

HARRIS TRAIL ROAD AND TIMBER TRAIL ROAD SIGNAL

PREPARED FOR:

BRYAN COUNTY BOARD OF COMMISSIONERS

T&H PROJECT NO.
J-27691.0122

ADDENDUM NO. 1

June 22, 2026

GENERAL

This Addendum has been issued on behalf of Bryan County Board of Commissioners. The following information should be considered by prospective bidders in preparation of their proposals and is hereby incorporated into the Proposal Documents. Bidders shall be responsible for acknowledging receipt of this addendum in the Bid Form, Document 00313. Failure to do so will result in the proposal being considered non responsive.

PART I – QUESTIONS AND CLARIFICATIONS:

A. QUESTIONS:

1. Question: Regarding the signal, the plans call for (1) pole with (1) mast arm and (1) pole with (2) mast arms, but the schedule of values only have an item for (2) poles with (2) mast arms each. Should this item be broken out into 2 different items?
Answer: Yes, this item has been broken into 2 separate items which can be seen on Page 27-0004 the Pay Items Table, and in the bid form.
2. Question: Plan sheet 13-002 shows 8' of 12"x18" RCEP, but the bid item is for 12" RCP Class III. Which is correct?
Answer: Plan sheet 13-0002 has been updated to show 12" RCP.
3. Question: What is the paving section for the one 20' wide asphalt driveway on sheet 13-0003? Should this include any base stone?
Answer: Plan sheet 04-0001 has been updated to include a note regarding the paving section for the asphalt drive.
4. Question: Can you provide cross-sections for the shoulders and ditches, or should we assume only light grading there with no import or export of material?
Answer: Light grading should be assumed for the shoulders. Surface files for the project can be sent upon request.
5. Question: What depth should we assume for the class B concrete on the Harris Trail shoulders?
Answer: Please refer to the Class "B" Concrete Base for Widening Detail on Page 05-0001. Assume a 6" maximum depth.
6. Question: Note #3 on plan sheet 05-0002 says "Existing pavement under median areas and new full depth pavement shall be removed." If we demo all of the pavement under the existing triangle islands to be replaced, what do we fill the holes in with to bring the bottom of the new 6" medians up to grade?

Answer: Refer to plan sheet 13-0002 for an updated median annotation to clarify. A patching item (402-1802) has been added to the bid form.

7. Question: The plans call for aluminum signal heads which is extremely odd. Can you please confirm whether or not you want aluminum signal heads?

Answer: Plan sheet 27-0004 has been updated for clarity. The aluminum was intended for the retroreflective backplates.

PART II – CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS

The Proposal Documents shall be changed in the following respects:

SECTION 00313 – BID FORM

Revised and added items.

PART III – DRAWINGS

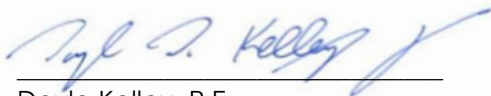
1. The plan sheets have been updated. Delete and replace the corresponding plan sheets with the attached:

- 1 Series – Revised Begin Construction Limits to whole station number.
- 4 Series - Lane closure times updated, Asphalt Drive pavement section note added, GA Std. 1401 added
- 13 Series – Median sidewalk dimensions added, sidewalk pipe crossing (pipe size) clarified, additional clarifying annotations.
- 26 Series – Additional Type 2 Arrows for turn lanes added
- 27 Series – Mast arm quantities updated (clarified)
- 50 Series - Revised begin construction limits
- 51 Series – Disturbed Areas and Silt Fence quantities updated
- 54 Series – Limit of Disturbance and Silt Fence lines updated, Construction Exit/Washout moved. Annotations Added

All referenced documents are incorporated and made a part of the Specifications for the Project Harris Trail Road and Timber Trail Road Signal and Sidewalk.

All other aspects of the project remain unchanged.

THOMAS & HUTTON



Doyle Kelley, P.E.
Project Manager

End of ADDENDUM NO. 1

DOCUMENT 00313**BID FORM**

PROJECT IDENTIFICATION: HARRIS TRAIL ROAD AND TIMBER TRAIL ROAD SIGNAL

**CONTRACT IDENTIFICATION
AND NUMBER:** J-27691.0122

THIS BID IS SUBMITTED TO: Bryan County

1. The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an agreement with OWNER in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Bid Price and within the Bid Times indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
2. BIDDER accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the day of Bid opening, or for such longer period of time BIDDER may agree to in writing upon request of OWNER.
3. In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement, that:
 - a. BIDDER has examined and carefully studied the Plans and Specifications for the work and contractual documents relative thereto, and has read all Technical Provisions, Supplementary Conditions, and General Conditions, furnished prior to the opening of Bids, and can fulfill the requirements of the work to be performed.
 - b. BIDDER further acknowledges hereby receipt of the following Addenda:

ADDENDUM NO.	DATE
1	06/22/2026
2	
3	
4	

- c. BIDDER has visited the site and become familiar with and is satisfied as to the general, local and site conditions possibly affecting cost, progress, performance and furnishing of the Work;
- d. BIDDER is familiar with and is satisfied to all federal, state, and local Laws and Regulations possibly affecting cost, progress, performance and furnishing of the Work.
- e. BIDDER has carefully studied all reports of explorations and tests of subsurface

conditions at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structure at or contiguous to the site (except underground Facilities) have been identified in the Supplementary Conditions. BIDDER acknowledges such reports and drawings are not Contract Documents and may not be complete for BIDDER's purposes. BIDDER acknowledges OWNER and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Bidding Documents with respect to Underground Facilities at or contiguous to the site. BIDDER has obtained and carefully studied (or assumes responsibility for having done so) all such additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the site or otherwise which may affect cost progress, performance or furnishing of the work or which relate to any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by BIDDER and safety precautions and programs incident thereto. BIDDER does not consider any additional examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance and furnishing of the Work in accordance with the times, price and other terms and conditions of the Bidding Documents.

- f. BIDDER is aware of the general nature of Work to be performed by Owner and others at the site relating to Work for which this Bid is submitted as indicated in the Bidding Documents.
 - g. BIDDER has correlated the information known to BIDDER, information and observations obtained from visits to the site, reports and drawings identified in the Bidding Documents and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
 - h. BIDDER has given ENGINEER written notice of all conflicts, errors, ambiguities, or discrepancies BIDDER has discovered in the Bidding Documents and the written resolution thereof by ENGINEER is acceptable to BIDDER. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.
 - i. This bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; BIDDER has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; BIDDER has not solicited or induced any person, firm or corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.
4. BIDDER will complete the Work in accordance with the Contract Documents for the following price(s):

HARRIS TRAIL ROAD AND TIMBER TRAIL ROAD SIGNAL					
ITEM	DESCRIPTION	QUANTITY		COST	
		UNITS	MEASURE	PER UNIT	TOTAL COST
ROADWAY CONSTRUCTION					
150-1000	Traffic Control	1	LS		\$ -
151-1000	Mobilization	1	LS		\$ -
163-0232	Temporary Grassing	2	AC		\$ -
163-0240	Mulch	25	TN		\$ -
163-0301	Construct and Remove Construction Exits	2	EA		\$ -
165-0010	Maintenance of Temporary Silt Fence, Type A	2,750	LF		\$ -
171-0010	Temporary Silt Fence, Type A	2,750	LF		\$ -
210-0100	Grading Complete	1	LS		\$ -
310-5060	Gr Aggr Base Crs, 6 Inch, Incl Material	130	SY		\$ -
402-3130	Recycled Asph Conc 12.5 mm Superpave, GP 2 Only, Incl Bitum Matl & H Lime (1.5")	600	TN		\$ -
402-3190	Recycled Asph Conc 19 mm Superpave, GP 1 or 2, Incl Bitum Matl & H Lime (2")	15	TN		
402-1802	Recycled Asph Conc Patching, Incl Bitum Matl & H Lime	1	TN		\$ -
413-0750	Tack Coat	630	GL		\$ -
432-0206	Mill Asph Conc Pvmt, 1.5" in Depth (As Required)	7,150	SY		\$ -
441-0748	Concrete Median, 6 in	125	SY		\$ -
441-0104	Concrete Sidewalk, 4 in	215	SY		\$ -
500-9999	Class B Conc, Base or Pvmt Widening	50.00	CY		\$ -
550-2180	Side Drainpipe, 18 IN, H 1-10	48.00	LF		\$ -
550-4118	Flared End Section, 18 IN, Side Drain	2.00	EA		\$ -
550-4212	Flared End Section 12 in, Storm Drain	2.00	EA		\$ -
550-5120	Storm Drainpipe, 12 in, Class III	8.00	LF		\$ -
634-1200	Right Of Way Markers	5	EA		\$ -
636-1033	Highway Signs, TP1 Matl, Refl Sheeting, TP9	25	SF		\$ -
636-1036	Highway Signs, TP1 Matl, Refl Sheeting, TP11	20	SF		\$ -
636-2070	Galv Steel Posts, TP7	50	LF		\$ -
639-3014	Steel Strain Pole, Tp Iv W/ One (1) 65' Mast Arms & Luminaire Arm	1	LF		
639-3014	Steel Strain Pole, Tp Iv W/ Two (2) 65' Mast Arms & Luminaire Arm	1	EA		\$ -
647-1000	Traffic Signal Installation No-1	1	LS		\$ -
647-6200	Loop Detector, 6ft X 6ft, Bipole	2	EA		\$ -
647-6250	Loop Detector, 6ft X 40ft, Quadrupo	2	EA		\$ -
653-0110	Thermoplastic Pvmt Marking, Arrow, TP 1	3	EA		\$ -
653-0120	Thermoplastic Pvmt Marking, Arrow, TP 2	8	EA		\$ -
653-1704	Thermoplastic Solid Traf Stripe, 24 In, White	160	LF		\$ -

HARRIS TRAIL ROAD AND TIMBER TRAIL ROAD SIGNAL					
ITEM	DESCRIPTION	QUANTITY		COST	
		UNITS	MEASURE	PER UNIT	TOTAL COST
653-1804	Thermoplastic Solid Traf Stripe, 8 In, White	140	LF		\$ -
653-1810	Thermoplastic Solid Traf Stripe, 10 In, White	400	LF		\$ -
653-1906	Thermoplastic Solid Traf Stripe, 6 In, White	3,470	LF		\$ -
653-2602	Thermoplastic Solid Traf Stripe, 6 In, Yellow	4,490	LF		\$ -
653-2611	Thermoplastic Skip Traf Stripe, 6 In, White	940	GLF		\$ -
653-6004	Thermoplastic Traf Striping, White	140	SY		\$ -
653-6006	Thermoplastic Traf Striping, Yellow	500	SY		\$ -
654-1001	Raised Pvmt Markers TP1	120	EA		\$ -
654-1003	Raised Pvmt Markers TP3	50	EA		\$ -
680-3600	Light Fixture	2	EA		\$ -
682-2120	Pull Box, Pb-2	13	EA		\$ -
682-2130	Pull Box, Pb-3	6	EA		\$ -
682-2150	Pull Box, Pb-5	1	EA		\$ -
682-6219	Conduit, Nonmetal, Tp 2, 1"	35	LF		\$ -
682-6222	Conduit, Nonmetal, Tp 2, 2"	65	LF		\$ -
682-6230	Conduit, Nonmetal, Tp 3, 1"	130	LF		\$ -
682-6233	Conduit, Hdpe, Tp 3, 2"	485	LF		\$ -
682-6233	Conduit, Nonmetal, Tp 3, 2"	1460	LF		\$ -
682-9950	Directional Bore, Desc: 6"	241	LF		\$ -
700-6910	Permanent Grassing	1	AC		\$ -
700-7000	Agricultural Lime	3	TN		\$ -
700-8000	Fertilizer Mixed Grade	1	TN		\$ -
700-8100	Fertilizer Nitrogen Content	55	LB		\$ -
TOTAL PROJECT					\$ -

TOTAL BID:

_____ and _____ /100 Dollars

\$ _____

Unit Prices have been computed in accordance with paragraph 11.03.C of the General Conditions.

BIDDER acknowledges estimated quantities are not guaranteed and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities determined as provided, determined as provided in the Contract Documents.

5. BIDDER agrees the Work will be substantially complete within 270 calendar days after the date when the Contract Times commence to run as provided in paragraph 2.03 of the

General Conditions, completed and ready for final payment in accordance with paragraph 14.07 of the General Conditions within 300 calendar days after the date when the Contract Times commence to run.

- 6. BIDDER accepts provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within times specified in the Agreement.
- 7. The following documents are attached to and made a condition of this Bid:
 - a. Required Bid Security in the form of 10 percent of the Bid Total Price.
- 8. The undersigned further agrees in case of failure on his/her part to execute the said contract and the Bond within 30 consecutive calendar days after written notice being given of the award of the contract, the check or bid bond accompanying this bid, and the monies payable thereon shall be paid into the funds of the Owner as liquidated damages for such failure, otherwise, the check or bid bond accompanying this proposal shall be returned to the undersigned.
- 9. Communications concerning this Bid shall be addressed to:

Doyle D. Kelley, PE
 Thomas & Hutton
 50 Park of Commerce Way
 Savannah, GA 31405
 (912)721-4160
kelley.d@tandh.com

- 10. Terms used in this Bid which are defined in the General Conditions or Instructions will have the meanings indicated in the General Conditions of Instructions.

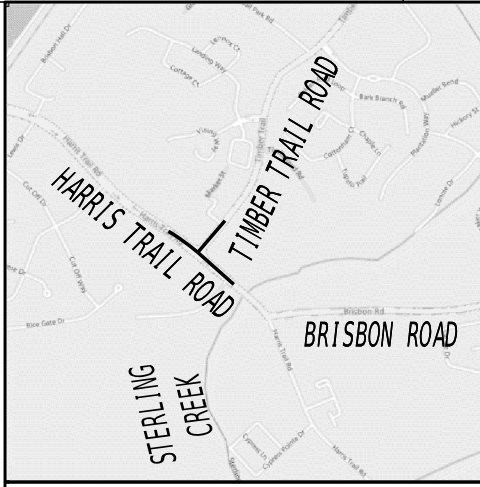
SUBMITTED _____2026.

CONTRACTOR'S NAME

ADDRESS:

BY: _____

State Contractor License No. _____



LOCATION SKETCH

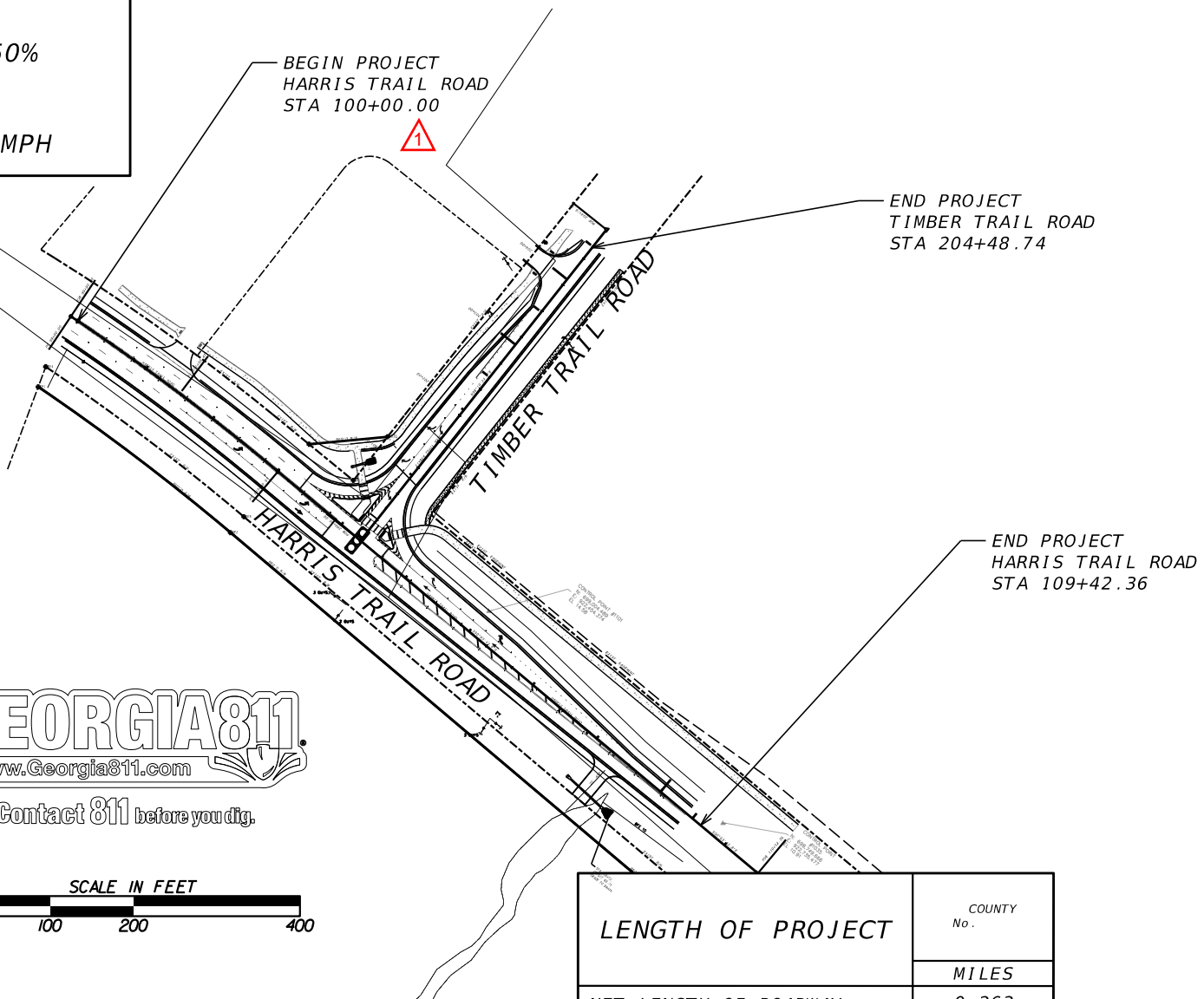


PLAN AND PROFILE OF PROPOSED HARRIS TRAIL ROAD TIMBER TRAIL ROAD SIGNAL AND SIDEWALK

DESIGN DATA:
 TRAFFIC A.D.T.: 15,700 (2025)
 TRAFFIC A.D.T.: 19,000 (2045)
 TRAFFIC D.H.V.: N/A
 DIRECTIONAL DIST: 50% / 50%
 % TRUCKS: 2
 24 HR. TRUCKS %: 2
 SPEED DESIGN: 45 MPH/35 MPH

FUNCTIONAL CLASS:
 URBAN LOCAL (TIMBER TRAIL ROAD)
 URBAN MINOR ARTERIAL (HARRIS TRAIL ROAD)
 THIS PROJECT IS 100% IN
 BRYAN COUNTY AND IS
 100% IN CONG. DIST. NO. 1.

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.



PLANS PREPARED BY: THOMAS & HUTTON
 DESIGN

THOMAS & HUTTON
 50 Park of Commerce Way •
 Savannah, GA 31405 • 912.234.5300
 www.thomasandhutton.com



Contact 811 before you dig.



LENGTH OF PROJECT	COUNTY No.
	MILES
NET LENGTH OF ROADWAY	0.263
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.263
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.263

PLANS COMPLETED	
REVISIONS	
Addendum #1	06/22/2026



DRAWING No. **01-0001**

BID SET - NOT FOR CONSTRUCTION

1. SINCE THE PROJECT DISTURBED AREA ASSOCIATED WITH THIS PROJECT IS MORE THAN 1.0 ACRE, A NOTICE OF INTENT IS REQUIRED FOR THIS PROJECT.
2. 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.
3. ALL EXISTING PIPES AND STRUCTURES WITHIN THE PROPOSED CONSTRUCTION LIMITS ARE TO BE REMOVED UNLESS OTHERWISE NOTED. ALL COSTS ASSOCIATED WITH THE REMOVAL OF THESE PIPES AND STRUCTURES SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.
4. EXISTING PAVED SHOULDERS WHERE NEW TRAVEL OR TURN LANES ARE TO BE CONSTRUCTED SHALL BE REMOVED. REMOVAL SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE. SAWED LONGITUDINAL JOINTS ASSOCIATED WITH SHOULDER REMOVAL, AS WELL AS ALL OTHER EXISTING PAVEMENT REMOVAL AND PREPARATION, SHALL ALSO BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.
5. THERE IS NO KNOWN SUTIBLE 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 PROJECT.
6. NO SEPARATE PAYMENT WILL BE MADE FOR TEMPORARY DRAINAGE ITEMS. COST WILL BE INCLUDED IN OVERALL BID SUBMITTED.
7. INCLUDE ERADICATION OF INVASIVE SPECIES IF ENCOUNTERED PER SPECIFICATION SECTION 201-CLEARING AND GRUBBING RIGHT OF WAY, 201.3.05.A. SEE 'A MANAGEMENT GUIDE FOR INVASIVE PLANTS IN SOUTHERN FORESTS' GTR SRS-131, PRODUCED BY THE USDA FOREST SERVICE SOUTHERN RESEARCH STATION FOR REFERENCE ON SPECIFIC INVASIVE PEST PLANTS.
8. INVASIVE OR UNDESIRABLE SPECIES DO NOT QUALIFY FOR ANY PROTECTION AND SHOULD BE REMOVED IF POSSIBLE. THESE INCLUDE: MIMOSA- ALBIZIA JULIBRISSIN TREE OF HEAVEN - AILANTHUS ALTISSIMA WHITE MULBERRY - MORUS ALBA PAPER MULBERRY - BROUSSONETIA PAYRIFERA CHINABERRY - MELIA AZEDARACH PRINCESS TREE - PAULOWNIA TMENTOSA SEE 'A MANAGEMENT GUIDE FOR INVASIVE PLANTS IN SOUTHERN FORESTS' GTR SRS-131, PRODUCED BY THE USDA FOREST SERVICE SOUTHERN RESEARCH STATION FOR REFERENCE.
9. THE CONTRACTOR SHALL ENSURE THAT NO CONSTRUCTION-RELATED ACTIVITIES (SUCH AS THE USE OF EASEMENTS, STAGING, CONSTRUCTION, VEHICULAR USE, BORROW OR WASTE ACTIVITIES, SEDIMENT BASINS, TRAILER PLACEMENT, ETC.) OCCUR UNDER THE DRIP LINE OF EXISTING TREES TO REMAIN IN THE RIGHT OF WAY. THIS DOES NOT APPLY TO TREES WITHIN THE CONSTRUCTION LIMITS OR LIMITS OF DISTURBANCE THAT WILL BE REMOVED OR DESTROYED TO ALLOW FOR CONSTRUCTION.
10. THIS IS NOT A SUE UTILITY LOCATION PROJECT. UTILITIES SHOWN ARE BASED ON INFORMATION OBTAINED FROM UTILITY COMPANIES. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH UTILITIES DURING THE CONSTRUCTION.

11. IN AREAS WHERE NEW PAVEMENT OR PAVEMENT WIDENING IS REQUIRED, SAW CUT OF EXISTING PAVEMENT WILL BE REQUIRED IN ACCORDANCE WITH SECTION 411 OF THE GEORGIA STANDARD SPECIFICATIONS AND WILL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE.
12. CONTRACTOR SHALL CLEAR AND GRUB ENTIRE RIGHT OF WAY ALONG HARRIS TRAIL. NO GRUBBING WILL BE ALLOWED OUTSIDE OF CUT/FILL LIMITS. ALL STUMPS OUTSIDE CUT/FILL LIMITS WILL BE CUT FLUSH WITH EXISTING GROUND.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR EMPLOYMENT AND PAYMENT OF ALL REQUIRED QUALITY TESTING SERVICES. COST OF TESTING SHALL BE PAID FOR IN OVERALL COST OF BID. TESTING FREQUENCY AND PROCEDURES SHALL FOLLOW GOOT STANDARD SPECIFICATIONS.
14. ALL UNDERGROUND CONDUIT SHALL BE SCH 40 PVC. CONDUIT INSTALLED UNDERNEATH ROADWAYS AND DRIVES SHALL BE BURIED IN EARTH AT A DEPTH OF NOT LESS THAN 24".
15. ALL CONDUIT AND ELECTRICAL JUNCTION BOXES (EJB) PLACEMENT ON THE DRAWING ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL THEM WITHIN THE RIGHT OF WAY.
16. THE CONTRACTOR SHALL INSTALL A NYLON PULL CORD OR GALVANIZED PULL WIRE IN EACH EMPTY CONDUIT. THE COST OF THIS ITEM IS TO BE INCLUDED WITH THE COST OF THE CONDUIT.
17. ALL CONDUIT WHICH IS RUN UNDER ROADWAY OR TRAIL SHALL BE INSTALLED PRIOR TO ANY NEW PAVING. NO NEW PAVING SHALL BE CUT TO INSTALL CONDUIT/EQUIPMENT.
18. RESTORE TEMPORARY EASEMENTS AREA TO EXISTING CONDITIONS OR BETTER AFTER CONSTRUCTION IS COMPLETED.
19. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF DAMAGED ITEMS IN EASEMENTS.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL PRACTICES. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, INLET PROTECTION, SILT FENCE INSTALLATION AS NEEDED, GRASSING IN UNPAVED AREAS, CONSTRUCTION ACCESS AND STORM WATER MONITORING. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND REMOVING EROSION CONTROL PRACTICES ONCE CONSTRUCTION IS COMPLETE. ALL EROSION CONTROL PRACTICES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE STATE OF GEORGIA SOIL AND WATER CONSERVATION DISTRICT'S FIELD MANUAL (THE GREEN BOOK).
21. ALL EXISTING WATER AND SEWER MAINS ARE ACTIVE. CONTRACTOR TO COORDINATE WITH THE CITY OF RICHMOND HILL AND EOM TO SCHEDULE SHUT DOWN OF SECTIONS OF EXISTING WATER MAINS USING EXISTING VALVES A MINIMUM IF 72 HOURS PRIOR TO CONSTRUCTION.
22. ALL EXISTING GAS LINES ARE ACTIVE. CONTRACTOR TO COORDINATE WITH BRYAN COUNTY AND UTILITY OWNER A MINIMUM OF 72 PRIOR TO CONSTRUCTION.
23. THIS PROJECT WILL NOT INCLUDE ASPHALT INDEXING.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. INCLUDING EXISTING WATER MAINS, GAS LINES, AND SEWER MAINS. CONTRACTOR TO REMOVE AND REPLACE EXISTING UTILITIES ONLY IF NECESSARY FOR THE PROTECTION OF THE UTILITIES. AND SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION.
25. CONTRACTOR TO MAINTAIN A MINIMUM OF 18" OF VERTICAL CLEARANCE SEPARATION BETWEEN THE BOTTOM OF PROPOSED STORM PIPES AND THE TOPS OF PROPOSED RELOCATED WATER MAINS WHERE VERTICAL CROSSING ARE NECESSARY.

UTILITY OWNER	SERVICE
CITY OF RICHMOND HILL	WATER
CITY OF RICHMOND HILL	SEWER
SPARKLIGHT	FIBER
GA. TRANSMISSION	POWER
COASTAL ELECTRIC	POWER
BRIGHTSPEED	FIBER
COMCAST	FIBER

26. CONTRACTOR SHALL NOTIFY BRYAN COUNTY AND ENGINEER SHOULD ANY POTENTIAL UNSUITABLE MATERIAL BE ENCOUNTERED DURING CONSTRUCTION.
27. ANY TEMPORARY PAVING REQUIRED TO FACILITATE THE CONSTRUCTION OF THE JOB SHALL BE INCLUDED IN THE LUMP SUM BID FOR TRAFFIC CONTROL.
28. IF ANY UTILITIES ARE LOCATED IN THE FIELD THAT ARE NOT SHOWN ON THE CONSTRUCTION PLANS, CONTRACTOR SHALL NOTIFY BRYAN COUNTY AND THE ENGINEER IMMEDIATELY.
29. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL AND STAGING PLANS TO BRYAN COUNTY AND THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. ALL SIGNS AND NECESSARY MATERIALS (INCLUDING POTENTIAL ROAD DETOURS) SHALL BE INCLUDED IN LUMP SUM BID FOR TRAFFIC CONTROL. THE CONTRACTOR SHALL INCLUDE ANY TEMPORARY PAVEMENT REQUIRED TO STAGE THE JOB IN THE LUMP SUM BID FOR TRAFFIC CONTROL.
30. LANE CLOSURES ARE PROHIBITED BETWEEN 7 A.M. AND 8:30 A.M. and from 2:30 P.M. to 5 P.M. 
31. ASPHALT DRIVES 1 1/2" 12.5mm SUPERPAVE 
2" 19mm SUPERPAVE
6" GRADED AGGREGATE ON FILTER FABRIC

BID SET - NOT FOR CONSTRUCTION



THOMAS & HUTTON
50 Park of Commerce Way •
Savannah, GA 31405 • 912.234.5300
www.thomasandhutton.com

REVISION DATES	
06/22/2026	

GENERAL NOTES
HARRIS TRAIL ROAD
TIMBER TRAIL ROAD

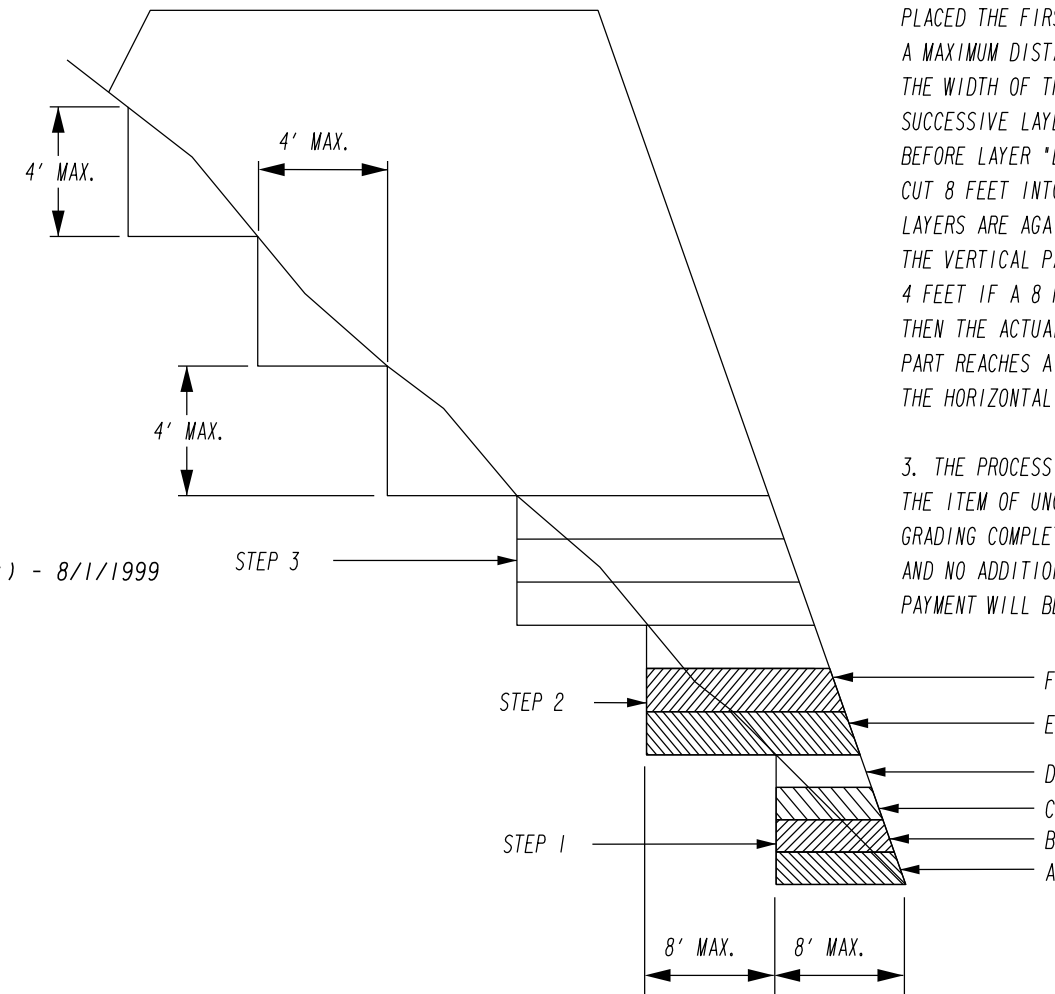
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	04-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CONSTRUCTION DETAILS

- A-3 Concrete Sidewalk Details Curb Cut (Wheelchair) Ramps - 9/15/2016
- A-4 Detectable Warning Surface Truncated Dome Size, Spacing and Alignment Requirements - 6/18/2009
- P-7 Pavement Edge Treatment Asphalt and Concrete Pavement - 11/17/2011
- T-01 Sign Plates - 1/1/2000
- T-02 Details For Typical Framing - 3/1/2000
- T-03A Type 7, 8 and 9 Square Tube Post Installation Detail - 7/1/2002
- T-05A Details of Regulatory Signs (Sheet 1 of 2) - 1/01/2003
- T-11A Pavement Marking & Raised Pavement Marking Placement; Conventional Roadways - 1/1/2000
- T-12A Details of Pavement Marking Arrow Location 1/1/2000
- T-12B Pavement Markings- Arrows - 4/1/2000
- T-14 Details of Pavement Marking Hatching - 1/1/2000
- T-15C Details of Raised Pavement Markers - 1/1/2000
- TS-00 Traffic Signals - Legend - 11/1/2020
- TS-01A Inductive Loop Detector Installation (Sheet 1 of 2) - 11/1/2020
- TS-01B Inductive Loop Detector Installation (Sheet 2 of 2) - 11/1/2020
- TS-02 Prefabricated Cabinet Base - 11/1/020
- TS-03 Pedestrian Facilities Installation - 11-01-2020
- TS-04A Traffic Signal Support Structures (Sheet 1 of 2) - 11/1/2020
- TS-05 Strain Pole and Mast Arm Foundations - 11/1/2020
- TS-06 Grounding for Traffic Signal Support Structures - 11/1/2020
- TS-07 Utility Clearance - 11/1/2020

GEORGIA STANDARDS

- 1030D1 Concrete & Metal Pipe Culverts Sheet 1 of 3
- 1030D2 Concrete & Metal Pipe Culverts Sheet 2 of 3
- 1030D3 Concrete & Metal Pipe Culverts Sheet 3 of 3
- 1120 Flared End Sections For Pipes
- 1401 Pavement Patching Details (Storm Drain or Utility Installations by Open Cut Across Existing Pavement) - 8/1/1999
- 9003 Federal Aid and State Project Markers; Right of Way Markers; County Line Marker - 4/10/2006
- 9030c Delineators & Object Markers and Alternate Post - 7/01/2022
- 9032b Concrete Curb and Gutter, Concrete Curbs, Concrete Medians - 7/01/2022
- 9100 Traffic Control General Notes, Standard Legend, and Miscellaneous Details - 3/30/2006
- 9102 Traffic Control Detail for Lane Closure on Two-Lane Highway - 3/30/2006



BENCHING DETAIL

Revised 9/29/08

4.5.28

NO SCALE

1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER. THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING MADE.
(SEE DIAGRAM AT LEFT.)

2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP IS TO (1) CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8 FEET (ABOUT $\frac{3}{4}$ THE WIDTH OF THE TYPICAL D-8 BULDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED BEFORE LAYER "E" IS PLACED, THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF A 8 FEET HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET ALLOWING THE HORIZONTAL DISTANCE TO VARY.

3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW OR GRADING COMPLETE IN CONSTRUCTION OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.

BID SET - NOT FOR CONSTRUCTION



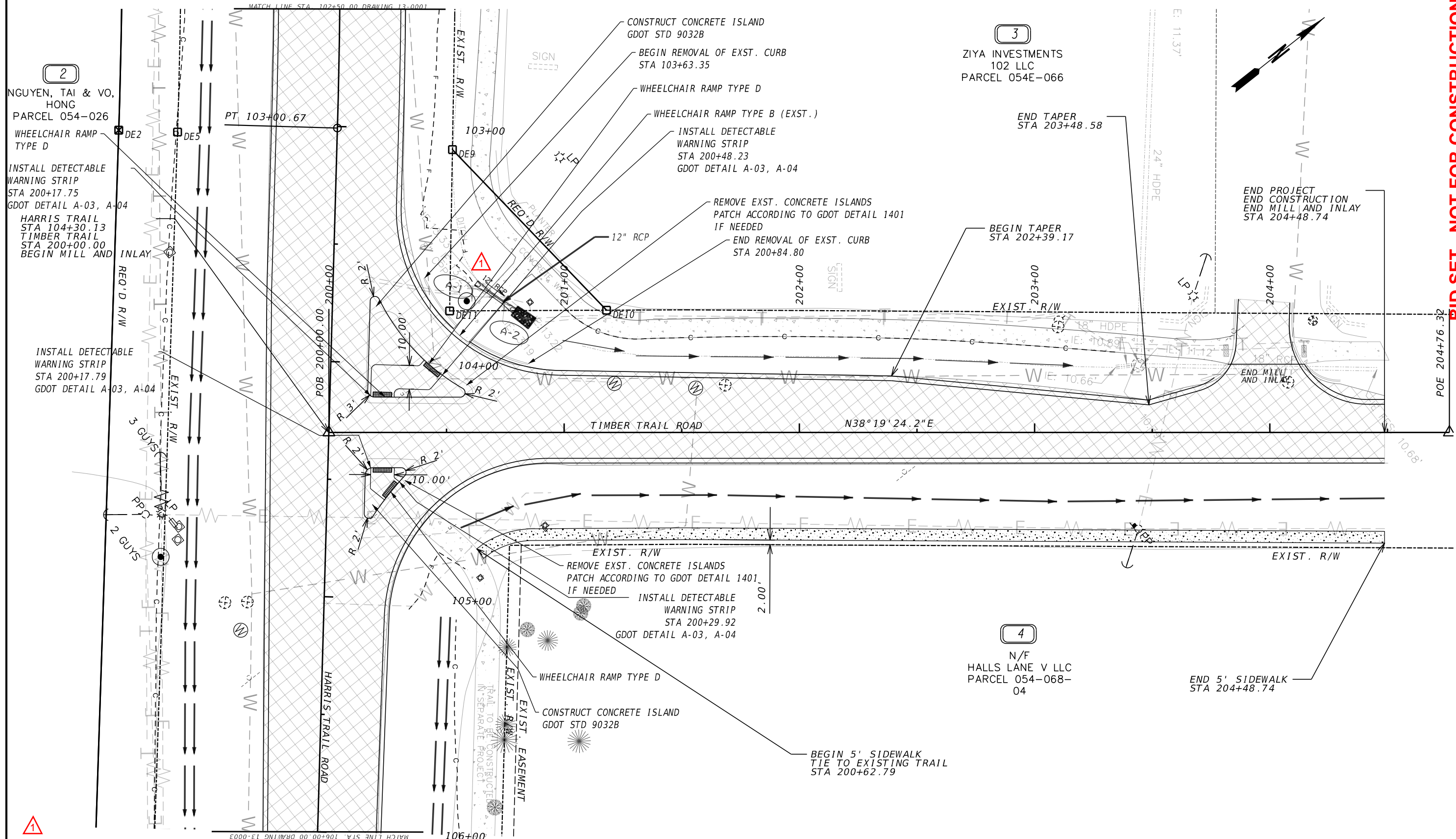
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REVISION DATES

06/22/2026			

GENERAL NOTES
HARRIS TRAIL ROAD
TIMBER TRAIL ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	04-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



BID SET - NOT FOR CONSTRUCTION

PROPERTY AND EXISTING R/W LINE	-----P-----
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	-----
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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SCALE IN FEET

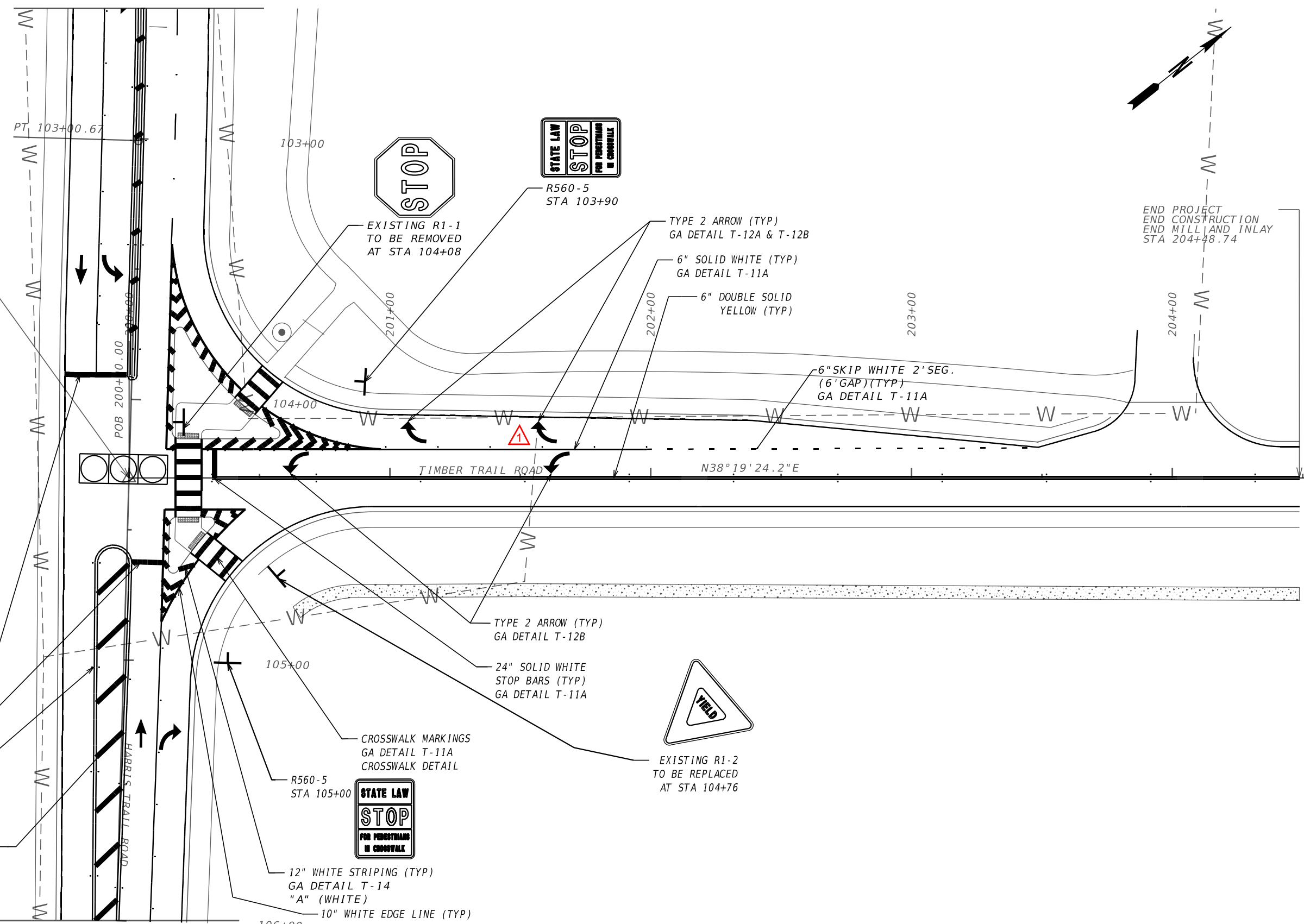
REVISION DATES	
06/22/2026	

MAINLINE PLAN
 HARRIS TRAIL ROAD AND
 TIMBER TRAIL ROAD SIGNAL

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

MATCH LINE STA. 102+50.00 DRAWING No. PLAN 1

HARRIS TRAIL
STA 104+30.13
TIMBER TRAIL
STA 200+00.00
BEGIN MILL AND INLAY



END PROJECT
END CONSTRUCTION
END MILL AND INLAY
STA 204+48.74

POE 204+76.32 **BID SET - NOT FOR CONSTRUCTION**

24" SOLID WHITE STOP BARS (TYP) GA DETAIL T-11A
 6" DOUBLE SOLID YELLOW (TYP) GA DETAIL T-14 "B" (YELLOW)
 24" SOLID YELLOW (TYP) GA DETAIL T-14 "B" (YELLOW)

R560-5 STA 105+00
 STATE LAW STOP FOR PEDESTRIANS IN CROSSWALK

12" WHITE STRIPING (TYP) GA DETAIL T-14 "A" (WHITE)
 10" WHITE EDGE LINE (TYP)

MATCH LINE STA. 106+00.00 DRAWING No. PLAN 2

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	▧

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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SCALE IN FEET
 0 20 40 80

REVISION DATES	
06/22/2026	

SIGNING AND MARKING PLANS HARRIS TRAIL ROAD AND TIMBER TRAIL ROAD SIGNAL			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

List of Materials for Traffic Signal Intersection Harris Trail Road & Timber Trail Road

MATERIALS	UNIT	PROPOSED QUANTITY
NON-NEMA CABINET, CONTROLLER ASSEMBLIES		
A. CABINET ASSEMBLY, MODEL 332A W/ AUXILLIARY OUTPUT FILE	EA	1
B. SWITCH PACK	EA	12
C. DC ISOLATOR	EA	3
D. 2010 ECLIP CONFLICT MONITOR, EXTENDED FEATURES	EA	1
E. 2070 CONTROLLER W/ CURRENT GDOT OPERATING SOFTWARE	EA	1
F. 332 EXTENDED CABINET BASE	EA	1
G. 332 CABINET WORKPADS	EA	3
LOOP/PED LEAD-IN WIRE		
A. 3 PAIR, 18 AWG	REEL	2
7-CONDUCTOR SIGNAL CABLE		
B. 14 AWG	REEL	3
SAW CUT FOR LOOP LEAD-IN	LF	405
ONE-WAY, 3 SECTION, 12' LED SIGNAL HEAD	EA	7
ALUMINUM BACK PLATE FOR ONE-WAY, 3-SECTION, 12' SIGNAL HEAD-2' RETROREFLECTIVE TP	EA	7
ONE-WAY, 1-SECTION, 18" LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, FULL HAND/MAN OVERLAP, 9' HIGH NUMBERS & 12' SYMBOLS	EA	2
PEDESTRIAN PUSH BUTTON STATION ASSEMBLY		
A. 9"X15" PUSH BOTTON STATION, ONE-WAY, W/ ADAPTERS TO EXTEND FOR 9"X15" SIGNS	EA	2
PEDESTRIAN SIGN		
A. 9"X15", R10-3E, (L)LEFT OR (R)RIGHT, STANDARD	EA	2
PEDESTAL POLE, BASE, & FOOTING	EA	2
HARDWARE FOR MAST ARM MOUNTING	EA	3
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, ONE-WAY BRACKET ASSEMBLY	EA	2
HARDWARE FOR PEDESTAL POLE, TOP POST MOUNTING, TWO-WAY BRACKET ASSEMBLY	EA	0
HARDWARE FOR SIDE-OF-POLE MOUNTING, ONE-WAY BRACKET ASSEMBLY - CONCRETE, TIMBER, OR STEEL POLE	EA	0
MISC MATL TO COMPLETE INSTALLATION	LUMP	LUMP

PAY ITEMS

DESCRIPTION	UNIT	PROPOSED QUANTITY
DIRECTIONAL BORE, DESC: 6"	LF	241
STEEL STRAIN POLE, TP IV W/ ONE (1) 65' MAST ARM & LUMINAIRE ARM	EA	1
STEEL STRAIN POLE, TP IV W/ TWO (2) 65' MAST ARMS & LUMINAIRE ARM	EA	1
LIGHT FIXTURE	EA	2
TRAFFIC SIGNAL INSTALLATION NO-1	LS	LUMP
PULL BOX, PB-2	EA	13
PULL BOX, PB-3	EA	6
PULL BOX, PB-5	EA	1
LOOP DETECTOR, 6FT X 40FT, QUADRUPOLE	EA	2
LOOP DETECTOR, 6FT X 6FT, BIPOLE	EA	2
CONDUIT, NONMETAL, TP 2, 1"	LF	35
CONDUIT, NONMETAL, TP 2, 2"	LF	65
CONDUIT, NONMETAL, TP 3, 1"	LF	130
CONDUIT, HDPE, TP 3, 2"	LF	485
CONDUIT, NONMETAL, TP 3, 2"	LF	1460

NOTES:

- MATERIALS LISTED FOR SIGNAL INSTALLATION ARE FOR INFORMATIONAL PURPOSES ONLY.
- REMOVAL OF THE EXISTING TRAFFIC SIGNAL ITEMS AND ALL ASSOCIATED EQUIPMENT SHALL BE INCLUDED IN LUMP SUM 647-1000 TRAFFIC SIGNAL INSTALLATION NO-1.
- THE CONTRACTOR MUST FIELD VERIFY PRIOR TO ORDERING MATERIALS.
- COST OF LUMINAIRE ARM, LIGHT FIXTURE, AND BULB ARE TO BE PAID UNDER ITEM 680-3600 IN THE BID FORM

BID SET - NOT FOR CONSTRUCTION



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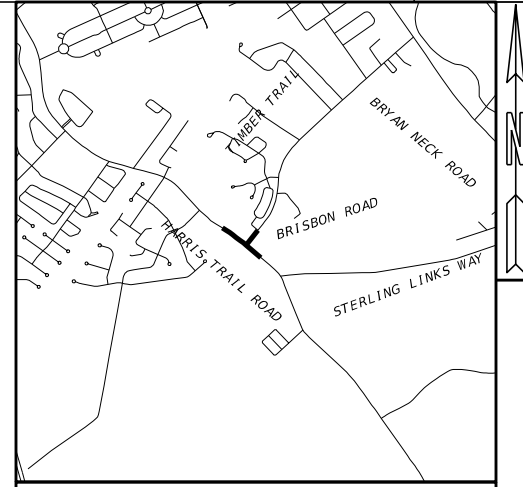
DATE	DESCRIPTION
06/22/2026	

SIGNAL PLANS
HARRIS TRAIL ROAD
TIMBER TRAIL ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	27-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

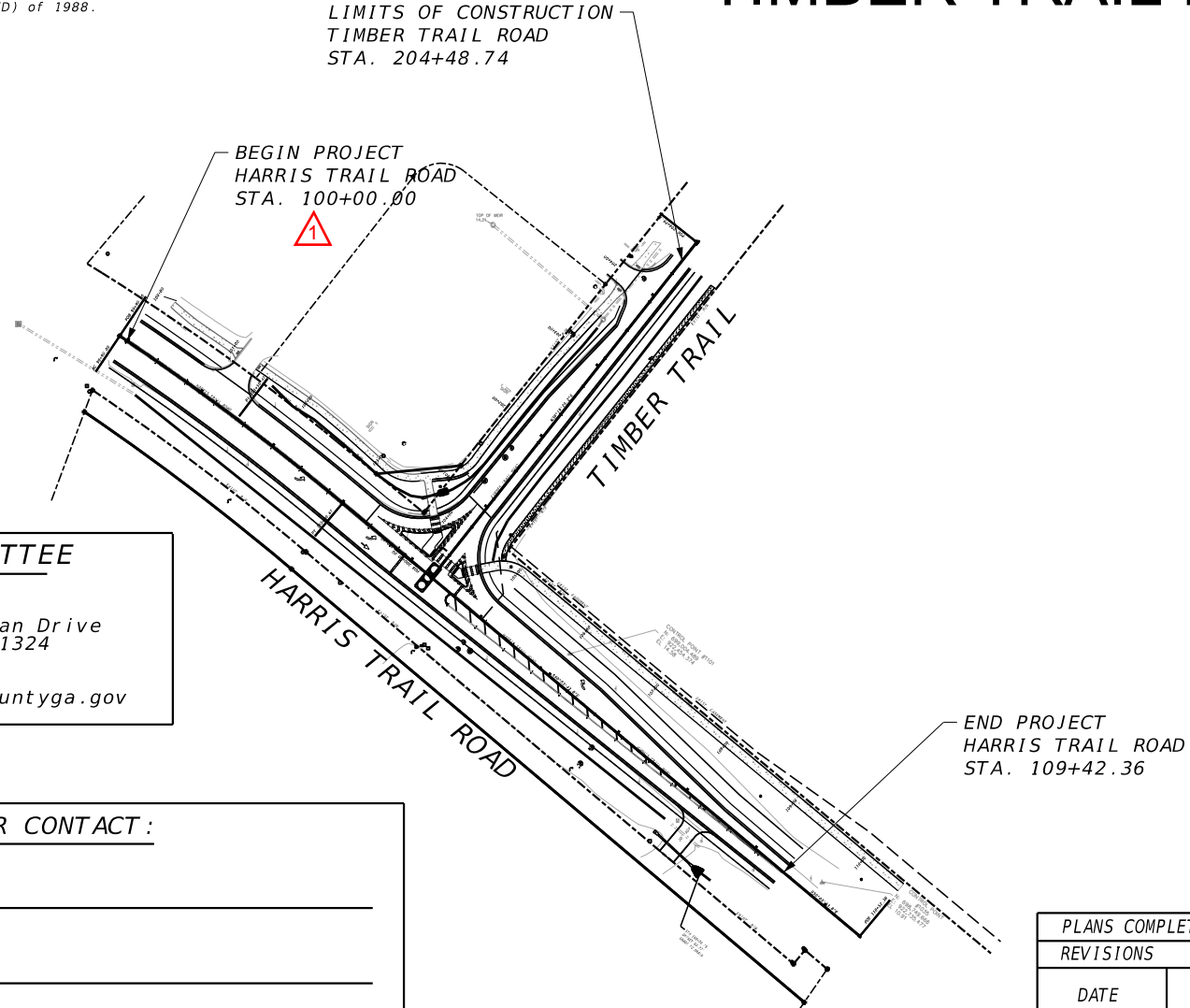


EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN PLAN AND PROFILE OF PROPOSED HARRIS TRAIL ROAD TIMBER TRAIL ROAD



LOCATION SKETCH

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.



LIMITS OF CONSTRUCTION
TIMBER TRAIL ROAD
STA. 204+48.74

BEGIN PROJECT
HARRIS TRAIL ROAD
STA. 100+00.00

END PROJECT
HARRIS TRAIL ROAD
STA. 109+42.36

PRIMARY PERMITTEE

BRYAN COUNTY
66 Captain Matthew Freeman Drive
Richmond Hill, Georgia 31324
Contact: Kirk Croasmun
Phone: (912) 756-7953
Email: kcroasmun@bryancountyga.gov

24 HOUR CONTACT :

Name _____

Street Address _____

City, State Zip _____

Phone Number _____

Email Address _____

Contractor shall complete the information in this box.

LENGTH OF PROJECT	COUNTY No. COUNTY NAME: BRYAN
	MILES
NET LENGTH OF ROADWAY	0.26
NET LENGTH OF BRIDGES	
NET LENGTH OF PROJECT	0.26
NET LENGTH OF EXCEPTIONS	
GROSS LENGTH OF PROJECT	0.26

PLANS PREPARED BY:	THOMAS & HUTTON	
Date:	DOYLE D. KELLEY, P.E. - ENGINEER	0000024601 GSWCC LEVEL II Certification Number

PLANS COMPLETED				
REVISIONS				
DATE	ENTITY REQUESTING REVISION(S)	DRAWING NUMBER(S)	SIGNATURE	GSWCC LEVEL II CERT.#

BEGIN-POINT COORDINATES Longitude: -81.3100° Latitude: 31.9199°
MID-POINT COORDINATES Longitude: -81.3089° Latitude: 31.9193°
END-POINT COORDINATES Longitude: -81.3076° Latitude: 31.9183°

"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."

BID SET - NOT FOR CONSTRUCTION

EROSION, SEDIMENTATION & POLLUTION CONTROL NOTES

- THIS PLAN WAS PREPARED AS REQUIRED BY NPDES GENERAL PERMIT NO.100002. THESE PLAN SHEETS AND ALL REQUIREMENTS OF THE GENERAL PERMIT AS WELL AS LOCAL, STATE AND FEDERAL REGULATIONS OR LAWS APPLY REGARDLESS OF SPECIFIC INCLUSIONS IN THIS PLAN.
- THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL EXISTING UTILITIES. EXISTING UTILITIES ARE ALL UTILITIES ON THE PROJECT IN AN ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGED UNDERGROUND OR OVERHEAD FACILITIES, EVEN IF THE UTILITY IS NOT SHOWN ON THE SITE DEVELOPMENT PLANS. THE CONTRACTOR SHALL CONTACT THE UTILITIES PROTECTION CENTER AT 1-800-282-7411 TO COORDINATE THE MARKING OF EXISTING UTILITY LINES A MAXIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF ANY WORK.
- CONTRACTOR SHALL FLUSH ALL INLETS AND PIPE AT THE COMPLETION OF CONSTRUCTION TO REMOVE SILT AND DEBRIS. THE CLEANING AND FLUSHING OF INLETS AND PIPE (EXISTING AND PROPOSED) SHALL BE CONSIDERED PART OF THE COST FOR PIPE ON THE PROJECT. SCHEDULE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXPOSED AREA AND DURATION OF EXPOSURE. IN SCHEDULING, TAKE INTO ACCOUNT THE SEASON AND THE WEATHER FORECAST.
- EROSION CONTROL MEASURES ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CONTROL MEASURES AS DICTATED BY ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION IN ORDER TO PREVENT EROSION AND CONTROL SEDIMENT. THE CONTRACTOR SHALL BE FAMILIAR WITH THE "NARRATIVE DESCRIPTION: LAND DISTURBING ACTIVITIES" REPORT THAT ACCOMPANIES THIS PROJECT, AND HAVE A CLEAR UNDERSTANDING OF THE CONCEPTS, APPLICATIONS, STANDARDS AND SPECIFICATIONS OF THE BEST MANAGEMENT PRACTICES LISTED IN SAID DOCUMENT. EROSION AND SEDIMENT CONTROL MEASURES WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE ENTIRE PROJECT IS TERMINATED OR SUSPENDED FOR AN INDEFINITE LENGTH OF TIME. ALL DISTURBED AREAS SHALL BE PLANTED WITH PERMANENT VEGETATION.
- THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR IN ANY WAY INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, IS BASED UPON FIELD INVESTIGATIONS AND IS BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME IS SHOWN AS INFORMATION ONLY, IS NOT GUARANTEED AND DOES NOT BIND THOMAS & HUTTON, OR THE OWNER IN ANY WAY.
- CONTRACTOR SHALL MAINTAIN SITE ON A DAILY BASIS TO PROVIDE FOR POSITIVE DRAINAGE. CONTRACTOR, AT HIS COST, SHALL GRADE SITE AND PROVIDE NECESSARY TEMPORARY DRAINAGE SWALES TO INSURE STORM WATER DOES NOT POND ON SITE.
- SITE DRAINAGE SHALL BE ESTABLISHED TO PREVENT AN PONDED WATER CONDITIONS WITHIN THE CONSTRUCTION AREA AND TO FACILITATE THE RAPID RUN-OFF OF STORM WATER.
- 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.
- AMENDMENT/REVISIONS TO THE ES&PC PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- ANY CONSTRUCTION ACTIVITY WHICH DISCHARGES STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHE AS, ANY PORTION OF AN BIOTA IMPAIRED STREAM SEGMENT MUST COMPLY WITH PART III. C. OF THE PERMIT.
- IF A TMDL IMPLEMENTATION PLAN FOR SEDIMENT HAS BEEN FINALIZED FOR THE IMPAIRED STREAM SEGMENT (IDENTIFIED IN ITEM 11ABOVE) 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.
- EXCEPT AS REQUIRED TO INSTALL THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS AS DESCRIBED IN PART IV.D.3., THE INITIAL SEDIMENT STORAGE REQUIREMENTS (AND PERM GRUBBING AND GRADING) WITHIN THE CONSTRUCTION SITE OR WHEN APPLICABLE. WITHIN PHASED SUB-PARTS OR SEGMENTS OF THE CONSTRUCTION SITE. FAILURE TO COMPLY SHALL CONSTITUTE A VIOLATION OF THIS PERMIT FOR EACH DAY ON WHICH CONSTRUCTION ACTIVITIES OCCUR. THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN MUST INSPECT THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPS IN ACCORDANCE WITH PART IV.A.5 WITHIN SEVEN (7) DAYS AFTER INSTALLATION.
- THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT AND CERTIFY THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS, PERIMETER CONTROL BMPS, AND SEDIMENT BASINS WITHIN 7 DAYS AFTER INSTALLATION.
- 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.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

#4 DEVELOPER/OWNER
BRYAN COUNTY ENGINEERING DEPARTMENT
66 CAPTAIN MATTHEW FREEMAN DRIVE, SUITE 201
RICHMOND HILL, GA 31324
CONTACT: KIRK CROASMUN
EMAIL: KCROASMUN@BRYANCOUNTYGA.GOV
PHONE: 912-756-7953

#3 24 HOUR CONTACT PERSON RESPONSIBLE FOR EROSION, SEDIMENTATION AND POLLUTION CONTROLS
BRYAN COUNTY ENGINEERING DEPARTMENT
66 CAPTAIN MATTHEW FREEMAN DRIVE, SUITE 201
RICHMOND HILL, GA 31324
CONTACT: KIRK CROASMUN
EMAIL: KCROASMUN@BRYANCOUNTYGA.GOV
PHONE: 912-756-7953

EROSION, SEDIMENTATION AND POLLUTION CONTROL PRACTICES

STRUCTURAL PRACTICES

CONSTRUCTION EXIT - A STONE STABILIZED PAD LOCATED AT ANY POINT WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING AREA, THE PURPOSE OF THE MEASURE IS TO REDUCE OR ELIMINATE THE TRANSPORT OF MUD FROM THE CONSTRUCTION AREA BY MOTOR VEHICLES OR BY RUNOFF.

SEDIMENT BARRIER - TEMPORARY STRUCTURES TYPICALLY CONSTRUCTED OF SILT FENCE SUPPORTED BY STEEL OR WOOD POSTS. OTHER TYPES OF BARRIERS MAY INCLUDE SANDBAGS, STRAW BALES, BRUSH PILES AND OTHER FILTERING MATERIAL. THE PURPOSE OF THE MEASURE IS TO PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE SITE AND ENTERING NATURAL DRAINAGE WAYS OR STORM DRAINAGE SYSTEMS BY SLOWING STORM WATER RUNOFF AND CAUSING THE DEPOSITION AT THE STRUCTURE.

VEGETATIVE MEASURES

#52 SMALLER TREES SHALL BE REMOVED FIRST TO ALLOW THE LARGER TREES TO BE FELLED WITH MORE CARE. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED SO AS TO PREVENT DAMAGE TO EXISTING STRUCTURES AND INSTALLATIONS, AND TO THOSE UNDER CONSTRUCTION, TO PROPERTY EXISTING OUTSIDE THE AREAS TO BE CLEARED, AND SO AS TO PROVIDE FOR THE SAFETY OF EMPLOYEES AND OTHERS. ALL STUMP HOLES MUST BE FILLED USING CLEAN FILL DIRT, PLACED IN ONE FOOT LIFTS AND ADEQUATELY COMPACTED.

ALL CLEARED MATERIAL SHALL BE REMOVED FROM THE SITE OR BURNED. DISPOSAL BY BURNING MAY ONLY BE DONE WHEN APPROVED BY THE BRYAN COUNTY. MATERIAL DISPOSED OF BY BURNING SHALL BE BURNED IN A MANNER THAT WILL AVOID ALL HAZARDS, SUCH AS DAMAGE TO EXISTING STRUCTURES, CONSTRUCTION IN PROGRESS, TREES TO BE PRESERVED, AND EXISTING VEGETATION.

DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)- ESTABLISHING TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENUDED AREAS. THE PURPOSE OF THE MEASURE IS TO:

- REDUCE EROSION, SEDIMENT AND RUNOFF DAMAGES TO DOWNSTREAM RESOURCES
- IMPROVE WLDLIFE HABITAT
- IMPROVE AESTHETICS
- PROTECT SOIL SURFACE FROM EROSION
- IMPROVE TILTH AND ADD ORGANIC MATTER FOR PERMANENT PLANTINGS

DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)- PLANTING PERENNIAL VEGETATION, SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES, ON EXPOSED AREAS FOR FINAL PERMANENT STABILIZATION. THE PURPOSE IS TO STABILIZE THE SOIL, REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS, AND IMPROVE WLDLIFE HABITAT AND VISUAL RESOURCES.

TEMPORARY AND PERMANENT VEGETATIVE PRACTICE SHALL BE AS FOLLOWS:

SEED SPECIES	APPLICATION/ACRE	PLANTING DATE
(PERMANENT) BERMUDA (HULLED)	10 LBS/AC	3/1 - 9/1
(TEMPORARY) BERMUDA (UNHULLED) ABRUZZI RYE	10 LBS/AC 50 LBS/AC	9/1 - 3/1

FERTILIZER SHALL BE APPLIED AT A RATE OF 1,500 LBS/AC. LIME SHALL BE APPLIED AT A RATE OF 1,500 LBS/AC. MULCHING SHALL BE SPREAD AT A RATE OF 2.0 TONS/AC. WEEKLY INSPECTION OF THE GRASS COVER SHALL BE PERFORMED TO IDENTIFY AREAS REQUIRING REESTABLISHMENT OF GRASS. DUST CONTROL ON DISTURBED AREAS - CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE AND HAUL ROUTES. THE PURPOSE OF THE MEASURE IS TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES, WHICH MAY BE HARMFUL OR INJURIOUS TO HUMAN HEALTH, WELFARE OR SAFETY, OR TO ANIMALS OR PLANT LIFE.

HARRIS TRAIL ROAD/TIMBER TRAIL ROAD
BRYAN COUNTY, GEORGIA
PROJECT #J-27691.0122
DATE: 06/22/2026
TOTAL PROJECT ACREAGE: 4.22±
TOTAL DISTURBED ACREAGE: 2.87±



#8 PROJECT DESCRIPTION - BRYAN COUNTY - HARRIS TRAIL ROAD/TIMBER TRAIL ROAD
THE PROJECT WILL CONSIST OF IMPROVEMENTS AT THE INTERSECTION OF HARRIS TRAIL ROAD AND TIMBER TRAIL ROAD.
WORK INCLUDES INSTALLATION OF A NEW TRAFFIC SIGNAL AND EXTENDING TURN LANES ON TIMBER TRAIL ROAD IN BRYAN COUNTY, GEORGIA.

#45/#26 POST DEVELOPMENT RUNOFF FROM THE SITE WILL NOT INCREASE FROM PRE-DEVELOPMENT. THE RUNOFF COEFFICIENT PRIOR TO IS APPROX. 0.45 AND AFTER CONSTRUCTION WILL BE APPROX. 0.45. SURFACE RUNOFF FROM THE SITE DRAINS INITIALLY INTO SURROUNDING DRAINAGE SWALES AND WETLANDS AND ULTIMATELY TO THE STERLING CREEK. ALL POST-DEVELOPMENT DISCHARGE AND VELOCITY LEVELS AT THE OUTFALL LOCATIONS WILL EQUAL THAT OF PRE-DEVELOPMENT LEVELS FOR THE PROJECT.

#47 SOILS WITHIN THE PROJECT AREA CONSISTS OF THE FOLLOWING SERIES BASED ON USGS SOILS SURVEY DATA FOR BRYAN COUNTY GEORGIA : Cc Cape Fear, Oj Oclita complex, Pi Pelthom loamy sand.

CONSTRUCTION

CONSTRUCTION ACTIVITIES WILL INVOLVE NORMAL CONSTRUCTION ACTIVITIES ASSOCIATED WITH ROADWAY CONSTRUCTION. IT IS ANTICIPATED THAT CONSTRUCTION ACTIVITIES WILL BEGIN ON OR ABOUT JULY 2026, AND BE COMPLETED ON OR ABOUT DECEMBER 2026. THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.

#29 PROCESSES AND PRINCIPLES OF EROSION, SEDIMENTATION AND POLLUTION

WHEN LAND IS DISTURBED AT A CONSTRUCTION SITE, THE EROSION RATE ACCELERATES DRAMATICALLY. SINCE GROUND COVER ON AN UNDISTURBED SITE PROTECTS THE SURFACE, REMOVAL OF THAT COVER INCREASES THE SITE'S SUSCEPTIBILITY TO EROSION. DISTURBED LAND MAY HAVE AN EROSION RATE 1,000 TIMES GREATER THAN THE PRE-CONSTRUCTION RATE. EVEN THOUGH CONSTRUCTION REQUIRES THAT LAND BE DISTURBED AND BE LEFT BARE FOR PERIODS OF TIME, PROPER PLANNING AND USE OF CONTROL MEASURES CAN REDUCE THE IMPACT OF MAN-INDUCED ACCELERATED EROSION.

EFFECTIVE EROSION, SEDIMENTATION AND POLLUTION CONTROL REQUIRES FIRST THAT THE SOIL SURFACE BE PROTECTED FROM THE EROSIIVE FORCES OF WIND, RAIN, AND RUNOFF, AND SECOND THAT ERODED SOIL CAN BE CAPTURED ON-SITE.

#26 PERMANENT GRASSING SHALL REMAIN IN PLACE AFTER PROJECT IS COMPLETED TO CONTROL POLLUTANTS IN THE PROJECT'S STORM WATER.

#27 CONTRACTOR SHALL PROVIDE MEASURES TO COVER ALL BUILDING MATERIALS AND BUILDING PRODUCTS ON-SITE, INCLUDING BUT NOT LIMITED TO, PLASTIC SHEETING OR TEMPORARY ROOFING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEASURES THAT HE DEEMS NECESSARY TO MINIMIZE THE EXPOSURE TO PRECIPITATION AND STORMWATER FOR THE PROPOSED UTILITIES.

#48 LIMITS OF DISTURBANCE FOR ROADWAY PROJECTS ARE TYPICALLY 10 FEET OFF CONSTRUCTION LIMITS, WHICH IS TYPICALLY THE RIGHT-OF-WAY OR PERMANENT EASEMENT. LIMITS OF DISTURBANCE ARE LABELED THROUGHOUT PLANS FOR CLARITY.

LAND DISTURBING ACTIVITIES PLAN

#52 GENERAL DESIGN PRINCIPLES

FOR AN EROSION, SEDIMENTATION AND POLLUTION CONTROL PROGRAM TO BE EFFECTIVE, IT IS IMPERATIVE THAT PROVISIONS FOR SEDIMENT CONTROL MEASURES BE MADE IN THE PLANNING STAGE. THESE PLANNED MEASURES WHEN CONSCIENTIOUSLY AND EXPEDITIOUSLY APPLIED DURING CONSTRUCTION, WILL RESULT IN ORDERLY DEVELOPMENT WITHOUT ADVERSE ENVIRONMENTAL DEGRADATION. THE FOLLOWING KEY PRINCIPALS SHALL BE UTILIZED, TO THE MAXIMUM EXTENT POSSIBLE, IN ALL PLANNING.

- FIT THE ACTIVITY TO THE TOPOGRAPHY AND SOILS. DETAILED PLANNING SHOULD BE EMPLOYED TO ASSURE THE ROADWAYS, BUILDINGS AND OTHER PERMANENT FEATURES OF THE ACTIVITY CONFORM TO THE NATURAL CHARACTERISTICS OF THE SITE. LARGE GRADED AREAS SHOULD BE LOCATED ON THE MOST LEVEL PORTION OF THE SITE. AREAS SUBJECT TO FLOODING SHOULD BE AVOIDED. AREAS OF STEEP SLOPES, ERODIBLE SOILS, AND SOILS WITH SEVERE LIMITATIONS FOR THE INTENDED USES SHOULD NOT BE UTILIZED WITHOUT OVERCOMING THE LIMITATIONS THROUGH SOUND ENGINEERING PRACTICES. EROSION CONTROL, DEVELOPMENT AND MAINTENANCE COSTS CAN BE MINIMIZED IF A SITE IS SELECTED FOR A SPECIFIC ACTIVITY.
- THE DISTURBED AREA AND DURATION OF EXPOSURE TO EROSION ELEMENTS SHOULD BE MINIMIZED. CLEARING OF NATURAL VEGETATION SHOULD BE LIMITED TO ONLY THOSE AREAS OF THE SITE TO BE DEVELOPED AT A GIVEN TIME. NATURAL VEGETATION SHOULD BE RETAINED, PROTECTED AND SUPPLEMENTED WITH CONSTRUCTION SCHEDULING EMPLOYED TO LIMIT THE DURATION OF SOIL EXPOSURE.

- STABILIZE DISTURBED AREAS IMMEDIATELY. PERMANENT STRUCTURES, TEMPORARY OR PERMANENT VEGETATION, AND MULCH, OR A COMBINATION OF THESE MEASURES, SHOULD BE EMPLOYED AS QUICKLY AS POSSIBLE AFTER THE LAND IS DISTURBED. TEMPORARY VEGETATION AND MULCHES CAN BE MOST EFFECTIVE ON AREAS WHERE IT IS NOT PRACTICAL TO ESTABLISH PERMANENT VEGETATION. THESE TEMPORARY MEASURES SHOULD BE EMPLOYED IMMEDIATELY AFTER ROUGH GRADING IS COMPLETED IF A DELAY IS ANTICIPATED ON OBTAINING FINISHED GRADE. THE FINISHED SLOPE OF A CUT OR FILL SHOULD BE STABLE AND EASE OF MAINTENANCE CONSIDERED IN THE DESIGN. STABILIZE ALL ROADWAYS, PARKING AREAS, AND PAVED AREAS WITH THE GRAVEL SUBBASE, TEMPORARY VEGETATION OR MULCH.
- RETAIN OR ACCOMMODATE RUNOFF. RUNOFF FROM THE DEVELOPMENT SHOULD BE SAFELY CONVEYED TO A STABLE OUTLET USING STORM DRAINS, DIVERSIONS, STABLE WATERWAYS OR SIMILAR CONSERVATION MEASURES. CONSIDERATION SHOULD ALSO BE GIVEN TO THE INSTALLATION OF STORM WATER RETENTION STRUCTURES TO PREVENT FLOODING AND DAMAGE TO DOWNSTREAM FACILITIES RESULTING FROM INCREASED RUNOFF FROM THE SITE. TEMPORARY OR PERMANENT FACILITIES FOR CONVEYANCE OF STORM WATER SHOULD BE DESIGNED TO WITHSTAND THE VELOCITIES OF PROJECTED PEAK DISCHARGES. THESE FACILITIES SHOULD BE IN OPERATION AS SOON AS POSSIBLE AFTER THE START OF CONSTRUCTION.
- RETAIN SEDIMENT. SEDIMENT BASINS, SEDIMENT BARRIERS AND RELATED STRUCTURES SHOULD BE INSTALLED TO FILTER OR TRAP SEDIMENT ON THE SITE TO BE DISTURBED. THE MOST EFFECTIVE METHOD OF CONTROLLING SEDIMENT, HOWEVER, IS TO CONTROL EROSION AT ITS SOURCE. SEDIMENT RETENTION STRUCTURES SHOULD BE PLANNED TO RETAIN SEDIMENT WHEN EROSION CONTROL METHODS ARE NOT PRACTICAL, ARE INSUFFICIENT, OR IN THE PROCESS OF BEING INSTALLED, OR HAVE FAILED DUE TO SOME UNFORESEEN FACTOR.



05-21-2026 Date: DOYLE KELLEY, P.E. - ENGINEER
000024601 GSICC LEVEL II Certification Number



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ESPCP GENERAL NOTES
HARRIS TRAIL ROAD AND
TIMBER TRAIL ROAD

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51-0001

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#32 RETENTION OF RECORDS

1. THE PRIMARY PERMITEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A N.O.T. IS SUBMITTED IN ACCORDANCE WITH PART VI:
 - A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
 - B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
 - C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
 - D. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
 - E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A OF THIS PERMIT;
 - F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT;
 - G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2). OF THIS PERMIT

2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF ATLEAST THREE YEARS FROM THE DATE THAT THE N.O.T. IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITEE.

LIME RATES AND ANALYSIS

- * AGRICULTURAL LIME SHALL BE APPLIED AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE. GRADED AREAS REQUIRE LIME APPLICATION. IF LIME IS APPLIED WITHIN SIX MONTHS OF PLANTING PERENNIAL VEGETATION, ADDITIONAL LIME IS NOT REQUIRED. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.

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

- * DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED DRY STRAW SHALL BE APPLIED AT THE RATE OF TWO TONS PER ACRE. DRY HAY SHALL BE APPLIED AT THE RATE OF 2 1/2 TONS PER ACRE.
- * WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT SHALL BE APPLIED AT A RATE OF 500 POUNDS PER ACRE. DRY STRAW OR DRY HAY SHALL BE APPLIED (AT THE RATE INDICATED BELOW) AFTER HYDRAULIC SEEDING.
- * ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES TACKIFIER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 4:1 OR STEEPER.
- * SERICEA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF 3 TONS PER ACRE.
- * PINE STRAW OR PINE BARK SHALL BE APPLIED AT A THICKNESS OF 3 INCHES FOR BEDDING PURPOSES. OTHER SUITABLE MATERIALS IN SUFFICIENT QUANTITY MAY BE USED WHERE ORNAMENTALS OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDED AREAS.
- * WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLACK SOD, MULCH IS NOT REQUIRED.

#52

FERTILIZER REQUIREMENTS

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

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

CHANNEL PROTECTION

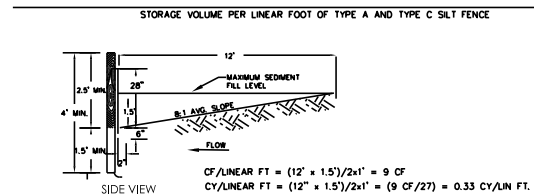
All channels may be stabilized exclusively with Ch-1.

SEDIMENT STORAGE

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 disturbing 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 be given. Worksheets from the Manual must be included for structural BMP's and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the plan.

#49 Sediment basins and detention ponds are not practical for this project due to the linear nature of this project with limited right of way. Sediment storage calculations do not justify the use of sediment basins at drainage locations. Land disturbance activities associated with possible construction and removing a sediment basin at any location within the project would cause adverse impacts. Those impacts are disturbance of greater area than it would actually be protected. For these reasons, BMP's as shown on the erosion control plans will be adequate to prevent erosion runoff at these locations.

#49 THE SITE HAS A TOTAL PROJECT AREA OF 4.22 ACRES AND A TOTAL DISTURBED AREA OF 2.87 ACRES.



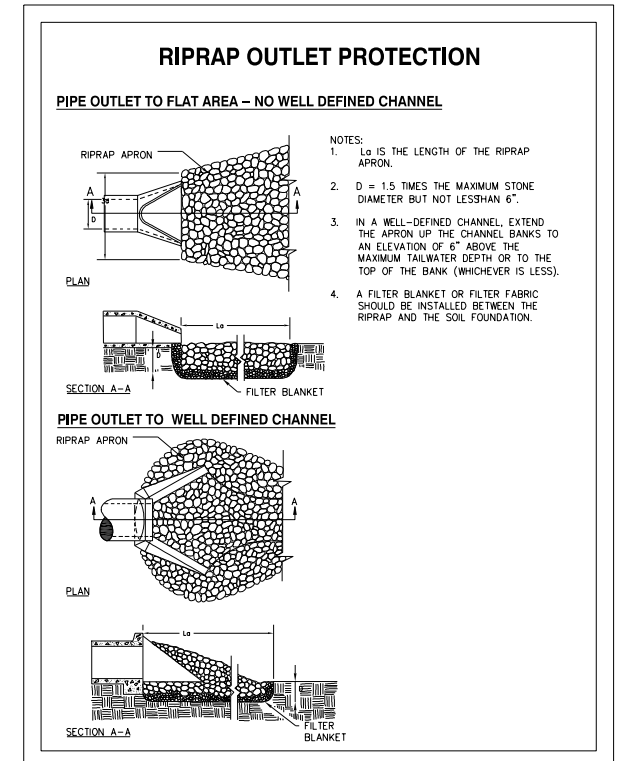
Note: The Total Site area is 4.22 acres.	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (yd3)	Total Storage Volume Provided (yd3)	Sediment Basins		Check Dam (10 yd3/each)		Inlet Sediment Traps (6.7 yd3/each)		Silt Gates (5 yd3/each)		Silt Fence (0.3 yd3/ft)	
					Basin #	Total Volume (yd3)	# of Devices	Total Volume (yd3)	# of Devices	Total Volume (yd3)	# of Devices	Total Volume (yd3)	Length of Fence (ft)	Total Volume (yd3)
Outfall A	3.06	0.40	205	181.5	N/A	N/A	0	0	0	0	0	N/A	605	181.5
Outfall B1	1.22	0.32	82	120.6	N/A	N/A	0	0	0	0	0	N/A	402	120.6
Outfall B2	1.11	0.62	74	140.1	N/A	N/A	0	0	0	0	0	N/A	467	140.1
Outfall C	5.15	1.47	345	278.4	N/A	N/A	0	0	0	0	0	N/A	928	278.4
Outfall D	0.21	0.05	14	37.2	N/A	N/A	0	0	0	0	0	N/A	124	37.2

#49 FOR OUTFALLS A, B1, B2, C, AND D, 67 CY/ACRE OF SEDIMENT STORAGE WAS NOT OBTAINED DUE TO THE RELATIVELY LARGE CONTRIBUTING DRAINAGE AREAS. DRAINAGE AREAS FOR THESE OUTFALLS ARE PREDOMINANTLY OFFSITE AND UNDISTURBED DURING CONSTRUCTION. THE PROPOSED BMP'S ARE MORE THAN ADEQUATE FOR THE STORAGE FOR DISTURBED AREAS WITH ADDITIONAL CAPACITY FOR SEDIMENT STORAGE FOR THE UNDISTURBED CONTRIBUTING AREAS BUT NOT THE FULL 67 CY/ACRES. SEDIMENT TRAPS, SEDIMENT BASINS, AND DETENTION PONDS ARE NOT PRACTICAL FOR THIS PROJECT DUE TO THE LINEAR NATURE OF THIS PROJECT WITH LIMITED RIGHT OF WAY. DUE TO THESE REASONS, SEDIMENT STORAGE WILL BE PROVIDED FROM SILT FENCE.

RIPRAP OUTLET PROTECTION

Structure #, Outfall ID#, or Station and Offset	Pipe Diameter	Q ₂₅	V ₂₅	Tailwater Condition	Width at Drainage Structure	Apron	Downstream	Average	Apron	Riprap Type	Quantity
	(ft)	(ft ³ /s)	(ft ³ /s)	(TW>0.5 D ₅₀) (TW>0.5 D ₅₀)	(ft)	Length	Width	Stone Diameter	Thickness	(Type 3 or Type 1)	(yd ³)
200+82.83	1.50	22.2	0.91	TW>0.5 D ₅₀	4.50	9.00	5.10	0.30	0.68	Type 3	5.06
49.00' LT											
108+86.90	1.50	14.9	1.24	TW>0.5 D ₅₀	4.50	9.00	10.5	0.30	0.68	Type 3	7.50
60.57 RT											

St



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GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 031048
DOYLE D. KELLEY, P.E.

05-21-2026 Date: DOYLE KELLEY, P.E. - ENGINEER 0000024601 GSWCC LEVEL II Certification Number



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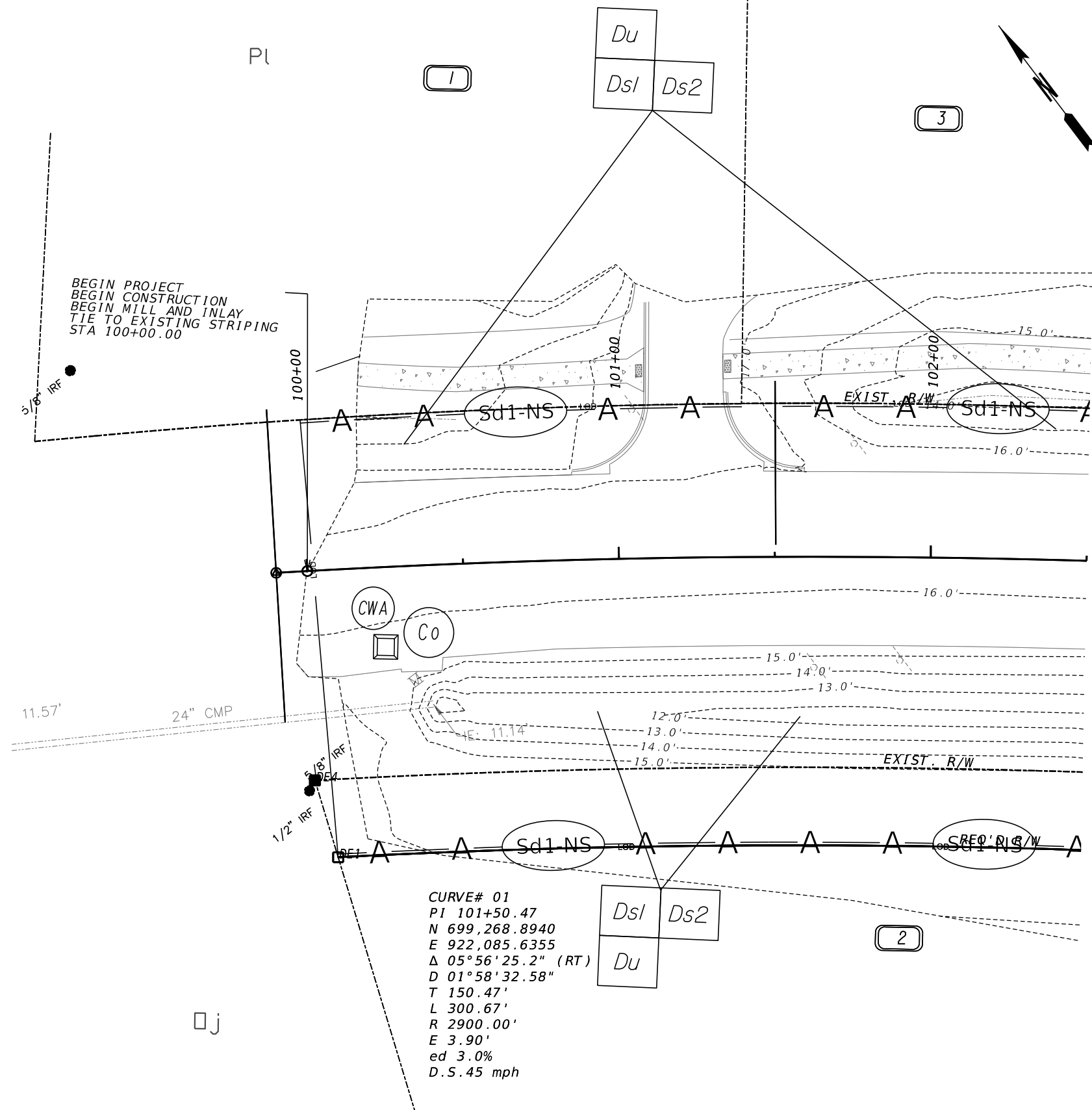
REVISION DATES

DATE	DESCRIPTION
06/22/2026	

ESPCP GENERAL NOTES
HARRIS TRAIL ROAD AND
TIMBER TRAIL ROAD

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PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Diagonal Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Cross-hatched Box]

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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	-----

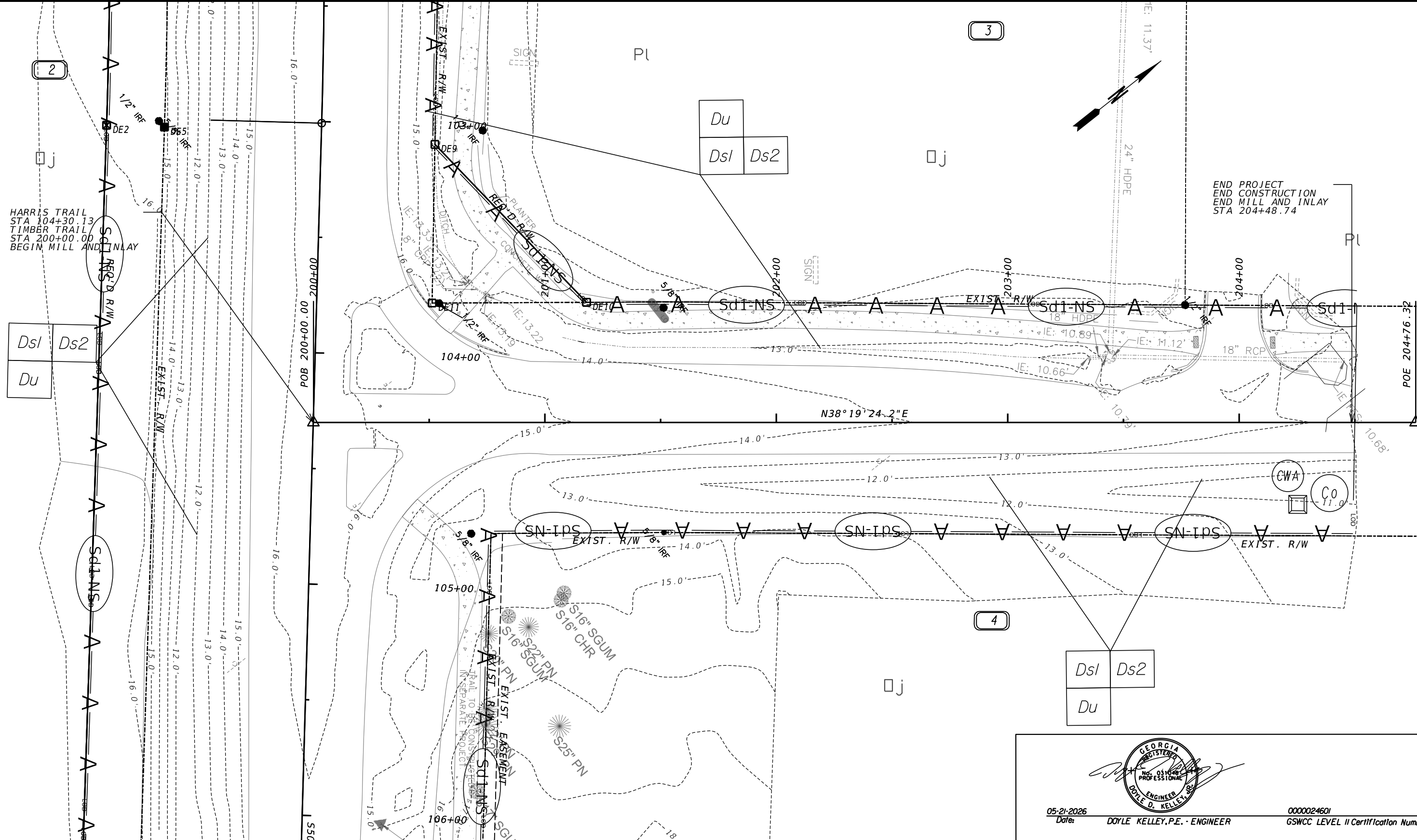


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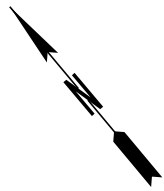
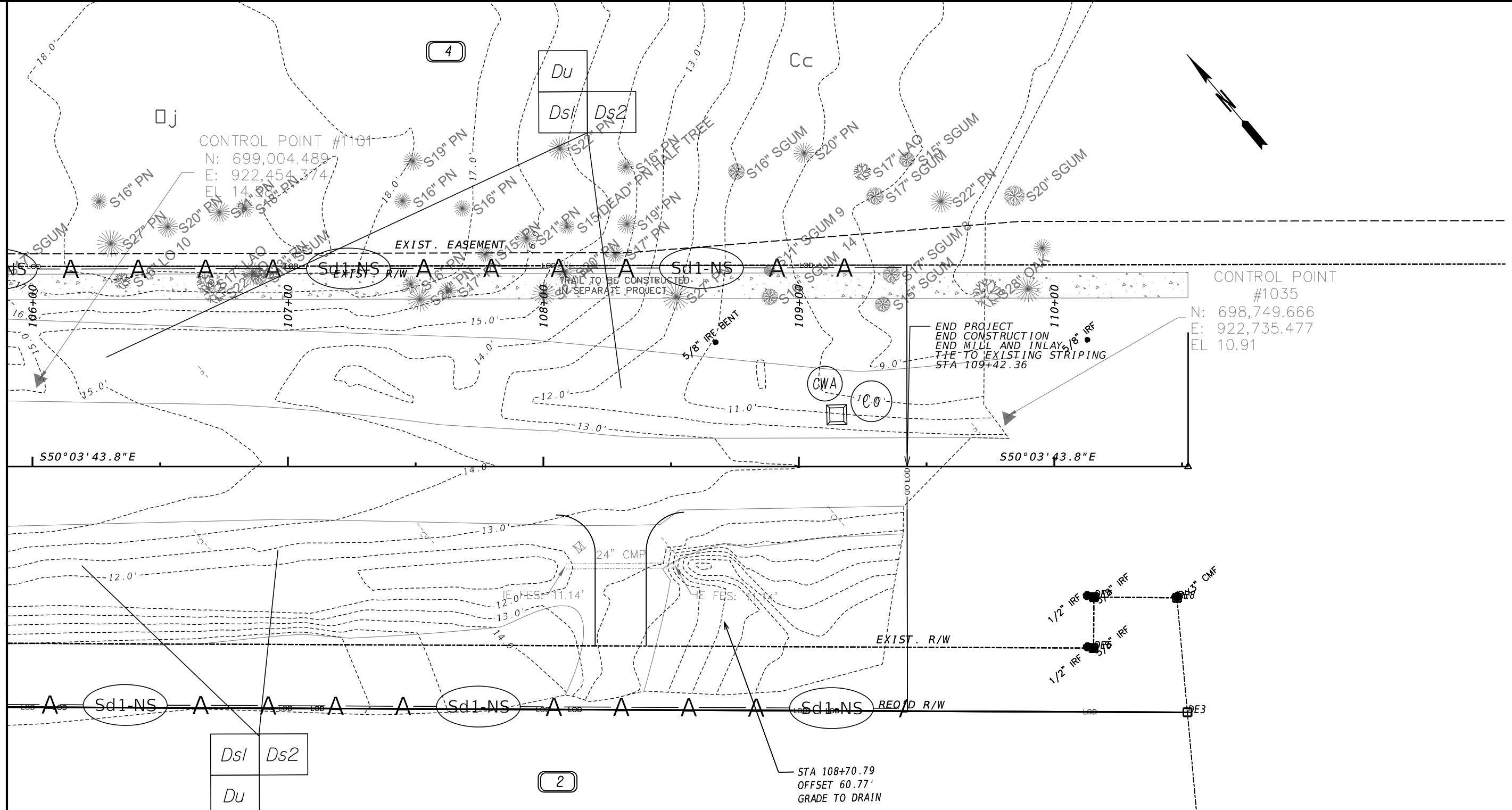
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Date

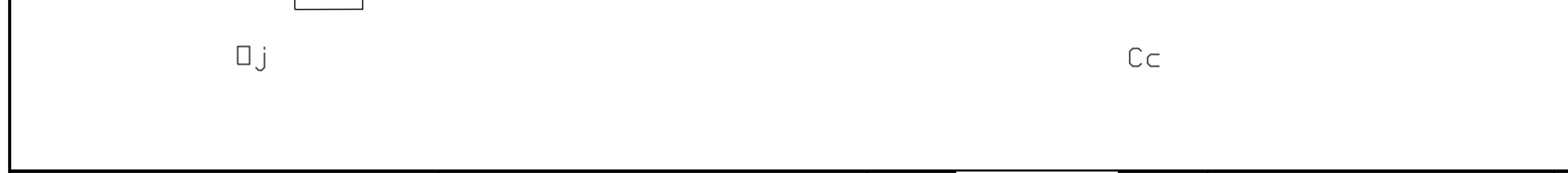
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DOYLE D. KELLEY, P.E.
ENGINEER

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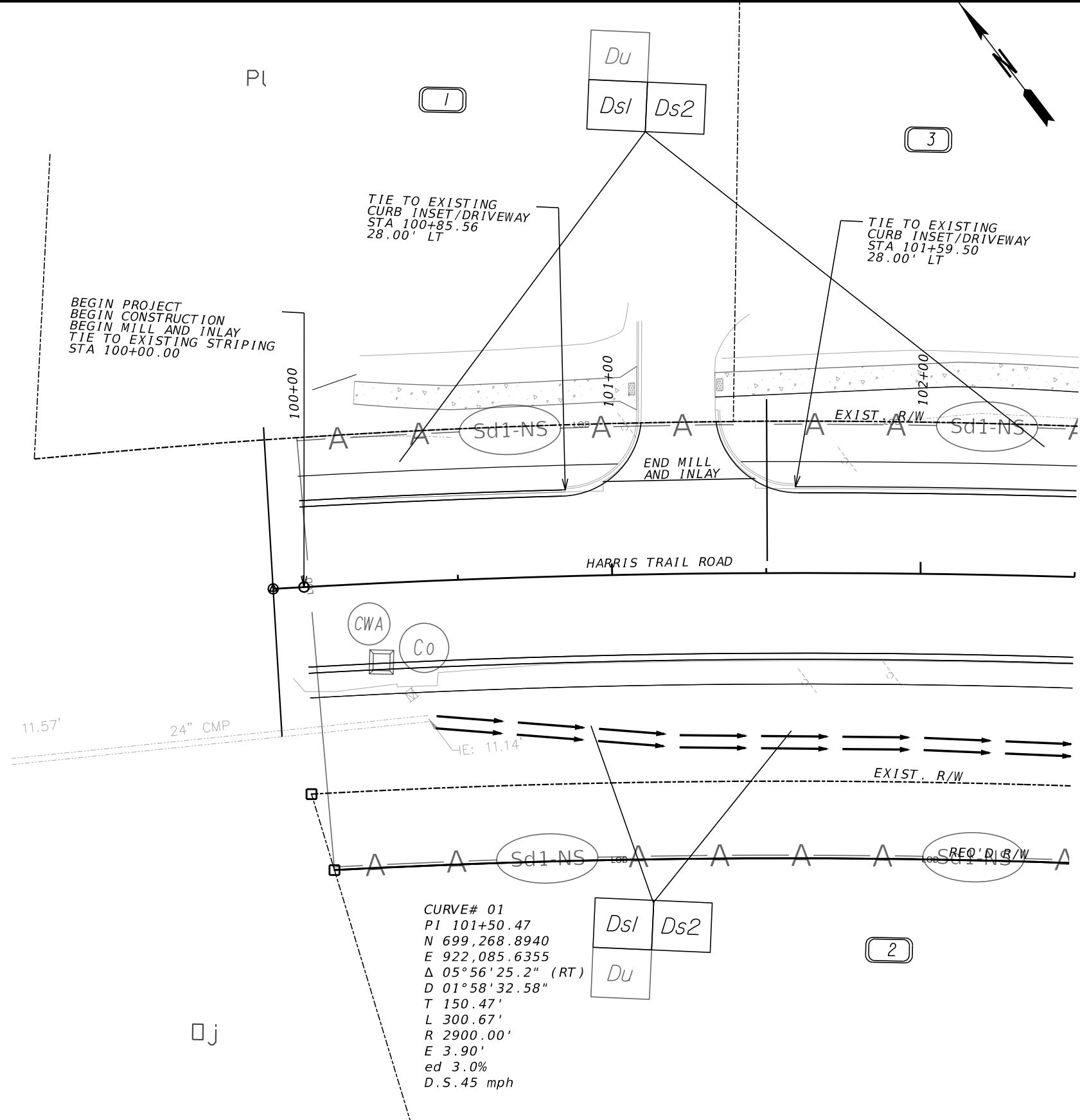
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CURVE# 01
 PI 101+50.47
 N 699,268.8940
 E 922,085.6355
 Δ 05°56'25.2" (RT)
 D 01°58'32.58"
 T 150.47'
 L 300.67'
 R 2900.00'
 E 3.90'
 ed 3.0%
 D.S.45 mph

Date: 05-21-2026
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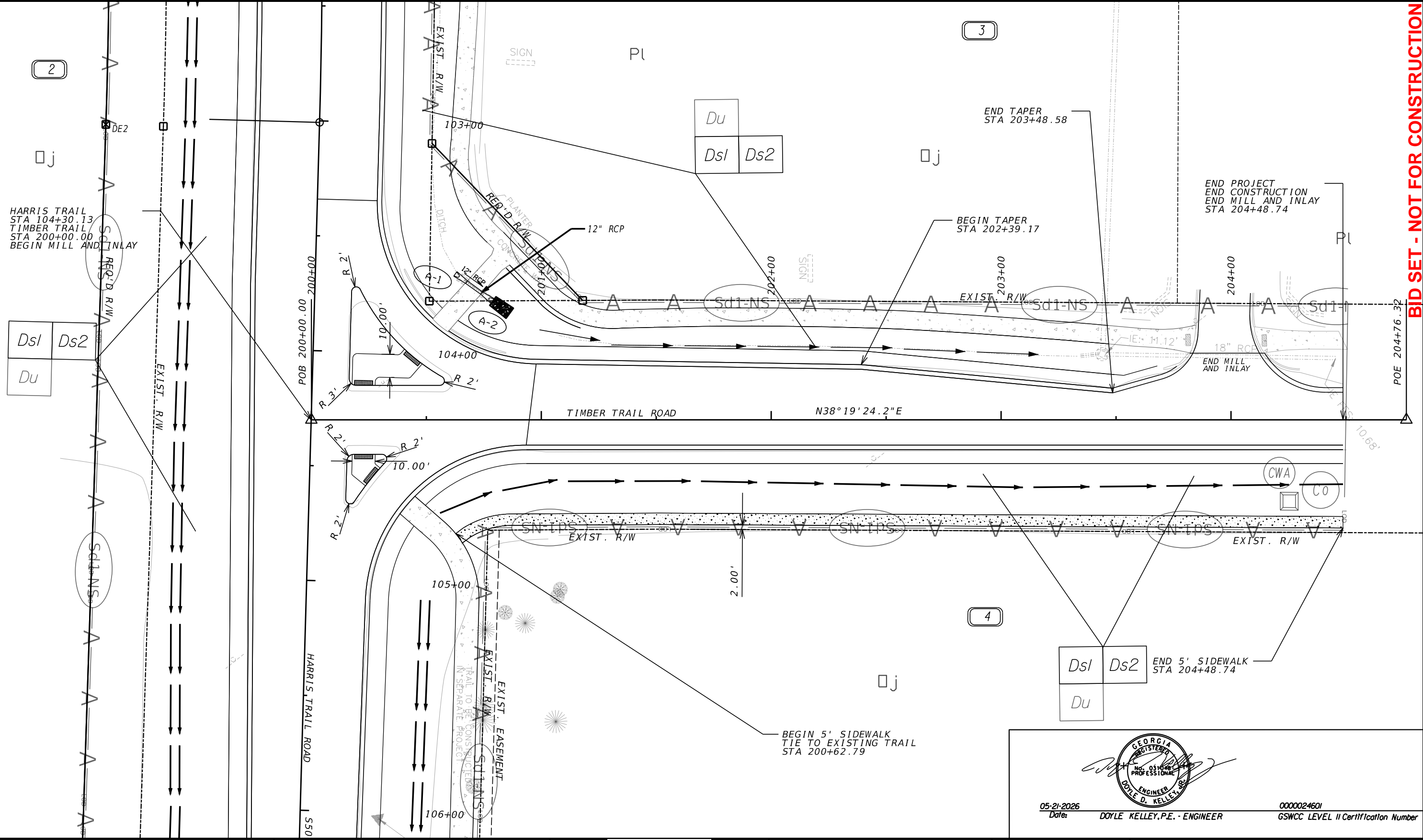


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TIMBER TRAIL ROAD SIGNAL
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HARRIS TRAIL
 STA 104+30.13
 TIMBER TRAIL
 STA 200+00.00
 BEGIN MILL AND INLAY

Ds1 Ds2
 Du

Ds1 Ds2
 Du
 END 5' SIDEWALK
 STA 204+48.74

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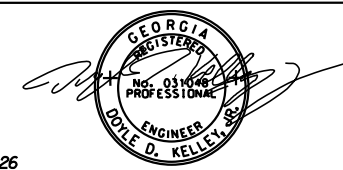
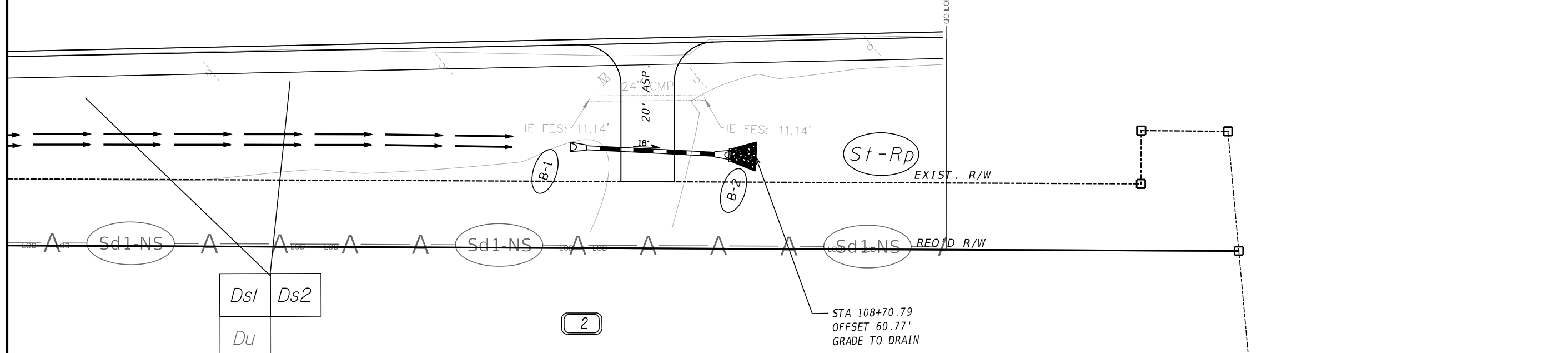
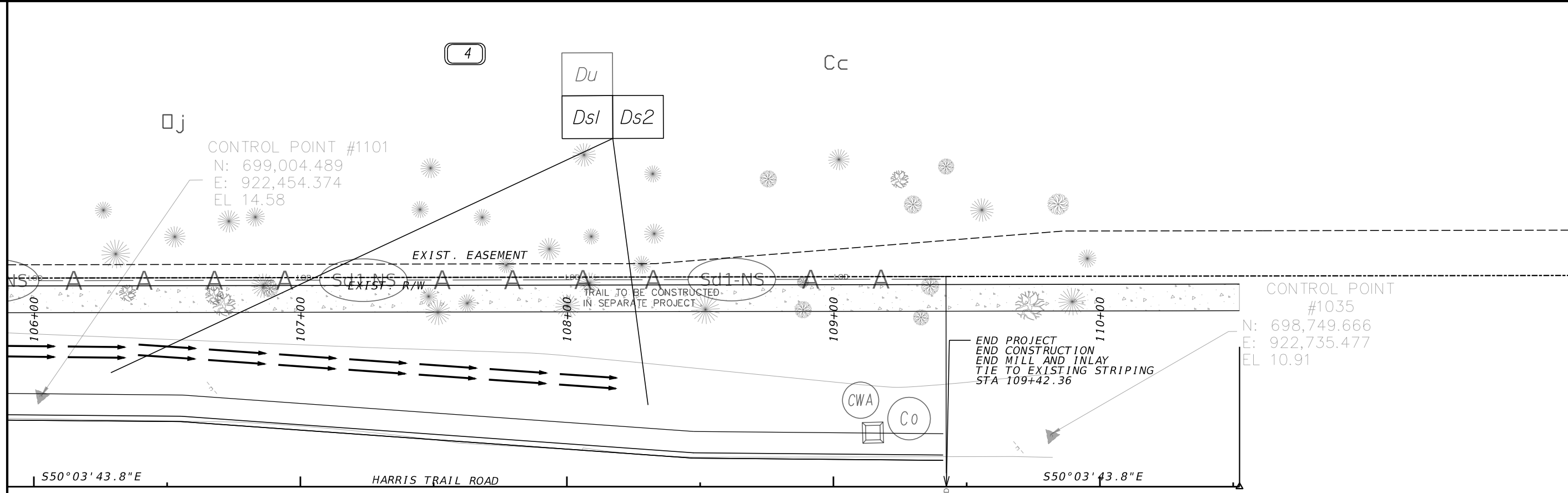
SCALE IN FEET

REVISION DATES	
06/22/2026	

BMP LOCATION DETAILS
 HARRIS TRAIL ROAD AND
 TIMBER TRAIL ROAD SIGNAL
 INTERMEDIATE PHASE

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

05-21-2026 Date
 Doyle Kelley, P.E. - ENGINEER
 000024601 GSWCC LEVEL II Certification Number



05-21-2026 Date
 Doyle Kelley, P.E. - ENGINEER
 000024601 GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Diagonal Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Cross-hatched Box]

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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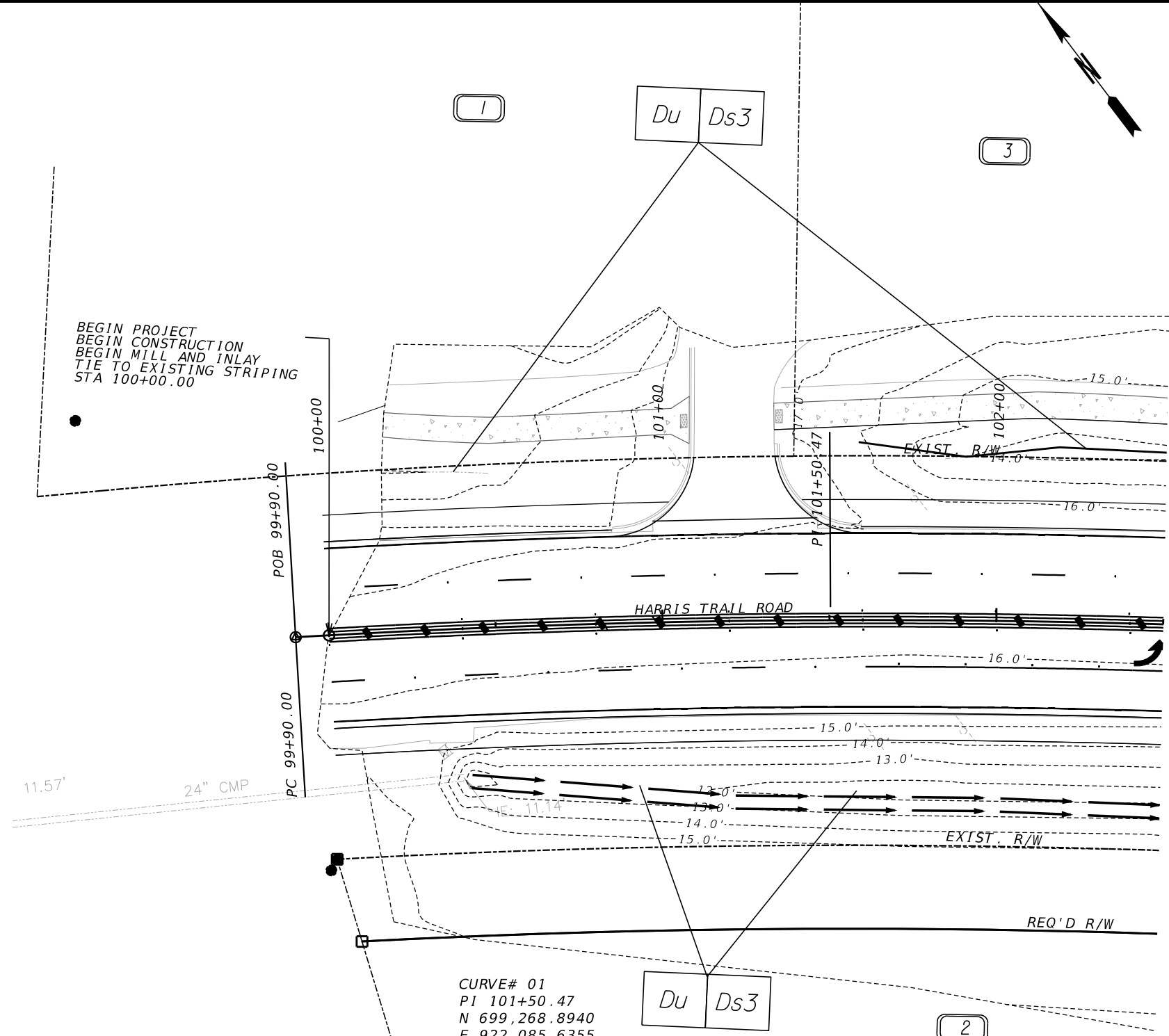
SCALE IN FEET

REVISION DATES	
06/22/2026	

BMP LOCATION DETAILS HARRIS TRAIL ROAD AND TIMBER TRAIL ROAD SIGNAL INTERMEDIATE PHASE			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-0006	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

BID SET - NOT FOR CONSTRUCTION

BID SET - NOT FOR CONSTRUCTION



CURVE# 01
 PI 101+50.47
 N 699,268.8940
 E 922,085.6355
 Δ 05°56'25.2" (RT)
 D 01°58'32.58"
 T 150.47'
 L 300.67'
 R 2900.00'
 E 3.90'
 ed 3.0%
 D.S.45 mph

05-21-2026
 Date: DOYLE KELLEY, P.E. - ENGINEER
 000024601
 GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Diagonal Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Cross-hatched Box]

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-----



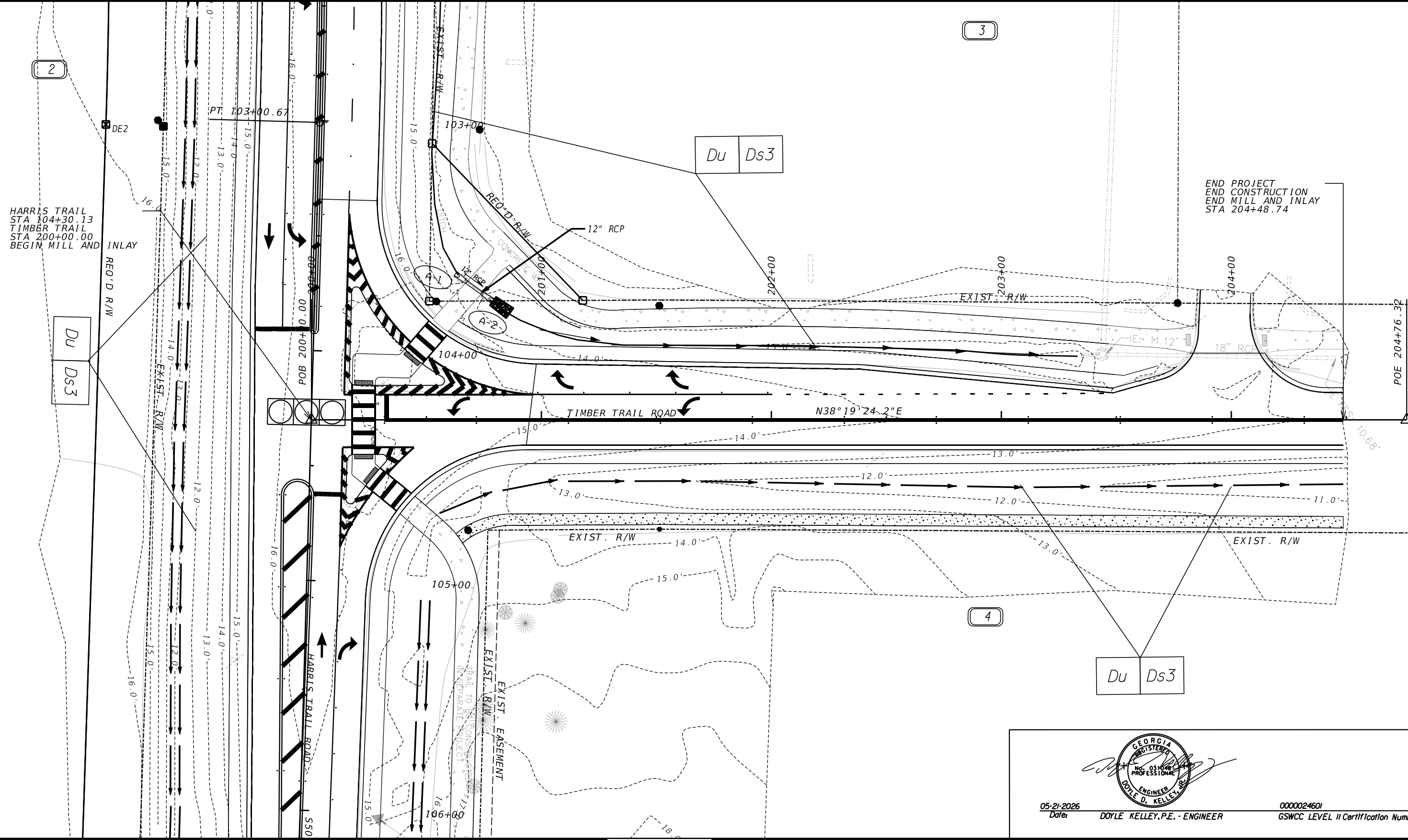
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BMP LOCATION DETAILS
 HARRIS TRAIL ROAD AND
 TIMBER TRAIL ROAD SIGNAL
 FINAL PHASE

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BACKCHECKED:	DATE:	54-0007
CORRECTED:	DATE:	
VERIFIED:	DATE:	



HARRIS TRAIL
STA 104+30.13
TIMBER TRAIL
STA 200+00.00
BEGIN MILL AND
INLAY

END PROJECT
END CONSTRUCTION
END MILL AND INLAY
STA 204+48.74

BID SET - NOT FOR CONSTRUCTION

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
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EXISTING LIMIT OF ACCESS & R/W	-----
REQ'D LIMIT OF ACCESS & R/W	-----
ORANGE BARRIER FENCE	-----
ESA - ENV. SENSITIVE AREA	-----



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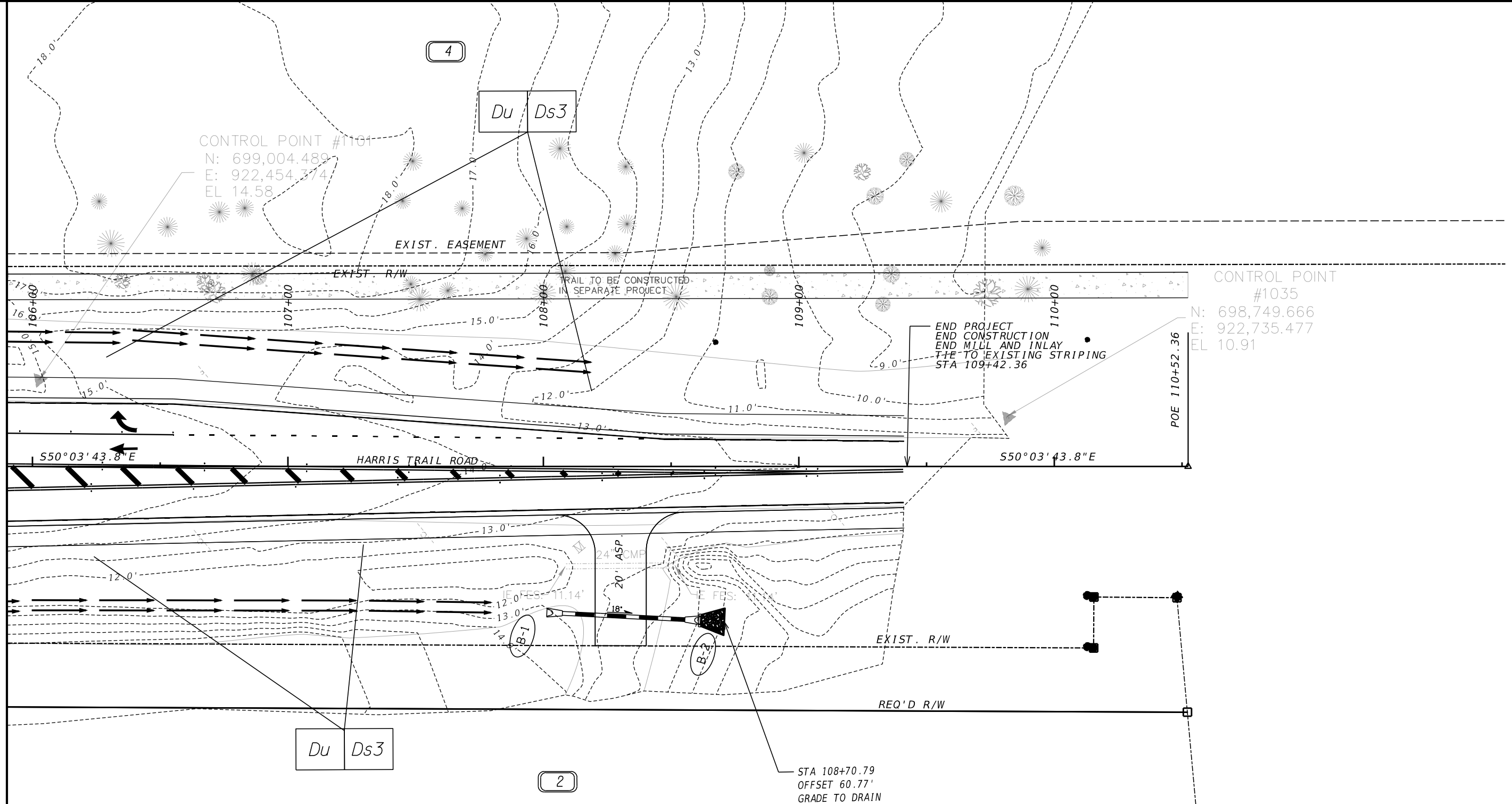
REVISION DATES	
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**BMP LOCATION DETAILS
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TIMBER TRAIL ROAD SIGNAL
FINAL PHASE**


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DOYLE KELLEY, P.E. - ENGINEER
000024601 GSWCC LEVEL II Certification Number



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 05-21-2026
 Date: **DOYLE KELLEY, P.E. - ENGINEER**
 000024601
 GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	▨▨▨▨▨▨
EASEMENT FOR CONSTR OF SLOPES	▩▩▩▩▩▩
EASEMENT FOR CONSTR OF DRIVES	▣▣▣▣▣▣

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



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