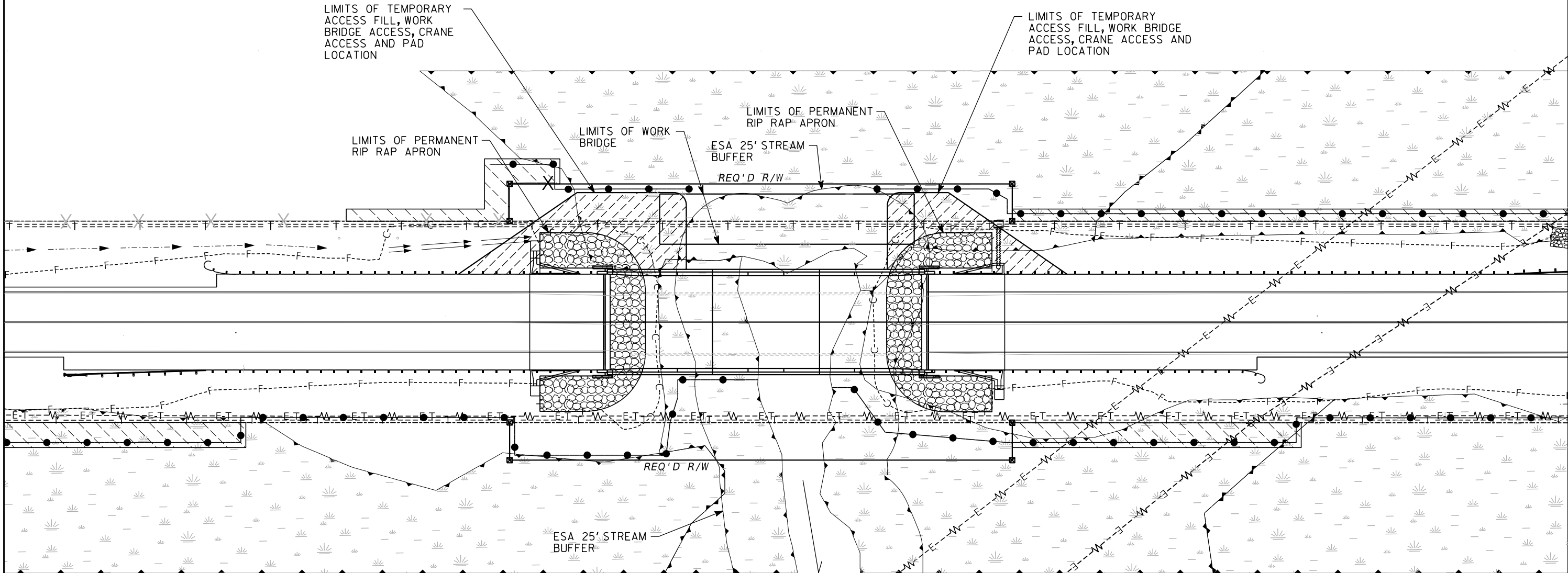
CONSTRUCTION PLAN
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

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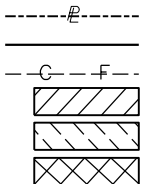
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13-0002



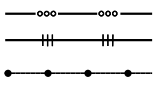


1. Temporary work bridges may be used for this project. No permanent and/or temporary fill associated with the temporary work bridge shall be allowed within the delineated limits of waters of the U.S., unless shown otherwise. Temporary work bridge piles placed in the waters of the U.S. will require authorization under Section 404 of the Clean Water Act when such placement is used in a manner essentially equivalent to a discharge of fill material in physical effect or functional use and effect.
2. Temporary fill (e.g., jetties, bulkheads, debris containment structures) within waters of the U.S. is not permitted at this location.
3. Placement of temporary work bridges and associated access road(s) may be shifted if condition in the field require it. However, no change in the amount of impact(s), category of impact(s), recourse(s) impacted, and/or duration of impact(s) with respect to waters of the U.S shall be allowed due to the relocation of temporary work bridges and associated roads, unless coordinated with the US Army Corps of Engineers. Impact changes may be subject to additional mitigation requirements.

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

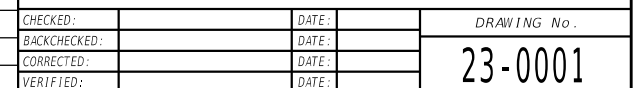


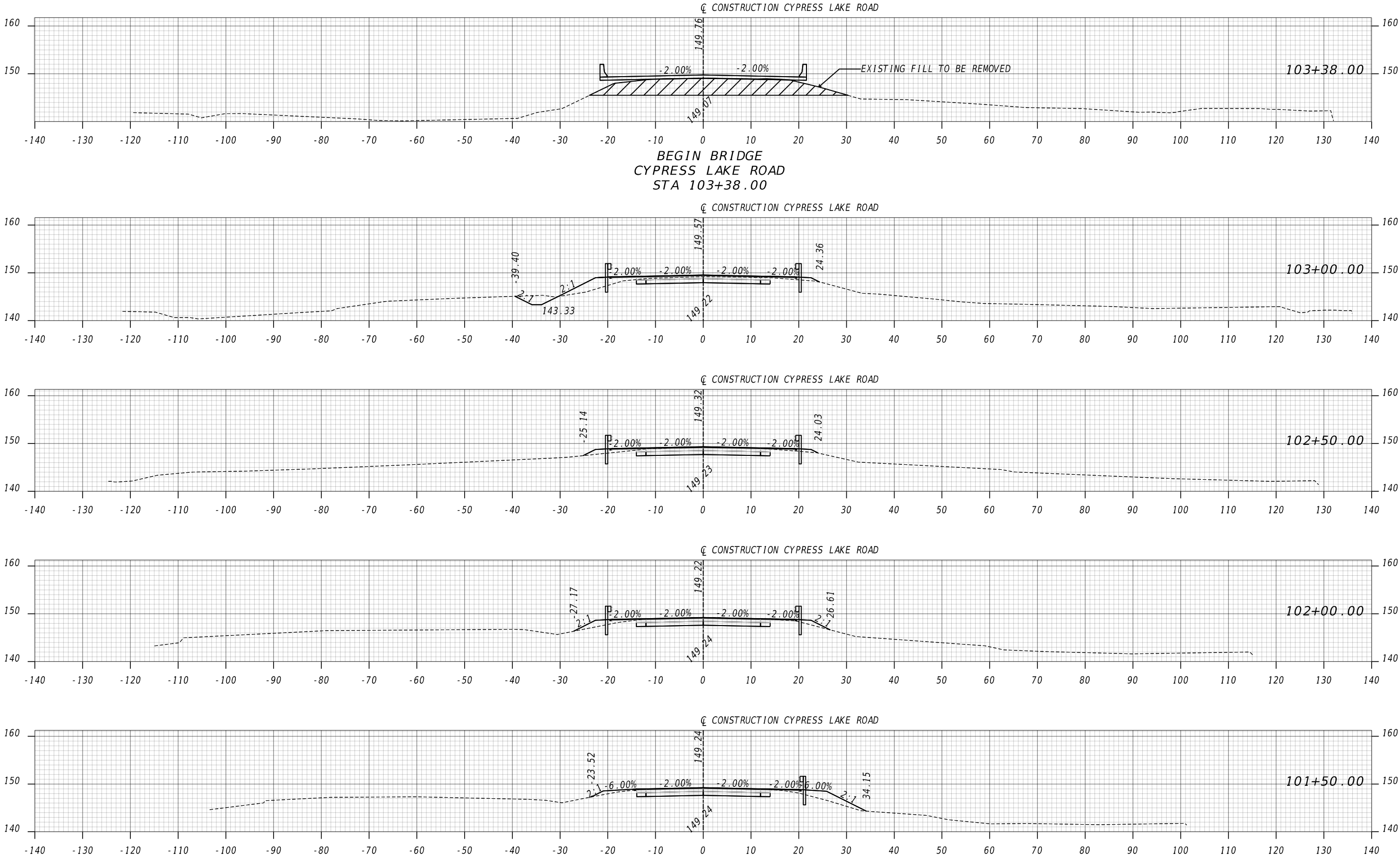
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END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

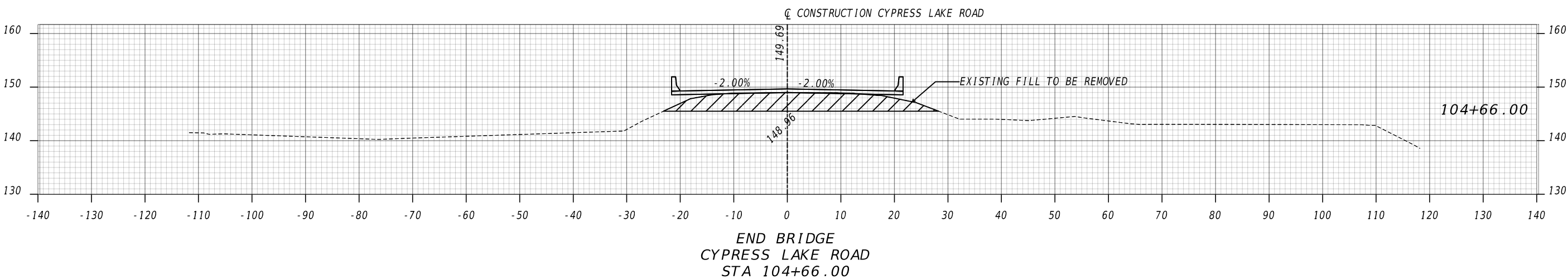
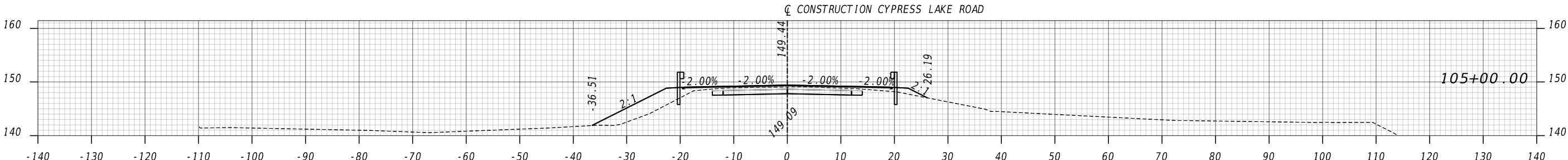
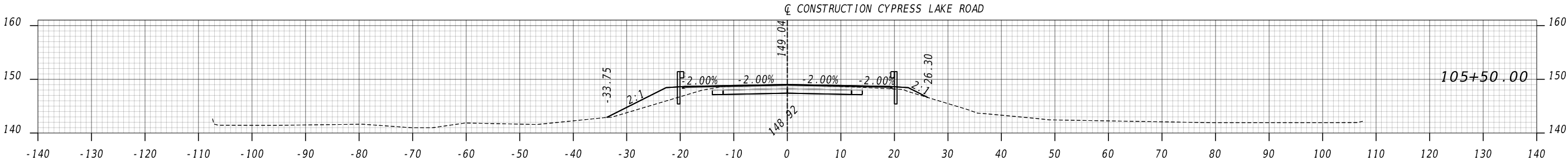
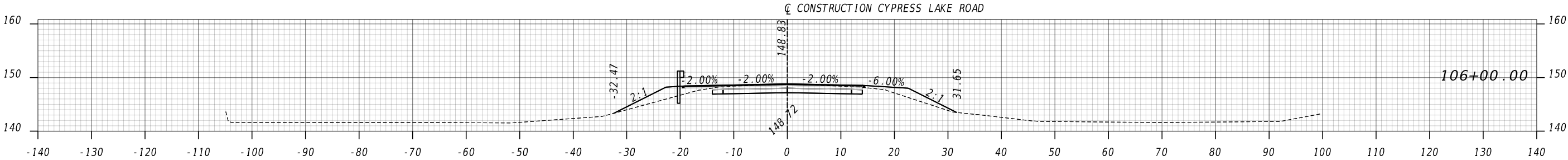


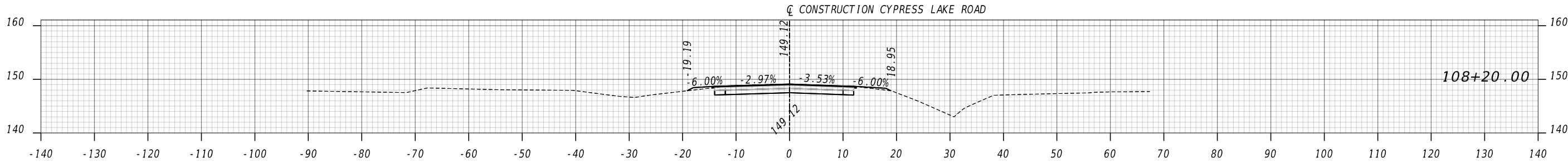
REVISION DATES		

BRIDGE CONSTRUCTION ACCESS PLANS			
CR 153 (CYPRESS LAKE RD)			
OVER DRY BRANCH, BULLOCH COUNTY			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	20-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

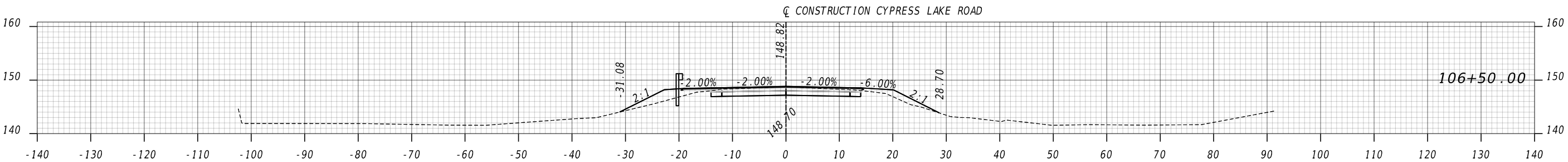
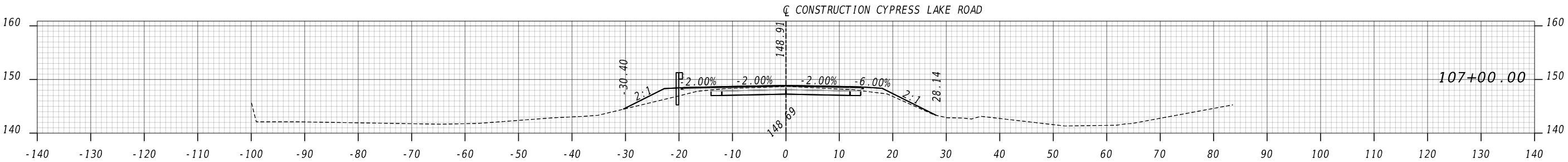
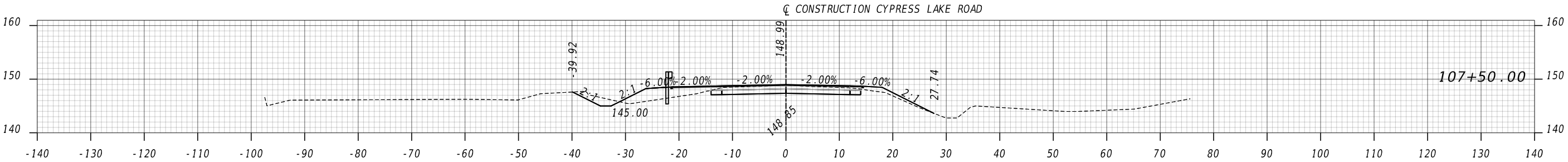
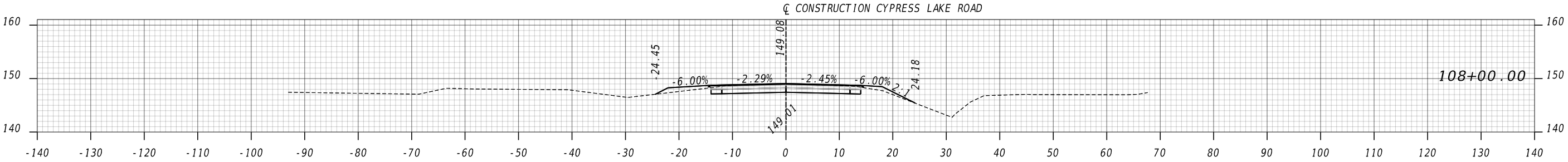




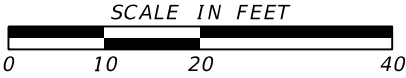




END CONSTRUCTION
END FULL DEPTH CONSTRUCTION
CYPRESS LAKE ROAD
STA 108+26.00



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REVISION DATES

EARTHWORK CROSS SECTIONS
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

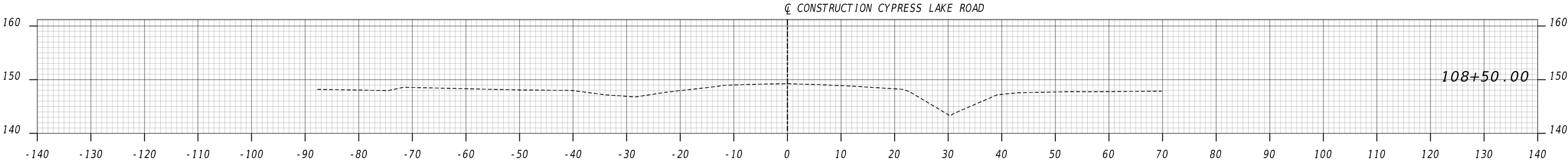
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23-0004

06E115
06E116
06E117
06E118
06E119

06E119
06E120
06E121
06E122
06E123

END PROJECT
CYPRESS LAKE ROAD
STA 110+00.00



06E115
06E116
06E117
06E118
06E119



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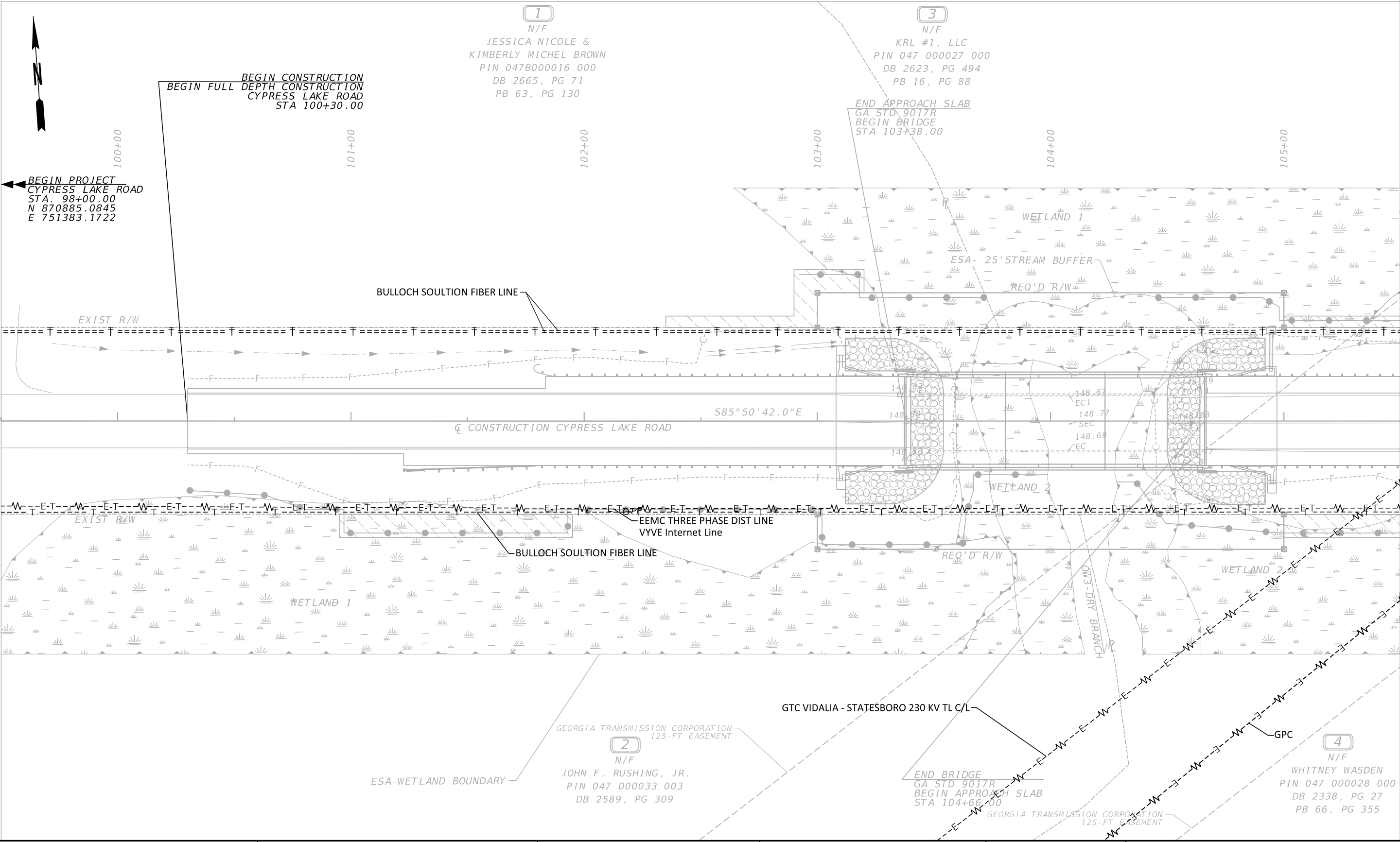
REVISION DATES

EARTHWORK CROSS SECTIONS
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

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23-0005

GPLN-CE	ARTIFIS 48000445 48000446 48000447 48000448 48000449 48000450 48000451 48000452 48000453 48000454 48000455 48000456 48000457 48000458 48000459 48000460 48000461 48000462 48000463 48000464 48000465 48000466 48000467 48000468 48000469 48000470 48000471 48000472 48000473 48000474 48000475 48000476 48000477 48000478 48000479 48000480 48000481 48000482 48000483 48000484 48000485 48000486 48000487 48000488 48000489 48000490 48000491 48000492 48000493 48000494 48000495 48000496 48000497 48000498 48000499 48000500 48000501 48000502 48000503 48000504 48000505 48000506 48000507 48000508 48000509 48000510 48000511 48000512 48000513 48000514 48000515 48000516 48000517 48000518 48000519 48000520 48000521 48000522 48000523 48000524 48000525 48000526 48000527 48000528 48000529 48000530 48000531 48000532 48000533 48000534 48000535 48000536 48000537 48000538 48000539 48000540 48000541 48000542 48000543 48000544 48000545 48000546 48000547 48000548 48000549 48000550 48000551 48000552 48000553 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48001664 48001665 48001666 48001667 48001668 48001669 48001670 48001671 48001672 48001673 48001674 48001675 48001676 48001677 48001678 48001679 48001680
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PROPERTY AND EXISTING R/W LINE

REQUIRED R/W LINE

CONSTRUCTION LIMITS

EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTR OF SLOPES

EASEMENT FOR CONSTR OF DRIVES

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BEGIN LIMIT OF ACCESS.....BLA

END LIMIT OF ACCESS.....ELA

EXISTING LIMIT OF ACCESS

REQ'D LIMIT OF ACCESS

EXISTING LIMIT OF ACCESS & R/W

REQ'D LIMIT OF ACCESS & R/W

ORANGE BARRIER FENCE

ESA - ENV. SENSITIVE AREA

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---III---

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Heath & Lineback
10 Glenlake Pkwy NE, North Tower, Suite 800
Sandy Springs, Georgia 30328
770.424.1668

SCALE IN FEET

REVISION DATES

UTILITY PLANS
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED: DATE:

BACKCHECKED: DATE:

CORRECTED: DATE:

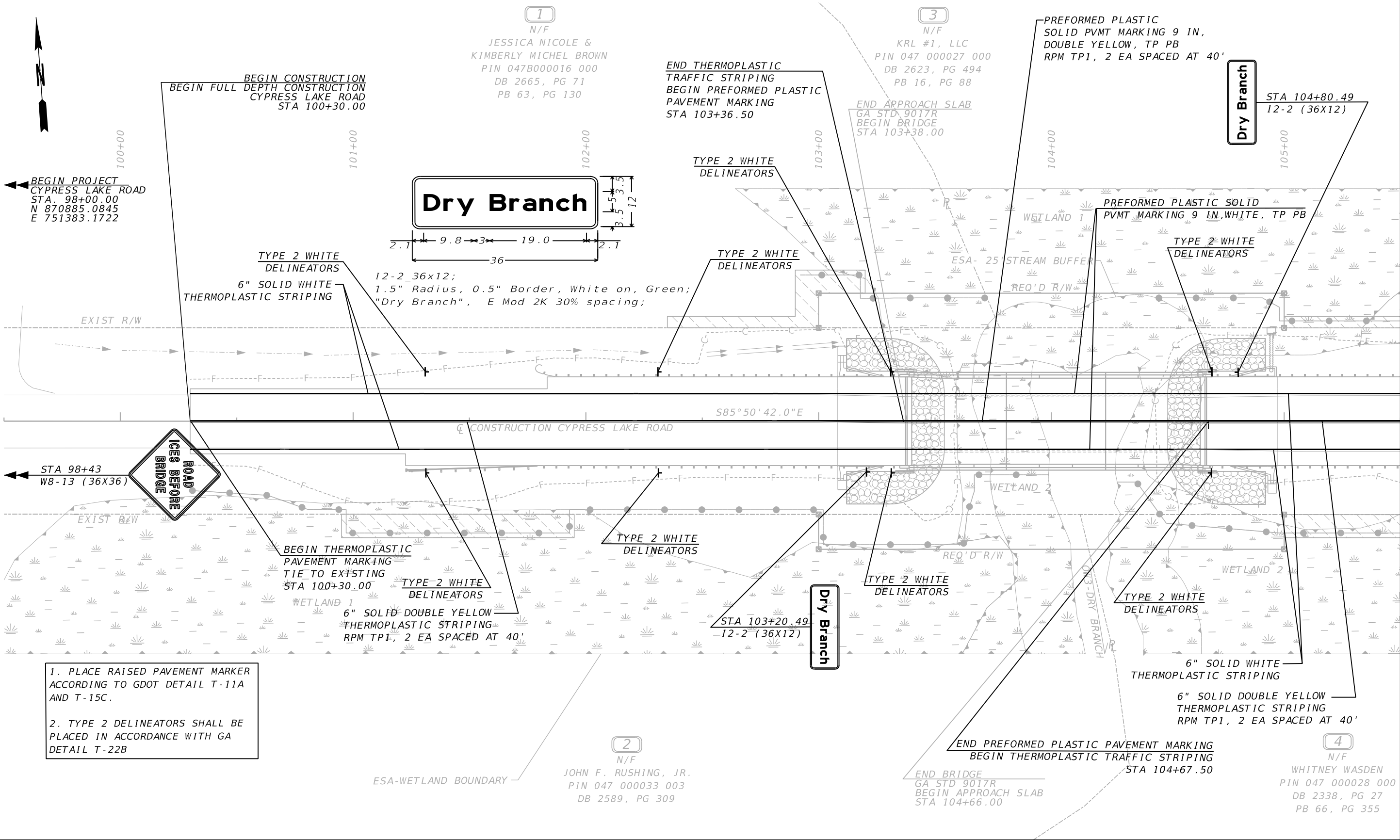
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DRAWING No.

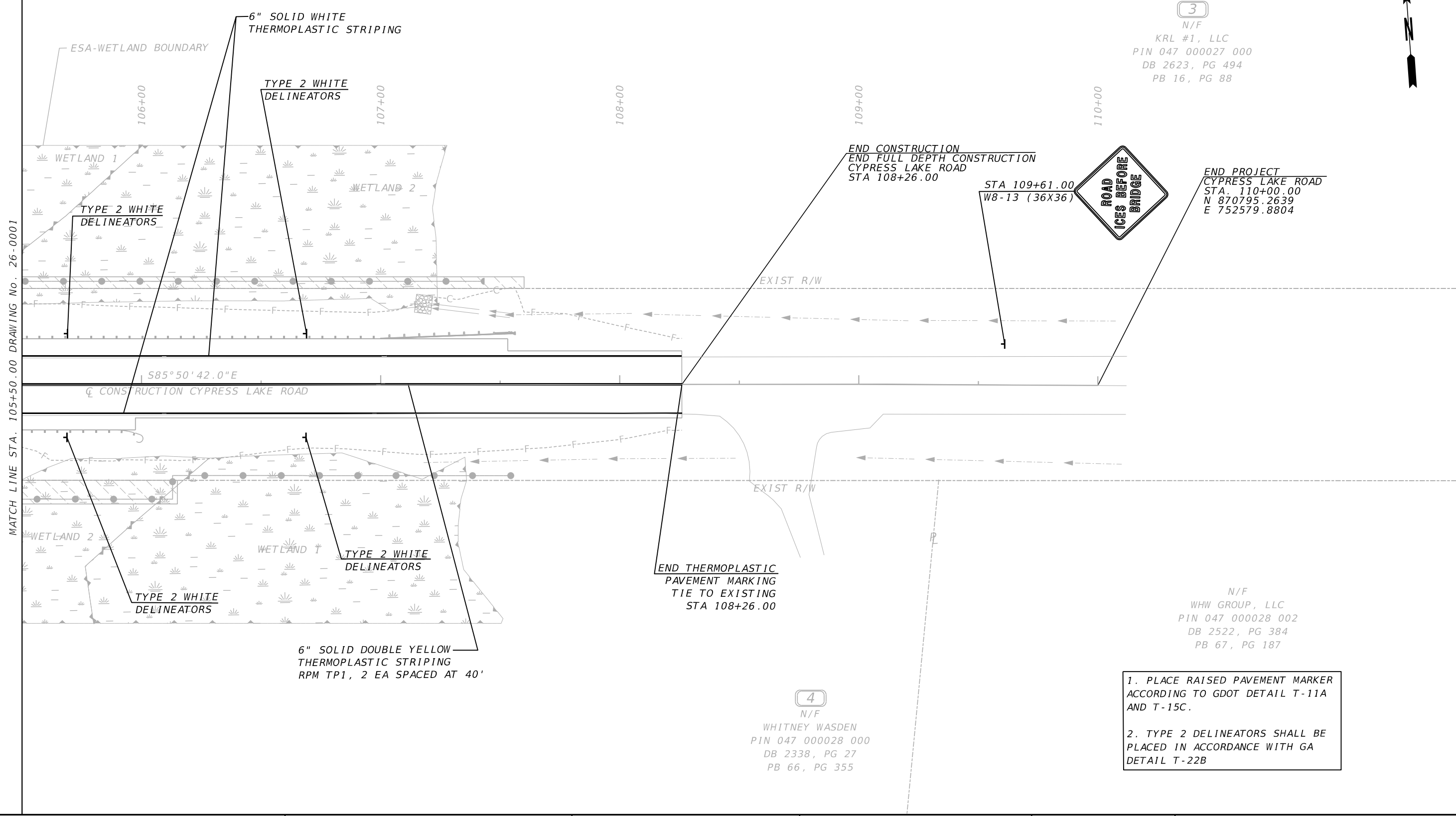
24-0001



GPLN-CE



PROPERTY AND EXISTING R/W LINE REQUIRED R/W LINE CONSTRUCTION LIMITS EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES EASEMENT FOR CONSTR OF SLOPES EASEMENT FOR CONSTR OF DRIVES	-----E----- ---C---F---	BEGIN LIMIT OF ACCESS.....BLA END LIMIT OF ACCESS.....ELA EXISTING LIMIT OF ACCESS REQ'D LIMIT OF ACCESS EXISTING LIMIT OF ACCESS & R/W REQ'D LIMIT OF ACCESS & R/W ORANGE BARRIER FENCE ESA - ENV. SENSITIVE AREA			SCALE IN FEET 0 20 40 80	REVISION DATES			SIGNING AND MARKING PLANS CYPRESS LAKE ROAD AT DRY BRANCH BRIDGE REPLACEMENT			
							CHECKED:		DATE:		DRAWING No.	
							BACKCHECKED:		DATE:		26-0001	
							CORRECTED:		DATE:			
							VERIFIED:		DATE:			



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

-----E-----

-----C-----

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

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770.424.1668

SCALE IN FEET

REVISION DATES

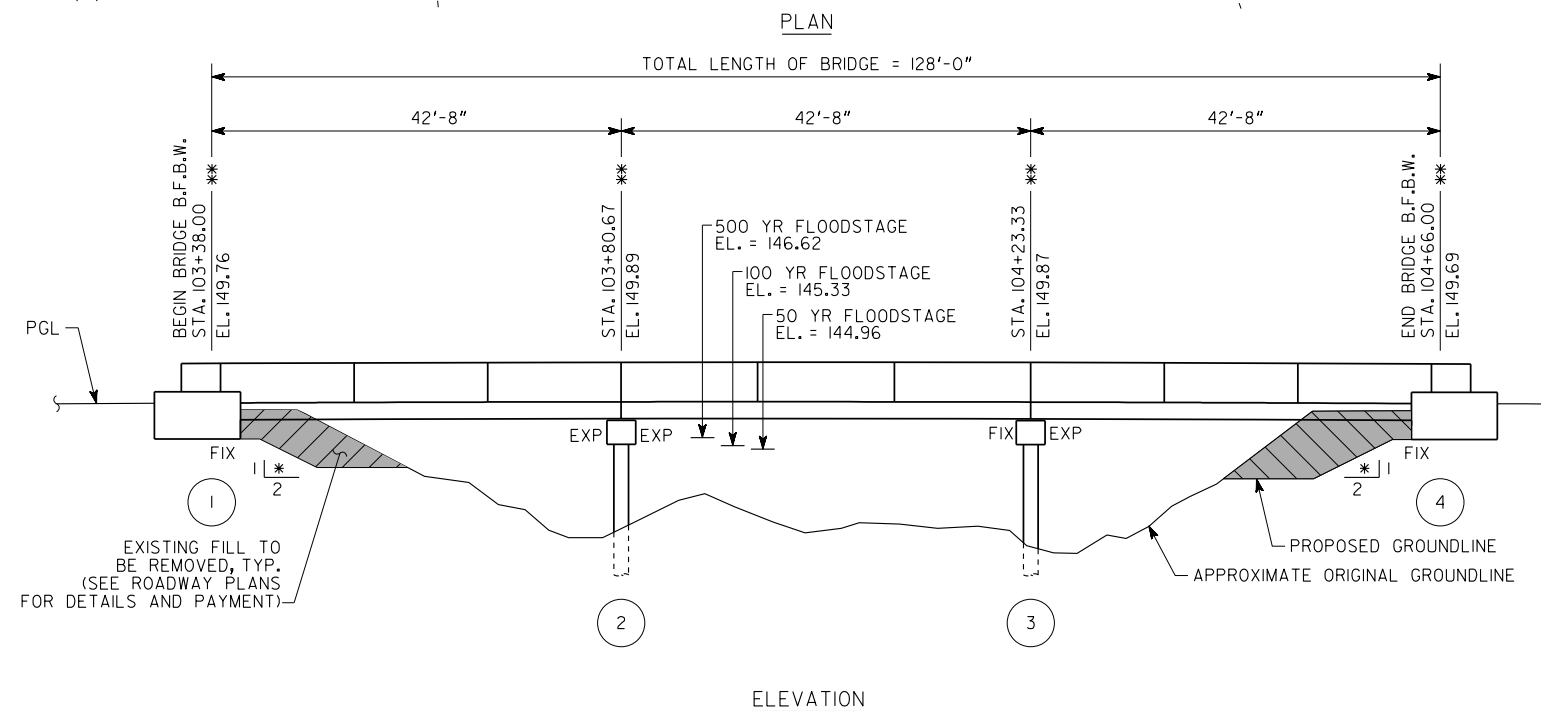
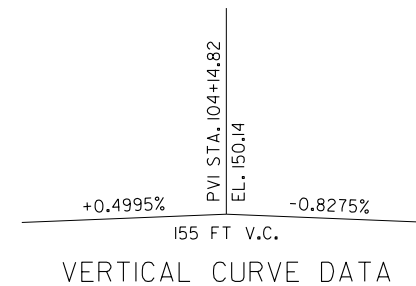
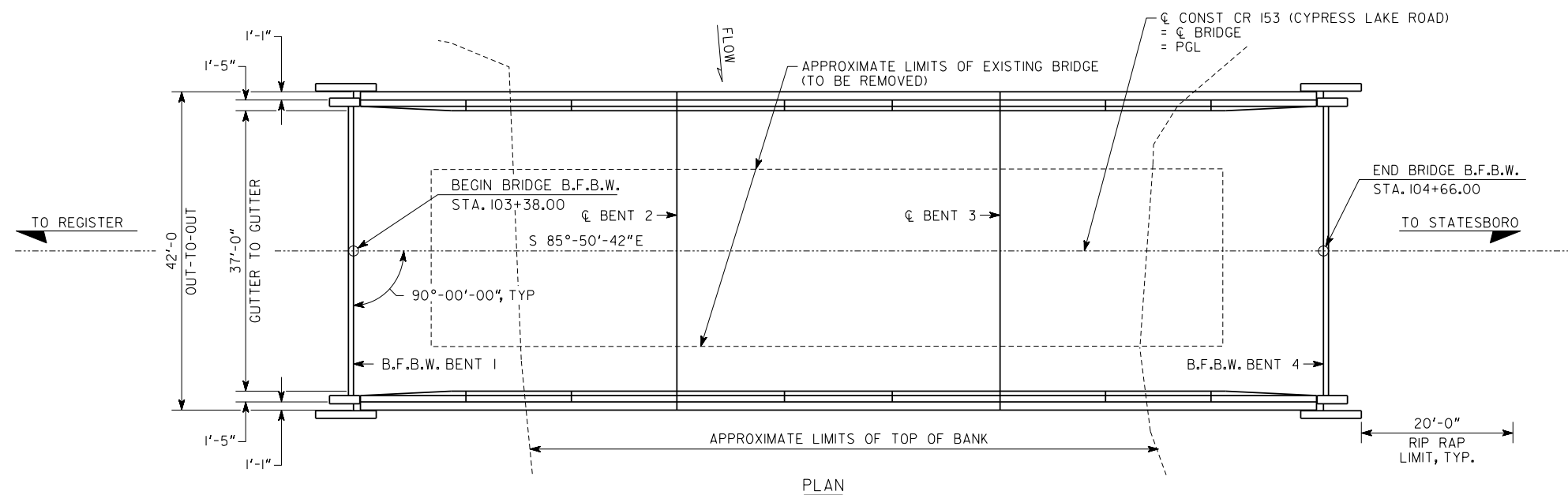
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SIGNING AND MARKING PLANS
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:
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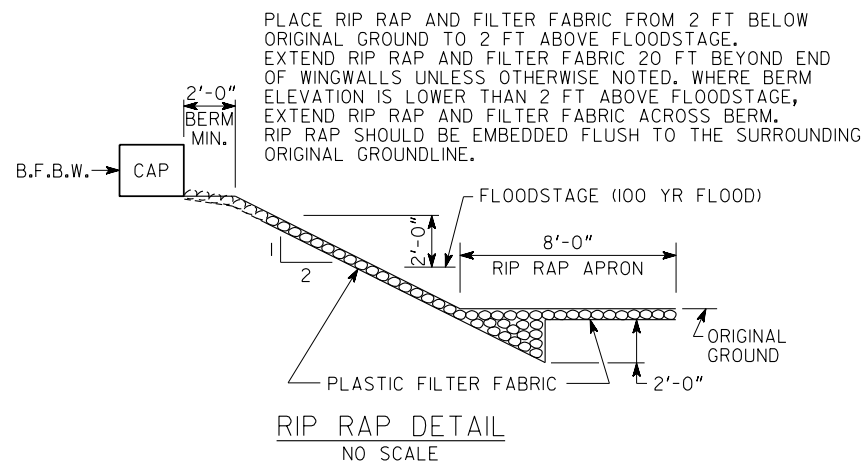
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DRAWING No.
26-0002



NOTES

1. ALL BENTS ARE PARALLEL TO BENT 1.
2. END BENT PILES NOT SHOWN.
- * 3. SLOPE NORMAL TO END BENT.
- ** 4. STATIONS AND ELEVATIONS ARE ALONG PROFILE GRADE LINE AT THE INTERSECTION OF PROFILE GRADE LINE AND B.F.B.W. OR CENTERLINE BENT.



BRIDGE SERIAL NO. 03I-5009-0
BRIDGE I.D. NO. 03I-00I53X-00I.54W

BRIDGE NO. 1



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Sandy Springs, Georgia 30328
770.424.1668

BULLOCH COUNTY
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION
CR 153 (CYPRESS LAKE ROAD)
OVER DRY BRANCH

BULLOCH COUNTY E-15

SCALE: 1" = 10'-0", UNLESS OTHERWISE NOTED APRIL 2026

BY	REVISIONS	DATE

DRAWING NO. 35-0001
BRIDGE SHEET 1 OF 11

DESIGNED <u>ET/FRB</u>	CHECKED <u>TBS/MS</u>	REVIEWED _____
DRAWN <u>AC/ET</u>	DESIGN GROUP _____	APPROVED _____

BRIDGE CONSISTS OF

- 3 - 42'-8", 21 IN, PSC CORED SLAB BEAM SPANS ----- SPECIAL DESIGN
- 2 - METAL SHELL PILE END BENTS ----- SPECIAL DESIGN
- 2 - METAL SHELL PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 2054 (9-30-02)
(L = 4'-0"; W = 1'-1"; H = 3'-0")
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

DRAINAGE DATA

DRAINAGE AREA ----- 15.6 SQ MILES				
FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	1900 CFS	4.70 FPS	404 SQ FT	0.84 FT
100 YEAR	2300 CFS	5.29 FPS	435 SQ FT	1.00 FT
500 YEAR	3300 CFS	6.89 FPS	483 SQ FT	1.32 FT

TRAFFIC DATA

- TRAFFIC ----- ADT = 3,626 (2026)
ADT = 4,007 (2046)
- DESIGN SPEED ----- 55 MPH
- TRUCKS ----- 8%

GENERAL NOTES

- SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2021 EDITION, AND 2024 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.
- REINFORCING STEEL -PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. MAINTAIN 2 INCH MINIMUM CLEARANCE ON ALL REINFORCEMENT UNLESS OTHERWISE NOTED.
- CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.
- TRAFFIC CONTROLS - ROAD TO BE CLOSED DURING BRIDGE CONSTRUCTION. SEE ROADWAY PLANS FOR DETOUR, TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.
- EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS ARE NOT AVAILABLE.
- WAITING PERIOD - NONE REQUIRED.
- PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.
- DRIVING RESISTANCE - DETERMINE DRIVING RESISTANCE FOR PILES USING DYNAMIC PILE TESTING IN ACCORDANCE WITH SUB-SECTION 520.3.05.D.2 OF THE GEORGIA DOT SPECIFICATIONS. DYNAMIC PILE TESTING SHALL BE REQUIRED FOR BENT 1 RIGHT, BENT 2 LEFT AND BENT 3 RIGHT.
- DYNAMIC PILE TESTING - PERFORM PILE TESTING USING THE PILE DRIVING ANALYZER (PDA) IN ACCORDANCE WITH SPECIAL PROVISION SECTION 523. NOTIFY BULLOCH COUNTY TWO WEEKS PRIOR TO DRIVING PILES. SUBMIT ALL FILES REQUIRED BY SPECIAL PROVISION 523 TO BULLOCH COUNTY FOR REVIEW AND APPROVAL.
- WAVE EQUATION - PERFORM WAVE EQUATION ANALYSIS (WEAP) IN ACCORDANCE WITH SUB-SECTION 520.3.05.D.2 OF THE GEORGIA DOT SPECIFICATIONS. PROVIDE RESULTS OF THE WEAP TO BULLOCH COUNTY FOR REVIEW AND APPROVAL TWO WEEKS PRIOR TO DRIVING PILES.

GENERAL NOTES (CONT'D)

- PILE LENGTHS - ERRATIC PILE LENGTHS CAN BE EXPECTED.
- PILE DRIVING - SHOULD PILES FAIL TO OBTAIN DRIVING RESISTANCE AFTER ACHIEVING THE PILE TIP ELEVATIONS SHOWN, ALLOW PILES TO FREEZE A MINIMUM OF 24 HOURS AND RESTRIKE WITH A WARM HAMMER.
- | | |
|-------------|--------------------|
| BENT NUMBER | PILE TIP ELEVATION |
| 1 | 103.00 |
| 2 | 103.00 |
| 3 | 103.00 |
| 4 | 103.00 |
- PILE CLOSURE PLATE DETAIL - USE CLOSURE PLATE OPTION 1 AT THIS SITE IN ACCORDANCE WITH SUB-SECTION 520.3.05.M OF THE GEORGIA DOT SPECIFICATIONS. SPECIFICATIONS.
- SPECIAL PROTECTIVE COATING - CLEAN AND PAINT PILES AND SWAYBRACING WITH SPECIAL PROTECTIVE COATING NO. 2P IN ACCORDANCE WITH SECTIONS 520 AND 535 OF THE GEORGIA DOT SPECIFICATIONS. EXTEND COATING FROM TOP OF PILE TO 2FT BELOW GROUND FOR END BENT PILING. EXTEND COATING FROM BOTTOM OF CAP OR PEDESTAL FOOTING TO 5FT BELOW GROUND FOR INTERMEDIATE BENT PILING, REGARDLESS OF ENCASEMENT.
- METAL SHELL PILES- USE A MINIMUM SHELL THICKNESS OF 5/16" FOR PILES HAVING AN OUTSIDE DIAMETER OF 18" AND 1/2" FOR PILES HAVING AN OUTSIDE DIAMETER OF 24". USE THESE SHELL THICKNESSES IN LIEU OF THOSE CALLED FOR IN SUB-SECTION 520.3.05.M AND SUB-SECTION 855.2.01.A.1 OF THE GEORGIA DOT SPECIFICATIONS.
- SMOOTH DOWEL BARS - PLACE DOWELS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.
- WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY GDOT CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND TESTING USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.
- BRIDGE REMOVAL - REMOVE EXISTING BRIDGE AS PER SUB-SECTION 540.3.05 OF THE GEORGIA DOT SPECIFICATIONS.
- SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY BULLOCH COUNTY.
- JOINTS IN OVERLAY - WITHIN 24 HOURS AFTER OVERLAY IS PLACED MAKE A 1/2 INCH WIDE BY 3/4 INCH DEEP SAW CUT OVER EACH EXPANSION JOINT LOCATION AND SEAL WITH RUBBERIZED ASPHALT IN ACCORDANCE WITH SECTION 407 OF THE GEORGIA DOT SPECIFICATIONS. INCLUDE COST OF RUBBERIZED ASPHALT IN THE OVERALL BID SUBMITTED.
- WATERPROOFING MEMBRANE -INSTALL APPROVED BRIDGE DECK WATERPROOFING MEMBRANE IN ACCORDANCE WITH SECTION 533 OF THE GEORGIA DOT SPECIFICATIONS AND THE MANUFACTURER'S RECOMMENDATIONS. TURN MEMBRANE 4 INCHES UP AT FACE OF EACH BARRIER AND EXTEND MEMBRANE 18 INCHES PAST BEGINNING AND END OF BRIDGE. SEE QPL-22 FOR APPROVED WATERPROOFING MATERIALS.
- GROUT - FILL ALL SHEAR KEYS AND ANCHOR HOLES WITH 5,000 PSI 3 DAY STRENGTH GROUT AS PER SECTION 506 OF THE GEORGIA DOT SPECIFICATIONS. CURE GROUT A MINIMUM OF 5 DAYS BEFORE CASTING CONCRETE BARRIERS. IN LIEU OF MIXING MORTAR ON SITE, PRE-MIXED BAG MORTAR MEETING THE REQUIREMENTS IN SECTION 506 MAY BE USED.PREPACKAGED MATERIAL MUST BE AN APPROVED NON-SHRINK GROUT. INCLUDE COST OF GROUT IN THE PRICE BID FOR "PSC CORED SLAB BEAMS."
- SHOP DRWAING SUBMISSION - SUBMIT SHOP DRAWINGS WITH DEPENDENT INFORMATION AS A SET.
- INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF ELASTOMERIC BEARING PADS, WATERPROOFING, JOINT FILLERS AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

DESIGN DATA

- SPECIFICATIONS ----- AASHTO LRFD 9TH EDITION, 2020
(DESIGNED FOR SEISMIC PERFORMANCE ZONE 2, AS = 0.203, SD1 = 0.214)
- DESIGN VEHICLE LIVE LOAD ----- HL-93
- FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT
- CONCRETE: BARRIER ----- CLASS D, f'_c = 4,000 PSI
PSC BEAMS ----- CLASS AAA, f'_c = 6,500 PSI
PSC BEAM ALLOWABLE TENSION ----- 484 PSI
SUBSTRUCTURE ----- CLASS A, f'_c = 3,000 PSI
- REINFORCEMENT STEEL: ----- GRADE 60, f_y = 60,000 PSI
- PRETENSIONING STRANDS: ----- f'_s = 270,000 PSI
- METAL SHELL PILES: ----- GRADE 3, f_y = 45,000 PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
500-2100	252	LF	CONCRETE BARRIER
500-3101	68	CY	CLASS A CONCRETE
507-1021	1764	LF	PSC CORED SLAB BEAMS, 21 IN, BR NO - 1
511-1000	9588	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (4308)
520-1318	543	LF	PILING, METAL SHELL, 18 IN OD
520-1324	539	LF	PILING, METAL SHELL, 24 IN OD
520-4318	1	EA	LOAD TEST, METAL SHELL, 18 IN OD (IF REQD)
520-4324	1	EA	LOAD TEST, METAL SHELL, 24 IN OD (IF REQD)
523-1100	3	EA	DYNAMIC PILE TEST
533-0010	541	SY	BRIDGE DECK WATERPROOFING MEMBRANE, METHOD A
540-1102	LUMP	LS	REMOVAL OF EXISTING BR, BR NO - 1
603-2018	516	SY	STN DUMPED RIP RAP, TP 1, 18 IN
603-7000	516	SY	PLASTIC FILTER FABRIC

BRIDGE NO.1

DRAWING NO.
35-0002

BRIDGE SHEET
2 OF 11

DATE

REVISIONS

BY



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BULLOCH COUNTY
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
CR 153 (CYPRESS LAKE ROAD)
OVER DRY BRANCH
BULLOCH COUNTY

NO SCALE

APRIL 2026

DESIGNED ET/FRB
DRAWN AC/ET

CHECKED TBS/MS
DESIGN GROUP

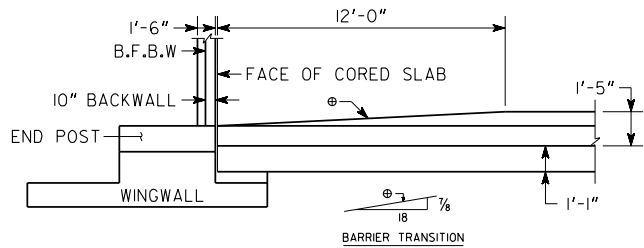
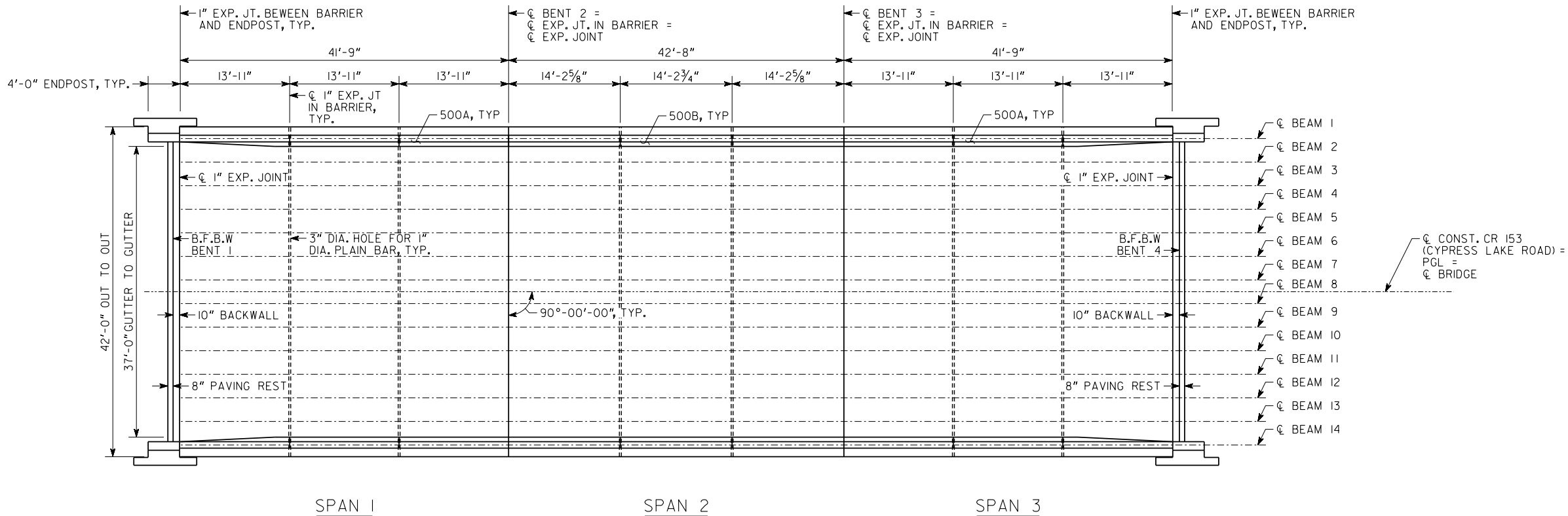
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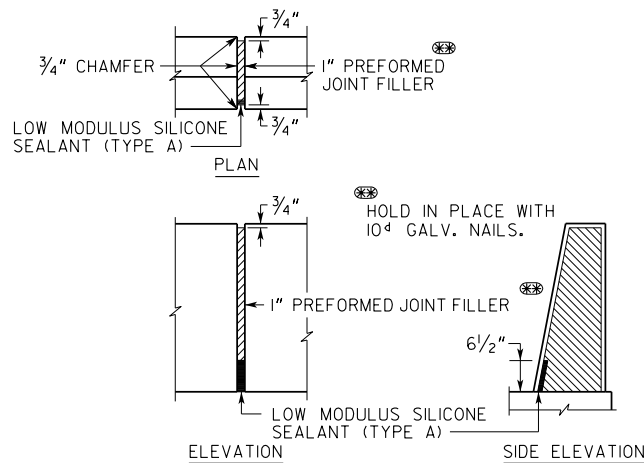
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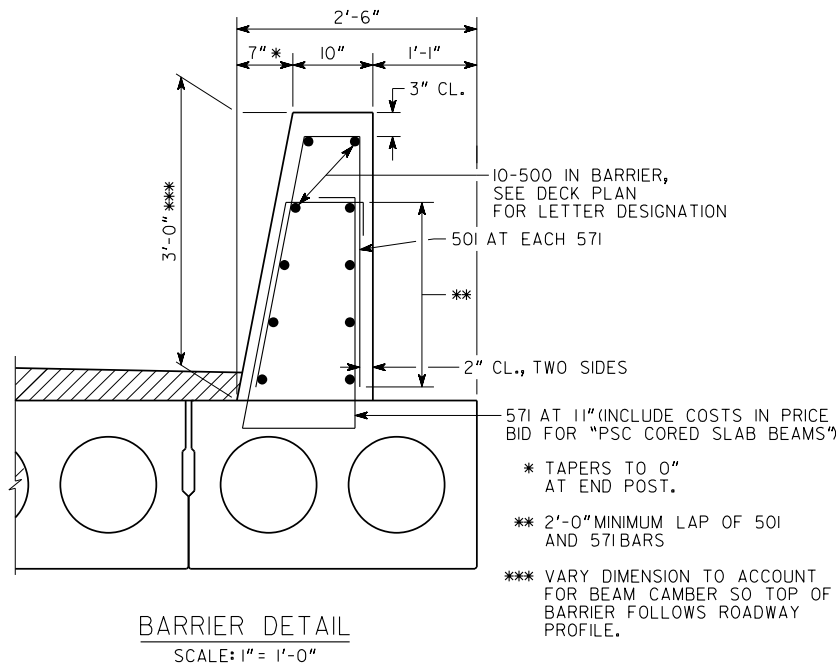


BARRIER TRANSITION DETAIL
SCALE: 1/4" = 1'-0"



DETAILS OF 1" EXPANSION JOINT IN BARRIER
SCALE: 1/2" = 1'-0"

SUPERSTRUCTURE QUANTITIES				
ITEM	SPAN 1	SPAN 2	SPAN 3	TOTAL
LUMP - LB SUPERSTR REINF STEEL	1429	1450	1429	4308



BARRIER DETAIL
SCALE: 1" = 1'-0"

NOTES

- SEE CORED SLAB BEAM DETAILS SHEET FOR LOCATIONS OF HOLES FOR 1" DIA. PLAIN BARS.
- CAST BARRIER AFTER ALL KEYS HAVE BEEN FILLED WITH MORTAR FOR A MINIMUM OF 5 DAYS.
- BARRIER EXPANSION JOINTS MAY BE SHIFTED SLIGHTLY TO AVOID 57I BARS CAST IN BEAMS.

BRIDGE NO. 1



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BULLOCH COUNTY
DEPARTMENT OF TRANSPORTATION

DECK PLAN
CR 153 (CYPRESS LAKE ROAD)
OVER DRY BRANCH
BULLOCH COUNTY

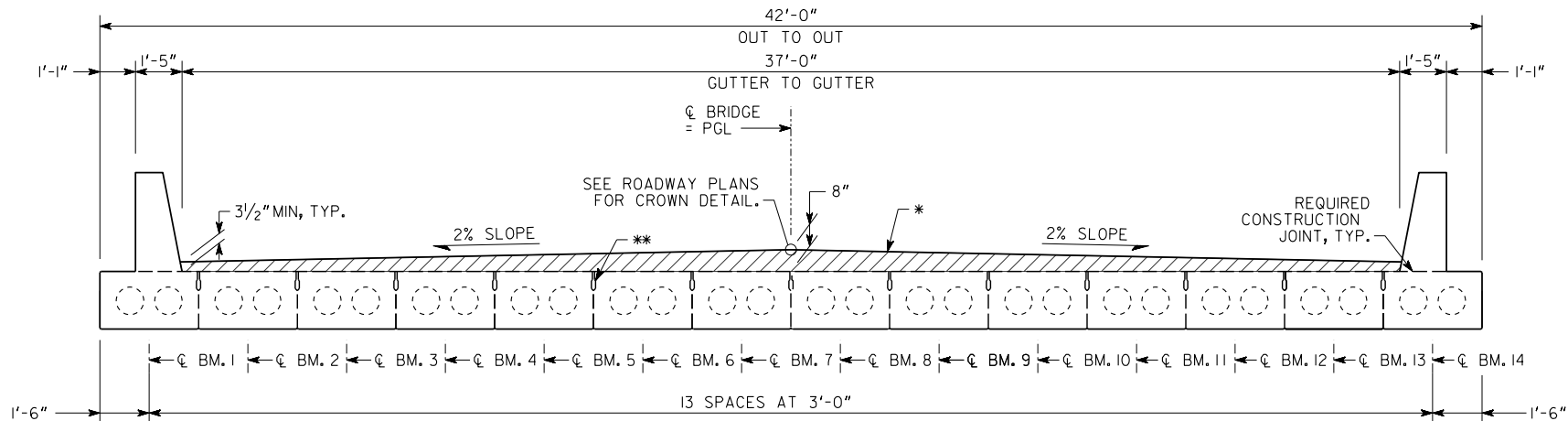
E-15

SCALE: 1/8" = 1'-0", UNLESS OTHERWISE NOTED

APRIL 2026

DRAWING NO.
35-0003
BRIDGE SHEET
3 OF 11

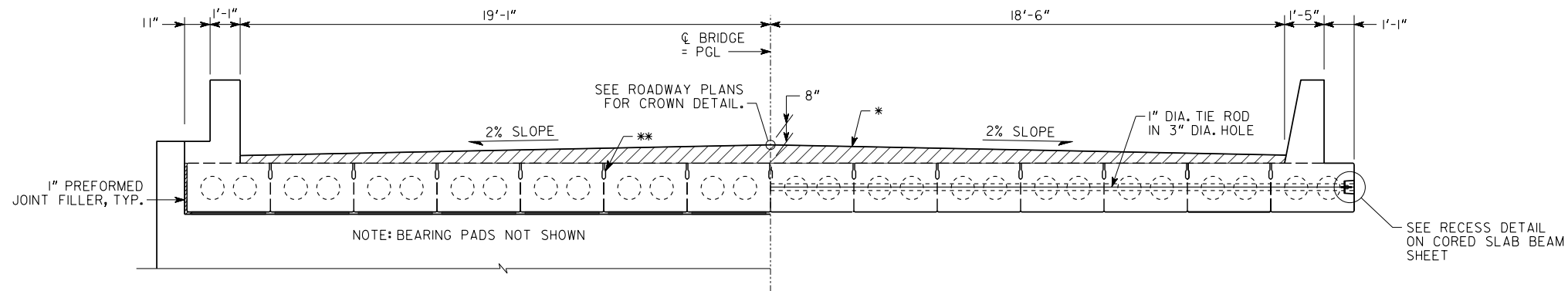
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DECK SECTION

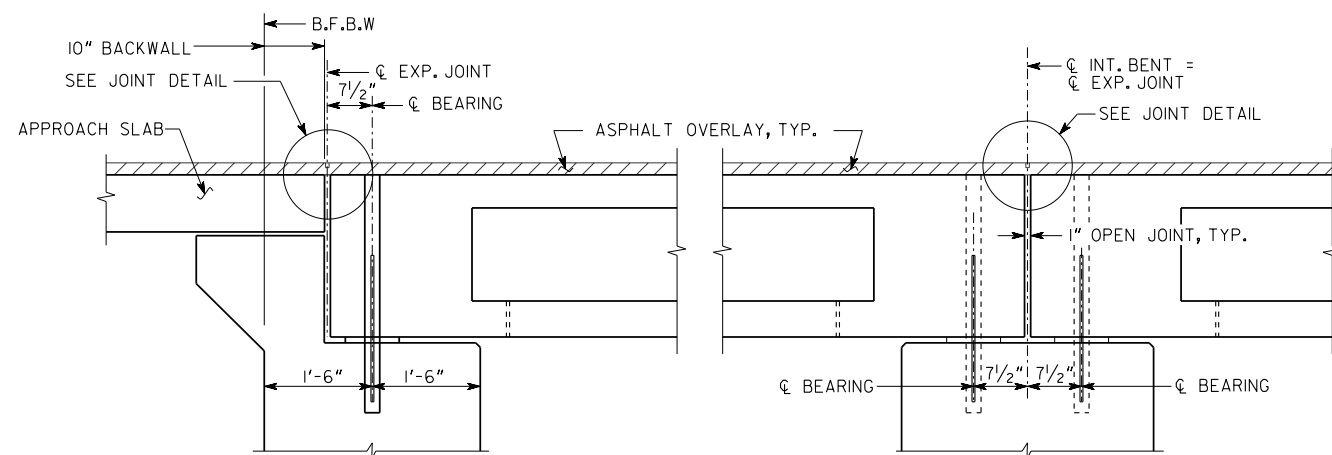
NOTES:

- * 1. ASPHALT OVERLAY, SEE ROADWAY PLANS FOR DETAILS AND PAYMENT.
- ** 2. SHEAR KEYS TO BE FILLED WITH NON-SHRINK GROUT AFTER ALL ERECTION HAS BEEN COMPLETED AND AFTER SNUGGING OF NUTS OF TRANSVERSE TIE RODS. FILL ALL KEYS FULL AND CONTINUOUS AS PER STANDARD SPECIFICATION 506. INCLUDE COST OF MATERIALS AND WORK IN PRICE BID FOR "PSC CORED SLAB BEAMS".
- 3. CONTRACTOR SHALL COORDINATE WITH BEAM MANUFACTURER TO ENSURE FORMED HOLES ARE PROVIDED AND PROPERLY LOCATED.
- ⊛ 4. JOINT SHALL BE 1 INCH MINIMUM AND SHALL BE UNIFORM ACROSS.



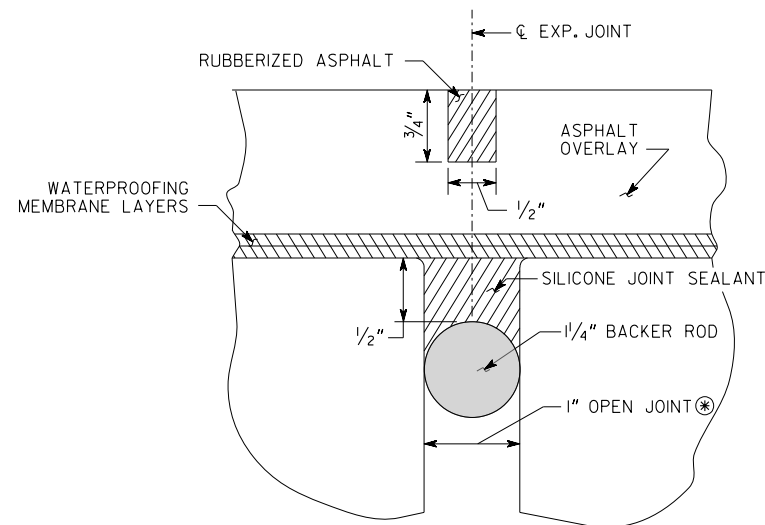
PARTIAL SECTION THRU END BENT
BENT 1 SHOWN, BENT 4 SIMILAR

PARTIAL SECTION AT DIAPHRAGM



SECTION AT END BENT
SCALE: 3/4" = 1'-0"

SECTION AT INTERMEDIATE BENT
SCALE: 3/4" = 1'-0"



JOINT DETAIL
NO SCALE

BRIDGE NO. 1



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BULLOCH COUNTY
DEPARTMENT OF TRANSPORTATION

DECK SECTIONS
CR 153 (CYPRESS LAKE ROAD)
OVER DRY BRANCH
BULLOCH COUNTY

E-15

SCALE: 3/8" = 1'-0", UNLESS OTHERWISE NOTED

APRIL 2026

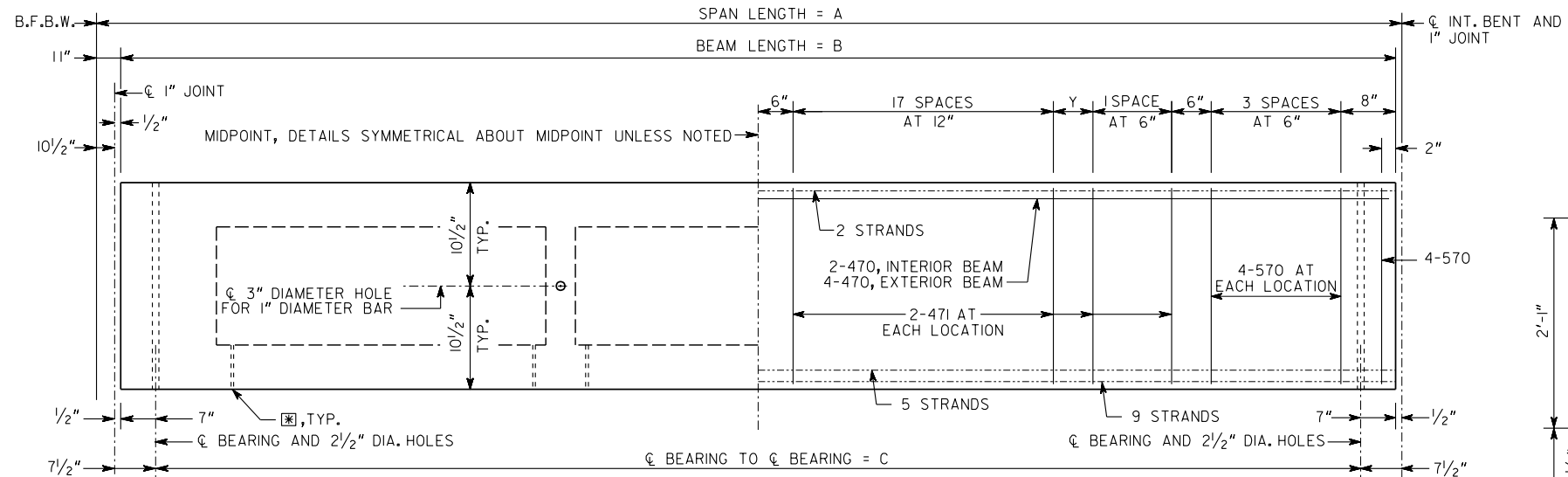
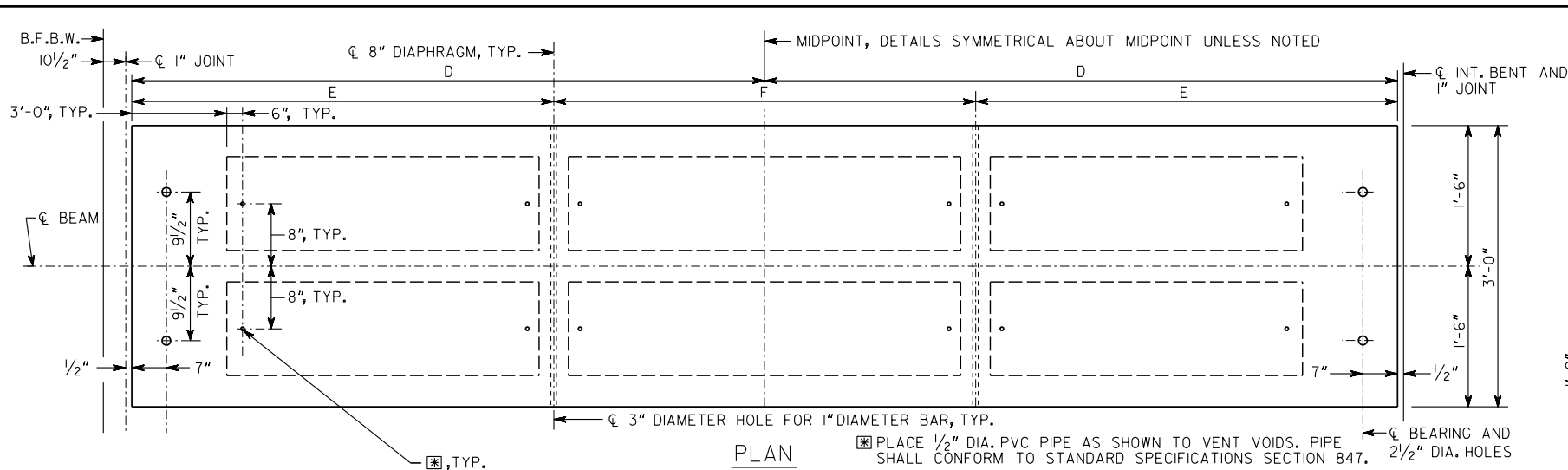
DRAWING NO.
35-0004

BRIDGE SHEET
4 OF 11

DESIGNED ET/FRB
DRAWN AC/ET

CHECKED TBS/MS
DESIGN GROUP

REVIEWED
APPROVED



- I. BEAMS SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES AND SHALL BE PICKED UP WITHIN 2'-8" FROM THEIR ENDS. DISREGARDING THIS REQUIREMENT COULD LEAD TO COLLAPSE OF THE BEAM. PICK-UPS SHALL BE EMBEDDED TO WITHIN 4" OF THE BOTTOM OF THE BEAM. DETAILS OF PICK-UPS SHALL BE INCLUDED IN THE SHOP DRAWINGS.

2. CHAMFER EDGES OF BEAMS $\frac{1}{2}$ " OR $\frac{3}{4}$ ".

3. HORIZONTAL DIMENSIONS ARE IN PLACE DIMENSIONS. THE BEAM LENGTH INCLUDES THE $\frac{1}{8}$ " EPOXY MORTAR AT EACH END. SHOP DRAWINGS SHALL ADJUST HORIZONTAL DIMENSIONS FOR GRADE AND FABRICATION EFFECTS SUCH AS SHRINKAGE AND ELASTIC SHORTENING.

4. AT C BEARING, FORM $2\frac{1}{2}"$ DIAMETER X $2\frac{1}{2}"$ DEEP HOLES FOR A $1"$ DIAMETER SMOOTH DOWEL. THE C FOR THE HOLES ARE $9\frac{1}{2}"$ ON EACH SIDE OF C BEAM AS SHOWN.

5. TOPS OF BEAMS SHALL RECEIVE BROOM FINISH AT APPROXIMATELY THE TIME OF INITIAL SET. ENTIRE TOP SHALL BE SCRUBBED TRANSVERSELY WITH A COARSE BRUSH TO REMOVE ALL LAITANCE. CONCRETE FINS OR PROJECTIONS SHALL BE REMOVED TO PRODUCE A VERTICAL FACE AT THE EDGE OF THE BEAM.

6. STRANDS SHALL MEET ALL REQUIREMENTS OF ASTM A 416 GRADE 270.

7. PRESTRESSING DATA IS AS FOLLOWS:

- A. USE 16 - 0.6" DIAMETER LOW-RELAXATION (A = 0.217 SQ IN) STRANDS.
PRETENSION STRANDS TO 43,943 LBS EACH.
- B. PRETENSIONED STRANDS SHALL BE RELEASED AFTER THE CONCRETE HAS REACHED
A MINIMUM STRENGTH (f'_c) OF 5,000 PSI.
- C. THE TOTAL JACKING FORCE OF PRETENSIONING IS 703,088 LBS.
- D. THE NET PRESTRESSING FORCE OF THE STRANDS AFTER ALL LOSSES IS 601,211LBS.

- B. PRETENSIONED STRANDS SHALL BE RELEASED AFTER THE CONCRETE HAS REACHED A MINIMUM STRENGTH (f'_c) OF 5,000 PSI.

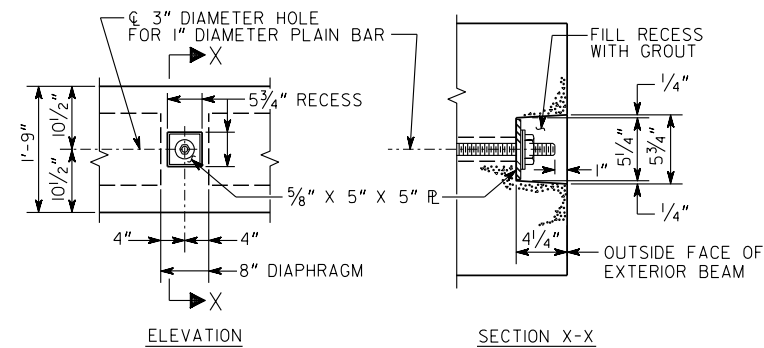
- C. THE TOTAL JACKING FORCE OF PRETENSIONING IS 703,088 LBS.

- D. THE NET PRESTRESSING FORCE OF THE STRANDS AFTER ALL LOSSES IS 601,211 LBS.

8. CONCRETE STRENGTH (f'_c) = 6,500 PSI.

9. ALLOWABLE TENSION = 484 PSI.

10. IN EACH SPAN, SET THE MIDDLE BEAM OR ONE OF THE TWO MIDDLE BEAMS FIRST. SET THE REMAINING BEAMS ADJACENT TO IN-PLACE BEAMS, WORKING TOWARD THE OUTSIDE OF THE BRIDGE.

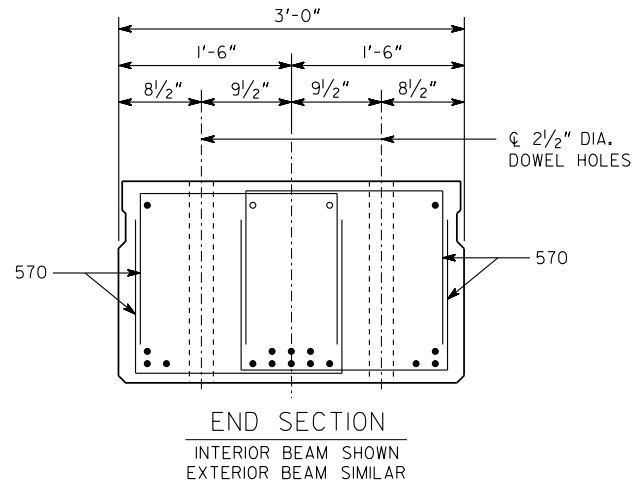
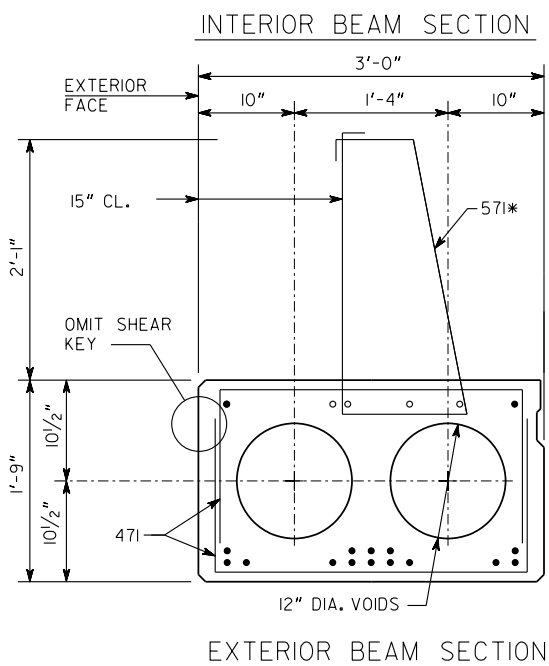
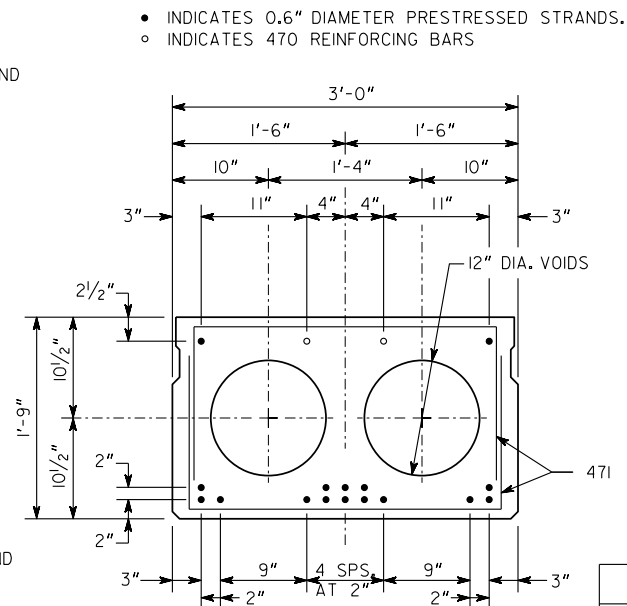


DIAPHRAGM ROD SHALL BE A 1" DIAMETER PLAIN BAR CONFORMING TO ASTM A449, THREADED 5" ON EACH END, WITH 1/4" X 3" DIAMETER WASHERS (ASTM F436) AND HEX NUTS (ASTM A563). DIAPHRAGM ROD SHALL BE TIGHTENED TO PROVIDE A MINIMUM TENSION FORCE OF 42 KIPS. VERIFY TENSION FORCE BY USE OF DIRECT TENSION INDICATING (DTI) WASHER CONFORMING TO ASTM F959. SECURE ROD TO PREVENT TURNING DURING TENSIONING.

AFTER EXCESS DIAPHRAGM ROD HAS BEEN CUT OFF, END OF DIAPHRAGM ROD, WASHER, AND NUT EXPOSED IN RECESS SHALL BE PAINTED WITH SPECIAL PROTECTIVE COATING NO. 2 P AS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS. AFTER PAINTING, THE RECESS SHALL BE FILLED WITH AN APPROVED EPOXY GROUT.

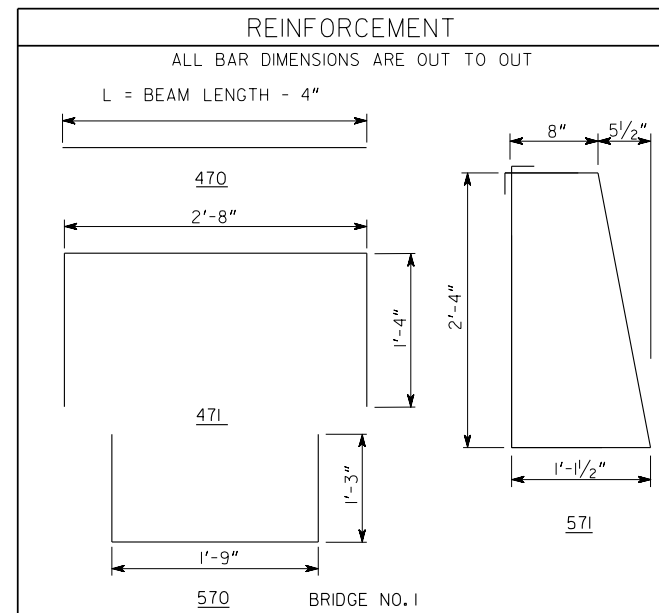
GALVANIZING OF DIAPHRAGM ROD AS PER SUB-SECTION 865.2.01.B.12 OF THE GEORGIA DOT SPECIFICATIONS IS NOT REQUIRED.

RECESS DETAIL FOR DIAPHRAGM ROD ENDS
OF EXTERIOR CORED SLAB BEAMS



BEAM DIMENSIONS							
SPAN	A	B	C	D	E	F	Y
1	42'-8"	41'-8 1/2"	40'-6 1/2"	20'-10 1/4"	13'-10 3/4"	13'-11"	2' 1/4"
2	42'-8"	42'-7"	41'-5"	21'-3 1/2"	14'-2 1/8"	14'-2 3/4"	7 1/2"
3	42'-8"	41'-8 1/2"	40'-6 1/2"	20'-10 1/4"	13'-10 3/4"	13'-11"	2' 1/4"

DEAD LOAD DEFLECTION AND CAMBER			
	SPAN 1	SPAN 2	SPAN 3
CAMBER (PRESTRESS AND SELF-WEIGHT)	1¾"	1¾"	1¾"
DEFLECTION DUE TO BARRIER AND ASPHALT OVERLAY	5/8"	¾"	5/8"



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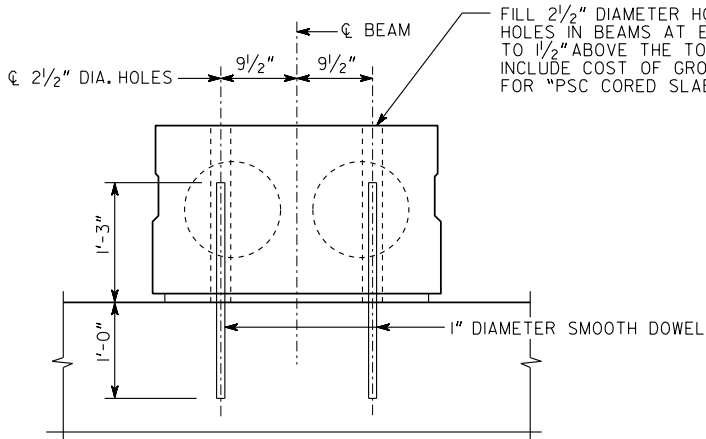
BULLOCH COUNTY
DEPARTMENT OF TRANSPORTATION

21 INCH PSC CORED SLAB BEAM
CR 153 (CYPRESS LAKE ROAD)
OVER DRY BRANCH
BULLOCH COUNTY

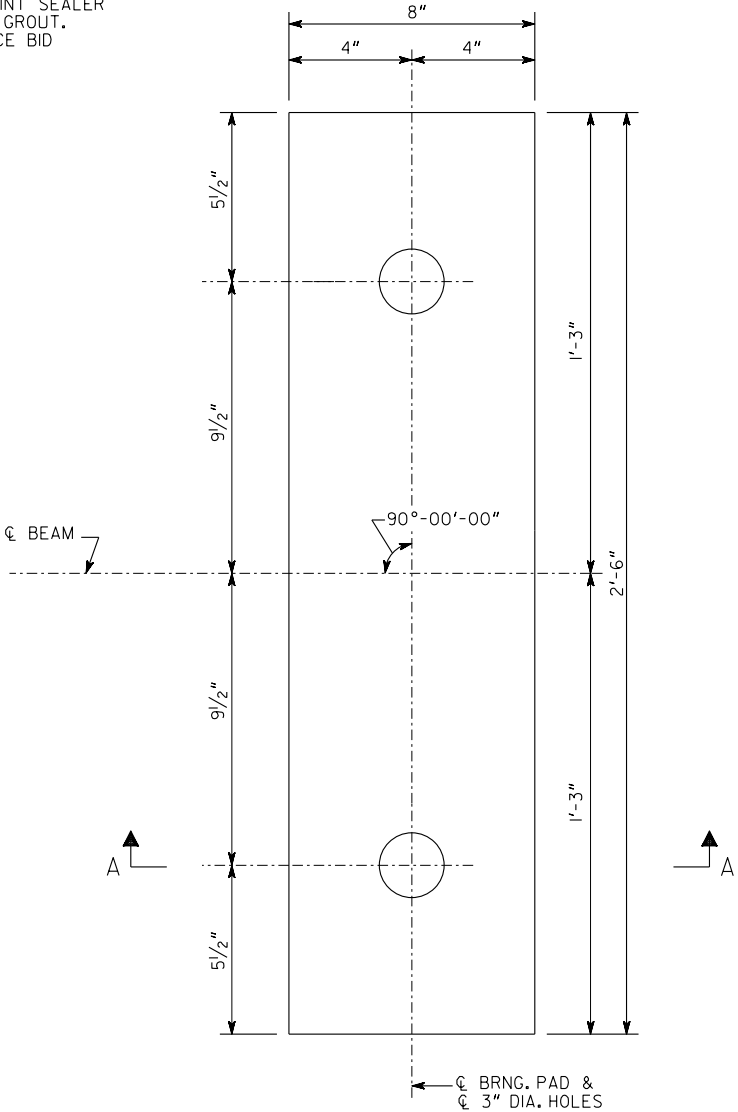
NO SCALE

APRIL 2026

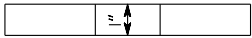
DESIGNED <u>ET/FRB</u>	CHECKED <u>TBS/MS</u>	REVIEWED _____
DRAWN <u>AC/ET</u>	DESIGN GROUP _____	APPROVED _____



SECTION AT BEARING



PLAN



SECTION A-A

BEARING PAD

NOTES

- BEARING PADS SHALL BE FURNISHED IN ACCORDANCE WITH AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, SECTION 18, BEARING DEVICES.
- 1" DIAMETER SMOOTH DOWELS SHALL BE ASTM A709 GRADE 50.
- BEARING PADS SHALL BE MADE OF 60 DUROMETER HARDNESS NEOPRENE, GRADE 2 OR HIGHER.
- 3" DIAMETER HOLES IN BEARING PADS MAY BE FORMED OR DRILLED.
- USE OF 1/2° MOLD DRAFT IS OPTIONAL.
- COST OF FURNISHING AND INSTALLING BEARING PADS SHALL BE INCLUDED IN THE PRICE BID FOR "PSC CORED SLAB BEAMS".

BENT	BEARING PADS					
	W	L	T	DESIGN LOADS (KIPS)		
				DEAD LOAD	LIVE LOAD (NO IMPACT)	DEAD LOAD + LIVE LOAD
1 AND 4	2'-6"	8"	1"	20	67	87
2 AND 3	2'-6"	8"	1"	21	68	89

BRIDGE NO. 1



Heath & Lineback
10 Glenlake Pkwy NE, North Tower, Suite 800
Sandy Springs, Georgia 30328
770.424.1668

BULLOCH COUNTY
DEPARTMENT OF TRANSPORTATION

BEARING PAD DETAILS
CR 153 (CYPRESS LAKE ROAD)
OVER DRY BRANCH
BULLOCH COUNTY

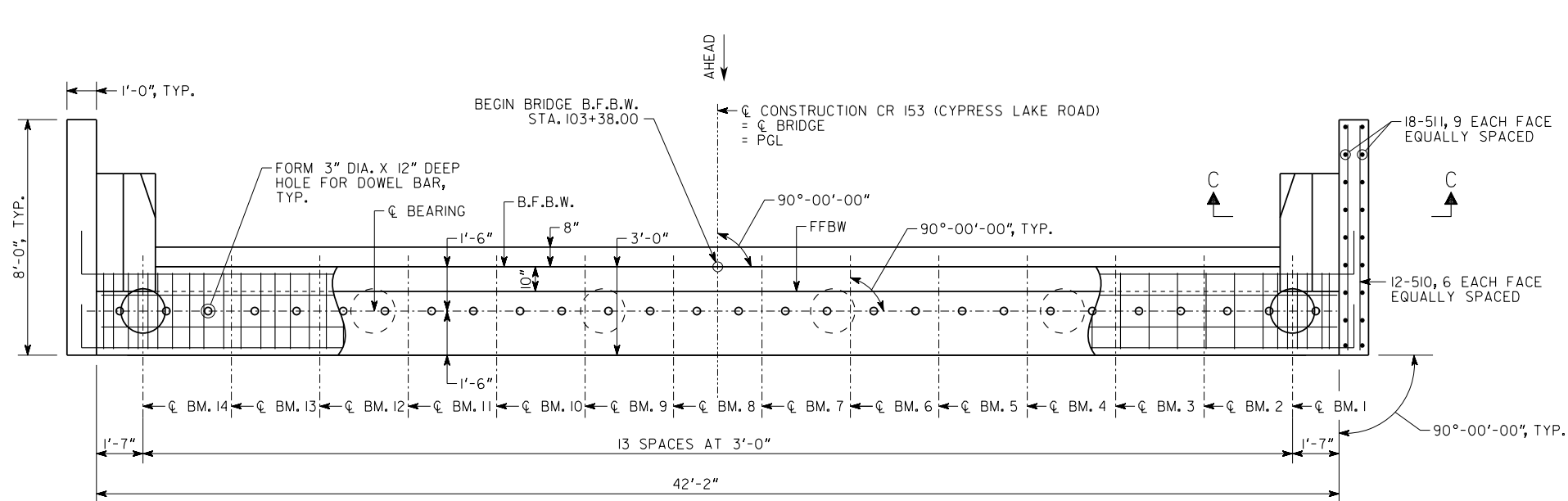
E-15

NO SCALE
APRIL 2026

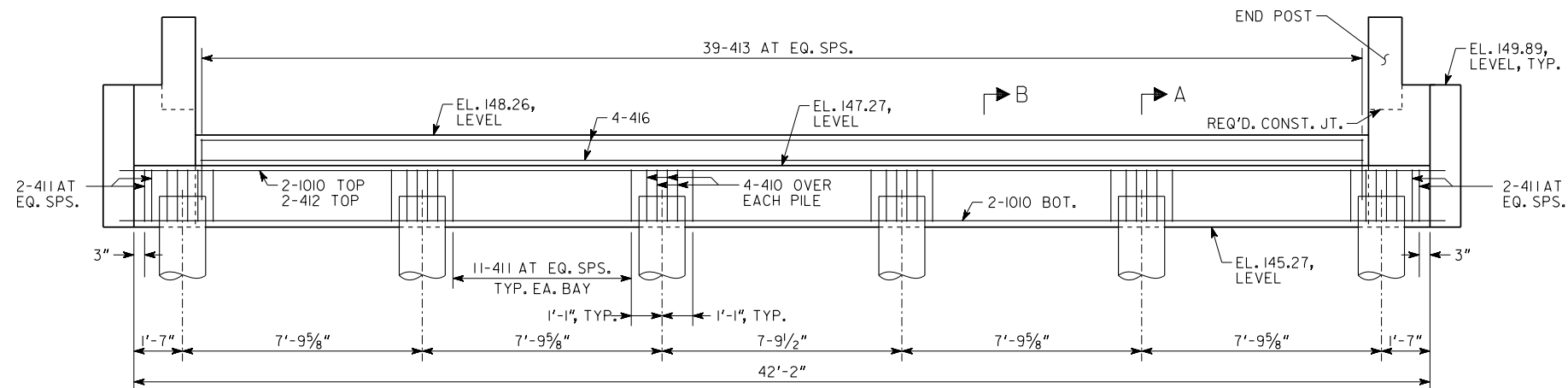
DRAWING NO.
35-0006
BRIDGE SHEET
6 OF 11

DATE	
REVISIONS	
BY	

DESIGNED ET/FRB	CHECKED TBS/MS	REVIEWED
DRAWN AC/ET	DESIGN GROUP	APPROVED



PLAN
BENT 1



ELEVATION
BENT 1
(LOOKING BACK)

NOTES

- POUR WINGWALLS AND END POST SUPPORTS MONOLITHICALLY WITH CAP.
- BOTTOM OF WINGWALLS ARE LEVEL.
- SEE GA. STD. 9037 FOR DRAINAGE DETAILS REQUIRED AT END BENTS.

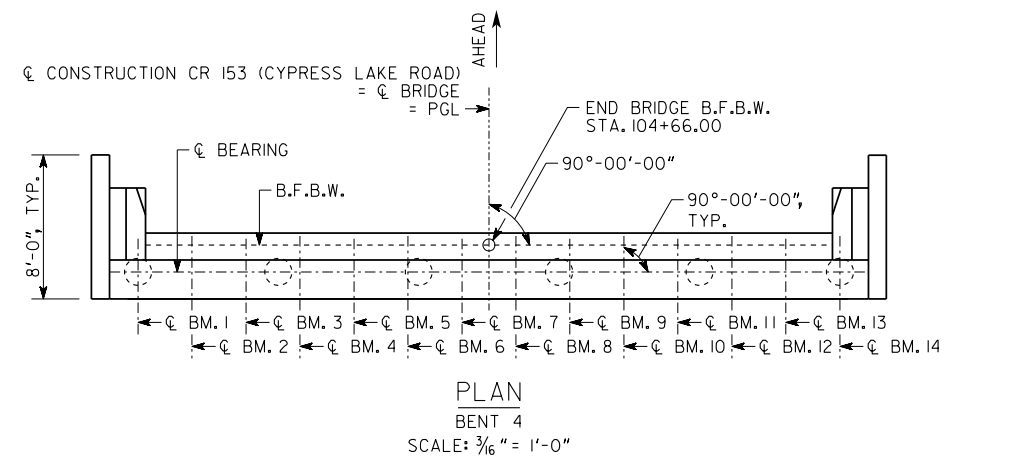
SUBSTRUCTURE QUANTITIES		
ITEM	BENT 1	BENT 4
CY CLASS A CONCRETE	17.3	17.3
LB BAR REINF STEEL	2677	2677

PILES ARE DESIGNED FOR A MAXIMUM FACTORED AXIAL LOAD OF 225 KIPS.

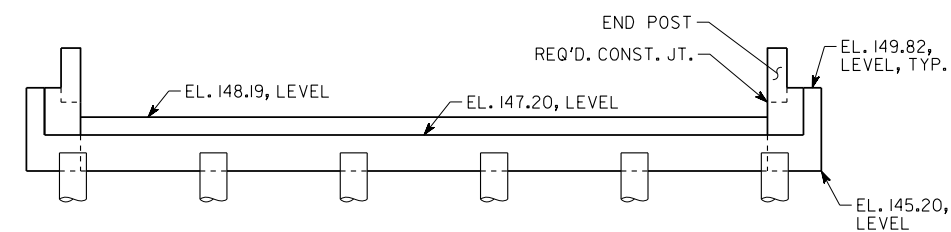
ALL PILES SHALL BE METAL SHELL, 18 IN. OD.

PLAN DRIVING OBJECTIVE

ALL PILES SHALL BE DRIVEN TO A DRIVING RESISTANCE OF 347 KIPS AFTER A MINIMUM TIP ELEVATION OF 113 AT BENT 1 AND 101 AT BENT 4 IS ACHIEVED.



PLAN
BENT 4
SCALE: 3/16" = 1'-0"



ELEVATION
BENT 4
SCALE: 3/16" = 1'-0"

BRIDGE NO. 1



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BULLOCH COUNTY
DEPARTMENT OF TRANSPORTATION

END BENTS 1 AND 4
CR 153 (CYPRESS LAKE ROAD)
OVER DRY BRANCH
BULLOCH COUNTY

E-15

SCALE: 3/8" = 1'-0", UNLESS OTHERWISE NOTED

APRIL 2026

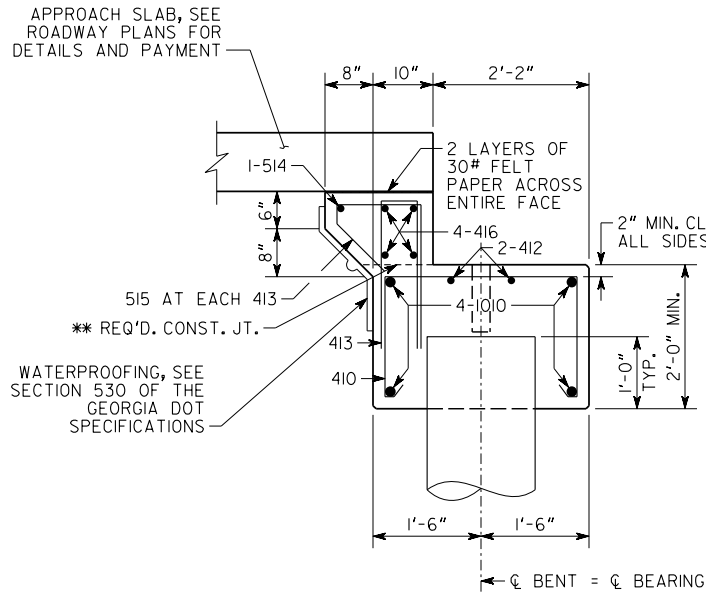
DRAWING NO.
35-0007

BRIDGE SHEET
7 OF 11

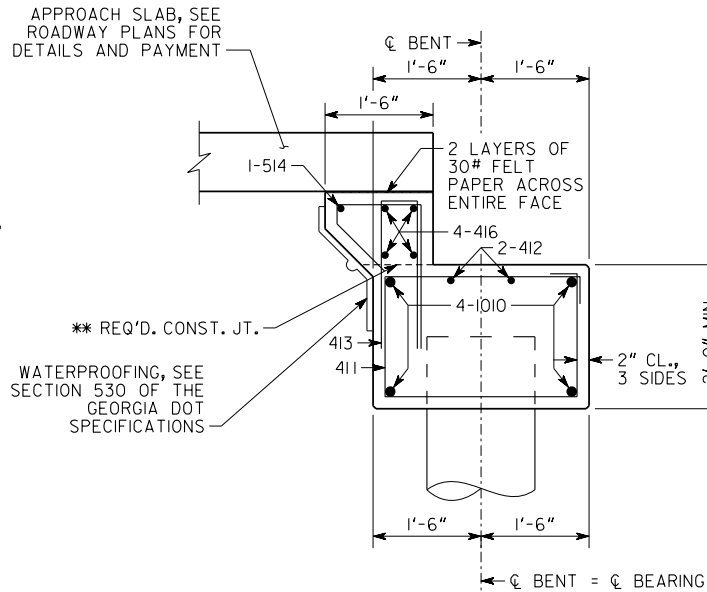
DESIGNED ET/FRB
DRAWN AC/ET

CHECKED TBS/MS
DESIGN GROUP

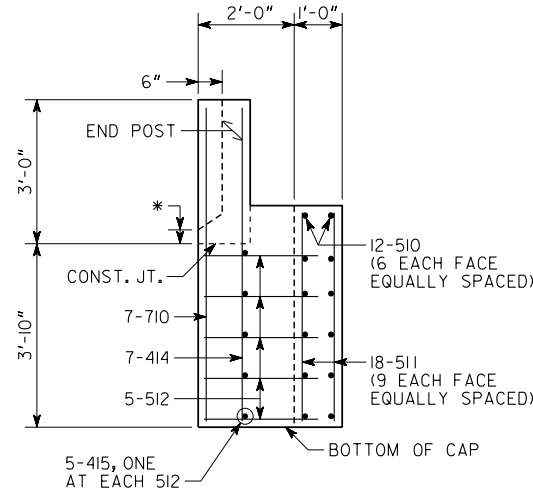
REVIEWED
APPROVED



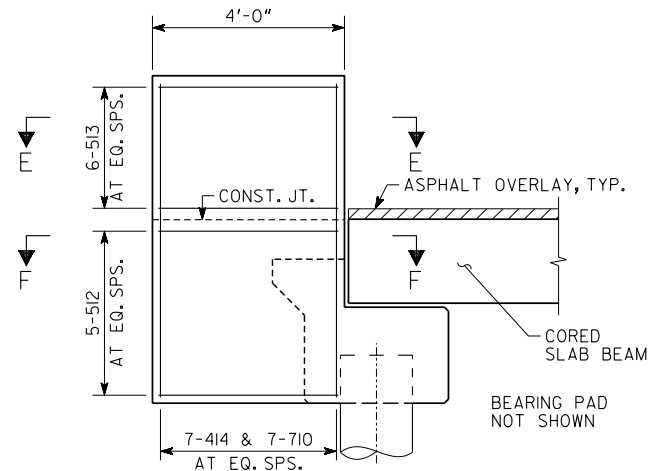
SECTION A-A
SCALE: $\frac{3}{4}" = 1'-0"$



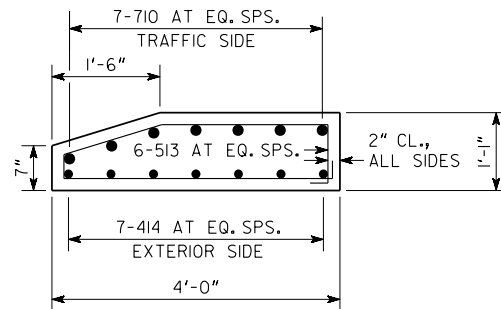
SECTION B-B
SCALE: $\frac{3}{4}" = 1'-0"$



SECTION C-C
SCALE: $\frac{1}{2}" = 1'-0"$

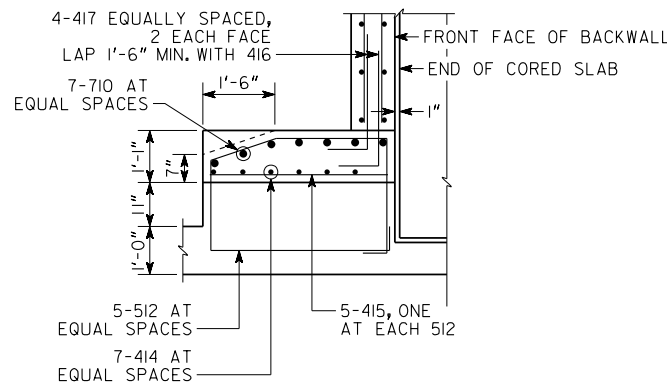


SECTION D-D
SCALE: $\frac{1}{2}" = 1'-0"$



SECTION E-E

END POST DETAIL
SCALE: $\frac{3}{4}" = 1'-0"$



SECTION F-F

END POST SUPPORT DETAIL
SCALE: $\frac{1}{2}" = 1'-0"$

NOTES

- SEE GA. STD. 3054 FOR GUARDRAIL ATTACHMENT AND MISCELLANEOUS END POST DETAILS. OMIT BARS P40I, P50I, AND P70I FROM END POST STANDARD.
- RAISE SLOPED PORTION DEPICTED IN STD. 3054 - SECTION B-B $\frac{3}{2}"$ TO CLEAR ASPHALT OVERLAY ON BRIDGE DECK.
- PROVIDE 2'-0" WIDE WATERPROOFING CENTERED AT THE REQUIRED CONSTRUCTION JOINT.

BRIDGE NO. 1



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BULLOCH COUNTY
DEPARTMENT OF TRANSPORTATION

END BENTS 1 AND 4 DETAILS
CR 153 (CYPRESS LAKE ROAD)
OVER DRY BRANCH
BULLOCH COUNTY

E-15

SCALE: AS NOTED

APRIL 2026

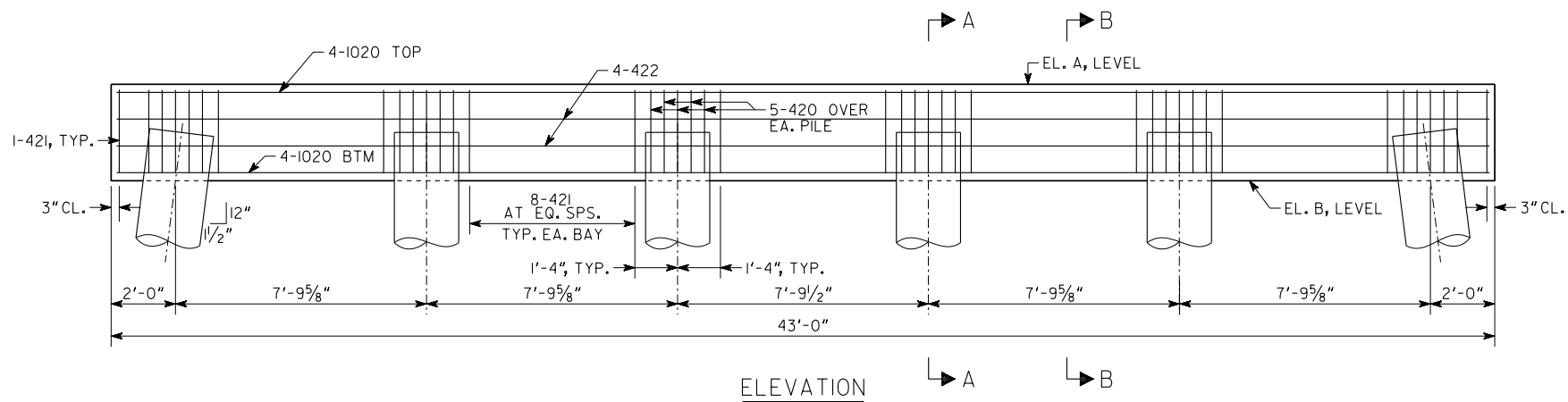
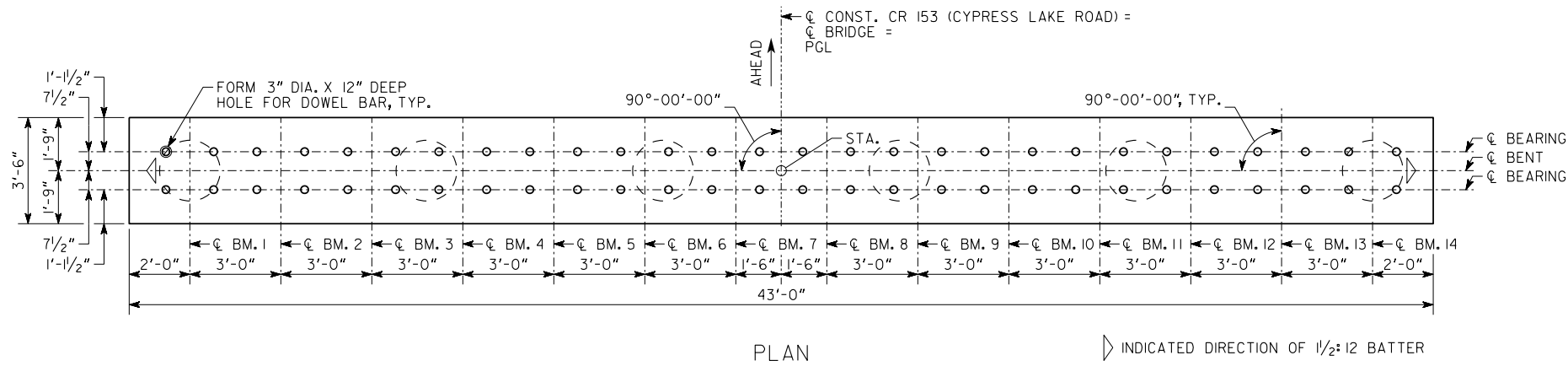
DRAWING NO.
35-0008

BRIDGE SHEET
8 OF 11

DESIGNED ET/FRB
DRAWN AC/ET

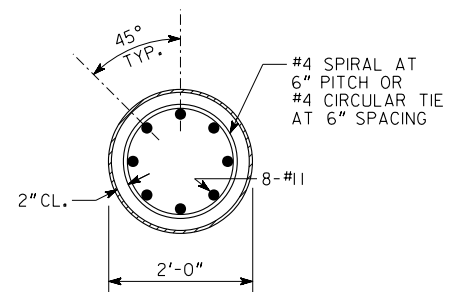
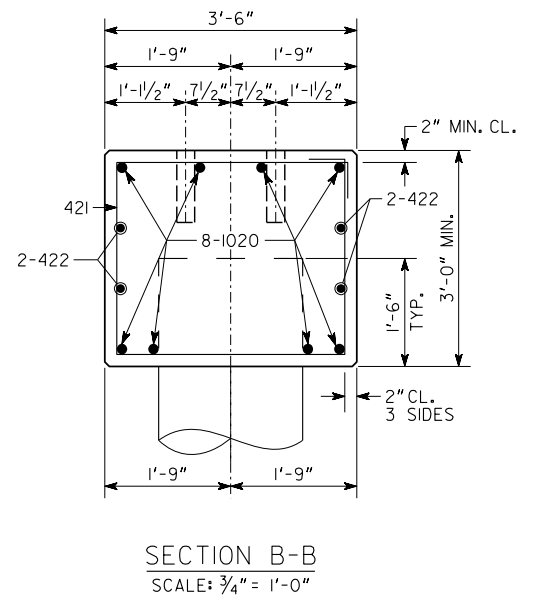
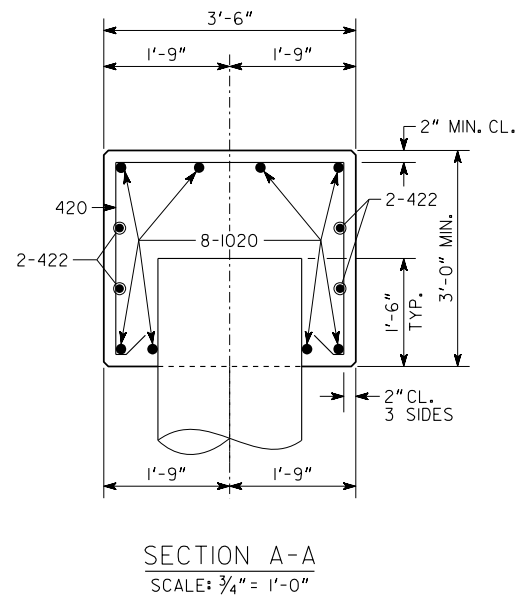
CHECKED TBS/MS
DESIGN GROUP

REVIEWED
APPROVED



SUBSTRUCTURE QUANTITIES		
ITEM	BENT 2	BENT 3
CY CLASS A CONCRETE	16.7	16.7
LB BAR REINF STEEL	2117	2117

BENT	STA.	A	B
BENT 2	103+80.67	147.39	144.39
BENT 3	104+23.33	147.37	144.37



EXTEND REINFORCEMENT FROM TOP OF PILE TO AT LEAST 10 FT BELOW GROUNDLINE. PROVIDE A MINIMUM LAP OF 2'-0" FOR EACH CIRCULAR TIE OR BETWEEN EACH UNIT OF SPIRAL REINFORCEMENT. INCLUDE COST FOR SUPPLYING AND INSTALLING REINFORCEMENT IN PRICE BID FOR METAL SHELL PILING.

PILE REINFORCEMENT DETAIL
NO SCALE

PILES ARE DESIGNED FOR A MAXIMUM FACTORED AXIAL LOAD OF 315 KIPS.

ALL PILES SHALL BE METAL SHELL, 24 IN. OD.

PLAN DRIVING OBJECTIVE

ALL PILES SHALL BE DRIVEN TO A DRIVING RESISTANCE OF 521 KIPS AT BENT 2 AND 500 KIPS AT BENT 3 AFTER A MINIMUM TIP ELEVATION OF 113 AT BENT 2 AND 101 AT BENT 3 IS ACHIEVED.

BRIDGE NO. 1



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BULLOCH COUNTY
DEPARTMENT OF TRANSPORTATION

INTERMEDIATE BENT 2 AND 3
CR 153 (CYPRESS LAKE ROAD)
OVER DRY BRANCH
BULLOCH COUNTY

E-15

SCALE: 3/8" = 1'-0", UNLESS OTHERWISE NOTED

APRIL 2026

DRAWING NO.
35-0009

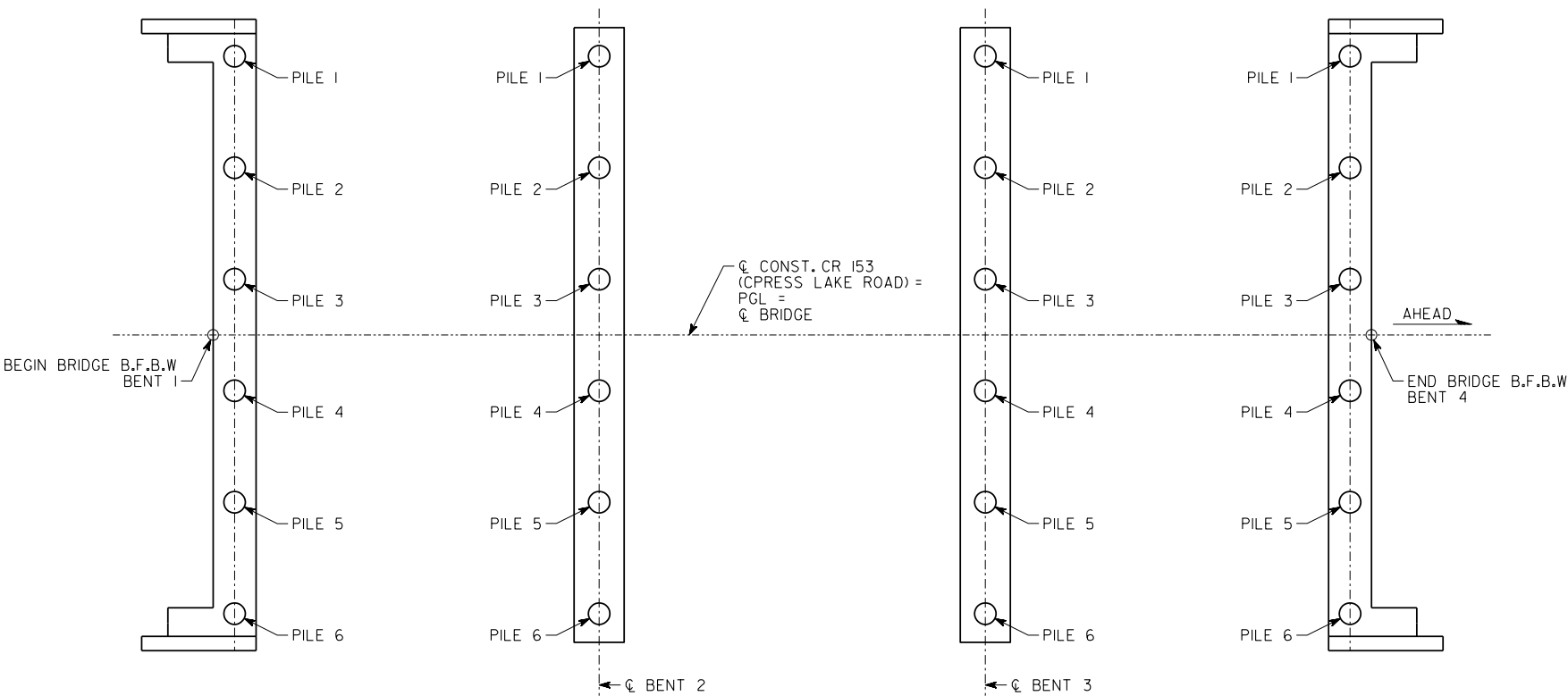
BRIDGE SHEET
9 OF 11

DESIGNED ET/FRB
DRAWN AC/ET

CHECKED TBS/MS
DESIGN GROUP

REVIEWED
APPROVED

BENT	PILE LOCATION	PILE TIP ELEVATION
BENT 1	PILE 1	
	PILE 2	
	PILE 3	
	PILE 4	
	PILE 5	
	PILE 6	
BENT 2	PILE 1	
	PILE 2	
	PILE 3	
	PILE 4	
	PILE 5	
BENT 3	PILE 1	
	PILE 2	
	PILE 3	
	PILE 4	
	PILE 5	
	PILE 6	
BENT 4	PILE 1	
	PILE 2	
	PILE 3	
	PILE 4	
	PILE 5	
	PILE 6	



NOTE

THIS "AS-BUILT FOUNDATION INFORMATION" SHEET SHALL BE FILLED IN BY THE PROJECT ENGINEER AND THE COMPLETED PDF FORWARDED TO BULLOCH COUNTY AFTER INSTALLATION OF ALL PILES FOR POSTING TO THE PLANS AS A PERMANENT RECORD OF THE BRIDGE CONSTRUCTION.

PROJECT ENGINEER _____ DATE _____

AREA CODE) TELEPHONE NUMBER

BRIDGE NO. 1



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770.424.1668

BULLOCH COUNTY
DEPARTMENT OF TRANSPORTATION

AS-BUILT FOUNDATION INFORMATION
CR 153 (CYPRESS LAKE ROAD)
OVER DRY BRANCH
BULLOCH COUNTY

E-15

NO SCALE APRIL 2026

DRAWING NO. 35-0010						NO SCALE			APRIL 2026		
BRIDGE SHEET 10 OF 11	BY					DESIGNED ET/FRB		CHECKED TBS/MS		REVIEWED	
						DRAWN AC/ET		DESIGN GROUP		APPROVED	

[illegible]

BRIDGE NO. 1



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BULLOCH COUNTY
DEPARTMENT OF TRANSPORTATION

BAR REINFORCING DETAILS
CR 153 (CYPRESS LAKE ROAD)
OVER DRY BRANCH
BULLOCH COUNTY

NO SCALE APRIL 2026

DESIGNED <u>ET/FRB</u>	CHECKED <u>TBS/MS</u>	REVIEWED _____
DRAWN <u>AC/ET</u>	DESIGN GROUP _____	APPROVED _____

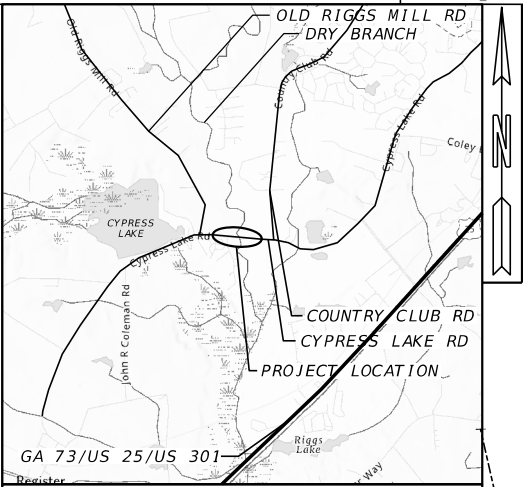
DRAWING NO.
35-0011

BRIDGE SHEET
11 OF 11

DATE

REVISIONS

BY



LOCATION SKETCH - N.T.S.

This project has been prepared using the Horizontal Georgia Coordinate System of 1984 (NAD1983)/94 Easy Zone, and the North American Vertical Datum (NAVD) of 1988.

BULLOCH COUNTY

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN

CYPRESS LAKE ROAD AT DRY BRANCH

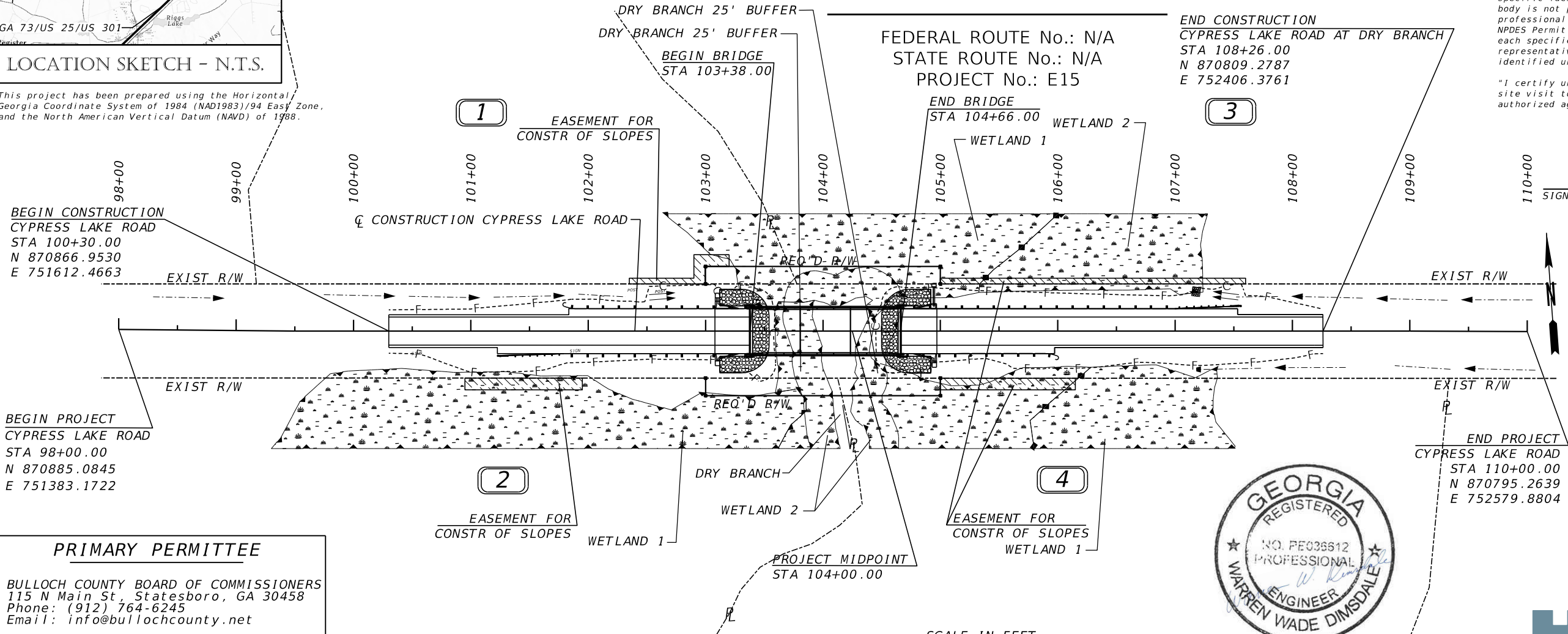
BRIDGE REPLACEMENT

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV, of the General NPDES Permit No. GARI00002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia" (Manual) published by the State Soil and Water Conservation Commission as of January 1 of the year in which the land disturbing activity was permitted, provides for sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GARI00002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or (b) where any such specific identified perennial or intermittent stream and other water body is not proposed to be sampled, I have determined in my professional judgment, utilizing the factors required in the General NPDES Permit No. GARI00002, that the increase in the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."

"I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my direct supervision."



BEGIN-POINT COORDINATES

Longitude: -81.85820°

Latitude: 32.39400°

MID-POINT COORDINATES

Longitude: -81.85620°

Latitude: 32.39390°

END-POINT COORDINATES

Longitude: -81.85430°

Latitude: 32.39380°

PRIMARY PERMITTEE

BULLOCH COUNTY BOARD OF COMMISSIONERS
115 N Main St, Statesboro, GA 30458
Phone: (912) 764-6245
Email: info@bullochcounty.net

24 HOUR CONTACT:

Name _____

Street Address _____

City, State Zip _____

Phone Number _____

Email Address _____

Contractor shall complete the information in this box.



GEORGIA SOIL AND WATER
CONSERVATION COMMISSION

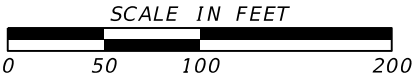
WARREN W. DIMSDALE

Level II Certified Design Professional

CERTIFICATION NUMBER 0000010600

ISSUED 10/05/2025 EXPIRES 10/05/2028

LENGTH OF PROJECT	COUNTY No.031 Project No. E15
	MILES
NET LENGTH OF ROADWAY	0.203
NET LENGTH OF BRIDGES	0.024
NET LENGTH OF PROJECT	0.227
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.227



Date:

5/5/2026

PLANS PREPARED
BY:



Heath & Lineback
10 Glenlake Pkwy NE, North Tower, Suite 800
Sandy Springs, Georgia 30328
770.424.1668

PLANS COMPLETED: 5-5-2026				
REVISIONS				
DATE	ENTITY REQUESTING REVISION(S)	DRAWING NUMBER(S)	SIGNATURE	GSWCC LEVEL II CERT.#
DRAWING No.				50-0001

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: Ogeechee River SWCD

Project Name: Cypress Lake Road @ Dry Branch Bridge Replacement

Address: Cypress Lake Road, Statesboro, GA 30458

Local Issuing Authority: Bulloch County

Date on Plans: TBD

County: Bulloch

Name & email of person filling out checklist:

Warren Dimsdale wdimsdale@heath-lineback.com

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0001	Yes	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed. Permit IV.D.1. pg 28
50-0001	Yes	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed. The Level II certification must be issued to the Design Professional, after completion of a GSWCC approved course, and whose signature and seal are on the Plan.
50-0001	Yes	3 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
50-0001	Yes	4 Provide the name, address, email address, and phone number of Primary Permittee.
53-0001	Yes	5 Note total and disturbed acreages of the project or phase under construction.
50-0001	Yes	6 Provide the GPS locations of the beginning and end of the infrastructure project. Give the Latitudes and Longitudes in decimal degrees.
50-0001	Yes	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
51-0002	Yes	8 Descriptions of the nature of construction activity and existing site conditions.
50-0001	Yes	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
53-ALL, 54-ALL, 55-0001	Yes	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
50-0001	Yes	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.
50-0001	Yes	12 Design professional's certification statement and signature that the Permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 21 of the permit. *
50-0001	Yes	13 Design professional certification statement and signature that the Permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3). page 37 of the permit as applicable. *
51-0004	Yes	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect and certify the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." *
51-0005	Yes	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
51-0005	Yes	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
51-0002	Yes	17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional." *
51-0002	Yes	18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit." *
51-0002	Yes	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
51-0002	Yes	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
51-0002	Yes	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
51-0008	N/A	22 Any construction activity which discharges storm water into a Biota Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of a Biota Impaired Stream Segment must comply with Part III.C. of the permit. Include the completed Appendix 1 of this checklist with at least 4 of the chosen BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
51-0008	N/A	23 If a TMDL Implementation Plan for sediment has been finalized for the Biota Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *
51-0002	Yes	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Include statement that washout of the drum at the construction site is prohibited. *

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN				
51-0003	Yes	25 Provide BMPs for the remediation of all petroleum spills and leaks.				
51-0003	Yes	26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed. *				
51-0003	Yes	27 Description of practices to provide cover for building materials and building products on site. *				
51-ALL	Yes	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *				
51-0003	Yes	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, grading, infrastructure, temporary and final stabilization).				
51-0004	Yes	30 Provide complete requirements of <u>Inspections</u> and record keeping by the Primary Permittee. *				
51-0006	Yes	31 Provide complete requirements of <u>Sampling Frequency</u> and <u>Reporting</u> of sampling results. *				
51-0004	Yes	32 Provide complete details for <u>Retention of Records</u> as per Part IV.F. of the permit. *				
51-0004	Yes	33 Description of analytical methods to be used to collect and analyze the samples from each location. *				
51-0006	Yes	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *				
51-0006, 55-0001	Yes	35 Delineate all sampling locations on all phases of the Plan, and perennial and intermittent streams and other water bodies into which storm water is discharged. *				
51-0003, 54-ALL	Yes	36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial sediment storage requirements and initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase plan. *				
50-0001, 53-0001, 54-ALL, 55-0001	Yes	37 Graphic scale and North arrow.				
53-0001, 55-0001	Yes	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: <table><tr><td>Existing Contours</td><td>USGS 1": 2000' Topographical Sheets</td></tr><tr><td>Proposed Contours</td><td>1" : 400' Centerline Profile</td></tr></table>	Existing Contours	USGS 1": 2000' Topographical Sheets	Proposed Contours	1" : 400' Centerline Profile
Existing Contours	USGS 1": 2000' Topographical Sheets					
Proposed Contours	1" : 400' Centerline Profile					
51-0005	N/A	39 Use of Alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Refer to the Alternative BMP Guidance Document found at www.gaswcc.georgia.gov .				
51-0005	N/A	40 Use of Alternative BMP for application to the Equivalent BMP List. Refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *				
53-0001, 54-ALL	Yes	41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State Waters and any additional buffers as required by the Local Issuing Authority. Clearly note and delineate all areas of impact.				
53-0001, 54-ALL	Yes	42 Delineation of all State Waters and wetlands located on or within 200 feet of the project site.				
53-ALL	Yes	43 Delineation and acreage of contributing drainage basins on the project site.				
55-0001	Yes	44 Delineate on-site drainage and off-site watersheds using USGS 1":2000' topographical sheets.				
53-0002	Yes	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.				
51-0009	N/A	46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate at all storm water discharge points.				
51-0005	Yes	47 Soil series for the project site and their delineation.				
54-ALL	Yes	48 The limits of disturbance for each phase of construction.				
51-0007	Yes	49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, Permittees are <u>required</u> to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.				
54-ALL	Yes	50 Location of Best Management Practices that are consistent with, and no less stringent than, the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual Chapter 6, with legend.				
52-ALL, 56-ALL	Yes	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.				
51-0002	Yes	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer,				

* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2025

REVISION DATES

ESPCP GENERAL NOTES
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

51-0001



Heath & Lineback
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DESCRIPTION OF EXISTING SITE AND PROPOSED PROJECT

The project proposes to replace a bridge on Cypress Lake Road at Dry Branch in Bulloch County, GA. The project's intent is to replace the structurally deficient bridge, to satisfy hydraulics, and to tie the roadway back to the existing as soon as possible.

The project will be designed to provide two 12-ft travel lanes with 6-ft shoulders (2-ft paved). Guardrail will be required as 2:1 slopes will be necessary to tie in the earthwork. Additional right-of-way will be required.

During Construction of the new bridge, traffic will be maintained with an off-site detour.

Cypress Lake Road is classified as a Rural Minor Collector and will be designed to meet design speed criteria for 55 mph. No design exceptions or variances are anticipated.

ESPCP ALTERATIONS, AMENDMENTS, AND REVISIONS

This Erosion, Sedimentation, and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161-Control of Soil Erosion and Sedimentation of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. Amendments/revisions to the ESPCP which have a significant effect on BMPs with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC Level-II Certified Design Professional. Additional BMPs may be added per Special Provision 161-Control of Soil Erosion and Sedimentation.

MAINTAINING EROSION CONTROL MEASURES

The escape of sediment from the project site shall be prevented by the installation of erosion and sediment control measures and practices prior to land-disturbing activities.

Erosion and sedimentation control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

ESPCP TEMPLATE DATE: DECEMBER 2025 (APPLICABLE IN 2026)

WASTE DISPOSAL

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment should be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

SITE STABLIZATION AND VEGETATION PLANTING SCHEDULE

Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding.

The EPD General NPDES GAR100002 permit indicates that the disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation or as soon as practicable if precluded by adverse weather conditions. However, in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

Disturbed areas shall be stabilized with suitable material listed in the current edition of the Department's Standard Specifications (or Special Provisions) Sections 161, 163, 700, or 711 on the basis of when construction activities are expected to resume.

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming, and mulching rates for this project can be found in Section 700 of the current edition of the Department's Standard Specifications (or Special Provisions) and other applicable contract documents or landscaping plans.

READY MIX CHUTE & TOOLS WASHDOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with Standard Specification 107: Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

NON-STORMWATER DISCHARGES

Non-stormwater discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and other contract documents. The NPDES does not authorize the discharge of soaps or solvents used in vehicle and equipment washing or the discharge of wastewater containing stucco, paint, oils, curing compounds, and other construction materials.

REVISION DATES			ESPCP GENERAL NOTES			
			CYPRESS LAKE ROAD AT DRY BRANCH			
			BRIDGE REPLACEMENT			
			CHECKED:		DATE:	DRAWING No.
			BACKCHECKED:		DATE:	51-0002
			CORRECTED:		DATE:	
			VERIFIED:		DATE:	

INSPECTIONS AND REPORTING

As the primary permittee, the Department must retain the design professional who prepared the ESPCP, or an alternative design professional approved by EPD in writing, to inspect and certify the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days of installation over the entire infrastructure project. Alternatively, for linear infrastructure projects, the permittee must retain either of these personnel to inspect the initial sediment storage requirements and perimeter control BMPs for the initial segment, as defined by Part IV.A.5. of the current GAR100002 Permit, within 7 days of installation and all sediment basins within the entire linear infrastructure project within 7 days of installation. The inspecting design professional shall report the results to the primary permittee within 7 days, and the permittee must correct all deficiencies within 2 business days of receipt of the inspection report, unless on-site weather conditions are such that more time is required. Additionally, the Department's Construction Project Engineer will be responsible for all subsequent 7-day inspections for all new BMP installations.

All other inspections shall be documented on the appropriate Department inspection forms. See Standard Specification (or Special Provision) 167 and other contract documents for inspection and reporting requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Whenever the Department finds that a BMP has failed or is deficient beyond routine maintenance and has resulted in sediment deposition into waters of the State, the Contractor shall take reasonable steps to address the condition, including cleaning up any contaminated surfaces so the material will not discharge in subsequent storm events. When the repair does not require a new or replacement BMP or significant repair, the BMP failure or deficiency must be corrected by the close of the next business day from the time of discovery. A repair requiring a new or replacement BMP or significant repair must be operational by no later than 7 days from the time of discovery. If the repair time within 7 days is infeasible, the Contractor and the Department shall schedule the BMP repair to be operational as soon as practical after the 7-day time frame.

Failure to perform inspections as required by the contract documents and the NPDES permit shall result in the cessation of all construction activities with the exception of Traffic Control and Erosion Control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

APPROPRIATE BMP AND SAMPLING CERTIFICATION STATEMENT

The permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated in Part IV page 21 of the permit. The signature of the preparer affixed on the Plan cover sheet serves as the certification.

WATER QUALITY INSPECTING AND SAMPLING PROCEDURES

See Special Provision 167 and other contract documents for the inspecting and sampling procedures. Sampling locations are provided in the Sampling Location table herein.

RETENTION OF RECORDS

The primary permittee will retain all records related to the implementation of this ESPCP in accordance with Part IV of the General Permit GAR100002.

SILT FENCE INSTALLATION WITH J HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique is called using J hooks (or spurs). The J hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J-hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately upgradient J hook. J Hooks shall be paid for as silt fence items per linear foot. All costs and other incidental items are included in the cost of installing and maintaining the silt fence.

BMP INSTALLATION AND MAINTENANCE MEASURES

See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 711, and other contract documents for installation and maintenance measures.

DEWATERING AND PUMPING ACTIVITIES

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag, or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR100002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

ESPCP TEMPLATE DATE: DECEMBER 2025 (APPLICABLE IN 2026)

HEATH & LINEBACK A BCC COMPANY	Heath & Lineback 10 Glenlake Pkwy NE, North Tower, Suite 800 Sandy Springs, Georgia 30328 770.424.1668	REVISION DATES			ESPCP GENERAL NOTES			
					CYPRESS LAKE ROAD AT DRY BRANCH			
					BRIDGE REPLACEMENT			
					CHECKED:		DATE:	DRAWING No.
					BACKCHECKED:		DATE:	51-0004
					CORRECTED:		DATE:	
					VERIFIED:		DATE:	

SOIL SERIES INFORMATION

A project-specific soil survey and geotechnical investigation was performed for this project and can be made available upon request. Soil characteristics have been given full consideration in the hydrologic analysis, the design of channels and linings, selection of temporary BMP's, design of energy dissipaters, and in the selection of permanent vegetation and fertilizers.

The following is a summary of the soils that are expected to be found on the project site:



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Brs	Bladen and Rains soils and swamp	68.4	23.6%
CmA	Chipley sand, 0 to 2 percent slopes	19.9	6.8%
CqB	Cowarts loamy sand, 2 to 5 percent slopes	1.6	0.5%
Dic	Dunbar-Izagora complex	1.9	0.7%
FsA	Fuquay loamy sand, 2 to 5 percent slopes	42.1	14.5%
FsB	Fuquay loamy sand, 2 to 5 percent slopes	0.1	0.0%
LpB	Lakeland sand, 0 to 5 percent slopes	51.1	17.6%
LpD	Lakeland sand, 5 to 12 percent slopes	9.5	3.3%
LsA	Leefield loamy sand, 0 to 2 percent slopes	26.7	9.2%
PIA	Pelham loamy sand	34.9	12.0%
Ros	Rains sandy loam	11.0	3.8%
Rpa	Rutlege and Portsmouth soils and alluvial land	6.7	2.3%
SeA	Stilson loamy sand, 0 to 2 percent slopes	15.4	5.3%
W	Water	1.1	0.4%
Totals for Area of Interest		290.4	100.0%

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS

No alternative or additional BMPs will be used on this project.

STATE WATER BUFFER IMPACTS

State water buffers, as defined by O.C.G.A. 12-7-1, are impacted by this project.

Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

The Contractor is not authorized to enter into stream buffers, except as described in the Buffer Impact Table.

Name or Number of Stream or other State Water Type	Location of Stream or other State Water*			State Water Type (Warm/Cold Water)**	Buffer Variance Required? (Yes/No)
	Alignment	Begin Station and Offset	End Station and Offset		
OW3 - DRY BRANCH	CYPRESS LAKE ROAD	103+82.31, 55.00' RT 103+65.75, 55.00' LT	104+50.00, 55.00' RT 104+67.24, 55.00' LT	WARM	No
Description of Impacts: Impacts associated with bridge demolition, proposed bridge construction, earthwork associated with removal of existing bridge endroll for hydraulics, and placement of rip rap.					

Unless noted otherwise, utility companies will be submitting the required permits/variances in conjunction with the impacts caused by their activities. If utility impacts are covered by the Department's stream buffer variance, this shall be noted in the buffer-variance-required column.

*Warm water streams have a 25-foot minimum buffer as measured from the wrested vegetation. Cold Water streams have a 50-foot buffer as measured from the wrested vegetation.

**Locations are approximate,a detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets

ESPCP TEMPLATE DATE: DECEMBER 2025 (APPLICABLE IN 2026)

GPLN-CE DATE: 08/20/2024 TIME: 10:00 AM BY: JEFFREY L. HARRIS		 Heath & Lineback 10 Glenlake Pkwy NE, North Tower, Suite 800 Sandy Springs, Georgia 30328 770.424.1668		REVISION DATES			ESPCP GENERAL NOTES			
							CYPRESS LAKE ROAD AT DRY BRANCH			
							BRIDGE REPLACEMENT			
						CHECKED:		DATE:		DRAWING No. 51-0005
						BACKCHECKED:		DATE:		
						CORRECTED:		DATE:		
						VERIFIED:		DATE:		

SAMPLING LOCATIONS AND GENERAL NOTES

Representative sampling may be utilized on this project as explained here. The individual outfall drainage basins along the project corridor have been carefully evaluated and compared on the basis of four characteristics: the type of construction activity, the disturbed acreage, the average slope about the outfall, and the soil erosion index 0-10, 10 being the most erodible soil. The construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling scheme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative sampled features are identified in the Sampling Location Table.

SAMPLING FREQUENCY

Sampling frequency shall be according to GAR100002 IV.D.6.d. Below is a short summary. For complete requirements refer to the permit.

The applicable stages are when the outfall or receiving water exists. Sampling needs to occur during the applicable stages. Sampling does not need to occur during each stage. Sampling shall be during normal business hours. Sampling shall be of qualifying events defined as a rain event which that reaches or exceeds 0.5 inches and has a stormwater discharge.

- (a) The first sampling event is after clearing and grubbing but prior to completion of mass grading
- (b) The second sampling event is at least 90 days after the first sampling event or after all mass grading is complete
- (c) Follow-up sampling is needed if BMPs are not properly designed, installed, and maintained during the first two sampling events. Each subsequent qualifying event until the turbidity standard is attained or until post-rain event inspections determine that BMPs are properly designed, installed, and maintained.

SAMPLING LOCATION TABLE											Representative Sampling Scheme				
Sampling Information											Outfall Characteristics				
Primary Sampled Feature	Location (Station and Offset)	Name of Receiving Water	Applicable Construction Stage for Sampling	Sampling Type (Outfall or Receiving water)	Drainage Area for Receiving Water (mi ²)	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (Outfall Sampling only)	Allowable NTU Increase (Receiving water sampling only)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (Rise/Run)	Soil Erosion Index	Represented Outfall Drainage Basins
OW3 UP	STA 104+10.00, 55' LT	OW3 - Dry Branch	All	Receiving Water	15.6	0	Warm	N/A	25	Upstream	Bridge Replacement	N/A	N/A	N/A	N/A
OW3 DN	STA 104+10.00, 55' RT	OW3 - Dry Branch	All	Receiving Water	15.6	1.75	Warm	N/A	25	Downstream	Bridge Replacement	N/A	N/A	N/A	N/A
1	STA 103+08.00, 19' LT	OW3 - Dry Branch	All	Outfall	15.6	0.53	Warm	75	N/A	Proposed Ditch	Bridge Replacement	0.53	0.03	8.5	N/A
2	STA 107+18.00,33' LT	OW3 - Dry Branch	All	Outfall	15.6	0.11	Warm	75	N/A	Proposed Ditch	Bridge Replacement	0.11	0.007	8.5	Basin 3

The primary sampled features specified should be used as the initial sampling locations. An alternate sampled feature may be used if additional sampling is required or to replace a primary sampled feature that is no longer located within the active phase of construction.

The permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3) page 37 of the permit as applicable. The signature of the preparer affixed on the Plan cover sheet serves as the certification.

ESPCP TEMPLATE DATE: DECEMBER 2025 (APPLICABLE IN 2026)

		Heath & Lineback 10 Glenlake Pkwy NE, North Tower, Suite 800 Sandy Springs, Georgia 30328 770.424.1668	REVISION DATES			ESPCP GENERAL NOTES			
						CYPRESS LAKE ROAD AT DRY BRANCH			
						BRIDGE REPLACEMENT			

SEDIMENT STORAGE

The Sediment Storage Table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

To prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

Location	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (yd ³)	Total Storage Volume Provided (yd ³)	Check Dams, Cd-S (4.0 yd ³ /each)		Silt Fence, TP C (0.17 yd ³ /ft)		Rock Filter Dam (1.04 yd ³ /each)	
					# of Devices	Total Volume (yd ³)	Length of Fence (ft)	Total Volume (yd ³)	# of Devices	Total Volume (yd ³)
Basin 1	1.39	0.53	92.93	110.30	4.00	16.00	557.00	93.30	1.00	1.00
Basin 2	1.05	0.11	70.35	20.92	1.00	4.00	101.00	16.92	0.00	0.00
Basin 3	1.07	0.12	71.69	25.78	1.00	4.00	130.00	21.78	0.00	0.00
Sheet Flow 1	0.41	0.38	27.40	152.59	0.00	0.00	911.00	152.59	0.00	0.00
Sheet Flow 2	0.35	0.32	23.38	122.10	0.00	0.00	717.00	120.10	2.00	2.00
Sheet Flow 3	0.33	0.29	21.84	118.59	0.00	0.00	702.00	117.59	1.00	1.00
TOTAL DISTURBED AREA (AC)=		1.75	The disturbed area within these basins will be treated with grassing and mulch as needed to control sediment runoff.							

Basin 2: The total sediment storage volume provided in Basin 2 Outfall is less than the required 67 CY of sediment storage per acre due to the large size of undisturbed land upstream to the outfall. The total area of Basin 2 is 1.05 acres while the disturbed area for the basin is 0.11 acres, accounting for 10% of the total basin. BMPs as shown are sufficient to control sediment created by the disturbed area.

Basin 3: The total sediment storage volume provided in Basin 3 Outfall is less than the required 67 CY of sediment storage per acre due to the large size of undisturbed land upstream to the outfall. The total area of Basin 3 is 1.07 acres while the disturbed area for the basin is 0.12 acres, accounting for 11% of the total basin. BMPs as shown are sufficient to control sediment created by the disturbed area.

ESPCP TEMPLATE DATE: DECEMBER 2025 (APPLICABLE IN 2026)

		H & L A BCC COMPANY Heath & Lineback 10 Glenlake Pkwy NE, North Tower, Suite 800 Sandy Springs, Georgia 30328 770.424.1668		REVISION DATES			ESPCP GENERAL NOTES CYPRESS LAKE ROAD AT DRY BRANCH BRIDGE REPLACEMENT			
				CHECKED:		DATE:		DRAWING No. 51-0007		
				BACKCHECKED:		DATE:				
				CORRECTED:		DATE:				
				VERIFIED:		DATE:				

DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an impaired stream segment that has been listed for criteria violated, "Bio F" (impaired fish community) and/or "Bio M" (impaired macro invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

TMDL IMPLEMENTATION PLAN

A TMDL implementation plan has not been finalized for any stream segment associated with this project

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REVISION DATES			ESPCP GENERAL NOTES			
			CYPRESS LAKE ROAD AT DRY BRANCH			
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			VERIFIED:		DATE:	
			DRAWING No.:			
			51-0008			

RIPRAP OUTLET PROTECTION

Riprap Outlet Protection is not utilized on this project

CHANNEL PROTECTION

Channel Protection is not utilized on this project

ESPCP TEMPLATE DATE: DECEMBER 2025 (APPLICABLE IN 2026)



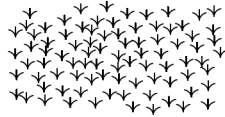
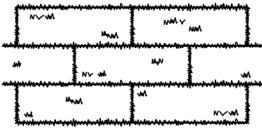
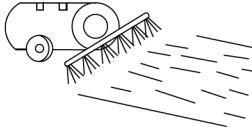
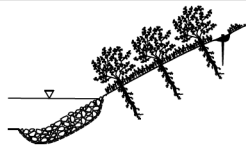
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REVISION DATES

ESPCP GENERAL NOTES
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

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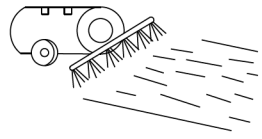
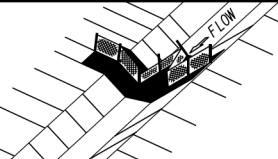
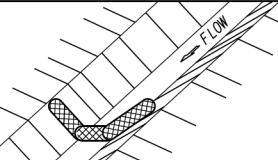
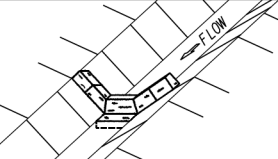
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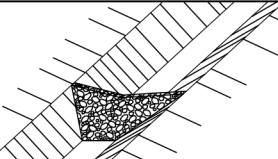
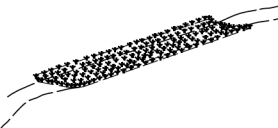
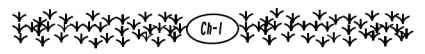
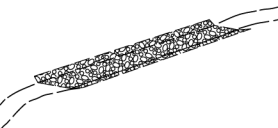
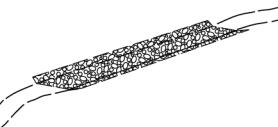
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
	SYMBOL 		
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		THE INSTALLATION OF A SPECIES OF GRASS SODDING SUITABLE TO THE AREA AND SEASON TO PROVIDE IMMEDIATE PERMANENT VEGETATION. SODDING MAY BE SHOWN FOR HIGHLY SENSITIVE AREAS, TO IMPROVE AESTHETICS, OR FOR SPECIAL PLANTING REQUIREMENTS ON THE BASIS OF ENVIRONMENTAL COMMITMENTS OR LANDSCAPING REQUIREMENTS.
	PATTERN 		THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
FI-Co	FLOCCULANTS COAGULANTS SECTION 163,700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs!
	SYMBOL  POLYACRYLAMIDE		FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
	PATTERN 		

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



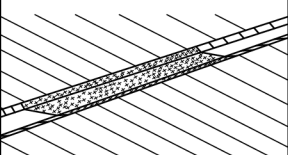
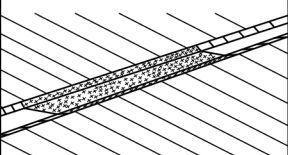
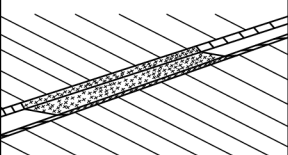
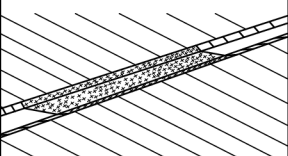
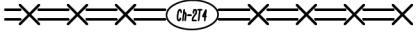
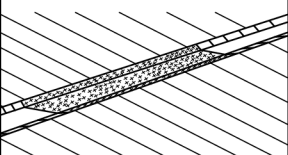
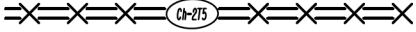
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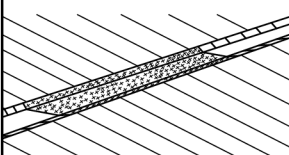
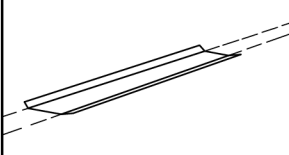
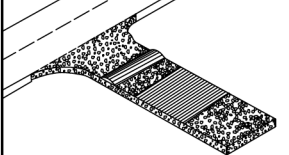
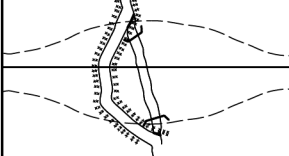
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
		PATTERN 	
Tac	TACKIFIERS SECTION 163, 700, 895		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
		SYMBOL  POLYACRYLAMIDE	
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASH PAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Ch-I	VEGETATED CHANNEL STABILIZATION SECTION 700		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
		LINE CODE 	
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.
	LINE CODE		"Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.
	LINE CODE		"Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.
	LINE CODE		"Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.
	LINE CODE		"Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.
	LINE CODE		"Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

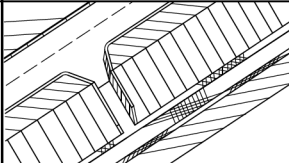
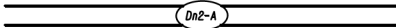
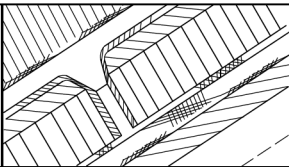
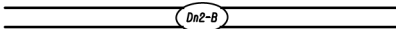
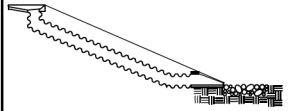
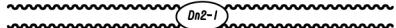
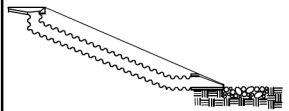
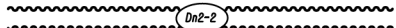
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.
	LINE CODE		"Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
Ch-3	CONCRETE CHANNEL STABILIZATION		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >= 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM.
	CONSTRUCTION DETAIL D-10, D-49 SECTION 441	LINE CODE	"Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
Co	CONSTRUCTION EXIT		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I.e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS.
	CONSTRUCTION DETAIL D-41 SECTION 163,800	SYMBOL	ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT. 
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED IN A NATURAL STREAM. THIS IS A MEASURE USED TO PROTECT STREAM BEDS FROM EROSION. LINE THE CHANNEL WITH GEOTEXTILE OR POLYETHYLENE FILM. INSTALL TWO ROWS OF Sd1-S PARALLEL TO THE CHANNEL TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STREAM. THE SIZE OF THE CHANNEL WILL DEPEND ON THE DISCHARGE, CHANNEL GEOMETRY, CHANNEL SLOPE AND ROUGHNESS. IT IS ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps.
	SECTION 163	LINE CODE	THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE. 

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

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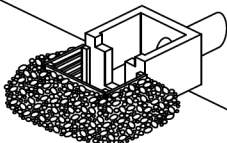
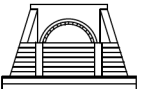
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE 'A' IS USED TO DIRECT SURFACE RUNOFF DOWN A ROADWAY SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN ALL DEPRESSED AREAS WHERE WATER WILL FLOW DOWN THE SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OTHER CRITERIA).
	LINE CODE 		
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441		A CONCRETE FLUME TYPE 'B' IS USED TO DIRECT SURFACE DITCH RUNOFF DOWN A BACK SLOPE INTO ANOTHER FORM OF CONTROL. IT IS USED IN DEPRESSED AREAS WHERE CONCENTRATED OFFSITE WATER REACHES THE CUT SLOPE. IT IS DESIGNED TO SAFELY CONVEY WATER DOWN THE CUT SLOPE. IT IS DESIGNED FOR A 25-YEAR STORM AND MUST HAVE SOME FORM OF OUTLET PROTECTION. ADDITIONAL LABELING IS NOT REQUIRED IF SHOWN AS A PERMANENT DRAINAGE STRUCTURE ON THE CONSTRUCTION PLANS. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TPI, 9017J TPI, DETAIL D-26 TPI SECTION 576, 577		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577		CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURB, IN A SAG, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

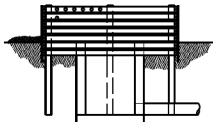
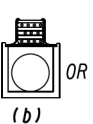
REVISION DATES 3/2/2017			EROSION CONTROL LEGEND UNIFORM CODE SHEET SHEET 4 OF 7			
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			CORRECTED:		DATE:	
			VERIFIED:		DATE:	

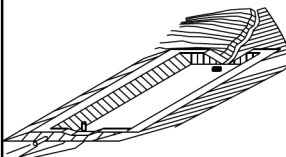
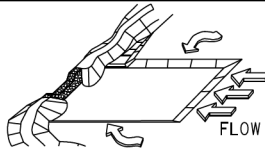
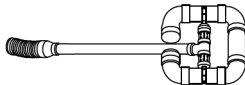
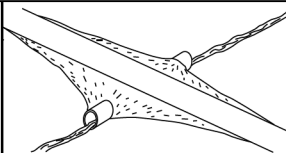
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION ON USAGE.
	SYMBOL 		
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
	SYMBOL 		
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT. THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
	LINE CODE 		
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
	PATTERN 		
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5' - 1.0' SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL Rt-B		
Rt-Sg1 Rt-Sg2 Rt-Sg3	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163	 FRONT VIEW	A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1=TYPE 1: USED ON BOX CULVERTS Rt-Sg2=TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3=TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS
SYMBOL Rt-Sg1 Rt-Sg2 Rt-Sg3			
SdI-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'.
	LINE CODE — A — A — A — SdI-NS — A — A — A —		IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.
SdI-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER.
	LINE CODE — C — C — C — SdI-S — C — C — C —		ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.

NOTE:

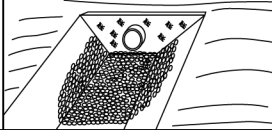
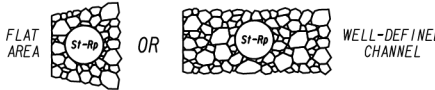
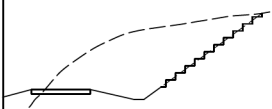
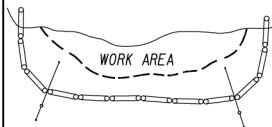
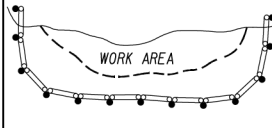
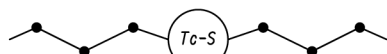
1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT-OF-WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
	LINE CODE * * * Sd1-BB * * *		
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
	SYMBOL Sd2-B		
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 5 - 7 cfs.
	SYMBOL Sd2-Bg		
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C SECTION 163	 OR  OR 	(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN. (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%. THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
	SYMBOL Sd2-F		
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES THAT RANGE FROM 3 - 5 cfs.
	SYMBOL Sd2-G		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS.
	SYMBOL Sd3		SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET.
	SYMBOL Sd4-C		A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS.
	SYMBOL Sk		SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
Sr	TEMPORARY STREAM CROSSING SECTION 107		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN.
	SYMBOL Sr		THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!

NOTE:

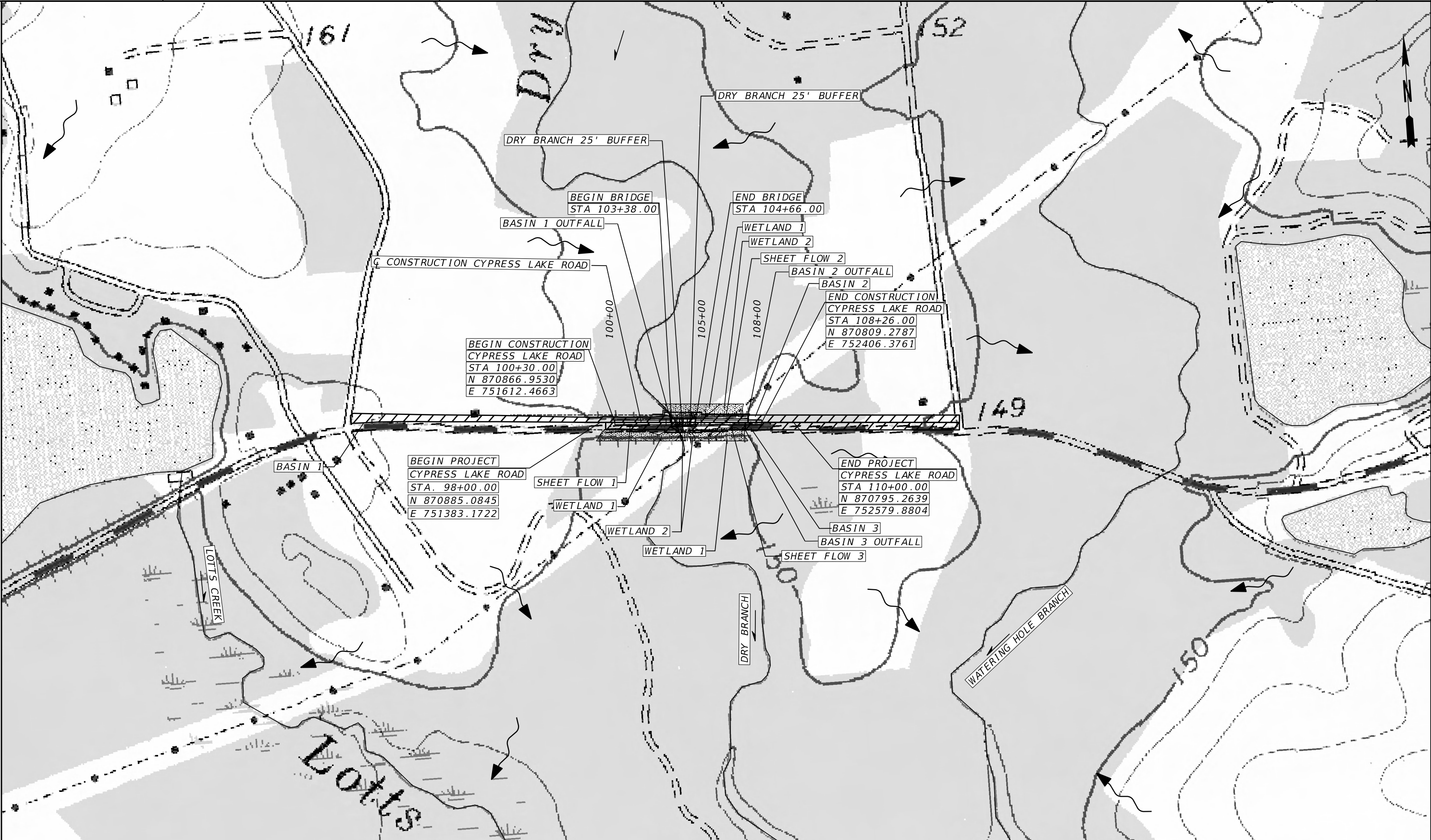
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. IT IS USED ON THE OUTLET OF ALL BOX CULVERTS AND ON 48" AND LARGER PIPES. MAY BE USED ON INLET FOR FLOWING STREAMS. USE ON SMALL PIPES WHEN OUTLET VELOCITY OF THE 25-YEAR STORM IS 12 fps AND GREATER.
	SYMBOL 		
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 <1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 <0.7 FEET. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
	PATTERN 		
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
	LINE CODE 		
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170		A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
	LINE CODE 		
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170		A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
	LINE CODE 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
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1. TOTAL PROJECT AREA = 1.87 AC
2. TOTAL DISTURBED AREA = 1.75 AC
3. CONTRACTOR TO SEE THE CONSTRUCTION RESTRICTIONS IN THE ENVIRONMENTAL RESOURCES IMPACT TABLE IN THE GENERAL NOTES (SECTION 4) ON ALL FEATURES DELINEATED WITH ESA INVERTED SAW-TOOTHED LINES.
4. SEE PLAN SHEETS FOR LOCATION OF ORANGE BARRIER FENCE.



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REVISION DATES

EROSION CONTROL DRAINAGE AREA MAP
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

53-0001

BASIN NO.	OUTFALL LOCATION AND DESCRIPTION				AVG. OUTFALL CHANNEL SLOPE (%)	DISTURBED AREA	CONTRIBUTING AREA (ac)	PRE - RUNOFF COEFFICIENT			PRE - RUNOFF (CFS)			PRE - VELOCITY (FPS)		POST - RUNOFF COEFFICIENT			POST - RUNOFF (CFS)			POST - VELOCITY (FPS)	
	ROAD	STATION	OFFSET	OUTFALL DESCRIPTION				C ₂₅	C ₅₀	C ₁₀₀	(cfs) Q ₂₅	(cfs) Q ₅₀	(cfs) Q ₁₀₀	(fps) V ₅₀	(fps) V ₁₀₀	C ₂₅	C ₅₀	C ₁₀₀	(cfs) Q ₂₅	(cfs) Q ₅₀	(cfs) Q ₁₀₀	(fps) V ₅₀	(fps) V ₁₀₀
Basin 1	Cypress Lake Road	103+83.54	55' LT	Proposed Ditch	3.0%	0.53	1.39	0.38	0.41	0.43	3.45	4.36	5.23	7.39	7.68	0.35	0.39	0.42	3.56	4.51	5.40	8.34	8.82
Basin 2	Cypress Lake Road	107+18.00	33' LT	Proposed Ditch	0.7%	0.11	1.05	0.34	0.38	0.39	2.39	3.02	3.62	9.64	10.00	0.31	0.34	0.37	2.35	2.97	3.56	9.34	9.70
Basin 3	Cypress Lake Road	107+18.00	33' RT	Existing Ditch	0.3%	0.12	1.07	0.36	0.40	0.41	2.57	3.25	3.89	2.06	2.08	0.32	0.35	0.38	2.47	3.13	3.75	1.90	1.98

SHEET FLOW	DISTURBED AREA	CONTRIBUTING AREA (ac)
Sheet Flow 1	0.38	0.41
Sheet Flow 2	0.32	0.35

06E7135
06E7135
06E7135
SHE7115

06E7135
06E7135
06E7135
SHE7065

06E7135
06E7135
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SHE7115

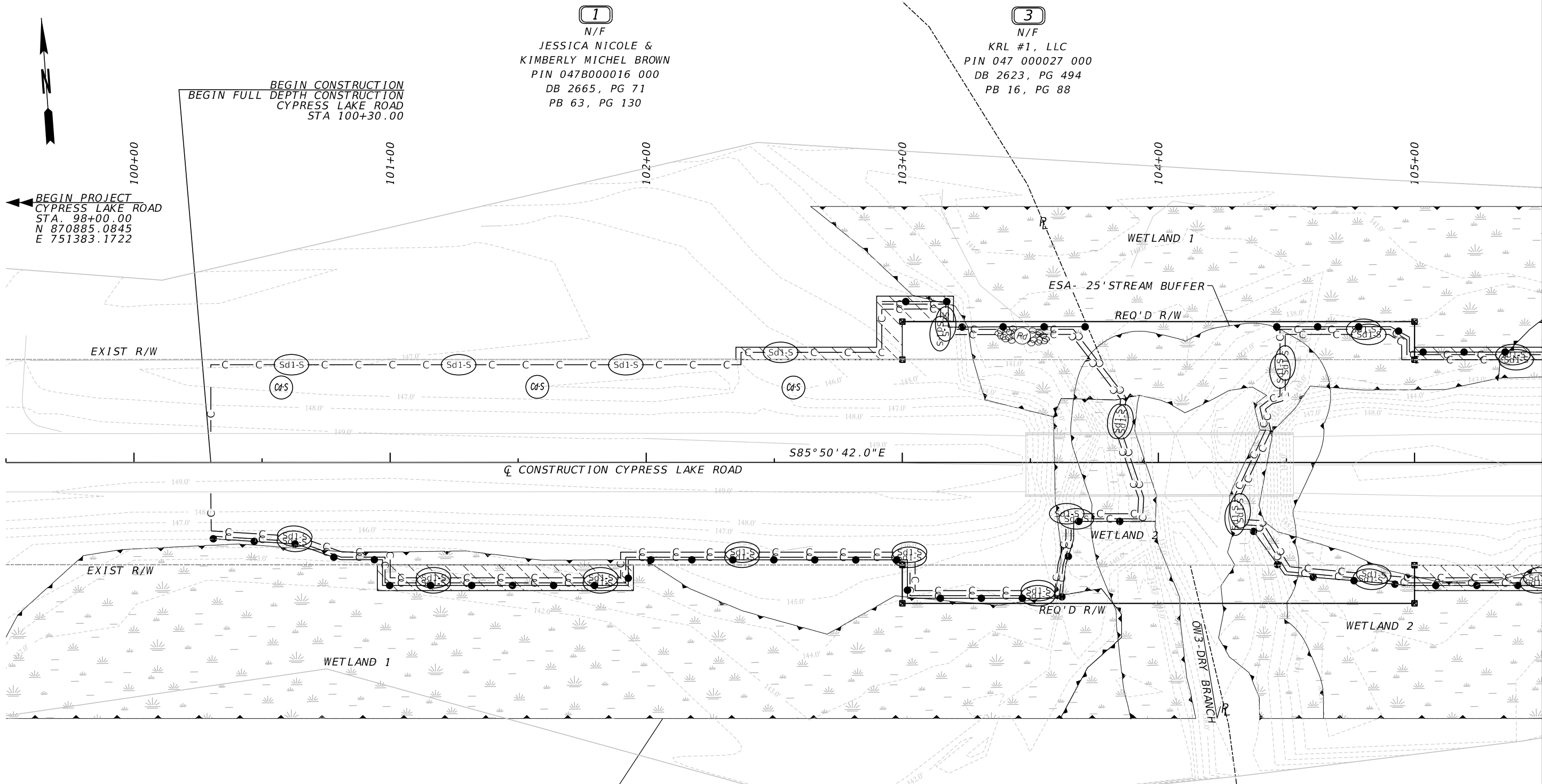


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REVISION DATES

EROSION CONTROL DRAINAGE AREA MAP
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:		DATE:		DRAWING No.: 53-0002
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



Initial Phase: Work in this stage includes installing initial BMPs.
A. Initial BMPs: Install the following BMPs prior to clearing and grubbing and any construction activities:
1. Install Perimeter slit fence, stone check dams, and rock filter dams as shown on Initial Phase plans.
2. Contractor is responsible for establishing construction exits.
B. Intermediate BMPs: N/A
C. Final BMPs: N/A

PROPERTY AND EXISTING R/W LINE	-----E-----	BEGIN LIMIT OF ACCESS.....BLA	-----OOO-----
REQUIRED R/W LINE	-----C-----	END LIMIT OF ACCESS.....ELA	-----OOO-----
CONSTRUCTION LIMITS	-----F-----	EXISTING LIMIT OF ACCESS	-----OOO-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	//////	REQ'D LIMIT OF ACCESS	-----III-----
EASEMENT FOR CONSTR OF SLOPES	//////	EXISTING LIMIT OF ACCESS & R/W	-----III-----
EASEMENT FOR CONSTR OF DRIVES	XXXX	REQ'D LIMIT OF ACCESS & R/W	-----III-----
		ORANGE BARRIER FENCE	●●●●●
		ESA - ENV. SENSITIVE AREA	▲▲▲▲▲



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Sandy Springs, Georgia 30328
770.424.1668

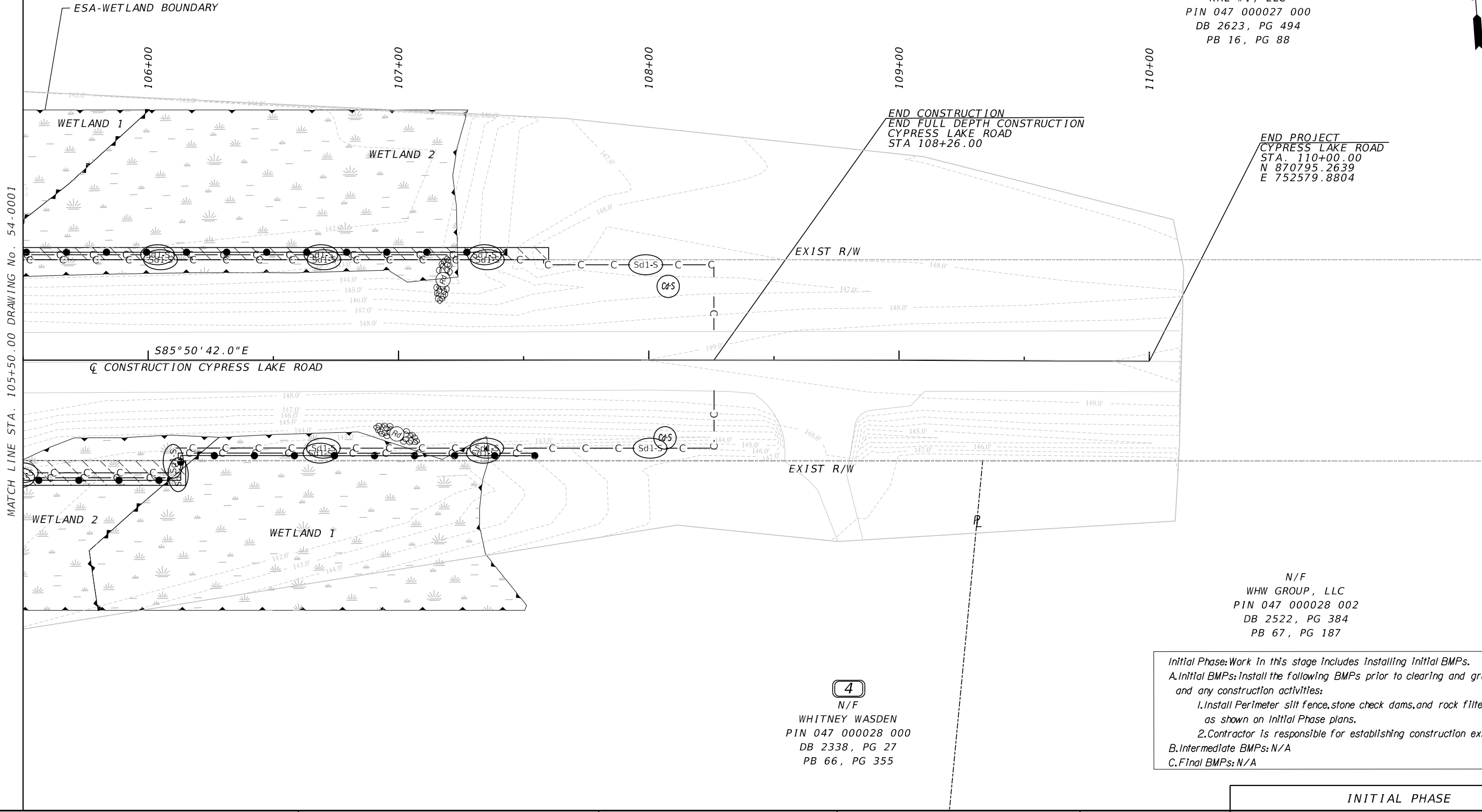


REVISION DATES		

INITIAL PHASE

BMP LOCATION DETAILS
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:	DATE:	DRAWING No. 54-0001
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 105+50.00 DRAWING No. 54-0001

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

-----E-----

---C---F---

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

---ooo---

ooo---

-----III-----

III

●

●

▼

▼

H&L

A BCC COMPANY

Heath & Lineback

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Sandy Springs, Georgia 30328
770.424.1668

SCALE IN FEET

0

20

40

80

REVISION DATES

INITIAL PHASE

BMP LOCATION DETAILS
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
54-0002

3
N/F
KRL #1, LLC
PIN 047 000027 000
DB 2623, PG 494
PB 16, PG 88

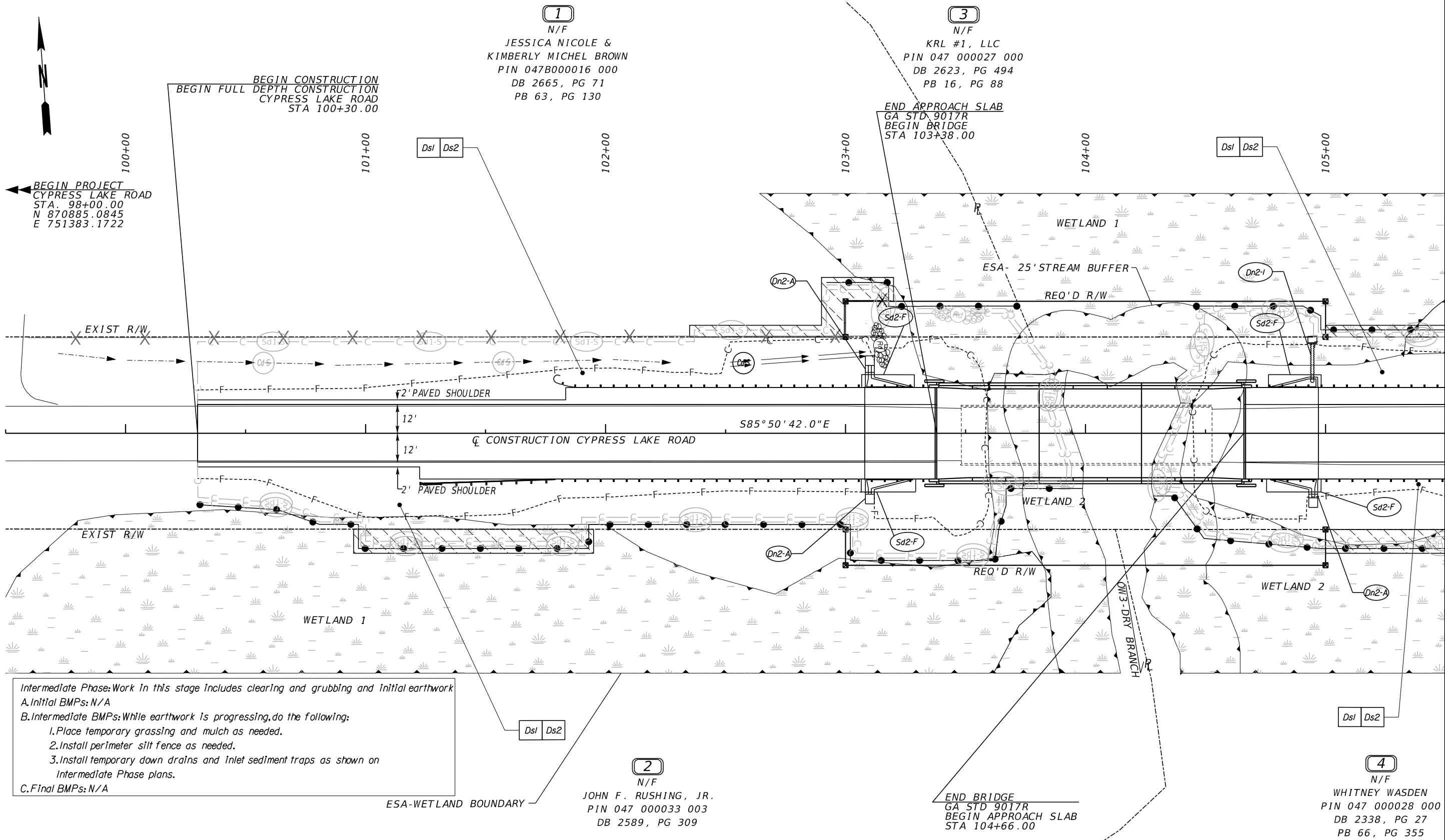
END CONSTRUCTION
END FULL DEPTH CONSTRUCTION
CYPRESS LAKE ROAD
STA 108+26.00

END PROJECT
CYPRESS LAKE ROAD
STA. 110+00.00
N 870795.2639
E 752579.8804

N/F
WHW GROUP, LLC
PIN 047 000028 002
DB 2522, PG 384
PB 67, PG 187

4
N/F
WHITNEY WASDEN
PIN 047 000028 000
DB 2338, PG 27
PB 66, PG 355

Initial Phase: Work in this stage includes installing initial BMPs.
A. Initial BMPs: Install the following BMPs prior to clearing and grubbing and any construction activities:
1. Install Perimeter silt fence, stone check dams, and rock filter dams as shown on Initial Phase plans.
2. Contractor is responsible for establishing construction exits.
B. Intermediate BMPs: N/A
C. Final BMPs: N/A



Intermediate Phase: Work in this stage includes clearing and grubbing and initial earthwork

A. Initial BMPs: N/A

B. Intermediate BMPs: While earthwork is progressing, do the following:

1. Place temporary grassing and mulch as needed.
2. Install perimeter silt fence as needed.
3. Install temporary down drains and inlet sediment traps as shown on Intermediate Phase plans.

C. Final BMPs: N/A

PROPERTY AND EXISTING R/W LINE	-----E-----
REQUIRED R/W LINE	-----C-----
CONSTRUCTION LIMITS	-----F-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	XXXXX

BEGIN LIMIT OF ACCESS.....BLA	-----O-----
END LIMIT OF ACCESS.....ELA	-----O-----
EXISTING LIMIT OF ACCESS	-----O-----
REQ'D LIMIT OF ACCESS	-----O-----
EXISTING LIMIT OF ACCESS & R/W	-----O-----
REQ'D LIMIT OF ACCESS & R/W	-----O-----
ORANGE BARRIER FENCE	-----O-----
ESA - ENV. SENSITIVE AREA	-----O-----



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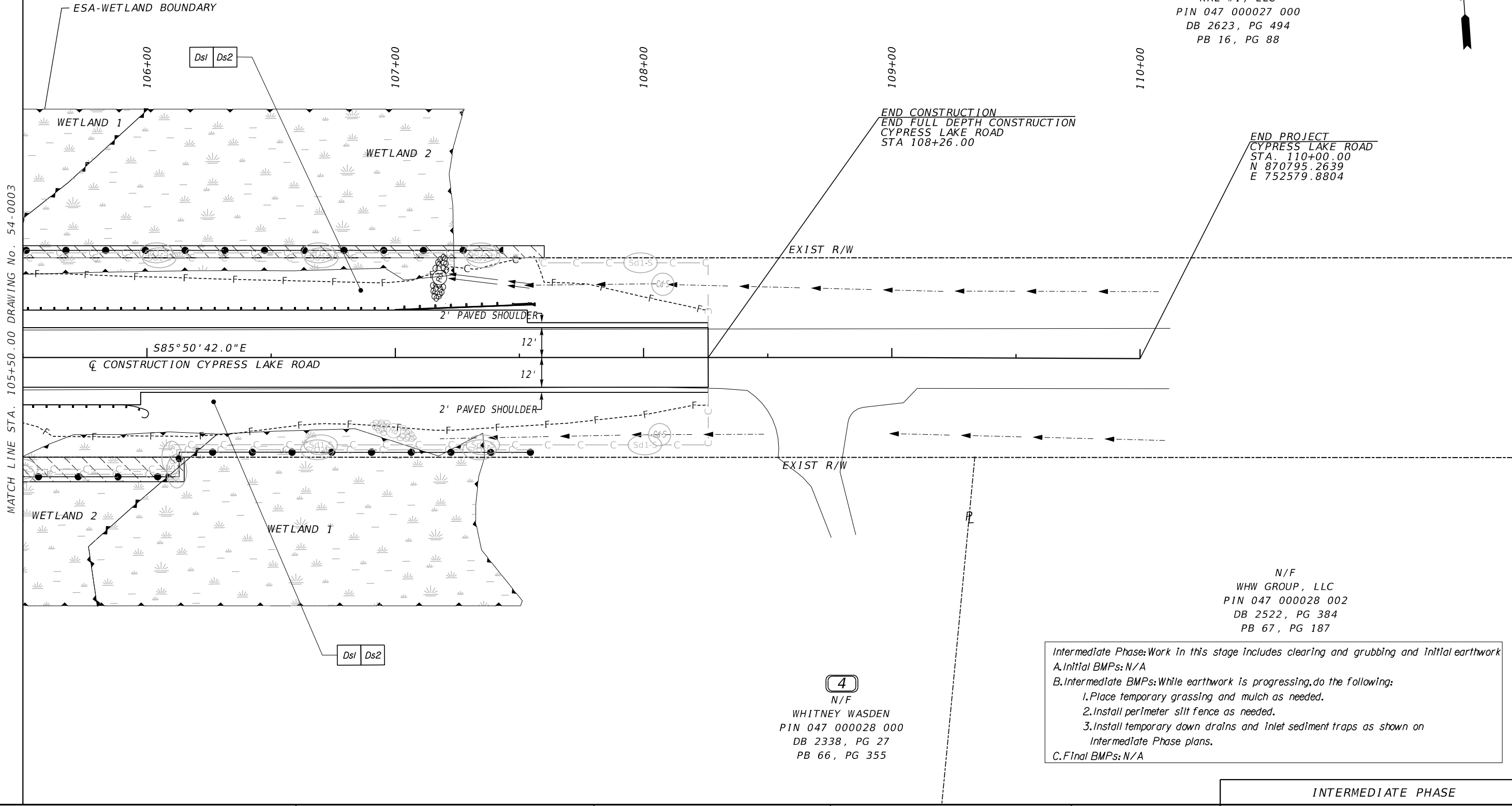
REVISION DATES			

INTERMEDIATE PHASE

BMP LOCATION DETAILS
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
54-0003



3
N/F
KRL #1, LLC
PIN 047 000027 000
DB 2623, PG 494
PB 16, PG 88

END PROJECT
CYPRESS LAKE ROAD
STA. 110+00.00
N 870795.2639
E 752579.8804

END CONSTRUCTION
END FULL DEPTH CONSTRUCTION
CYPRESS LAKE ROAD
STA 108+26.00

N/F
WHW GROUP, LLC
PIN 047 000028 002
DB 2522, PG 384
PB 67, PG 187

4
N/F
WHITNEY WASDEN
PIN 047 000028 000
DB 2338, PG 27
PB 66, PG 355

Intermediate Phase: Work in this stage includes clearing and grubbing and initial earthwork
A. Initial BMPs: N/A
B. Intermediate BMPs: While earthwork is progressing, do the following:
1. Place temporary grassing and mulch as needed.
2. Install perimeter silt fence as needed.
3. Install temporary down drains and inlet sediment traps as shown on Intermediate Phase plans.
C. Final BMPs: N/A

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

-----E-----
-----C-----F-----

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

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Sandy Springs, Georgia 30328
770.424.1668

SCALE IN FEET

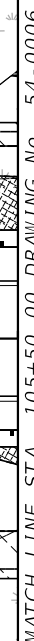
REVISION DATES

INTERMEDIATE PHASE
BMP LOCATION DETAILS
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

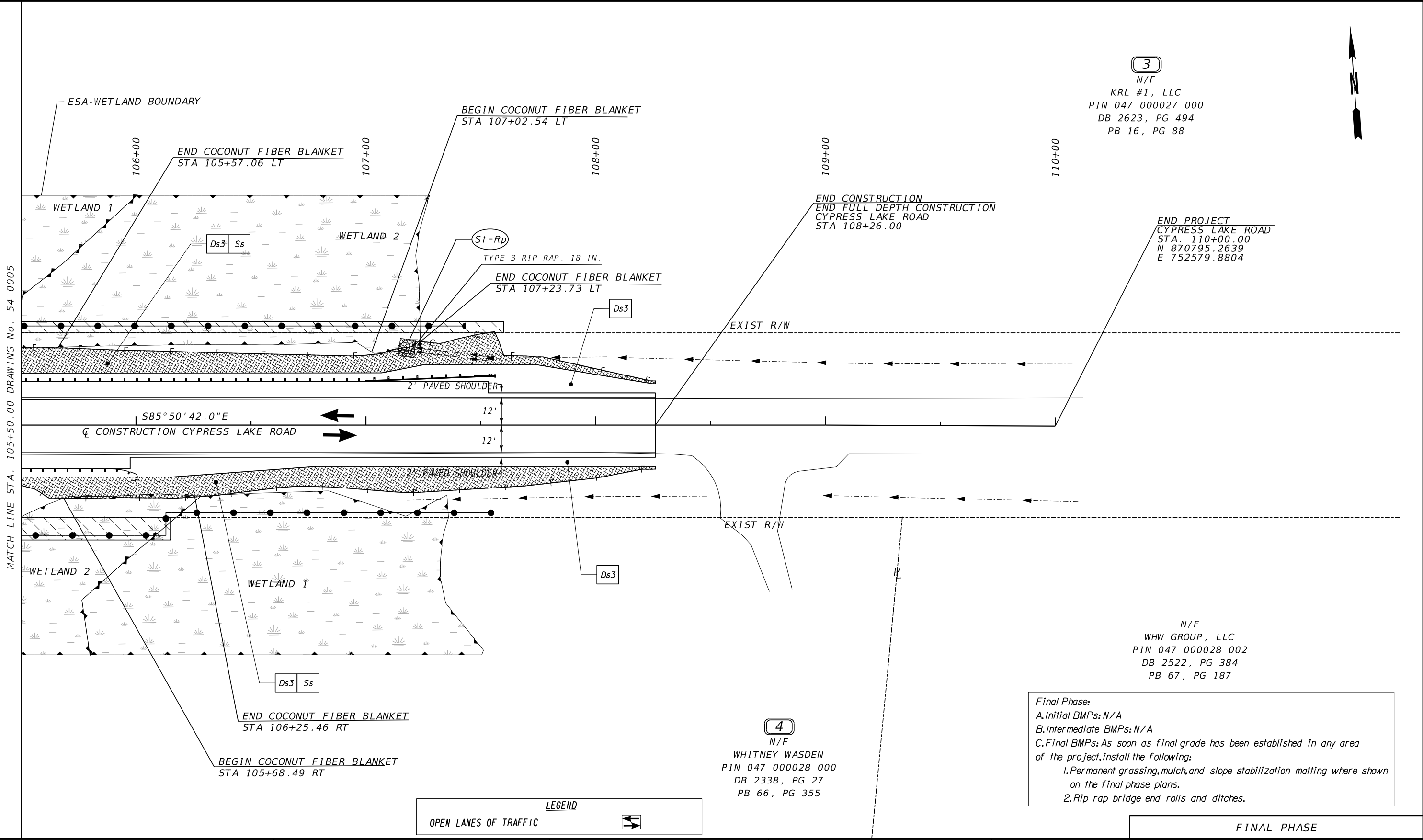
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BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
54-0004

GPLN-CE



CHECKED:	DATE:	DRAWING No. 54-0005
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

-----E-----
-----C-----F-----

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

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A BCC COMPANY

LEGEND
OPEN LANES OF TRAFFIC

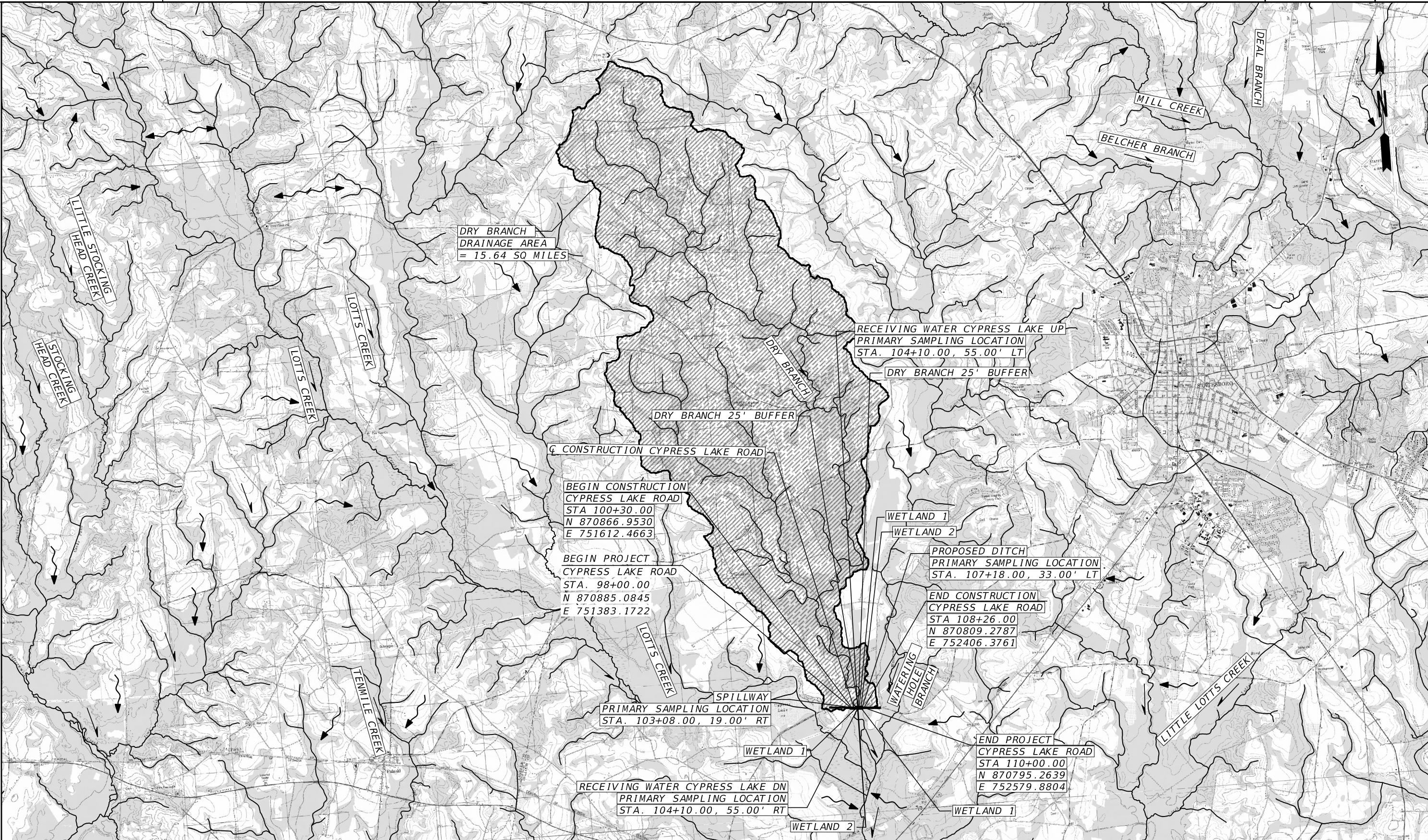
SCALE IN FEET
0 20 40 80

REVISION DATES

FINAL PHASE
BMP LOCATION DETAILS
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No.
54-0006



1. TOTAL PROJECT AREA • 1.87 AC
2. TOTAL DISTURBED AREA • 1.75 AC
3. TOTAL DRAINAGE AREA • 15.64 SQ MILES
4. CONTRACTOR TO SEE THE CONSTRUCTION RESTRICTIONS IN THE ENVIRONMENTAL RESOURCES IMPACT TABLE IN THE GENERAL NOTES (SECTION 4) ON ALL FEATURES DELINEATED WITH ESA INVERTED SAW-TOOTHED LINES.
5. SEE PLAN SHEETS FOR LOCATION OF ORANGE BARRIER FENCE.



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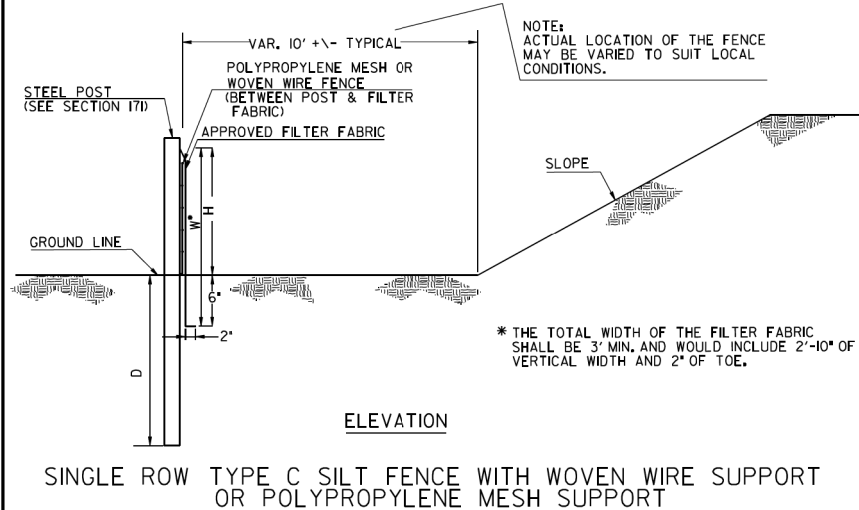
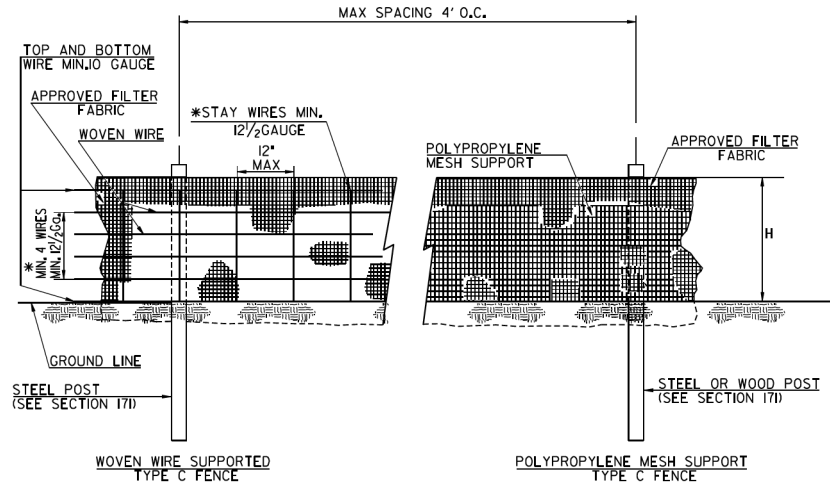
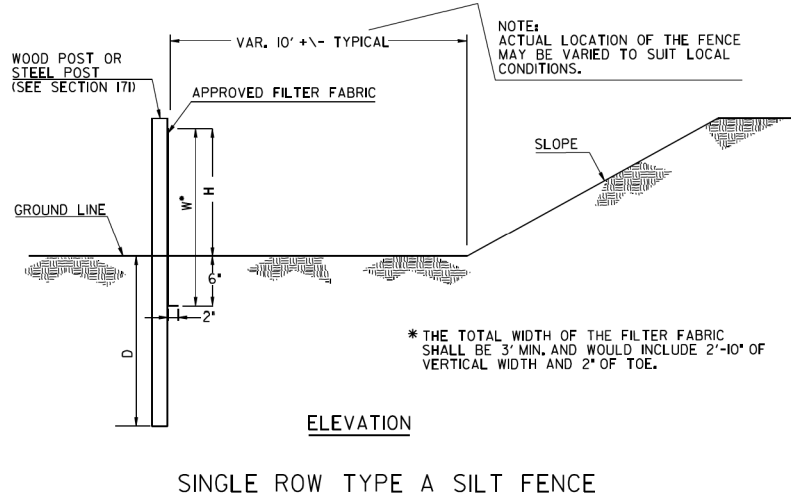
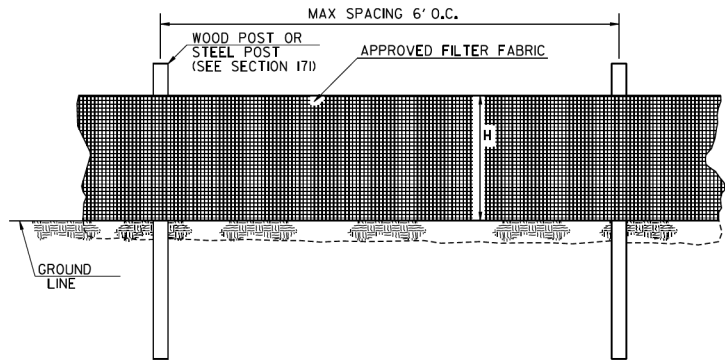
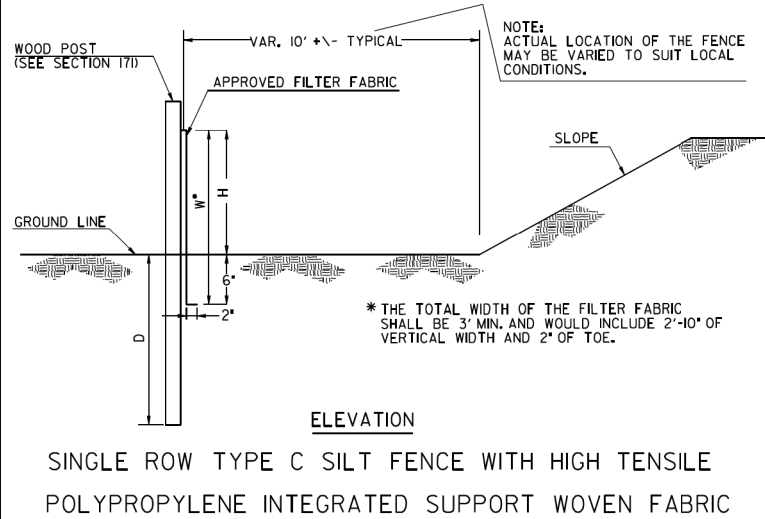
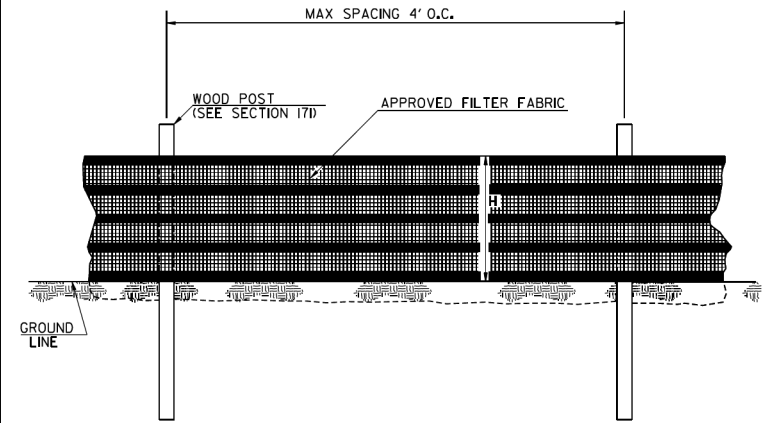


REVISION DATES

WATERSHED MAP
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		

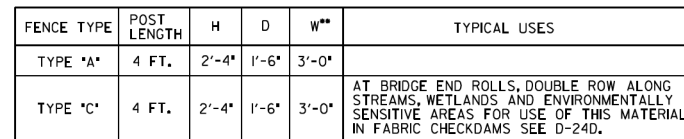
55-0001



FENCE TYPE	POST LENGTH	H	D	W*	TYPICAL USES
TYPE "A"	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE "C"	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

- NOTES:
- WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST 1/2 INCHES LONG AND A CROWN AT LEAST 3/4 INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG, WITH BUTTON HEADS AT LEAST 3/4 INCHES WIDE.
 - SEE SECTION 171 FOR PLACEMENT OF NAILS OR STAPLES FOR TYPE A AND TYPE C FENCES.
 - THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.
 - TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
 - SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
 - SEE SECTION 894 FOR FENCING SPECIFICATIONS.
 - SEE OPL-36 FOR A LIST OF APPROVED SILT FENCE FABRIC.
 - TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

			09-2022	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
			REVISION		CONSTRUCTION DETAIL
					TEMPORARY SILT FENCE
			AL	BY	JANUARY 2011 NO SCALE
					NUMBER D-24A 1 OF 4



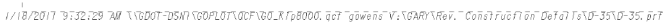
	09-2022	DEPARTMENT OF TRANSPORTATION	
	DATE	STATE OF GEORGIA	
	FABRIC WIDTH CLARIFICATION	CONSTRUCTION DETAILS TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER	
	REVISION		
BAS	BY	REV. AND REDRAWN JAN. 2011 NO SCALE	NUMBER D-24B (SHEET 2 OF 4)

REVISION DATES

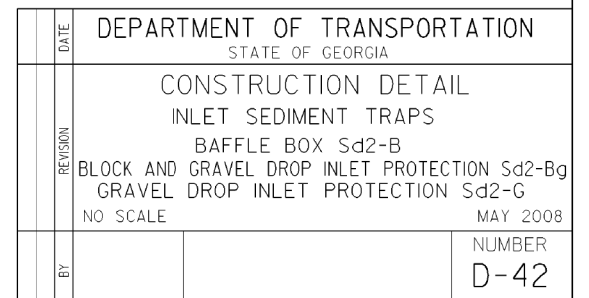
EROSION CONTROL CONSTRUCTION DETAILS
CYPRESS LAKE ROAD AT DRY BRANCH
BRIDGE REPLACEMENT

CHECKED:	DATE:	DRAWING No. 56-0002
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

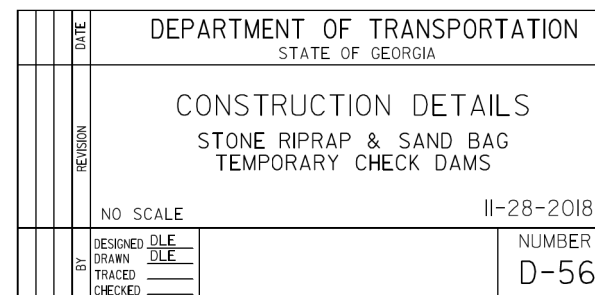
6-0003







CHECKED:	DATE:	DRAWING No. 56-0006
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	





NOTE: THE CO-ORDINATES LISTED ARE EAST ZONE
GRID CO-ORDINATES BASED ON THE GA. STATE PLANE
CO-ORDINATE SYSTEM OF 1984.
HORIZONTAL DATUM : NAD 1983/11 HARN
VERTICAL DATUM : NAVD 1998

CONVENTIONAL SIGNS

LAND LOT LINE.....			
PROPERTY LINE.....		—E—	
RIGHT OF WAY LINE	{	EXISTING.....	—
		REQUIRED.....	—
		EXISTING LIMIT OF ACCESS.....	—
		REQD LIMIT OF ACCESS.....	—○○○—
		EXISTING LIMIT OF ACCESS & R/W.....	—○○○—
		REQD LIMIT OF ACCESS & R/W.....	— —
		R/W MARKERS.....	— — ⊠
FENCE.....		—X—X—X—	



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10 Glenlake Pkwy NE, North Tower, Suite 800
Sandy Springs, Georgia 30328
770.424.1668

PLANS PREPARED BY

PLANS_COMPLETED_DATE: 12/08/2025

REVISIONS:

[illegible]

PROJECT NUMBER - E15
BULLOCH COUNTY
FUNCTIONAL CLASSIFICATION - MINOR COLLECTOR
GMD 1209

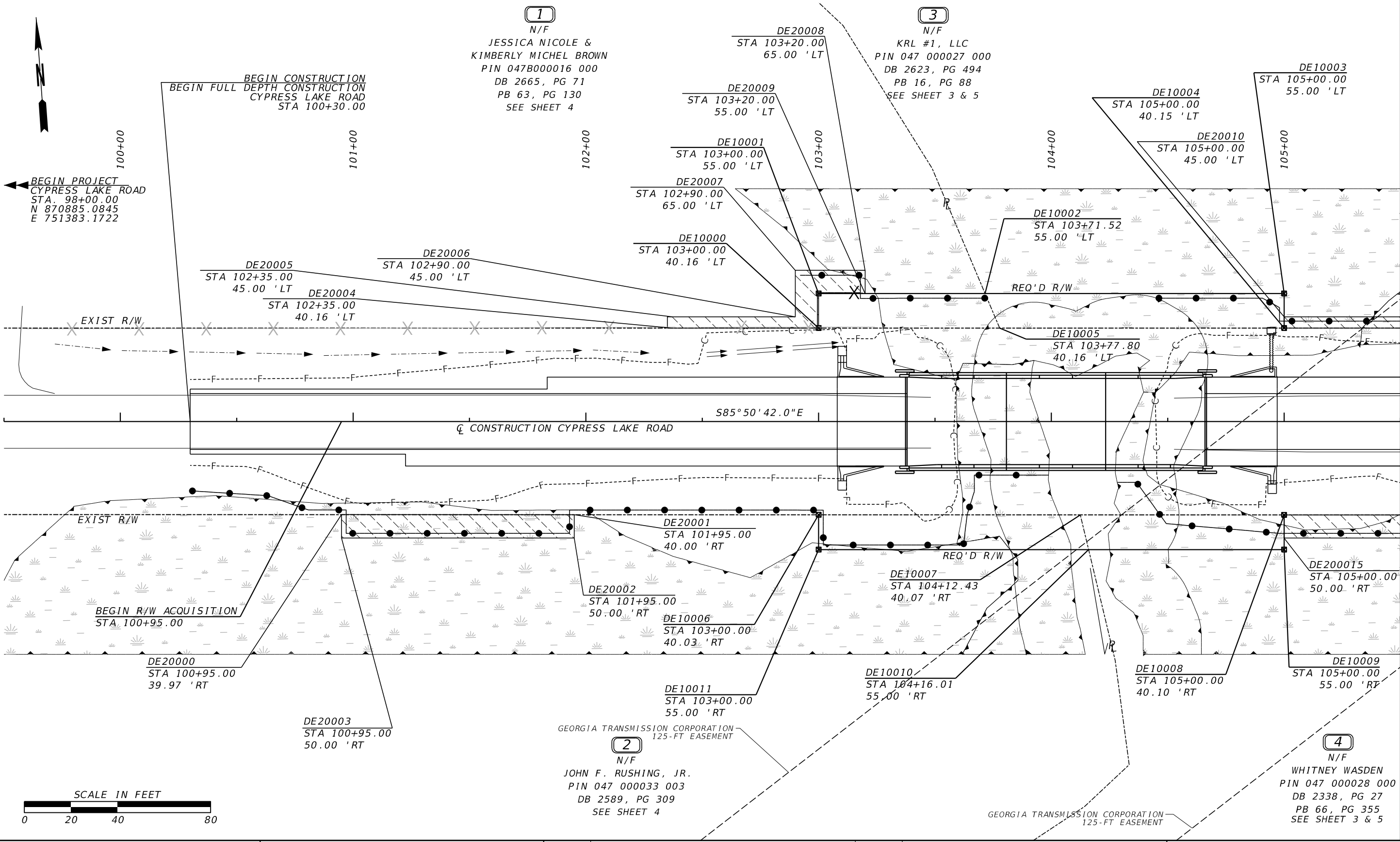


LENGTH OF RIGHT OF WAY PROJECT	COUNTY NO. 31
	MILES
NET LENGTH OF RIGHT OF WAY	0.126
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF RIGHT OF WAY	0.126

THIS PROJECT IS LOCATED 100% IN BULLOCH COUNTY
AND CONGRESSIONAL DISTRICT 12.

DRAWING No.

60- 0001



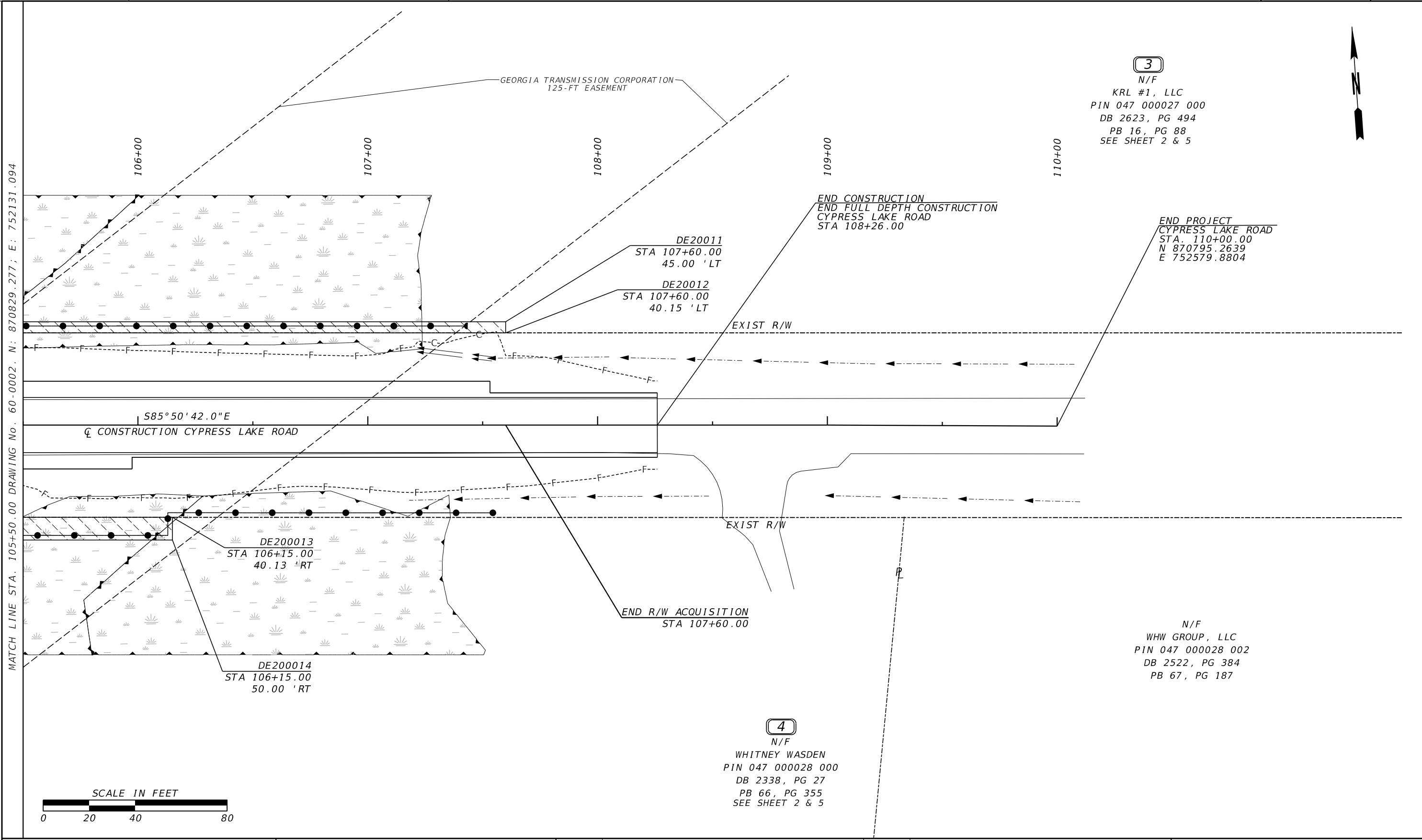
PROPERTY AND EXISTING R/W LINE REQUIRED R/W LINE CONSTRUCTION LIMITS EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES EASEMENT FOR CONSTR OF SLOPES EASEMENT FOR CONSTR OF DRIVES	-----E-----	BEGIN LIMIT OF ACCESS.....BLA	— — ∞ — — — ∞ — -----III----- — III — ● — ● — ● ▼ — ▼ — ▼	DATE	REVISIONS	DATE	REVISIONS	BULLOCH COUNTY	
	-----	END LIMIT OF ACCESS.....ELA						RIGHT OF WAY MAP	
	---C---F---	EXISTING LIMIT OF ACCESS						PROJECT NO. E15 COUNTY: BULLOCH LAND LOT NO: LAND DISTRICT: GMD 1209 DATE 12/08/2025	SH 2 OF 5
		REQ'D LIMIT OF ACCESS							
		EXISTING LIMIT OF ACCESS & R/W							
	REQ'D LIMIT OF ACCESS & R/W							DRAWING No. 60-0002	
	ORANGE BARRIER FENCE								
	ESA - ENV. SENSITIVE AREA								



MATCH LINE STA. 105+50.00 DRAWING No. 60-0002. N: 870829.277; E: 752131.094

ASB/JSK
BSE/JSK
BSE/JSK
BSE/JSK
BSE/JSK

ME/JSK
BSE/JSK
BSE/JSK
BSE/JSK
BSE/JSK

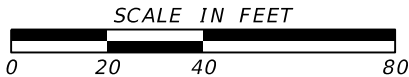


3
N/F
KRL #1, LLC
PIN 047 000027 000
DB 2623, PG 494
PB 16, PG 88
SEE SHEET 2 & 5

END PROJECT
CYPRESS LAKE ROAD
STA. 110+00.00
N 870795.2639
E 752579.8804

N/F
WHW GROUP, LLC
PIN 047 000028 002
DB 2522, PG 384
PB 67, PG 187

4
N/F
WHITNEY WASDEN
PIN 047 000028 000
DB 2338, PG 27
PB 66, PG 355
SEE SHEET 2 & 5



PROPERTY AND EXISTING R/W LINE REQUIRED R/W LINE CONSTRUCTION LIMITS EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES EASEMENT FOR CONSTR OF SLOPES EASEMENT FOR CONSTR OF DRIVES	-----E-----	BEGIN LIMIT OF ACCESS.....BLA		DATE	REVISIONS	DATE	REVISIONS	BULLOCH COUNTY					
	-----	END LIMIT OF ACCESS.....ELA							RIGHT OF WAY MAP				
	--C--F--	EXISTING LIMIT OF ACCESS								PROJECT NO. E15 COUNTY: BULLOCH LAND LOT NO: LAND DISTRICT: GMD 1209 DATE 12/08/2025	SH 3 OF 5		
		REQ'D LIMIT OF ACCESS											DRAWING No.
		EXISTING LIMIT OF ACCESS & R/W											
	REQ'D LIMIT OF ACCESS & R/W												
	ORANGE BARRIER FENCE												
	ESA - ENV. SENSITIVE AREA												



ME1/05
ME1/04
ME1/03
ME1/02
ME1/01
20111113

ME1/05
ME1/04
ME1/03
ME1/02
ME1/01
20111113

GRWPLN-CE

ME1/05
ME1/04
ME1/03
ME1/02
ME1/01
20111113

PARCEL 1
DE83
REQ'D R/W

SEE SHEET 2

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE10000	40.163	L	103+00.00	CYPRESS LAKE ROAD
	14.837		N04°09'18.01"E	
DE10001	55.000	L	103+00.00	CYPRESS LAKE ROAD
	71.524		S85°50'42.00"E	
DE10002	55.000	L	103+71.52	CYPRESS LAKE ROAD
	16.115		S18°46'02.01"E	
DE10005	40.158	L	103+77.80	CYPRESS LAKE ROAD
	77.801		N85°50'28.85"W	
DE10000	40.163	L	103+00.00	CYPRESS LAKE ROAD
REQD R/W	= 1107.98	SF		
REQD R/W	= 0.025	ACRES		
REMAINDER	= +/- 3.6	ACRES		

PARCEL 1
DE58
EASM'T. FOR CONST. OF SLOPES

SEE SHEET 2

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE20004	40.16	L	102+35.00	CYPRESS LAKE ROAD
	4.84		N04°09'18.01"E	
DE20005	45.00	L	102+35.00	CYPRESS LAKE ROAD
	55.00		S85°50'43.37"E	
DE20006	45.00	L	102+90.00	CYPRESS LAKE ROAD
	20.00		N04°09'18.01"E	
DE20007	65.00	L	102+90.00	CYPRESS LAKE ROAD
	30.00		S85°50'41.96"E	
DE20008	65.00	L	103+20.00	CYPRESS LAKE ROAD
	10.00		S04°09'18.01"W	
DE20009	55.00	L	103+20.00	CYPRESS LAKE ROAD
	20.00		N85°50'42.00"W	
DE10001	55.00	L	103+00.00	CYPRESS LAKE ROAD
	14.84		S04°09'18.01"W	
DE10000	40.16	L	103+00.00	CYPRESS LAKE ROAD
	65.00		N85°50'46.29"W	
DE20004	40.16	L	102+35.00	CYPRESS LAKE ROAD
REQD EASMT	= 714.49	SF		
REQD EASMT	= 0.016	ACRES		

PARCEL 2
DE76
REQ'D R/W

SEE SHEET 2

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE10006	40.03	R	103+00.00	CYPRESS LAKE ROAD
	112.43		S85°49'37.02"E	
DE10007	40.07	R	104+12.43	CYPRESS LAKE ROAD
	15.36		S09°20'13.87"E	
DE10010	55.00	R	104+16.01	CYPRESS LAKE ROAD
	116.01		N85°50'41.99"W	
DE10011	55.00	R	103+00.00	CYPRESS LAKE ROAD
	14.97		N04°09'18.01"E	
DE10006	40.03	R	103+00.00	CYPRESS LAKE ROAD
REQD R/W	= 1707.52	SF		
REQD R/W	= 0.039	ACRES		
REMAINDER	= +/- 5.9	ACRES		

PARCEL 2
DE57
EASM'T. FOR CONST. OF SLOPES

SEE SHEET 2

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE20000	39.97	R	100+95.00	CYPRESS LAKE ROAD
	100.00		S85°49'37.02"E	
DE20001	40.00	R	101+95.00	CYPRESS LAKE ROAD
	10.00		S04°09'18.01"W	
DE20002	50.00	R	101+95.00	CYPRESS LAKE ROAD
	100.00		N85°50'41.99"W	
DE20003	50.00	R	100+95.00	CYPRESS LAKE ROAD
	10.03		N04°09'18.01"E	
DE20000	39.97	R	100+95.00	CYPRESS LAKE ROAD
REQD EASMT	= 1001.66	SF		
REQD EASMT	= 0.023	ACRES		

DATE	REVISIONS	DATE	REVISIONS	BULLOCH COUNTY	
				RIGHT OF WAY MAP	
				PROJECT NO. E15 COUNTY: BULLOCH LAND LOT NO: LAND DISTRICT: GMD 1209 DATE 12/08/2025	
				SH 4 OF 5	DRAWING No. 60-0004



REF 158
REF 148
REF 138
REF 128
REF 118

REF10S
REF09S
REF08S
REF07S
REF06S

 PARCEL 3 SEE SHEET 2 & 3
 DE71
 REQ'D R/W

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE10005	40.158	L	103+77.80	CYPRESS LAKE ROAD
	16.115		N18°46'02.01"W	
DE10002	55.000	L	103+71.52	CYPRESS LAKE ROAD
	128.476		S85°50'42.00"E	
DE10003	55.000	L	105+00.00	CYPRESS LAKE ROAD
	14.846		S04°09'18.01"W	
DE10004	40.154	L	105+00.00	CYPRESS LAKE ROAD
	122.199		N85°50'36.08"W	
DE10005	40.158	L	103+77.80	CYPRESS LAKE ROAD
REQD R/W	= 1860.52		SF	
REQD R/W	= 0.043		ACRES	
REMAINDER	= +/- 46		ACRES	

 PARCEL 3 SEE SHEET 2 & 3
 DE59
 EASM'T. FOR CONST. OF SLOPES

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE10004	40.15	L	105+00.00	CYPRESS LAKE ROAD
	4.85		N04°09'18.01"E	
DE20010	45.00	L	105+00.00	CYPRESS LAKE ROAD
	260.00		S85°50'42.13"E	
DE20011	45.00	L	107+60.00	CYPRESS LAKE ROAD
	4.85		S04°09'18.00"W	
DE20012	40.15	L	107+60.00	CYPRESS LAKE ROAD
	260.00		N85°50'36.08"W	
DE10004	40.15	L	105+00.00	CYPRESS LAKE ROAD
REQD EASMT	=	1260.88	SF	
REQD EASMT	=	0.029	ACRES	

 PARCEL 4 SEE SHEET 2 & 3
 DE82
 REQ'D R/W

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10007	40.068 R	104+12.43	CYPRESS LAKE ROAD
	87.573	S85°49'37.02"E	
DE10008	40.095 R	105+00.00	CYPRESS LAKE ROAD
	14.905	S04°09'24.60"W	
DE10009	55.000 R	105+00.00	CYPRESS LAKE ROAD
	83.990	N85°50'41.99"W	
DE10010	55.000 R	104+16.01	CYPRESS LAKE ROAD
	15.356	N09°20'13.87"W	
DE10007	40.068 R	104+12.43	CYPRESS LAKE ROAD
REQD R/W	= 1279.70	SF	
REQD R/W	= 0.029	ACRES	
REMAINDER	= +/- 51	ACRES	

 PARCEL 4 SEE SHEET 2 & 3
 DE60
 EASM'T. FOR CONST. OF SLOPES

PNT	OFFSET/ DIST		STATION/ BEARING	ALIGNMENT
DE10008	40.10	R	105+00.00	CYPRESS LAKE ROAD
	115.00		S85°49'37.02"E	
DE20013	40.13	R	106+15.00	CYPRESS LAKE ROAD
	9.87		S04°09'18.01"W	
DE20014	50.00	R	106+15.00	CYPRESS LAKE ROAD
	115.00		N85°50'41.78"W	
DE20015	50.00	R	105+00.00	CYPRESS LAKE ROAD
	9.90		N04°09'18.01"E	
DE10008	40.10	R	105+00.00	CYPRESS LAKE ROAD
REQD EASMT	= 1136.91		SF	
REQD EASMT	= 0.026		ACRES	

DATE	REVISIONS	DATE	REVISIONS	BULLOCH COUNTY RIGHT OF WAY MAP PROJECT NO. E15 COUNTY: BULLOCH LAND LOT NO: LAND DISTRICT: GMD 1209 DATE 12/08/2025 SH 5 OF 5 DRAWING No. 60-0005	