



Purchasing Department
140 Stonewall Avenue West, Ste 204
Fayetteville, GA 30214
Phone: 770-305-5420
www.fayettecountyga.gov

November 20, 2020

Subject: Invitation to Bid #1894-B: Brogdon Road & New Hope Roundabout

Gentlemen/Ladies:

Fayette County, Georgia invites Georgia Department of Transportation (GDOT) prequalified contractors experienced with roadway construction and intersection improvements to submit a bid for a roundabout at the intersection of Brogdon Road and New Hope Road. You are invited to submit a bid in accordance with the information contained herein.

Please note that the county will be placing renewed emphasis on reviewing GDOT prequalifications of prime contractors and subcontracts. It will be important that you verify current status of the work classes that are required in the Invitation to Bid.

This project has a set duration for full road closure which is detailed on page 25 of the Invitation to Bid. Through traffic shall be maintained at all other times outside the set detour period.

Questions concerning this invitation to bid should be addressed to Natasha Duggan in writing via email to nduggan@fayettecountyga.gov or fax to (770) 719-5534. Questions will be accepted until 3:00 p.m., Tuesday, December 8, 2020.

Purchasing Department office hours are Monday through Friday 8:00 a.m. to 5:00 p.m. The office telephone number is (770) 305-5420.

Please return your response to the following address:

Fayette County Government
Purchasing Department
140 Stonewall Avenue West, Suite 204
Fayetteville, Georgia 30214

Bid Number: 1894-B
Bid Name: Brogdon Road & New Hope Roundabout

Your envelope *must* be sealed, and should show your company's name and address.

Bids will be received at the above address until 12:00 p.m., Thursday, December 17, 2020 in the Purchasing Department, Suite 204. For bids that you may drop off in person, there will be a large metal parcel drop box located outside the front door of the Purchasing Department, Suite 204, in the county complex at 140 Stonewall Avenue West, Fayetteville, Georgia. You must place your bid in the drop box no later than 12:00 p.m. on Thursday, December 17, 2020. Bids must be signed to be considered. Late bids cannot be considered. Faxed bids or emailed bids cannot be considered. A virtual bid opening will be held at 3:00 p.m. on that day.

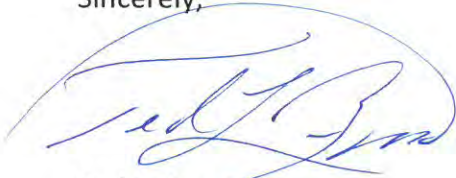
You may view the virtual bid opening here:

<https://livestream.com/accounts/4819394?query=fayette%20county&cat=account>

If you download this invitation to bid from the county's web site, it will be your responsibility to check the web site for any addenda that might be issued for this solicitation. The county cannot not be responsible for a vendor not receiving information provided in any addendum.

Thank you for participating in the solicitation process.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ted L. Burgess", enclosed within a large, loopy blue oval.

Ted L. Burgess
Director of Purchasing

INVITATION TO BID
FOR
BROGDON ROAD & NEW HOPE ROAD ROUNDABOUT

FAYETTE COUNTY, GEORGIA
ITB# 1894-B

100% GEORGIA CONGRESSIONAL DISTRICT #13
100% within Fayette County

Net Length of Roadway 0.18 Miles
Net Length of Bridges 0.00 Miles
Net Length of Project 0.18 Miles
Net Length of Exceptions 0.00 Miles
Gross Length of Project 0.18 Miles

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CHECKLIST OF DOCUMENTS TO RETURN

(Please return this checklist and the documents listed below with your submittal)

ITB #1894-B: BROGDON ROAD & NEW HOPE ROAD ROUNDABOUT

- Letter certifying three years of existence and no contract default p. 15 _____
- Company Information Form p. 16 _____
- GDOT Prequalification Contractors & Registered Subcontractors Table p. 17 _____
- Contractor Experience Form pgs. 18-19 _____
- List of Exceptions, if any p. 20 _____
- Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1) p. 21 _____
- Bid Pricing Sheet* pgs. 27-30 _____
- Bid Bond* _____
- Signed Addenda, if any are issued _____

*Failure to execute and return this document will render the bid non-responsive and not eligible for award consideration.

COMPANY NAME: _____

**Fayette County Board of Commissioners
Brogdon Road & New Hope Road Roundabout
ITB #1894-B**

2017 SPLOST PROJECT NO: 17TAM

INTRODUCTION

Fayette County is soliciting Bids from Georgia Department of Transportation (GDOT) prequalified Contractors experienced with roadway construction and intersection improvements. The location of this project is at the existing intersection of Brogdon Road and New Hope Road in north Fayette County, GA.

The existing intersection is a two-way stop control with stop signs posted on Brogdon Road. The project is for the construction of a roundabout and the scope includes, but is not limited to, roadway and roundabout construction, surveying, clearing and grubbing, earth work, excavation, erosion and sediment control, demolition of pavement, installation of pavement, traffic control, installation of curb & gutters, drainage improvements, temporary and permanent signage, and pavement markings.

In addition, the Contractor is responsible for performing water line work as shown in the plans. The water infrastructure will be owned and operated by Fayette County Water System. For all other utilities, the Contractor is responsible for coordinating relocations by the utility companies. The Contractor shall also be responsible for obtaining and complying with all applicable permits and regulations (federal, state, and local).

Fayette County has acquired all necessary fee-simple right-of-way and construction easements for this project. All work is to be performed within these areas, as shown on the project plans.

This project is fully funded through Fayette County's 2017 Special Purpose Local Options Sales Tax (SPLOST).

GENERAL TERMS AND CONDITIONS
ITB 1594-B: Brogdon Road and New Hope Road Roundabout

1. **Definitions:** The term “contractor” as used herein and elsewhere in these Terms and Conditions shall be used synonymously with the term “successful bidder.” The term “county” shall mean Fayette County, Georgia.
2. **Bid is Offer to Contract:** Each bid constitutes an offer to become legally bound to a contract with the county, incorporating the invitation to bid and the bidder’s bid. The binding offer includes compliance with all terms, conditions, special conditions, specifications, and requirements stated in the invitation to bid, except to the extent that a bidder takes written exception to such provisions. All such terms, conditions, special conditions, specifications, and requirements will form the basis of the contract. The bidder should take care to answer all questions and provide all requested information, and to note any exceptions in the bid submission. Failure to observe any of the instructions or conditions in this invitation to bid may result in rejection of the bid.
3. **Binding Offer:** Each bid shall constitute a firm offer that is binding for ninety (90) days from the date of the bid opening, unless the bidder takes exception to this provision in writing.
4. **Bidder’s Questions:** As appropriate, the county will post answers to questions and/or other information concerning the invitation to bid in the form of an addendum on the county’s website at www.fayettecountyga.gov. It is the responsibility of the prospective bidder to check the website for any addenda issued for this invitation to bid.
5. **References:** Include with your bid a list of three (3) transportation jobs within the last five (5) years that your company has done that are of the same or similar nature to the work described in this invitation to bid, on the Contractor Experience Form provided. Include all information as requested on the form.
6. **Bid Submission:** Submit your bid, along with any addenda issued by the county, in a sealed opaque envelope with the following information written on the outside of the envelope:
 - a. The bidder’s company name,
 - b. The bid number, which is #1894-B, and
 - c. The bid name, which is BROGDON ROAD & NEW HOPE ROAD ROUNDABOUT

Mail or deliver one (1) original bid, signed in ink by a company official authorized to make a legal and binding offer, and one (1) copy on a USB flash drive to:

Fayette County Government
Purchasing Department
140 Stonewall Avenue West, Suite 204
Fayetteville, GA 30214

Bid Number: 1849-B
Bid Name: Brogdon Road & New Hope Roundabout

You may submit bids in person, by U.S. mail, or by a commercial carrier. Do not submit bids by facsimile, e-mail, or other electronic means. Once submitted, all bids become the property of Fayette County.

7. **Bid Preparation Costs:** The bidder shall bear all costs associated with preparing the bid.
8. **Late Bids:** Bids not received by the time and date of the scheduled bid opening will not be considered, unless the delay is a result of action or inaction by the county.
9. **More than One Bid:** Do not submit alternate bids or options, unless requested or authorized by the county in the Invitation to Bid. If a responder submits more than one bid without being requested or authorized to do so, the county may disqualify the bids from that responder, at the county's option.
10. **Bid Corrections or Withdrawals:** The bidder may correct a mistake, or withdraw a bid, before the bid opening by sending written notification to the Director of Purchasing. Bids may be withdrawn after the bid opening only with written authorization from the Director of Purchasing.
11. **Defects or Irregularities in Bids:** The county reserves the right to waive any defect or irregularity in any bid received. In case of an error in extension of prices or totals in the bid, the unit prices shall govern.
12. **Prices Held Firm:** Prices quoted shall be firm for the period of the contract, unless otherwise specified in the bid. All prices for commodities, supplies, equipment, or other products shall be quoted FOB Destination, Fayette County or job site.
13. **Quantities are Estimates:** Quantities listed herein are estimates for the period specified. No guarantee to purchase the amounts shown is intended or implied. The county reserves the right to order larger or smaller quantities at the prices stated in the bid of the successful bidder.
14. **Brand Name:** If items in this invitation for bid have been identified, described or referenced by a brand name or trade name description, such identification is intended to be descriptive, but not restrictive and is to indicate the quality and characteristics of products that may be offered. Alternative products may be considered for award if clearly identified in the bid. Items offered must meet required specifications and must be of a quality which will adequately serve the use and purpose for which intended.
15. **Bidder Substitutions:** Bidders offering substitutions or deviations from specifications stated in the invitation to bid, shall list such substitutions or deviations on the "Exceptions to Specifications" sheet provided, or on a separate sheet to be submitted with the bid. The absence of such list shall indicate that the bidder has taken no exception to the specifications. The evaluation of bids and the determination as to equality and acceptability of products or services offered shall be the responsibility of the county.
16. **Non-Collusion:** By responding to this invitation to bid, the bidder represents that the bid is not made in connection with any competing bidder, supplier, or service provider submitting a separate response to this invitation to bid, and is in all respects fair and without collusion or fraud.
17. **Bid Evaluation:** Award will be made to the lowest responsive, responsible bidder, taking into consideration payment terms, vendor qualifications and experience, quality, references, any exceptions listed, and/or other factors deemed relevant in making the award. The county may make such investigation as it deems necessary to determine the ability of the bidder to perform, and the bidder shall furnish to the county all information and data for this purpose as the county may request. The county reserves the right to reject any bid item, any bid, or all bids, and to re-advertise for bids.

18. **Payment Terms and Discounts:** The County's standard payment terms are Net 30. Any deviation from standard payment terms must be specified in the resulting contract, and both parties must agree on such deviation. Cash discounts offered will be a consideration in awarding the bid, but only if they give the county at least 15 days from receipt of invoice to pay. For taking discounts, time will be computed from the date of invoice acceptance by the County, or the date a correct invoice is received, whichever is the later date. Payment is deemed made, for the purpose of earning the discount, on the date of the check.
19. **Trade Secrets – Confidentiality:** If any person or entity submits a bid or proposal that contains trade secrets, an affidavit shall be included with the bid or proposal. The affidavit shall declare the specific included information which constitutes trade secrets. Any trade secrets must be either (1) placed in a separate envelope, clearly identified and marked as such, or (2) at a minimum, marked in the affidavit or an attached document explaining exactly where such information is, and otherwise marked, highlighted, or made plainly visible. See O.C.G.A. § 50-18-72 (A)(34).
20. **Trade Secrets – Internal Use:** In submitting a bid, the bidder agrees that the county may reveal any trade secret materials contained in the bid to all county staff and officials involved in the selection process, and to any outside consultant or other third parties who may assist in the selection process. The bidder agrees to hold harmless the county and each of its officers, employees, and agents from all costs, damages, and expenses incurred in connection with refusing to disclose any material which the bidder has designated as a trade secret.
21. **Ethics – Disclosure of Relationships:** Before a proposed contract in excess of \$10,000.00 is recommended for award to the Board of Commissioners or the County Administrator, or before the County renews, extends, or otherwise modifies a contract after it has been awarded, the contractor must disclose certain relationships with any County Commissioner or County Official, or their spouse, mother, father, grandparent, brother, sister, son or daughter related by blood, adoption, or marriage (including in-laws). A relationship that must be reported exists if any of these individuals is a director, officer, partner, or employee, or has a substantial financial interest in the business, as described in Fayette County Ordinance Chapter 2, Article IV, Division 3 (Code of Ethics).

If such relationship exists between your company and any individual mentioned above, relevant information must be presented in the form of a written letter to the Director of Purchasing. You must include the letter with any bid, proposal, or price quote you submit to the Purchasing Department.

In the event that a contractor fails to comply with this requirement, the County will take action as appropriate to the situation, which may include actions up to and including rejection of the bid or offer, cancellation of the contract in question, or debarment or suspension from award of a County contract for a period of up to three years.

22. **Contract Execution & Notice to Proceed:** After the Board of Commissioners makes an award, all required documents are received by the county, and the contract is fully executed with signature of both parties, the county will issue a written Notice to Proceed. The county shall not be liable for payment of any work done or any costs incurred by any bidder prior to the county issuing the Notice to Proceed.

23. **Unavailability of Funds:** This contract will terminate immediately and absolutely at such time as appropriated and otherwise unobligated funds are no longer available to satisfy the obligations of the county under the contract.
24. **Insurance:** The successful bidder shall procure and maintain the following insurance, to be in effect throughout the term of the contract, in at least the amounts and limits as follows:
- a. **General Liability Insurance:** \$1,000,000 combined single limit per occurrence, including bodily and personal injury, destruction of property, and contractual liability.
 - b. **Automobile Liability Insurance:** \$1,000,000 combined single limit each occurrence, including bodily injury and property damage liability.
 - c. **Worker's Compensation & Employer's Liability Insurance:** Workers Compensation as required by Georgia statute.
 - d. **Builder's "All Risk" Insurance:** In the event the contractor is performing construction services under the contract, contractor shall procure and maintain "all-risk" builder's insurance, providing coverage for the work performed under the contract, and the materials, equipment or other items incorporated therein, while the same are located at the construction site, stored off-site, or at the place of manufacture. The policy limit shall be at least 100% of the value of the contract, including any additional costs which are normally insured under such policy.

Before a contract with the successful bidder is executed, the successful bidder shall provide Certificates of Insurance for all required coverage. The successful offeror can provide the Certificate of Insurance after award of the contract, but must be provided prior to execution of the contract document by both parties. The certificate shall list an additional insured as follows:

Fayette County, Georgia
140 Stonewall Avenue West
Fayetteville, GA 30214

25. **Bid Bond:** You must include a bid bond with your bid, equal to five percent (5%) of the total amount bid. Bid bonds shall be provided by a surety which appears on Georgia's list of approved sureties administered by the State Insurance Commissioner, or the U.S. Treasury's list of approved bond sureties (Circular 570).
26. **Performance and Payment Bonds:** Prior to execution of a contract, the successful bidder shall submit performance and payment bonds each equal to 100 percent of the contract value, provided by a surety which appears on Georgia's list of approved sureties administered by the State Insurance Commissioner, or the U.S. Treasury's list of approved bond sureties (Circular 570).
27. **Building Permits:** Work performed for the county requiring building permits by licensed contractors will not have permit fees assessed, although any re-inspection fees for disapproved inspections will be the responsibility of the contractor prior to final inspections and the Certificate of Occupancy or Certificate of Completion being issued.

28. **Unauthorized Performance:** The county will not compensate the contractor for work performed unless the work is authorized under the contract, as initially executed or as amended.
29. **Assignment of Contract:** Assignment of any contract resulting from this invitation to bid will not be authorized, except with express written authorization from the county.
30. **Indemnification:** The contractor shall indemnify and save the county and all its officers, agents and employees harmless from all suits, actions, or other claims of any character, name and description brought for or on account of any damages, losses, or expenses to the extent caused by or resulting from the negligence, recklessness, or intentionally wrongful conduct of the contractor or other persons employed or utilized by the contractor in the performance of the contract. The contractor shall pay any judgment with cost which may be obtained against the county growing out of such damages, losses, or expenses.
31. **Severability:** The invalidity of one or more of the phrases, sentences, clauses or sections contained in the contract shall not affect the validity of the remaining portion of the contract. If any provision of the contract is held to be unenforceable, then both parties shall be relieved of all obligations arising under such provision to the extent that the provision is unenforceable. In such case, the contract shall be deemed amended to the extent necessary to make it enforceable while preserving its intent.
32. **Delivery Failures:** If the contractor fails to deliver contracted goods or services within the time specified in the contract, or fails to replace rejected items in a timely manner, the county shall have authority to make open-market purchases of comparable goods or services. The county shall have the right to invoice the contractor for any excess expenses incurred, or deduct such amount from monies owed the contractor. Such purchases shall be deducted from contracted quantities.
33. **Substitution of Contracted Items:** The contractor shall be obligated to deliver products awarded in this contract in accordance with terms and conditions specified herein. If a contractor is unable to deliver the products under the contract, it shall be the contractor's responsibility to obtain prior approval of the ordering agency to deliver an acceptable substitute at the same price quoted in the contractor's original bid. In the event any contractor consistently needs to substitute or refuses to substitute products, the County reserves the right to terminate the contract or invoke the "Delivery Failures" clause stated herein.
34. **Inspection and Acceptance of Deliveries:** The county reserves the right to inspect all goods and products delivered. The county will decide whether to accept or reject items delivered. The inspection shall be conclusive except with respect to latent defects, fraud, or such gross mistakes as shall amount to fraud. Final inspection resulting in acceptance or rejection of the products will be made as soon as practicable, but failure to inspect shall not be construed as a waiver by the county to claim reimbursement or damages for such products which are later found to be in non-conformance with specifications. Should public necessity demand it, the county reserves the right to use or consume articles delivered which are substandard in quality, subject to an adjustment in price to be determined by the Purchasing Director.
35. **Termination for Cause:** The county may terminate the contract for cause by sending written notice to the contractor of the contractor's default in the performance of any term of this agreement. As appropriate, the county will compensate the contractor for completed performance, and for any partially completed performance as determined by the county to be adequately performed. Termination shall be without prejudice to any of the county's rights or remedies by law.

36. **Termination for Convenience:** The county may terminate the contract for its convenience at any time with 10 days' written notice to the contractor. In the event of termination for convenience, the county will pay the contractor for services performed. The county will compensate partially completed performance based upon a signed statement of completion submitted by the contractor, which shall itemize each element of performance completed.
37. **Force Majeure:** Neither party shall be deemed to be in breach of the contract to the extent that performance of its obligations is delayed, restricted, or prevented by reason of any act of God, natural disaster, act of government, or any other act or condition beyond the reasonable control of the party in question.
38. **Governing Law:** This agreement shall be governed in accordance with the laws of the State of Georgia. The parties agree to submit to the jurisdiction in Georgia, and further agree that any cause of action arising under this agreement shall be required to be brought in the appropriate venue in Fayette County, Georgia.
39. **Preconstruction Conference:** In the event that Fayette County holds a preconstruction conference for this project, the Contractor and subcontractors shall attend.

FAYETTE COUNTY PROJECT-SPECIFIC TERMS AND CONDITIONS
ITB #1894-B: Brogdon Road & New Hope Road Roundabout

- A. Reference and Incorporation of GDOT Specifications** – Unless noted otherwise in this Invitation to Bid (ITB), the Georgia Department of Transportation’s (GDOT’s) *Standard Specifications Construction of Transportation Systems*, most recent edition, shall dictate the work and contractual requirements for this project. The Bidder is responsible for being familiar with and understanding the requirements set forth therein. Fayette County is owner of the project and shall serve as the administrator of the Contract in lieu of “The Department.”
- B. Schedule** – Time is of the essence. The project shall be completed within **274 calendar days** of the Contractor receiving a Notice to Proceed from Fayette County. Contract time is measured on a calendar day basis and includes County Holidays and weekends.
- C. County Holidays** – The Contractor shall not work on a County Holiday unless written approval is provided by Fayette County at least three days prior to the Holiday. Upcoming County Holidays are:

11/11/2020	12/25/2020	7/5/2021	11/26/2021
11/26/2020	1/1/2021	9/6/2021	12/23/2021
11/27/2020	1/18/2021	11/11/2021	12/24/2021
12/24/2020	5/31/2021	11/25/2021	12/31/2021

- D. Prequalification of Bidders** – **The Prime Contractor shall be prequalified, at a minimum, in Work Class 310, 400, 441 or 550.** The Prime Contractor and/or subcontractors to the Prime, shall be prequalified with the Georgia Department of Transportation (GDOT) in the following work area classes:

Class	Description
150	Traffic Control
310	Graded Aggregate Construction
400	Hot Mix Asphaltic Concrete Construction
441	Miscellaneous Concrete
550	Storm Drain Pipe, Pipe-Arch Culverts, and Side Drain Pipe
653	Thermoplastic Traffic Stripe

In addition to the prequalification requirements, the Prime Contractor shall self-perform at least 30 percent of the contract, as determined by invoice amounts.

- E. Section 102 Bidding Requirements and Conditions** – This section of the GDOT Specifications are removed in their entirety from this ITB.
- F. Section 103 Award and Execution of Contract** – This section of the GDOT Specifications are removed in their entirety from this ITB.
- G. Section 105.05 Cooperation by Contractor** – The Contractor will be supplied with two hardcopy sets and one portable document file (PDF) copy of the approved Plans and Contract

assemblies including Special Provisions. The Contractor shall always keep one hard copy set on the project site.

- H. **Section 105.09 Authority and Duties of the Resident Engineer** – The Resident Engineer shall be designated by Fayette County.
- I. **Section 105.10 Duties of the Inspector** – Inspectors may be employed by Fayette County or the Georgia Department of Transportation.
- J. **Section 106.11 Field Laboratory** – A field laboratory is not required.
- K. **Contractor Staging** – No staging area is provided by Fayette County for the project beyond the acquired right of way and easements for the project. Contractor staging shall not interfere with traffic on County roads.
- L. **Permits and Licenses** – Permits and licenses of a temporary nature necessary for the prosecution of the work shall be secured and paid for by the Contractor unless otherwise stated in the Contract Documents.
- M. **Contractor Supervision and Work Coordination** – The Contractor shall supervise and direct the work. He/she shall be solely responsible for the means, methods, techniques, sequences and procedures of construction, including traffic control. The Contractor shall employ and maintain on-site a qualified supervisor or superintendent who will be designated in writing by the Contractor as the Contractor's site representative. The supervisor shall have full authority to act on behalf of the Contractor and all communications given to the supervisor shall be as binding as if given to the Contractor. The supervisor shall always be present on the site as required to perform adequate supervision and coordination of the work.
- N. **Workmanship Guarantee** – The Contractor shall warranty and guarantee all materials supplied, equipment furnished, and work performed to be free from defects (resulting from faulty materials supplied or workmanship) for a period of eighteen (18) months from the date of Substantial Completion, as defined by Fayette County

The Owner shall give notice of observed defects with reasonable promptness and the Contractor shall have 45 days to address the issue(s). If the Contractor fails to make such repairs, adjustments, or other work that may be made necessary by such defects, the Owner may do so and charge the Contractor the cost thereby incurred. If different guarantees or warranties are required in the technical specifications for specific items, then the more stringent (i.e., longer) apply.

- O. **Special Allowance** – Due to the nature of the project and the potential for unforeseen conditions, it is anticipated that some additional work or modification to the scope may be required. A \$96,000.00 allowance is to be included in the Base Bid, to be used to cover Claims (Section 105.13) or Extra Work (Section 109.05). The procedures for submitting such requests are documented in the referenced Sections. If approved, the amount of the Claim or Extra

Work will be deducted from the Allowance. Requests greater than the amount available in the Allowance category will require County approval. Any allowance remaining unused at the end of the project will be deducted from the Contract amount by a Supplemental Agreement.

BIDDER QUALIFICATIONS
ITB #1894-B: Brogdon Road & New Hope Road Roundabout

In addition to other requirements specified within the Bid Package, bidders shall meet the following minimum qualifications in order to be considered responsive and responsible. The bidder shall provide sufficient documentation to demonstrate these qualifications are satisfied. Minimum submittal requirements are indicated in italics.

1. Company contact information. Provide a completed "Company Information Form".
2. Identify the project team. The Prime Contractor and/or Subcontractors shall be GDOT prequalified in GDOT work class areas as defined elsewhere in these Fayette County Terms & Conditions. Provide a completed "GDOT Prequalification Contractors and Registered Subcontractors Table".
3. The Prime Contractor shall have been in business under the present company name for a minimum of three (3) years and shall not have been declared in default on any construction contract within that time. Provide a letter on company letterhead and signed by the President/CEO certifying this information.
4. The Contractor and/or the designated Subcontractors shall have, within the past five years, successfully completed at least three transportation projects that include roundabout construction with signing and pavement markings, or similar roadwork. Provide a completed "Contractor Experience Form" demonstrating the requested experience.

COMPANY INFORMATION
ITB #1894-B: Brogdon Road & New Hope Road Roundabout

COMPANY

Company Name: _____

Physical Address: _____

Mailing Address (if different): _____

AUTHORIZED REPRESENTATIVE

Signature: _____

Printed or Typed Name: _____

Title: _____

Email Address: _____

Phone Number: _____ Fax Number: _____

PROJECT CONTACT PERSON

Name: _____

Title: _____

Office Number: _____ Cell Number: _____

Email Address: _____

**GEORGIA DEPARTMENT OF TRANSPORTATION (GDOT)
 PREQUALIFICATION CONTRACTORS AND SUBCONTRACTORS TABLE
 ITB #1894-B: Brogdon Road & New Hope Road Roundabout**

WORK CLASS	DESCRIPTION	GDOT VENDOR NAME	GDOT VENDOR ID
150	Traffic Control		
310	Graded Aggregate Construction		
400	Hot Mix Asphaltic Concrete Construction		
441	Miscellaneous Concrete		
550	Storm Drain Pipe, Pipe-Arch Culverts & Side Drain Pipe		
653	Thermoplastic Traffic Stripe		

The Prime Contractor shall be Prequalified, at a minimum, in Work Class 310, 400, 441 or 550, and self-perform at least 30 percent of the contract, as determined by invoice amounts.

Subcontractors may be used to satisfy the other Work Classes. List the subcontractors, as known at the time of bid, and their work class qualification or registration.

Prior to issuing the Notice to Proceed, the Prime Contractor shall provide to Fayette County, for review and approval, a list of all subcontractors to be used on the project. Include documentation of their status as a prequalified contractor or registered subcontractor for each of the required work area classes that are not satisfied by the Prime.

List below any other subcontractors, by name and address, which may be used on the project for work in areas beyond those identified above.

GDOT Form DOT 485 shall be used to request subcontractor approval prior to the NTP and to request a change to a subcontractor over the course of the project, if needed.

CONTRACTOR EXPERIENCE FORM
ITB #1894-B: Brogdon Road & New Hope Road Roundabout

Contractor Experience Project 1

Project Name	
Project Location	
Owner Name	
Owner Telephone & Email	
Date of Award	
Date of Completion	
Contract Amount (\$)	
Project Description	

Contractor Experience Project 2

Project Name	
Project Location	
Owner Name	
Owner Telephone & Email	
Date of Award	
Date of Completion	
Contract Amount (\$)	
Project Description	

CONTRACTOR EXPERIENCE FORM– continued
ITB #1894-B: Brogdon Road & New Hope Road Roundabout

Contractor Experience Project 3

Project Name	
Project Location	
Owner Name	
Owner Telephone & Email	
Date of Award	
Date of Completion	
Contract Amount (\$)	
Project Description	

EXCEPTIONS TO SPECIFICATIONS
ITB #1894-B: Brogdon Road & New Hope Road Roundabout

Please list below any exceptions or clarifications to the specifications of this bid. Explain any exceptions in full.

COMPANY NAME: _____

Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1)

The undersigned contractor ("Contractor") executes this Affidavit to comply with O.C.G.A § 13-10-91 related to any contract to which Contractor is a party that is subject to O.C.G.A. § 13-10-91 and hereby verifies its compliance with O.C.G.A. § 13-10-91, attesting as follows:

- a) The Contractor has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program;
- b) The Contractor will continue to use the federal work authorization program throughout the contract period, including any renewal or extension thereof;
- c) The Contractor will notify the public employer in the event the Contractor ceases to utilize the federal work authorization program during the contract period, including renewals or extensions thereof;
- d) The Contractor understands that ceasing to utilize the federal work authorization program constitutes a material breach of Contract;
- e) The Contractor will contract for the performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the Contractor with the information required by O.C.G.A. § 13-10-91(a), (b), and (c);
- f) The Contractor acknowledges and agrees that this Affidavit shall be incorporated into any contract(s) subject to the provisions of O.C.G.A. § 13-10- 91 for the project listed below to which Contractor is a party after the date hereof without further action or consent by Contractor; and
- g) Contractor acknowledges its responsibility to submit copies of any affidavits, drivers' licenses, and identification cards required pursuant to O.C.G.A. § 13-10-91 to the public employer within five business days of receipt.

Federal Work Authorization User Identification Number

Date of Authorization

Name of Contractor

#1894-B: Brogdon Road & New Hope
Road Roundabout
Name of Project

Fayette County, Georgia

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, _____, 20____ in _____ (city), _____ (state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____, 20_____.

NOTARY PUBLIC
My Commission Expires: _____

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
SPECIAL PROVISION**

**BROGDEN ROAD AND NEW HOPE ROAD ROUNDABOUT
FAYETTE COUNTY
2017 SPLOST PROJECT: 17TAM**

SECTION 150 – TRAFFIC CONTROL

150.1 General Description

This section as supplemented by the Plans, Specifications, and Manual on Uniform Traffic Control Devices (MUTCD) shall be considered part of the Temporary Traffic Control (TTC) Plan. Activities shall consist of furnishing, installing, maintaining, and removing necessary traffic signs, pedestrian signs, barricades, lights, signals, cones, pavement markings and other traffic control devices and shall include flagging and other means for guidance and protection of vehicular and pedestrian traffic through the Work Zone. This Work shall include both maintaining existing devices and installing additional devices as necessary in construction work zones.

Traffic control devices referred to in this section are devices specified in the Contract and the MUTCD and are used by a Contractor to regulate, warn, or guide traffic through a Project under construction. When any provisions of this Specification or the Plans do not meet the minimum requirements of the MUTCD, the current edition of the MUTCD shall control.

150.2 Related References

A. Standard Specifications

Section 104—Scope of Work
Section 107—Legal Regulations and Responsibility to the Public
Section 108—Prosecution and Progress
Section 150—Traffic Control
Section 632—Portable Changeable Message Signs

B. Referenced Documents

[Manual on Uniform Traffic Control Devices \(MUTCD\)](#)
Official Code of Georgia Annotated (OCGA): 40-6-188

150.3 Submittals

A. Contractor Responsibilities

The Contractor will select the appropriate traffic control means and methods for the work in accordance with Part 6 of the current edition of the Manual of Uniform Traffic Control

Devices and the Georgia Department of Transportation Standards, Specifications, and Special Provisions (Section 150). Variation(s) from these documents or special conditions or operations will require approval of the Engineer.

The Contractor shall submit a detailed staging and traffic control plan a minimum of two weeks prior to the date which implementation is planned for performing the Work, including but not limited to all traffic shifts, detours, paces, lane closures or other activities that disrupt traffic flow. A Plan of operation and sequence of Work, along with any appropriate Provisions for traffic control, shall be submitted to the Engineer for approval prior to beginning any Work.

The Contractor will be responsible for furnishing, installing, maintaining, and removing appropriate Advance Warning and Construction Warning signs as well as other signage that may be necessary in advance of and within the project limits for the duration of the project and for any temporary detours. The Contractor will be responsible for providing, installing and maintaining all other necessary signs, traffic control devices, materials, equipment and personnel, including certified flagmen, as necessary to complete the work.

NOTE: The Contractor's primary responsibility is for safe passage of pedestrian and vehicular traffic through the Work zone with minimal confusion and traffic flow disruption.

At a minimum of 14 days before a major traffic shift on the Project, the Contractor shall submit additional traffic control details, as outlined in the Special Provisions, to the Engineer.

150.4 Materials

A. Delivery, Storage, and Handling

Store and protect removed streetlights, signs, or sign supports as required by the Contract provisions or as directed by the Engineer.

150.5 Construction Requirements

A. Personnel

The Contractor shall designate a qualified Worksite Traffic Control Supervisor (WTCS) who shall be responsible for administering the traffic control Plan according to the Contract.

1. Worksite Traffic Control Supervisor (WTCS):

Be responsible for selecting, installing, and maintaining all traffic control devices in accordance with the Plans, Specifications, Special Provisions and the [MUTCD](#).

- a) Have appropriate training in safe traffic control practices in accordance with Part VI of the [MUTCD](#). Ensure that all traffic control devices are effective and comply with the Traffic Control Plan.

- b) Exercise full authority to act on behalf of the Contractor in administering the Traffic Control Plan.
- c) Be available on a 24-hour basis and be able to respond effectively to an emergency notification.
- d) Supervise the installation of the traffic control devices before construction.
- e) Review any modifications to the Traffic Control Plan before submitting them to the Engineer.
- f) Inspect the traffic control devices on a regular basis to ensure that they meet the requirements of the Traffic Control Plan.
- g) Monitor the Work to ensure that all potential hazards are kept clear of the traffic and that dust, mud, and debris do not interfere with normal traffic operations or adjacent property.
- h) Ensure that the WTCS is certified when working on limited access highways.

NOTE: No Work shall begin on any phase of the Project unless the appropriate traffic control devices have been placed according to the Contract requirements.

2. Flagger

- Flaggers shall be provided as required to handle traffic, as specified in the Plans or Special Provisions, and as required by the Engineer.
- All flaggers shall meet the requirements of the [MUTCD](#) and shall have received training and a certificate upon completion of the training from a Department approved training program.
- Failure to provide a certified flagger as required will be reason for the Engineer to suspend work involving the flagger(s) until the Contractor provides certified flagger(s).
- Flaggers must have proof of certification and valid identification available when performing flagger duties.
- Flaggers shall wear high-visibility clothing in compliance with [MUTCD](#).
- Flaggers shall use a Stop/Slow paddle meeting the requirements of the [MUTCD](#) for controlling traffic.

- Flags used shall meet the minimum requirement of the [MUTCD](#).

B. Equipment

1. Traffic Control Devices

All traffic control devices used during the construction of a project shall meet the Standards utilized in the [MUTCD](#), and shall comply with the requirements of these Specifications, Project Plans, and Special Provisions.

150.6 Construction

A. Inspection

The Engineer will periodically inspect the traffic control devices and determine their effectiveness in the Work zone. The frequency of these inspections will depend on the type and volume of Work.

During an inspection, observe traffic movement while the devices are operating. If the inspection uncovers concerns, the Contractor shall provide solutions to the Engineer for improved traffic control.

B. Work Zone Restrictions

The Engineer may restrict construction operations if the Work would seriously disrupt traffic flow when unusual traffic conditions exist, such as during holidays or bad weather. All lane closures shall be subject to the approval of the Project Engineer. Each lane closure request shall be made at least 48-hours in advance of the time the lane closure is to be implemented. Lane closures will not be allowed to remain unless being utilized continuously for the purpose for which they were set up. Outside the 49-day detour period (described below), no lane closures are allowed between the hours of 6:00 am to 8:30 am and 4:00 pm to 7:00 pm without prior approval by the Engineer.

Full road closure of all four legs of the intersection shall be limited to a period of 49 consecutive, calendar days (seven weeks). The full road closure must be supported with an approved Road Closure Permit, detour plan, and three weeks advance notice from the contractor. **Through traffic shall be maintained at all other times outside the 49-day detour period.** The start time for road closure and detour shall be set by the Contractor.

C. Portable Changeable Message Signs

When using a Portable Changeable Message Sign (PCMS) on a Project, place the PCMS ahead of the construction activity or road condition to prepare the motorist. Do not place the PCMS in permanent location miles in advance of the Work zone.

The PCMS message should be concise and meaningful. Display messages no more than two flashes as described below: (One flash is desirable, motorists may not see nor comprehend longer messages)

- The first flash should direct the motorist to take a specific action, such as MERGE/RIGHT, KEEP/RIGHT, or REDUCE/SPEED.
- The second flash, if necessary, should inform the motorist of road conditions, such as LEFT/LANE/CLOSED, LANE/NARROWS/AHEAD, SHOULDER/DROP/OFF, WATER/IN/ROAD or TRUCKS/IN AND OUT.

Do not use confusing or frightening messages such as USE CAUTION, HAZARD AHEAD, or DANGER. When the PCMS is not needed, turn off the sign and remove it from the roadside.

150.7 Measurement and Payment

When listed as a pay item in the Proposal, payment will be made at the lump sum price bid, which will include all traffic control not paid for separately, and will be paid as follows:

When the first Construction Report is submitted, a payment of twenty-five percent (25%) of the lump sum price will be made. For each progress payment thereafter, the total of the Project percent complete shown on the last pay statement plus twenty-five percent (25%) will be paid (less previous payments), not to exceed one hundred percent (100%).

Fayette County
ITB# 1894-B

Fayette County
Bid Price Sheet
Brogdon Road & New Hope Road Roundabout

Fayette County
Project Number
17TAM

PAY ITEM NO.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
	TRAFFIC CONTROL				
150-1000	TRAFFIC CONTROL	LS	1.00		
632-0003	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	EA	4.00		
			TRAFFIC CONTROL SUBTOTAL		
	GRADING COMPLETE				
210-0100	GRADING COMPLETE	LS	1.00		
			GRADING COMPLETE SUBTOTAL		
	RIGHT OF WAY MARKERS				
634-1200	RIGHT OF WAY MARKERS	EA	25.00		
			RIGHT OF WAY MARKERS SUBTOTAL		
	REMOVE FENCE				
610-0300	REMOVE FENCE	LF	420.00		
			REMOVE FENCE SUBTOTAL		
	ROADWAY				
310-5100	GR AGGR BASE CRS, 10 INCH, INCL MATL	SY	6421.00		
402-3121	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	1002.00		
402-3130	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	430.00		
402-3190	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	579.00		
413-0750	TACK COAT	GL	1060.00		
430-0200	PLAIN PC CONC PVMT, CL 1 CONC, 10 INCH THK	SY	578.00		
441-0014	DRIVEWAY CONCRETE, 4 IN TK	SY	1245.00		
441-0754	CONCRETE MEDIAN, 7 1/2 IN	SY	395.00		

Fayette County
ITB# 1894-B

Fayette County
Bid Price Sheet
Brogdon Road & New Hope Road Roundabout

Fayette County
Project Number
17TAM

441-4020	CONC VALLEY GUTTER, 6 IN	SY	45.00		
441-5008	CONCRETE HEADER CURB, 6 IN, TP 7	LF	561.00		
441-5025	CONCRETE HEADER CURB, 4 IN, TP 9	LF	300.00		
441-6222	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	LF	1201.00		
441-6743	CONC CURB & GUTTER, 8 IN X 30 IN, TP 9	LF	408.00		
				ROADWAY SUBTOTAL	
	EROSION CONTROL				
163-0232	TEMPORARY GRASSING	AC	3.00		
163-0240	MULCH	TN	33.00		
163-0300	CONSTRUCT AND REMOVE CONSTRUCTION EXITS	EA	4.00		
163-0503	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	EA	16.00		
163-0527	CONSTRUCT AND REMOVE RIP RAP CHECK DAMS, STONE PLAIN RIP RAP/SAND BAGS	EA	66.00		
163-0550	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	14.00		
165-0030	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	112.00		
165-0041	MAINTENANCE OF CHECK DAMS - ALL TYPES	LF	330.00		
165-0087	MAINTENANCE OF SILT CONTROL GATE, TP 3	EA	16.00		
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	EA	4.00		
165-0105	MAINTENANCE OF INLET SEDIMENT TRAP	EA	14.00		
167-1000	WATER QUALITY MONITORING AND SAMPLING	EA	3.00		
167-1500	WATER QUALITY INSPECTIONS	MO	9.00		
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	112.00		
700-6910	PERMANENT GRASSING	AC	2.00		
700-7000	AGRICULTURAL LIME	TN	6.00		
700-8000	FERTILIZER MIXED GRADE	TN	2.50		
700-8100	FERTILIZER NITROGEN CONTENT	LB	100.00		
700-9300	SOD	SY	325.00		
603-2180	STN DUMPED RIP RAP, TP 3, 12 IN	SY	36.00		

Fayette County
ITB# 1894-B

Fayette County
Bid Price Sheet
Brogdon Road & New Hope Road Roundabout

Fayette County
Project Number
17TAM

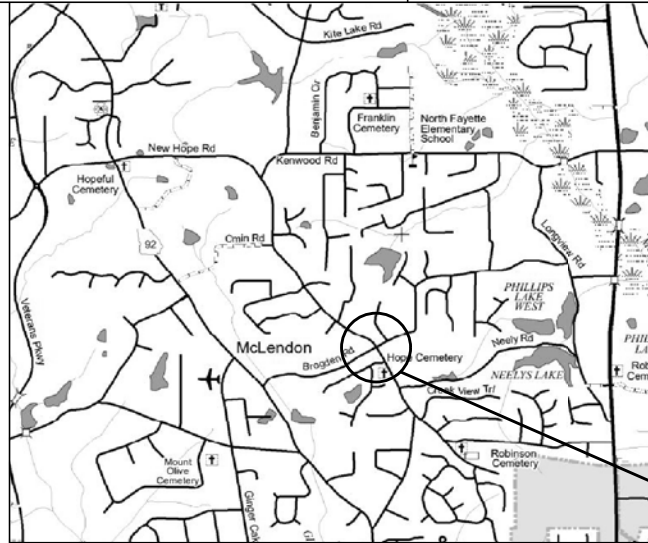
603-7000	PLASTIC FILTER FABRIC	SY	149.00		
				EROSION CONTROL SUBTOTAL	
	SIGNING AND PAVEMENT MARKING				
636-1033	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	SF	60.00		
636-1036	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11	SF	94.00		
636-2070	GALV STEEL POSTS, TP 7	LF	220.00		
636-2080	GALV STEEL POSTS, TP 8	LF	112.00		
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	2362.00		
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	1060.00		
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	134.00		
653-4830	THERMOPLASTIC SKIP TRAF STRIPE, 18 IN, WHITE	GLF	135.00		
653-6004	THERMOPLASTIC TRAF STRIPING, WHITE	SY	56.00		
653-6006	THERMOPLASTIC TRAF STRIPING, YELLOW	SY	250.00		
654-1001	RAISED PVMT MARKERS TP 1	EA	62.00		
				SIGNING AND PAVEMENT MARKING SUBTOTAL	
	DRAINAGE				
441-0303	CONC SPILLWAY, TP 3	EA	5.00		
550-1180	STORM DRAIN PIPE, 18 IN, H 1-10	LF	346.00		
550-2180	SIDE DRAIN PIPE, 18 IN, H 1-10	LF	140.00		
550-3418	SAFETY END SECTION 18 IN, SIDE DRAIN, 4:1 SLOPE	EA	11.00		
550-4218	FLARED END SECTION 18 IN, STORM DRAIN	EA	8.00		
668-1100	CATCH BASIN, GP 1	EA	7.00		
668-2100	DROP INLET, GP 1	EA	2.00		
668-4300	STORM SEWER MANHOLE, TP 1	EA	2.00		
				DRAINAGE SUBTOTAL	

Fayette County
ITB# 1894-B

Fayette County
Bid Price Sheet
Brogdon Road & New Hope Road Roundabout

Fayette County
Project Number
17TAM

WATER LINE					
500-3200	CLASS B CONCRETE - THRUST BLOCK	CY	3.00		
610-1840	REMOVE ASBESTOS CEMENT PIPE	LF	240.00		
670-1080	WATER MAIN, 8 IN	LF	507.00		
660-1925	GATE VALVE, 8 IN	EA	4.00		
670-3190	TAPPING SLEEVE & VALVE ASSEMBLY, 24 IN X 10 IN	EA	2.00		
670-9255	STEEL CASING, 16 IN	LF	40.00		
999-9900	MISC FITTINGS	LB	1000.00		
999-9901	CONNECT TO EXISTING 8" WATERLINE	EA	4.00		
				WATER LINE SUBTOTAL	
	ALLOWANCE				
	ALLOWANCE	LS	1.00	\$96,000.00	\$96,000.00
				ALLOWANCE SUBTOTAL	
TOTAL BID PRICE BROGDON & NEW HOPE ROAD ROUNDABOUT = \$					



LOCATION SKETCH

PROJECT LOCATION

FAYETTE COUNTY BOARD OF COMMISSIONERS

PLAN AND PROFILE OF PROPOSED BROGDON ROAD AND NEW HOPE ROAD INTERSECTION

FAYETTE COUNTY 2017 SPLOST PROJECT ID: 177AM

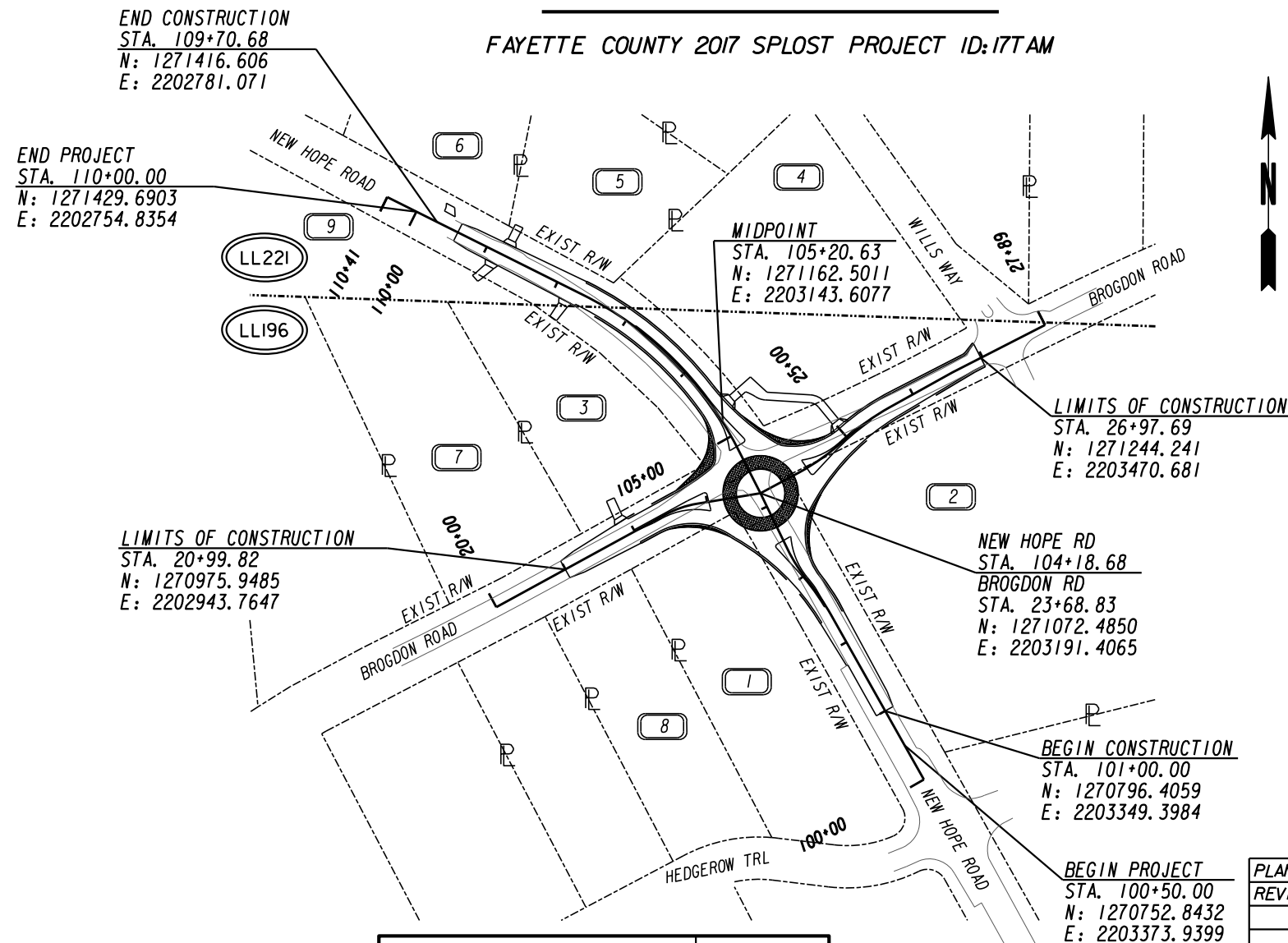
DESIGN DATA
 TRAFFIC A.D.T.: 6425 (2018)
 TRAFFIC A.D.T.: 6600 (2020)
 TRAFFIC A.D.T.: 7950 (2040)
 TRAFFIC D.H.V.: 760 (K-Factor 11.5%)
 DIRECTIONAL DIST: 50%
 % TRUCKS: 3.6%
 24 HR. TRUCKS %: 3.6% (3.3% S.U./0.3% COMB.)
 SPEED DESIGN: 35 MPH (BROGDON RD)
 45 MPH (NEW HOPE RD)
 MAX S.E.: 4%
 DESIGN K VALUE SAG: 49 (35 MPH)
 79 (45 MPH)
 CREST: 29 (35 MPH)
 61 (45 MPH)
 INSCRIBED DIA.: 130 FT.
 ENTRY RADIUS: 90 FT.
 EXIT RADIUS: 300 & 315 FT.

GDOT FUNCTIONAL CLASSIFICATION:
 NEW HOPE ROAD (MAJOR COLLECTOR)
 BROGDON ROAD (LOCAL ROAD)
 THIS PROJECT IS 100% IN
 FAYETTE COUNTY AND IS
 100% IN CONG.DIST.NO.13
 & COMM.DIST.NO.4
 PROJECT DESIGNATION:
 FUNDED 2017 SPLOST,177AM

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

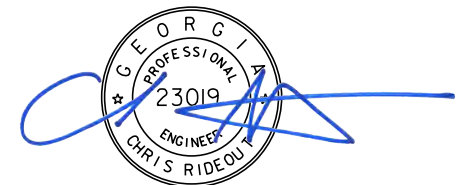


THE DATA TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY
 INDICATED THEREBY, WHETHER BY DRAWINGS OR NOTES, OR IN ANY OTHER MANNER, ARE BASED UPON
 FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE
 SAME ARE SHOWN AS INFORMATION ONLY, ARE NOT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



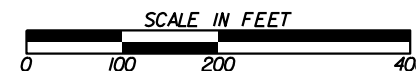
200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
 MARIETTA, GA 30062
 PHONE: (770) 971-5407 FAX: (770) 971-0620

PLANS PREPARED BY
 CROY ENGINEERING
 UNDER THE SUPERVISION OF



CHRIS RIDEOUT, P.E.

LENGTH OF PROJECT	GDOT COUNTY No.13
	MILES
NET LENGTH OF ROADWAY	0.18
NET LENGTH OF BRIDGES	0.00
NET LENGTH OF PROJECT	0.18
NET LENGTH OF EXCEPTIONS	0.00
GROSS LENGTH OF PROJECT	0.18



PLANS COMPLETED	11-06-2020
REVISIONS	

DRAWING NO.	DESCRIPTION	
01-0001	COVER	
2-0001	INDEX	
3-0001	REVISION SUMMARY	
4-0001	GENERAL NOTES	
5-0001 TO 5-0005	TYPICAL SECTIONS	
6-0001 TO 6-0002	SUMMARY OF QUANTITIES	
11-0001	CONSTRUCTION LAYOUT	
13-0001 TO 13-0005	CONSTRUCTION PLAN SHEETS	
15-0001	MAINLINE PROFILE	
16-0001 TO 16-0002	CROSSROADS PROFILE SHEETS	
17-0001	DRIVEWAY PROFILE	
18-0001 TO 18-0002	SPECIAL GRADING	
21-0001	DRAINAGE AREA MAP	
22-0001 TO 22-0003	DRAINAGE PROFILES	
23-0001 TO 23-0007	CROSS SECTIONS	
24-0000 TO 24-0005	UTILITY PLANS	
26-0001 TO 26-0006	SIGNING AND MARKING PLANS	
50-0001	EROSION COVER	
51-0001 TO 51-0004	ESPCP GENERAL NOTES	
52-0001 TO 52-0007	EROSION CONTROL LEGEND	
53-0001	EROSION CONTROL DRAINAGE AREA MAP	
54-0001 TO 54-0015	BMP LOCATION DETAILS	
55-0001	WATERSHED MAP SITE MONITORING PLAN	
56-0001 TO 56-0002	EROSION CONTROL STANDARDS & DETAILS	
60-0001	RIGHT OF WAY COVER	
60-0002 TO 60-0008	RIGHT OF WAY MAP	
GEORGIA CONSTRUCTION DETAILS		
A-1	DRIVEWAYS WITH TAPERED ENTRANCES, CONCRETE VALLEY GUTTERS	07/2011
A-2	CONCRETE VALLEY GUTTER AT STREET INTERSECTION 6' OR 8' CONCRETE VALLEY GUTTER	07/2011
D-7	BERM DITCHES, SIDE DITCHES, SURFACE DITCHES	07/1980
D-55A	RIPRAP OUTLET PROTECTION (SHEET 1 OF 2)	04/2016
D-55B	RIPRAP OUTLET PROTECTION (SHEET 2 OF 2)	04/2016
P-7	PAVEMENT EDGE TREATMENT ASPHALT AND CONCRETE PAVEMENT	11/2011
RA-1	ROUNDBOUT LANDSCAPING DETAILS	10/2011
RA-2	ROUNDBOUT TYPICAL SECTION ASPHALTIC CONCRETE CIRCULATORY ROADWAY	01/2012
T-3A	TYPE 7, 8, & 9 DETAILS OF SQUARE TUBE POST INSTALLATION	07/2002
T-4	DETAILS OF CARDINAL DIRECTION SIGNS	01/2000
T-5A	DETAILS OF REGULATORY SIGNS (SHEET 1 OF 2)	01/2003
T-5B	DETAILS OF REGULATORY SIGNS (SHEET 2 OF 2)	01/2000
T-11A	PAVEMENT MARKING PLACEMENT ON NON-LIMITED ACCESS RDWY	09/2016
T-12A	PAVEMENT MARKING ARROW LOCATION	01/2000
T-12B	PAVEMENT MARKING ARROW	04/2000
T-13A	PAVEMENT MARKING WORDS SHEET 1 OF 2	09/2016
T-14	PAVEMENT MARKING HATCHING	11/2008
T-15A	RAISED PAVEMENT MARKER LOCATION NON-LIMITED ACCESS RDWY	09/2016
T-15C	RAISED PAVEMENT MARKERS	09/2011
GEORGIA STANDARDS		
1011A	BRICK MANHOLES	10/1981
1011AP	PRECAST REINFORCED CONCRETE MANHOLE	06/1975
1019A	DROP INLETS	08/1999
1019AP	PRECAST DROP INLETS	08/1999
1030D1	CONCRETE AND METAL PIPE CULVERTS (SHEET 1 OF 3)	09/2001
1030D2	CONCRETE AND METAL PIPE CULVERTS (SHEET 2 OF 3)	09/2001

DRAWING NO.	DESCRIPTION	
1030D3	CONCRETE AND METAL PIPE CULVERTS (SHEET 3 OF 3)	09/2001
1033D	CATCH BASINS (FOR USE WITH 6' OR 8' HT. CURB AND GUTTER)	08/1982
1033DP	PRECAST CATCH BASINS (FOR USE WITH 6' OR 8' PRECAST HT. CURB AND GUTTER)	09/1982
1033G	CATCH BASINS (FOR USE WITH 6' MOUNTABLE CURB AND GUTTER)	12/1985
1033GP	PRECAST CATCH BASINS (FOR USE WITH 6' PRECAST MOUNTABLE CURB AND GUTTER)	12/1985
1034D	CATCH BASINS (FOR USE WITH 6' OR 8' HT. CURB AND GUTTER IN SAGS OR LOW POINTS)	08/1982
1034DP	PRECAST CATCH BASINS (FOR USE WITH 6' OR 8' PRECAST HT. CURB AND GUTTER IN SAGS OR LOW POINTS)	09/1982
1120	FLARED END SECTION FOR PIPES	06/2006
9003	FEDERAL AID AND STATE PROJECT MARKERS, RIGHT OF WAY MARKER, COUNTY LINE MARKER	04/2006
9013	CONCRETE SPILLWAYS (TYPICAL USE ALONG ROADWAY AT END OF CURB)	02/1981
9032B	CONCRETE CURB AND GUTTER, CONCRETE CURBS, CONCRETE MEDIANS	11/2011
9031S	MEDIAN DROP INLET (PRECAST OR BUILT-IN-PLACE) AND CONCRETE APRON	04/1996
9100	TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISC. DETAILS	03/2006
9106	TRAFFIC CONTROL DETAIL FOR LANE CLOSURES ON SIX-LANE DIVIDED HIGHWAY	09/2007
9107	TRAFFIC CONTROL DETAIL FOR LANE CLOSURES ON MULTI-LANE UNDIVIDED HIGHWAY	03/2006
1122-1	SAFETY END SECTION (METAL) (FOR SIDE DRAIN PIPE-OR STORM DRAIN PIPE PARALLEL TO MAINLINE) (SHEET 1 OF 3)	01/2005
1122-2	SAFETY END SECTION (METAL) (FOR SIDE DRAIN PIPE-OR STORM DRAIN PIPE PARALLEL TO MAINLINE) (SHEET 2 OF 3)	01/2005
1122-3	SAFETY END SECTION (CONCRETE)(FOR SIDE DRAIN PIPE OR STORM DRAIN PIPE PATALLEL TO MAINLINE) (SHEET 3 OF 3)	06/2006
GEORGIA EROSION CONTROL DETAILS		
D-20	SILT CONTROL GATES FOR STRUCTURES TP-1, 2, 3.	04/2016
D-24A	TEMPORARY SILT FENCE (SHEET 1 OF 4)	01/2011
D-24B	TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER (SHEET 2 OF 4)	01/2011
D-24C	TEMPORARY SILT FENCE J-HOOKS, INLET SEDIMENT TRAPS (SHEET 3 OF 4)	01/2011
D-24D	TEMPORARY SILT FENCE FABRIC CHECK DAM (SHEET 4 OF 4)	07/2015
D-41	CONSTRUCTION EXIT	04/2018
D-42	INLET SEDIMENT TRAPS	05/2018
D-56	STONE RIPRAP AND SANDBAG TEMPORARY CHECK DAMS	11/2018
(SEE DRAWING SECTION 52 FOR EROSION CONTROL PLANS LEGEND AND UNIFORM CODE DETAILS EC-L1, EC-L2, EC-L3, EC-L4, EC-L5, EC-L6 AND EC-L7)		
GEORGIA STANDARDS AND CONSTRUCTION DETAILS REQUIRED FOR THIS PROJECT ARE LISTED IN THE INDEX WITH THE LATEST REVISION DATES BUT ARE NOT INCLUDED AS PART OF THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE STANDARDS AND CONSTRUCTION DETAILS SHOWN IN THE INDEX AND MAINTAINING ON THE PROJECT SITE. FULL SIZE PRINTS MAY BE PURCHASED BY THE CONTRACTOR FROM THE GEORGIA DEPARTMENT OF TRANSPORTATION, OR DOWNLOADED FROM THE GEORGIA DEPARTMENT OF TRANSPORTATION WEBSITE AT: http://mydocs.dot.ga.gov/info/gdotpubs/ConstructionStandardsAndDetails/Forms/AllItems.aspx		



200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620

REVISION DATES

INDEX

BROGDON RD & NEW HOPE RD INTERSECTION

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PROJECT GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH FAYETTE COUNTY AND THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD AND SUPPLEMENTAL SPECIFICATIONS, CURRENT EDITION.
- ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON PLANS, AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE PROJECT IN ITS ORIGINAL, RELOCATED OR NEWLY INSTALLED POSITION.
- THE FOLLOWING UTILITIES HAVE FACILITIES IN THE PROJECT AREA:
 - Southern Company Gas
 - AT&T Southeast Network (BellSouth) Telecommunications
 - Coweta-Fayette EMC
 - Fayette County Water System
James Munster (770-320-6082)
- INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE GEORGIA STANDARD SPECIFICATIONS.
- RIGHT-OF-WAY MARKERS IN RESIDENTIAL LAWN AND DEVELOPED COMMERCIAL AREAS SHALL BE PLACED FLUSH WITH THE FINISHED SURFACE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND TO DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. CONCRETE AND ASPHALT MATERIALS REMOVED FROM THE PROJECT SITE MAY NOT BE PLACED IN THE PROJECT SITE, NEITHER WITHIN EASEMENTS NOR THE RIGHT-OF-WAY.
- PERFORATED UNDERDRAIN SHALL BE PLACED IN AREAS WHERE WET CONDITIONS EXIST IN THE SUBGRADE AS DIRECTED BY THE ENGINEER.
- STRUCTURES, TREES, SHRUBS AND OTHER PLANT MATERIAL THAT FALL WITHIN THE RIGHT-OF-WAY AND EASEMENT LIMITS, BUT OUTSIDE THE LIMITS OF CONSTRUCTION, SHALL NOT BE DISTURBED UNLESS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.
- METAL PIPES UNDERNEATH THE TRAVEL WAY MUST BE REMOVED OR FILLED WITH FLOWABLE FILL. THE COST FOR REMOVAL OF PIPES SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE PER LUMP-SUM OR IN THE PRICE BID FOR FLOWABLE FILL PER CUBIC YARD.
- 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". THE SAW CUT SHALL BE AS CLOSE TO THE EDGE OF PAVEMENT AS PRACTICAL.
- ALL RETAINING WALLS SHALL HAVE ASHLAR STONE FORM LINER OR OTHER FORM LINER AS DIRECTED. THIS APPLIES TO ALL RETAINING WALL FACES EXPOSED TO PUBLIC VIEW. ALL RETAINING WALL EXPOSED FACES SHALL HAVE ANTI-GRAFFITI COATING. THE ASHLAR FINISH AND ANTI-GRAFFITI COATING SHALL BE INCLUDED IN THE PRICE OF THE WALL.
- ALL DRIVEWAYS SHALL BE MAINTAINED DURING CONSTRUCTION. ALL DRIVEWAYS TO BE CONSTRUCTED SHALL BE REPLACED IN KIND I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE ETC. ANY OTHER DRIVEWAY MATERIAL OR SPECIALIZED DRIVEWAY WILL NOT BE REPLACED IN KIND (I.E. PAVERS) AND WILL BE REPLACED WITH ASPHALT OR CONCRETE. ALL EARTH OR GRAVEL DRIVES SHALL BE PAVED WITH ASPHALT TO THE RIGHT-OF-WAY LIMIT OR TIE-IN POINT. DRIVEWAYS SHALL BE PAVED AS FOLLOWS:

ASPHALTIC DRIVES	
RESIDENTIAL	- 1-1/2" ASPH. CONC. 12.5 MM SUPERPAVE, 165 LB/SY
	- 6" GRADED AGGREGATE BASE
COMMERCIAL	- 1-1/2" ASPH. CONC. 12.5 SUPERPAVE, 165 LB/SY
	- 2" ASPH. CONC. 19MM SUPERPAVE, 220 LB/SY
	- 6" GRADED AGGREGATE BASE
CONCRETE DRIVES	
RESIDENTIAL	- 6" CONCRETE VALLEY GUTTER
	- 4" CONCRETE DRIVEWAY
COMMERCIAL	- 8" CONCRETE VALLEY GUTTER
	- 6" CONCRETE DRIVEWAY
- ALL CONCRETE SIDEWALKS AND WHEEL CHAIR RAMPS LOCATED IN THE RADIUS RETURN SHALL BE 8" THICKNESS.
- LUMP-SUM TRAFFIC CONTROL: THE PRICE BID FOR LUMP-SUM TRAFFIC CONTROL SHALL INCLUDE THE COST OF STAGED CONSTRUCTION, MAINTENANCE OF TRAFFIC (INCLUDING AGGREGATE SURFACE COURSE), INSTALLATION AND REMOVAL OF ALL TEMPORARY SIGNAGE, INTERIM PAVEMENT MARKINGS, BARRICADES, AND OTHER INTERIM TRAFFIC CONTROL DEVICES NECESSARY FOR THE CONSTRUCTION AND MAINTENANCE OF THE PROJECT. DEVICES UTILIZED ON THE PROJECT SHALL BE IN COMPLIANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION AND SECTION 150. ALL DEVICES: SIGNS, POSTS, BARRICADES, ETC SHALL BE FROM THE GDOT QUALIFIED PRODUCTS LIST (OPL). ALL DEVICES SHALL BE CRASHWORTHY UNDER AASHTO AND NCHRP 350 REQUIREMENTS. THE ENGINEER MAY DIRECT THAT ADDITIONAL DEVICES AND MARKINGS BE ADDED TO THE TRAFFIC CONTROL PLAN. THE COST OF NOMINAL ITEMS ADDED BY THE ENGINEER SHALL BE INCLUDED IN LUMP-SUM TRAFFIC CONTROL EXCEPT FOR THE ADDITION OF A CHANGEABLE MESSAGE SIGN(S). THE CONTRACT UNIT PRICE WILL BE PAID FOR A CHANGEABLE MESSAGE SIGN(S) OR A UNIT PRICE WILL BE DETERMINED WHEN A CHANGEABLE MESSAGE SIGN(S) IS NOT INCLUDED IN THE CONTRACT.

PROJECT GENERAL NOTES CONT'D:

- DETOURS IN THE PLANS; SUGGESTED DETOURS SHOWN IN THE PLANS ARE FOR INFORMATION ONLY. CONTRACTOR SHALL SUBMIT ON SITE AND OFF SITE DETOURS, AS PER SPECIAL PROVISION 150 TRAFFIC CONTROL, FOR REVIEW AND APPROVAL. THE COST OF MAINTENANCE, GRADING, TEMPORARY DRAINAGE, TEMPORARY SIGNAGE, TEMPORARY MARKINGS AND TEMPORARY DEVICES SHALL BE INCLUDED IN LUMP-SUM TRAFFIC CONTROL. THE COST OF STONE BASE(GAB) AND THE PLACEMENT OF THE TYPICAL PAVEMENT SECTION, TEMPORARY BARRIERS, ATTENUATORS, TEMPORARY GUARDRAIL, AND ANCHORS, IF NEEDED, WILL BE PAID AT CONTRACT UNIT PRICES. IF NO PAY ITEM IS SET UP FOR THE AFOREMENTIONED ITEMS FOR DETOURS THEN, IF REQUIRED, WILL BE INCLUDED IN LUMP SUM TRAFFIC CONTROL, AND IT WILL NOT BE MEASURED SEPARATELY FOR PAYMENT. ANY UNIT PRICES SET UP WILL INCLUDE INSTALLATION AND REMOVAL. PERMANENT DEVICES, TO BE INCORPORATED INTO THE FINAL WORK, MAY BE USED FOR INTERM/TEMPORARY DUTIES PROVIDED THE PERMANENT DEVICES ARE NOT DAMAGED DURING THE INTERIM USAGE. THE COST FOR REPLACEMENT OF DAMAGED COMPONENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.

DETOURS NOT SHOWN IN THE PLANS (DETOURS PROPOSED BY THE CONTRACTOR): THE COST TO INSTALL, MAINTAIN AND REMOVE ANY DETOUR SHALL BE INCLUDED IN THE PRICE BID FOR LUMP-SUM TRAFFIC CONTROL. THE COST OF GRADING, PAVEMENT, SIGNING, MARKINGS, TEMPORARY DEVICES, TEMPORARY CONCRETE BARRIERS, ATTENUATORS, TEMPORARY GUARDRAIL AND ANCHORS, ETC SHALL BE INCLUDED IN THE PRICE BID FOR LUMP-SUM TRAFFIC CONTROL. DETOURS NOT SHOWN IN THE PLANS WILL NOT BE ELIGIBLE TO BE PAID AT CONTRACT UNIT PRICES.
- CUT AND FILL SLOPES SHALL BE STABILIZED TO COMPLY WITH SECTION 161.3.05-B OF THE SPECIFICATIONS IN ORDER TO REDUCE THE POTENTIAL FOR EROSION. IF THE SEASON DOES NOT PERMIT PERMANENT GRASSING, TEMPORARY STRAW MULCH AND/OR TEMPORARY VEGETATION SHALL BE USED AS PER THE EROSION AND SEDIMENTATION POLLUTION CONTROL PLAN (ESPCP) OR AS DIRECTED BY THE ENGINEER.
- EROSION CONTROL MEASURES SHALL BE INSTALLED TO BE IN COMPLIANCE WITH THE APPROVED EROSION AND SEDIMENTATION POLLUTION CONTROL PLAN (ESPCP). EROSION CONTROL MEASURES SHALL BE INSTALLED BEFORE ANY LAND DISTURBING ACTIVITIES THAT INVOLVE ENVIRONMENTAL SENSITIVE AREAS (ESA'S) AS DEFINED UNDER SECTION 107.23.F OF THE SPECIFICATIONS AND THE ESPCP. IN GENERAL, EROSION CONTROL ITEMS SHOULD BE INSTALLED PRIOR TO THE START OF ANY LAND DISTURBING ACTIVITIES.
- SPRINKLER SYSTEMS TO BE HANDLED AS FOLLOWS:

CASE 1 - SYSTEMS WITHIN THE CONSTRUCTION LIMITS OWNED BY INDIVIDUALS OR PRIVATE COMPANIES ARE TO BE REMOVED TO THE BACK OF THE CONSTRUCTION LIMITS AND PLUGGED.

CASE 2 - SYSTEMS SHOWN BY THE PLANS TO BE REMOVED AND RELOCATED SHALL BE RELOCATED TO THE BACK OF THE SIDEWALK. COST SHALL BE INCLUDED IN PRICE BID FOR "GRADING COMPLETE".
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, RELOCATING, AND MAINTAINING THE PROPERTY OWNER'S MAILBOX TO AN AREA OUTSIDE CONSTRUCTION LIMITS DURING THE LIFE OF THE CONTRACT. THE LOCATION OF THE BOX SHOULD BE CONVENIENT TO BOTH THE MAIL CARRIER AND THE PATRON, YET NOT INTERFERE WITH PROPOSED WORK. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONFER WITH THE POST OFFICE SERVING THE AREA. ALL COSTS INCURRED FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.
- AN N.O.I. (NOTICE OF INTENT) IS REQUIRED FOR THIS PROJECT. THE DISTURBED AREA IS 3.0 ACRES.
- ATTENTION IS CALLED TO SECTION 149.3, CONSTRUCTION REQUIREMENTS, CONTRACTOR IS REQUIRED TO TAKE THREE-POINT LEVELS ON WIDENING AND RECONSTRUCTION PROJECTS AND OBTAIN THE ENGINEER'S APPROVAL OF THE "BEST FIT" PROFILE AND CROSS SLOPE. TO MINIMIZE LEVELING REQUIREMENTS OF THE EXISTING ROADWAY, THE CONTRACTOR MUST GET THE ENGINEER'S APPROVAL OF THE PROPOSED BEST FIT BEFORE BEGINNING WIDENING AND RECONSTRUCTION. COST FOR SURVEY WORK TO BE INCLUDED IN GRADING COMPLETE OR OTHER ITEMS, NO SEPARATE PAYMENT SHALL BE MADE.
- ALL ROADWAY DRAINAGE PIPES SHALL BE REINFORCED CONCRETE.
- CONTRACTOR TO PROVIDE PRE-CONSTRUCTION PHOTOS OF ALL DRIVEWAYS TO PROJECT ENGINEER PRIOR TO CONSTRUCTION. PHOTOS MAY BE DIGITAL.
- ALL EXISTING STORM DRAIN PIPES INCLUDING BOX CULVERTS WITHIN THE CONSTRUCTION LIMITS SHALL BE CLEANED PRIOR TO COMPLETION OF PROJECT. COST TO BE INCLUDED IN GRADING COMPLETE.
- ALL GRASSED MEDIANS, LANDSCAPED AREAS BETWEEN THE BACK OF CURB AND SIDEWALK AND TO SHOULDER BREAK POINT SHALL BE SODDED WITH TIFTUF BERMUDA SOD, UNLESS THERE IS EXISTING GRASS. THEN THE SOD TYPE FROM BACK OF CURB TO EXISTING GRASS SHALL MATCH ADJACENT GRASS. ALL COST ASSOCIATED WITH THIS REQUIREMENT SHALL BE INCLUDED IN THE PRICE BID FOR 700-9000 SOD.
- ALL EXISTING PEDESTRIAN FACILITIES, INCLUDING ACCESS TO TRANSIT STOPS, SHALL BE MAINTAINED. WHERE PEDESTRIAN ROUTES ARE CLOSED, ALTERNATE ROUTES SHALL BE PROVIDED. WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED WITHIN THE LIMITS OF THE PROJECT, THE TEMPORARY PEDESTRIAN FACILITIES SHALL BE DETECTABLE AND SHALL INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY (PER LATEST MUTCD). COST FOR CONSTRUCTING AND MAINTAINING TEMPORARY PEDESTRIAN FACILITIES SHALL BE INCLUDED IN THE PRICE BID FOR GRADING COMPLETE.
- THE ROADWAY FINAL SURFACE COURSE JOINTS MUST MATCH THE PROPOSED LANE EDGES AS SHOWN IN THE PAVEMENT MARKING PLANS.

MAINTENANCE OF TRAFFIC GENERAL NOTES

- ALL ITEMS NECESSARY FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR "TRAFFIC CONTROL".
- ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- ALL SIGNS SHALL HAVE TYPE III RETROREFLECTIVE SHEETING UNLESS OTHERWISE NOTED.
- IN RESIDENTIAL AREAS, TEMPORARY AND PERMANENT SIGNS SHALL BE LOCATED ON OR AS CLOSE AS POSSIBLE TO PROPERTY LINES.
- EXISTING TRAFFIC SIGNS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. MAINTENANCE INCLUDES REPLACING DAMAGED AND STOLEN SIGNS, AND PERIODIC CLEANING OF EXISTING SIGNS AND CONSTRUCTION RELATED TRAFFIC CONTROL DEVICES.
- THE WORKSITE TRAFFIC CONTROL SUPERVISOR (WTCS) SHALL BE RESPONSIBLE FOR THE ELIMINATION OF ANY CONFLICTING PAVEMENT MARKINGS. THE WTCS SHALL NOT USE "BLACK OUT PAINT" TO ERADICATE CONFLICTING MARKINGS. THE ENGINEER SHALL MAKE THE FINAL DETERMINATION WHETHER THE CONFLICTING MARKINGS HAVE BEEN ADEQUATELY ELIMINATED.
- TEMPORARY TRAFFIC BARRIERS SHALL HAVE A TWO (2') FEET MINIMUM OFFSET FROM THE EDGE OF ANY TRAVEL LANE. ONLY TRAFFIC DRUMS, MEETING THE MINIMUM REQUIREMENTS OF THE MUTCD AND SECTION 150, AND TEMPORARY BARRIERS THAT ARE CRASHWORTHY SHALL BE USED ADJACENT TO TRAVEL LANES. UNLESS PRIOR APPROVAL IS GRANTED BY FAYETTE COUNTY, THE TEMPORARY BARRIERS CAN NOT BE PLACED LESS THAN TWO (2') FEET FROM THE EDGE OF THE TRAVEL LANE. THE USE OF TYPE I AND II BARRICADES AND TRAFFIC CONES IS PROHIBITED.
- TRAFFIC DRUMS MEETING THE MINIMUM REQUIREMENTS OF THE MUTCD AND SECTION 150 SHALL BE USED FOR CHANNELIZATION OF TRAFFIC IN ALL TRAFFIC SHIFTS. FOR ANY WORK ZONE, THE MAXIMUM DRUM SPACING, IN FEET, SHALL BE THE DESIGN OR POSTED SPEED LIMIT, WHICHEVER IS LESS. BASED ON FIELD CONDITIONS, THE MAXIMUM SPACING OF THE TRAFFIC DRUMS MAY NEED TO BE FURTHER REDUCED.
- ALL TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR SO AS NOT TO INTERFERE WITH SIGHT DISTANCES ALONG ANY ADJACENT SIDE ROAD OR DRIVEWAY.
- FAYETTE COUNTY RESERVES THE RIGHT TO MODIFY THIS MAINTENANCE OF TRAFFIC PLAN AS FIELD CONDITIONS WARRANT. IF ADDITIONAL TRAFFIC CONTROL DEVICES ARE REQUIRED, THESE SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE COUNTY.
- THE CONTRACTOR MUST OBTAIN A ROAD CLOSURE PERMIT FROM FAYETTE COUNTY A MINIMUM OF 3 WEEKS PRIOR TO ROAD CLOSURE. FOR INFORMATION CALL (770) 320-6010.
- REFLECTORIZED TYPE 3 BARRICADES SHALL BE USED AT THE ACTUAL LOCATION OF TOTAL STREET CLOSURE. EACH BARRICADE SHALL HAVE TWO TYPE 'A' LIGHTS AND ONE R11-2 (ROAD CLOSED) SIGN ATTACHED.
- ALL M4-9 SIGNS SHALL HAVE ADVISORY BLADES (INSTALLED ABOVE THE "DETOUR" SIGN) IDENTIFYING THE CLOSED STREET THAT THE DETOUR ROUTE SERVES.
- INFORMATION SIGNS, INFORMING MOTORISTS OF THE ROAD CLOSURE SHALL BE INSTALLED A MINIMUM OF 2 WEEKS PRIOR TO THE ROAD CLOSURE. THESE SIGNS SHALL BE INSTALLED AT OR AS NEAR AS POSSIBLE TO THE ROAD CLOSURE (SEE SPECIFICATIONS BELOW):

(ROAD NAME) WILL BE CLOSED TO THRU TRAFFIC FROM (SIDE ROAD) TO (SIDE ROAD) (DATE) THRU (DATE) (REASON FOR CLOSURE) FOR INFO CALL (770) 320-6010

THESE SIGNS SHALL BE RETROREFLECTIVE SHEETING ON METAL, 4 INCH BLACK UPPER AND LOWER CASE LETTERING (SERIES 'B' OR WIDER) ON WHITE BACKGROUND.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PREPARE A MAINTENANCE OF TRAFFIC PLAN FOR APPROVAL BY FAYETTE COUNTY BEFORE STARTING CONSTRUCTION. PAYMENT SHALL BE INCLUDED IN THE PRICE FOR TRAFFIC CONTROL. THE CONTRACTOR WILL NOT BE ALLOWED TO CLOSE THE ROAD DURING THE CONSTRUCTION OF THE PROJECT WITHOUT APPROVAL BY THE ENGINEER.
- SEE PROJECT SPECIFICATIONS IN THE ITB PACKAGE (SECTION 150 - TRAFFIC CONTROL) FOR ADDITIONAL INFORMATION ON WORK ZONE RESTRICTIONS.
- THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS TO ALL DRIVEWAYS AT ALL TIMES.



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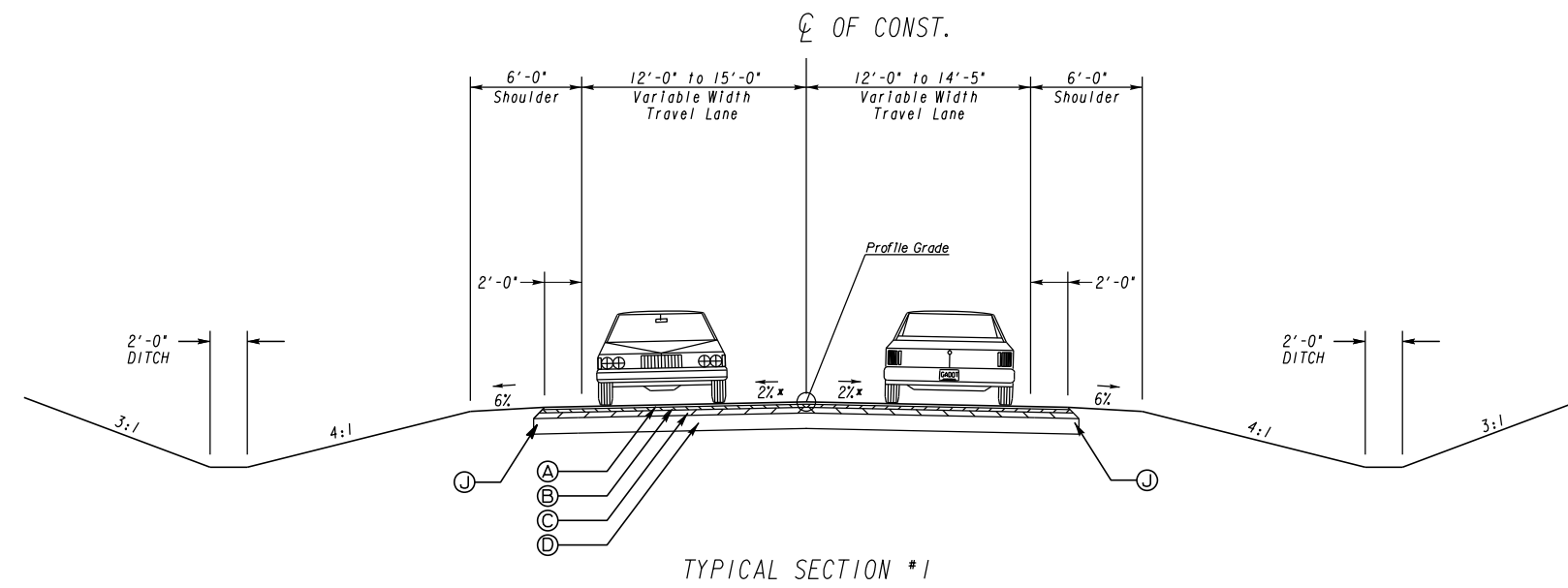
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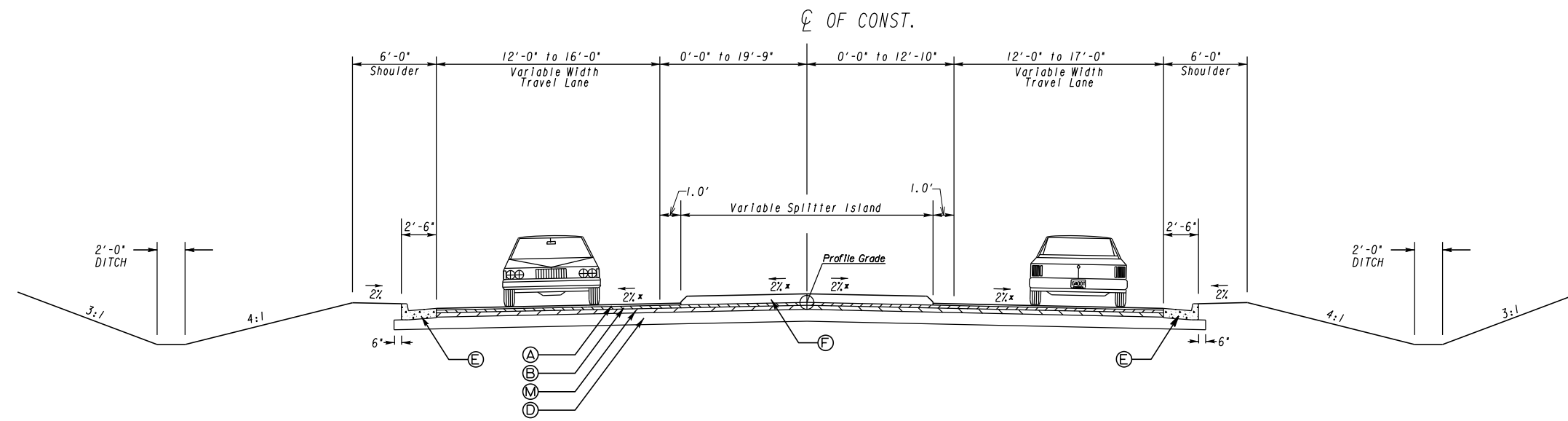
GENERAL NOTES

BROGDON RD & NEW HOPE RD INTERSECTION

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NEW HOPE ROAD
STA. 101+00.00 TO STA. 102+36.74



NEW HOPE ROAD
STA. 102+36.74 TO STA. 103+53.68

- Ⓐ RECYCLED ASPH. CONC. 12.5mm SUPERPAVE, GP 2, INCL BITUM MATL & LIME (165 LBS/SY)
- Ⓑ RECYCLED ASPH. CONC. 19mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SY)
- Ⓒ RECYCLED ASPH. CONC. 25mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (330 LB/SY)
- Ⓓ GRADED AGGREGATE CRS, 10 INCH, INCL MATL
- Ⓔ CONCRETE CURB & GUTTER, 8 IN X 30 IN, TP 2
- Ⓕ CONCRETE INTEGRAL MEDIAN, 7.5", TYPE 2 FACE
- Ⓖ PLAIN PC CONC PVMT, CL HES, 10 INCH THICK, STAMPED AND COLORED FS 31136- INSIGNIA RED
- Ⓗ 6" CONC. HEADER CURB, GA STD. 9032B TYPE 7
- Ⓘ 4" CONC. HEADER CURB, GA STD. 9032B TYPE 9
- Ⓝ SAFETY EDGE PAVEMENT TREATMENT, GA DETAIL P-7
- Ⓚ CONCRETE CURB & GUTTER, 8 IN X 30 IN, TP 9
- Ⓛ SOD
- Ⓜ RECYCLED ASPH. CONC. 25mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB/SY)
- Ⓝ RECYCLED ASPH. CONC. 19mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (275 LB/SY)

* SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.

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MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620

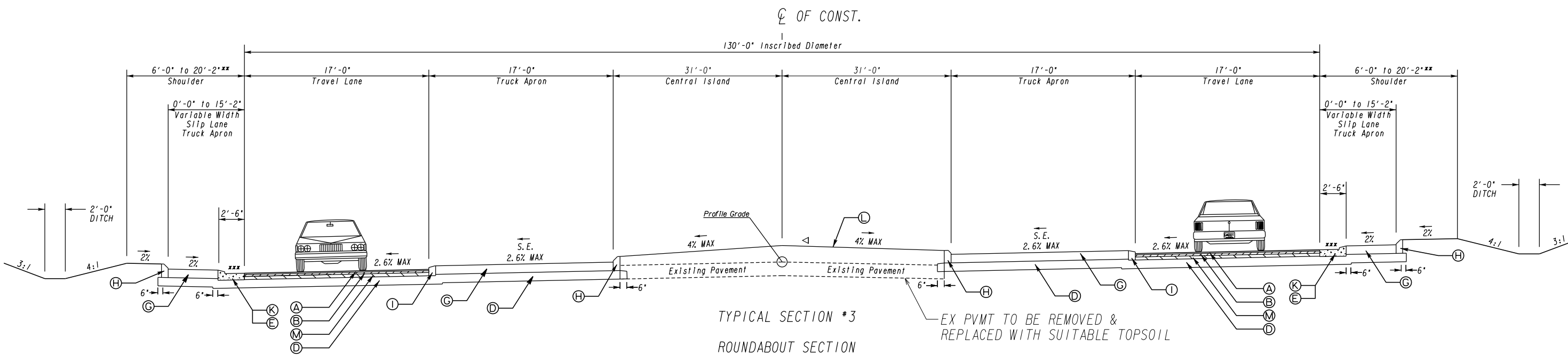
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

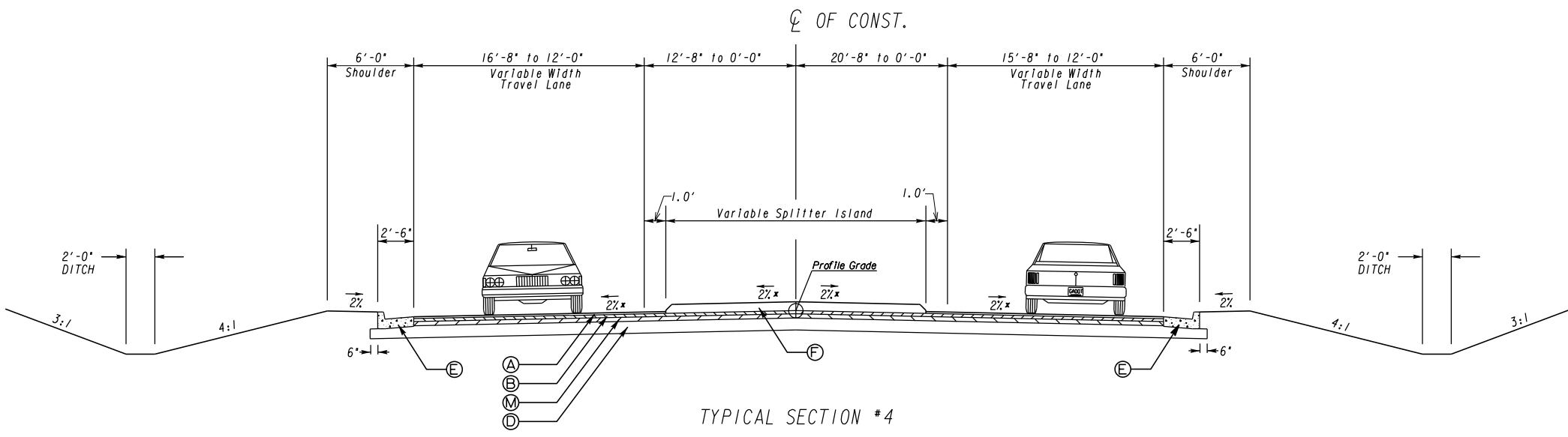
NEW HOPE RD

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TYPICAL SECTION #3
 ROUNDABOUT SECTION
 FOR TRUCK APRON SPECIFICS PLEASE SEE GDOT DETAIL RA-2
 FOR ROUNDABOUT CENTRAL ISLAND LANDSCAPING DETAIL SEE GDOT DETAIL RA-1

NEW HOPE ROAD
 STA. 103+53.68 TO STA. 104+83.68
 BROGDON ROAD
 STA. 23+03.83 TO STA. 24+33.83



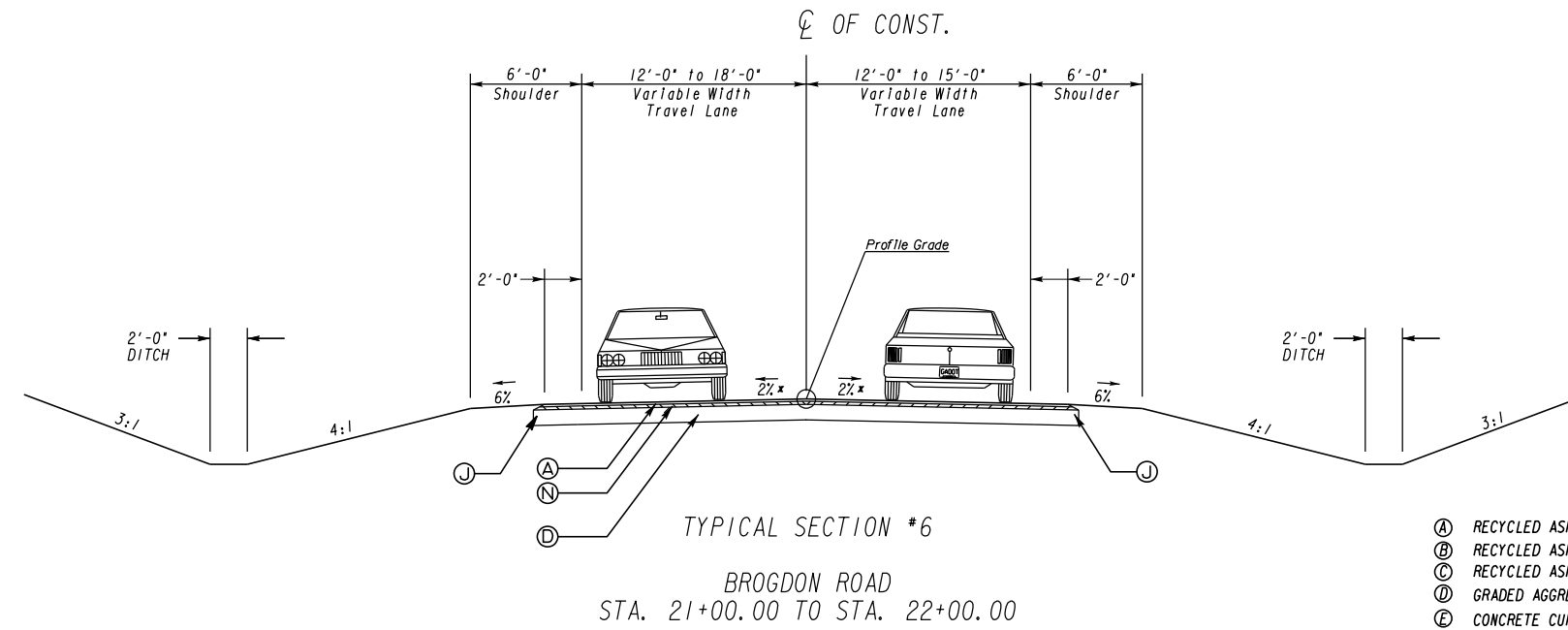
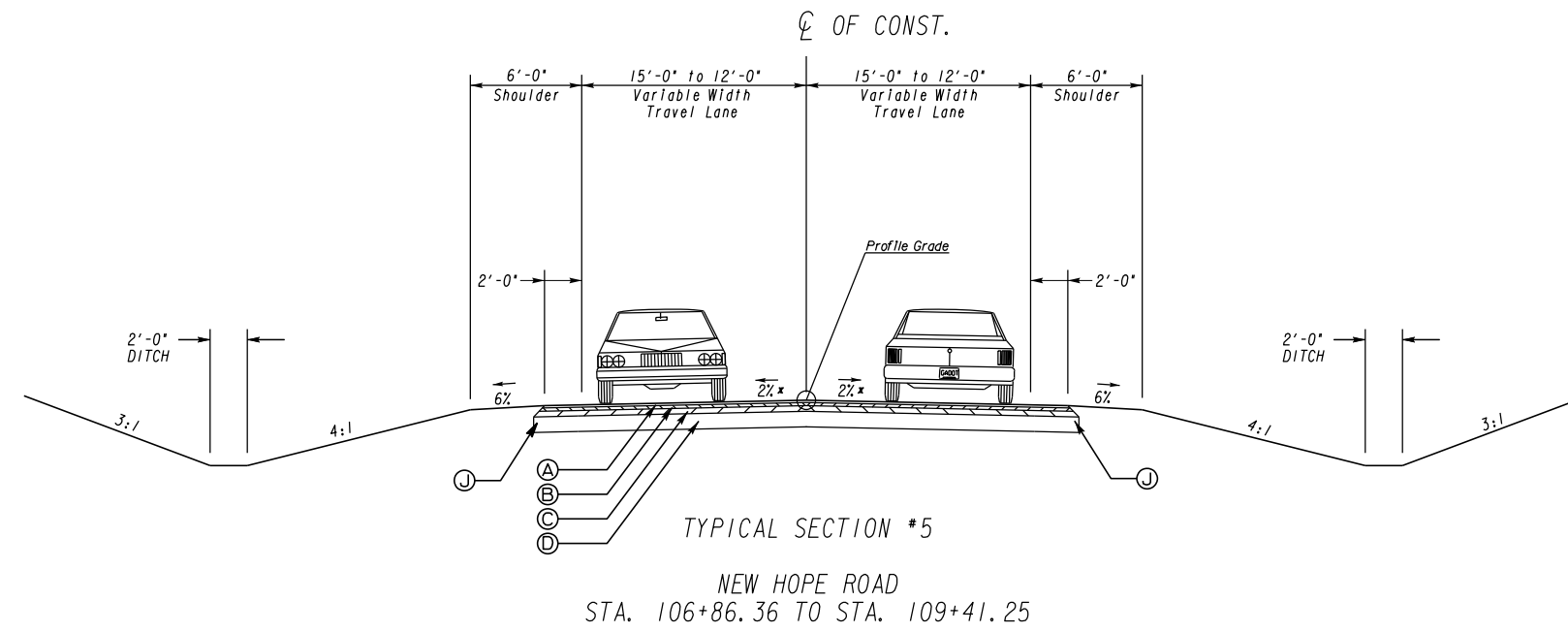
TYPICAL SECTION #4
 NEW HOPE ROAD
 STA. 104+83.68 TO STA. 106+86.36

- (A) RECYCLED ASPH. CONC. 12.5mm SUPERPAVE, GP 2, INCL BITUM MATL & LIME (165 LBS/SY)
- (B) RECYCLED ASPH. CONC. 19mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SY)
- (C) RECYCLED ASPH. CONC. 25mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (330 LB/SY)
- (D) GRADED AGGREGATE CRS, 10 INCH, INCL MATL
- (E) CONCRETE CURB & GUTTER, 8 IN X 30 IN, TP 2
- (F) CONCRETE INTEGRAL MEDIAN, 7.5", TYPE 2 FACE
- (G) PLAIN PC CONC PVMT, CL HES, 10 INCH THICK, STAMPED AND COLORED FS 31136- INSIGNIA RED
- (H) 6" CONC. HEADER CURB, GA STD. 9032B TYPE 7
- (I) 4" CONC. HEADER CURB, GA STD. 9032B TYPE 9
- (J) SAFETY EDGE PAVEMENT TREATMENT, GA DETAIL P-7
- (K) CONCRETE CURB & GUTTER, 8 IN X 30 IN, TP 9
- (L) SOD
- (M) RECYCLED ASPH. CONC. 25mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB/SY)
- (N) RECYCLED ASPH. CONC. 19mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (275 LB/SY)

* SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.
 ** SEE SHEET 5-0005 FOR SLIP LANE TRUCK APRON DETAIL
 *** TYPE 9 C&G TO BE USED WHERE SLIP LANE TRUCK APRON IS REQ'D

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 MARIETTA, GA 30062
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- Ⓐ RECYCLED ASPH. CONC. 12.5mm SUPERPAVE, GP 2, INCL BITUM MATL & LIME (165 LBS/SY)
- Ⓑ RECYCLED ASPH. CONC. 19mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SY)
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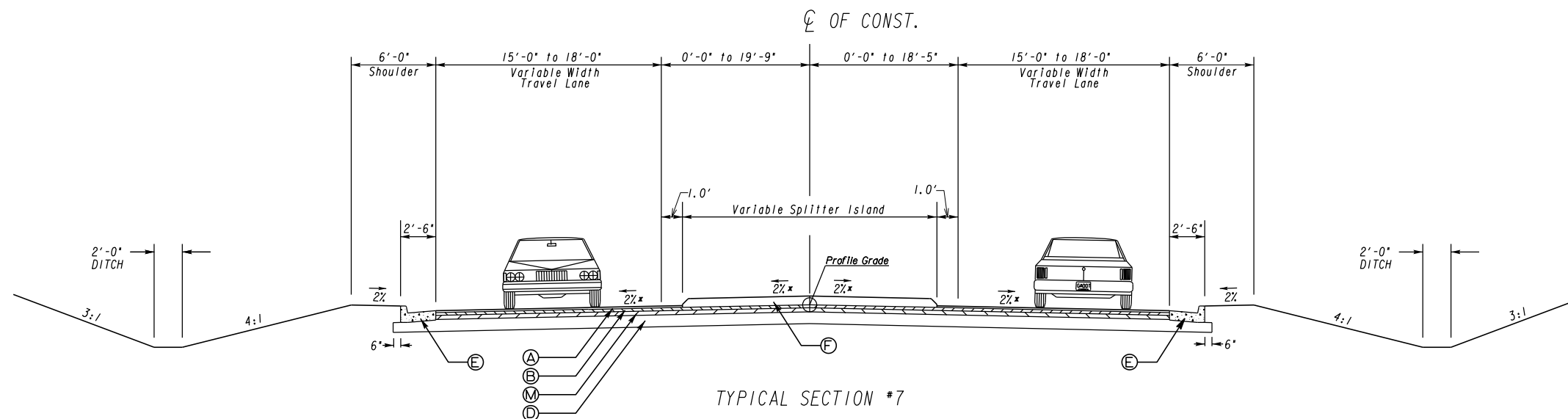
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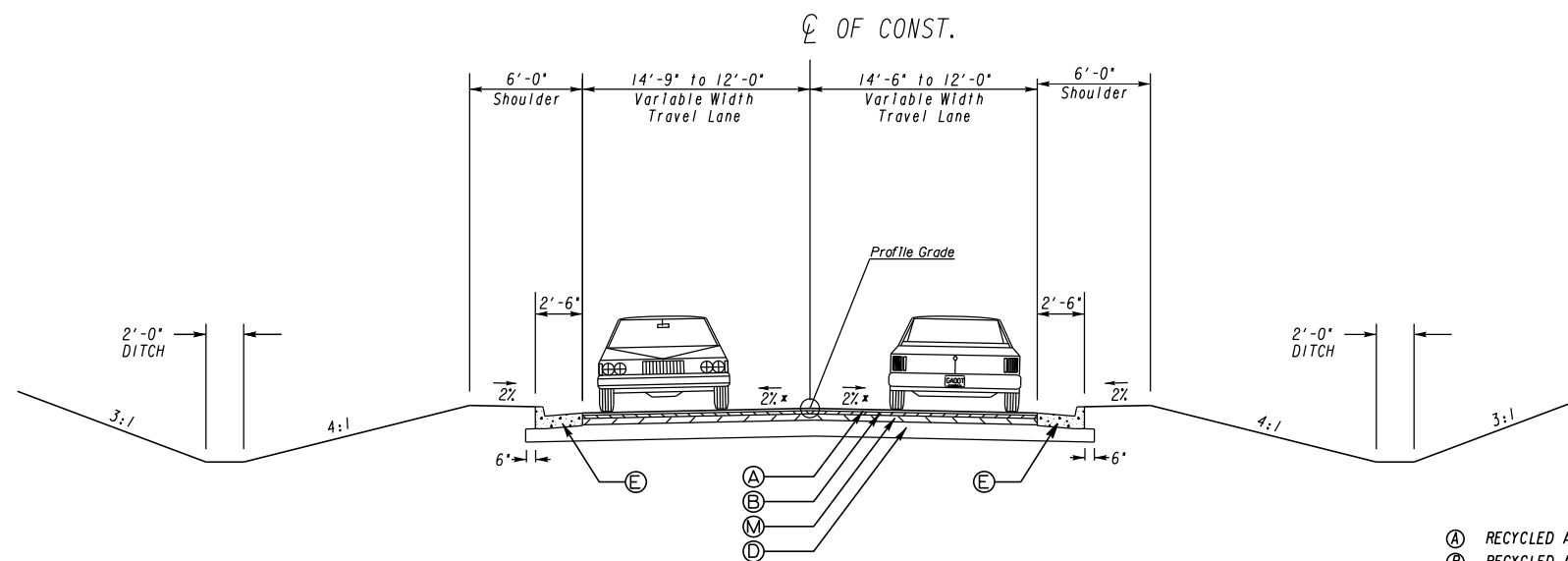
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TYPICAL SECTIONS		
NEW HOPE RD AND BROGDON RD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



TYPICAL SECTION #7

BROGDON ROAD
STA. 22+00.00 TO STA. 23+03.83
STA. 24+33.83 TO STA. 25+37.06



TYPICAL SECTION #8

BROGDON ROAD
STA. 25+37.06 TO STA. 26+97.69

- Ⓐ RECYCLED ASPH. CONC. 12.5mm SUPERPAVE, GP 2, INCL BITUM MATL & LIME (165 LBS/SY)
- Ⓑ RECYCLED ASPH. CONC. 19mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB/SY)
- Ⓒ RECYCLED ASPH. CONC. 25mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (330 LB/SY)
- Ⓓ GRADED AGGREGATE CRS, 10 INCH, INCL MATL
- Ⓔ CONCRETE CURB & GUTTER, 8 IN X 30 IN, TP 2
- Ⓕ CONCRETE INTEGRAL MEDIAN, 7.5", TYPE 2 FACE
- Ⓖ PLAIN PC CONC PVMT, CL HES, 10 INCH THICK, STAMPED AND COLORED FS 31136- INSIGNIA RED
- Ⓗ 6" CONC. HEADER CURB, GA STD. 9032B TYPE 7
- Ⓘ 4" CONC. HEADER CURB, GA STD. 9032B TYPE 9
- Ⓙ SAFETY EDGE PAVEMENT TREATMENT, GA DETAIL P-7
- Ⓚ CONCRETE CURB & GUTTER, 8 IN X 30 IN, TP 9
- Ⓛ SOD
- Ⓜ RECYCLED ASPH. CONC. 25mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB/SY)
- Ⓝ RECYCLED ASPH. CONC. 19mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (275 LB/SY)

* SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.

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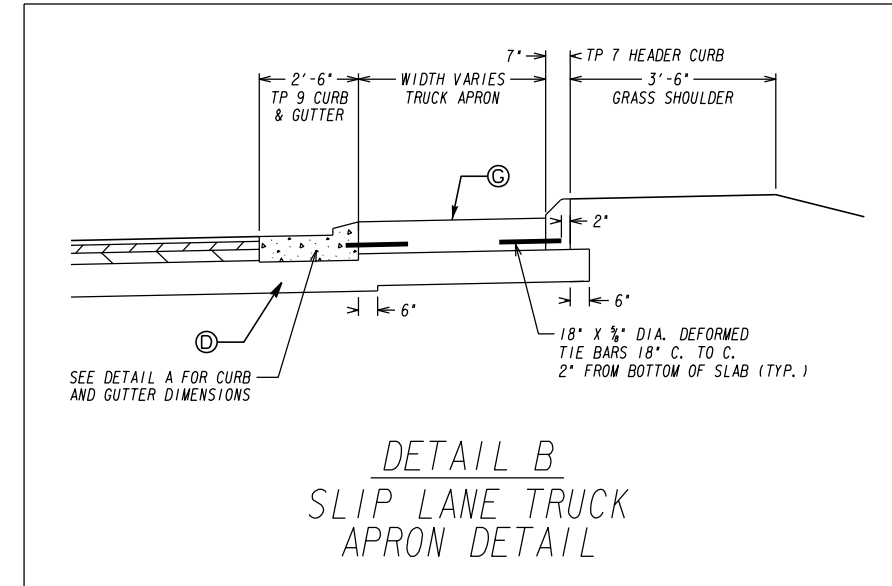
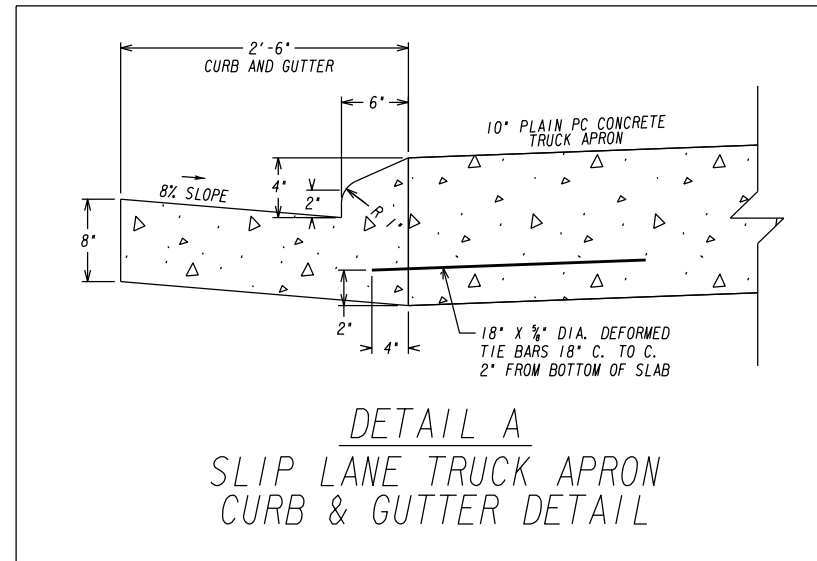
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

BROGDON RD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS
DETAILS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	

SUMMARY OF QUANTITIES

ROADWAY QUANTITIES													
ROADWAY NAME	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	GR AGGR BASE CRS, 10 INCH, INCL MATL	CONCRETE INTEGRAL MEDIAN, 7 1/2 IN, TP 2 FACE	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	CONC CURB & GUTTER, 8 IN X 30 IN, TP 9	CONCRETE HEADER CURB, 6 IN, TP 7	CONCRETE HEADER CURB, 4 IN, TP 9	PLAIN PC CONC PWT, CL RES 10.10 IN THK, STAMPED AND COLORED FS 3136 - INSTG1A RED	CONC VALLEY GUTTER, 6 IN	DRIVEWAY CONCRETE, 4 IN TK	TACK COAT
	TN	TN	TN	SY	SY	LF	LF	LF	LF	SY	SY	SY	GL
NEW HOPE RD	220	292	526	3042	219	665					22	195	500
BROGDON RD	154	213	328	2218	176	536					23	1050	340
ROUNDAABOUT	56	74	148	1161			408	561	300	578			220
TOTAL	430	579	1002	6421	395	1201	408	561	300	578	45	1245	1060

TRAFFIC CONTROL -
TOTAL 1 LS

GRADING COMPLETE -
TOTAL 1 LS

RIGHT OF WAY MARKERS
TOTAL 25 EA

REMOVE FENCE
TOTAL 420 LF

TEMPORARY EROSION CONTROL		
ITEM	UNIT	QTY
TEMPORARY SILT FENCE, TYPE C	LF	112
MAINTENANCE OF TEMPORARY SILT FENCE, TP C	LF	112
CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	EA	14
MAINTENANCE OF INLET SEDIMENT TRAP	EA	14
CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	EA	16
MAINTENANCE OF SILT CONTROL GATE, TP 3	EA	16
CONSTRUCT AND REMOVE RIP RAP CHECK DAMS, STONE PLAIN RIP RAP/SAND BAGS	EA	66
MAINTENANCE OF CHECK DAMS - ALL TYPES	LF	330
MULCH	TN	30
TEMPORARY GRASSING	AC	3
CONSTRUCTION EXIT	EA	4
MAINTENANCE OF CONSTRUCTION EXIT	EA	4
FERTILIZER MIXED GRADE	TN	1
PLASTIC FILTER FABRIC	SY	113

PERMANENT EROSION CONTROL		
ITEM	UNIT	QTY
PERMANENT GRASSING	AC	2
MULCH	TN	3
AGRICULTURAL LIME	TN	6
FERTILIZER MIXED GRADE	TN	1.5
FERTILIZER NITROGEN CONTENT	LB	100
STN DUMPED RIP RAP, TP 3, 12 IN	SY	36
PLASTIC FILTER FABRIC	SY	36
SOD	SY	325

WATER QUALITY INSPECTIONS
TOTAL 9 MO

WATER QUALITY MONITORING AND SAMPLING
TOTAL 3 EA

WATER LINE ITEMS		
WATER MAIN, 8 IN	507	LF
GATE VALVE, 8 IN	4	EA
STEEL CASING, 16 IN	40	LF
REMOVE ASBESTOS CEMENT PIPE	240	LF
TAPPING SLEEVE & VALVE ASSEMBLY, 24 IN X 10 IN	2	EA
MISC. FITTINGS	1,000	LB
CONNECT TO EX. 8" WATER LINE	4	EA
THRUST BLOCKING	3	CY

CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3
TOTAL 4 EA

PAVEMENT MARKING QUANTITIES							
ROADWAY NAME	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	THERMOPLASTIC SKIP TRAF STRIPE, 18 IN, WHITE	THERMOPLASTIC TRAF STRIPING, WHITE	THERMOPLASTIC TRAF STRIPING, YELLOW	RAISED PWT MARKERS TP 1
	LF	LF	LF	GLF	SY	SY	EA
NEW HOPE RD	67	1410	630	57	25	166	40
BROGDON RD	67	952	430	78	31	84	22
TOTAL	134	2362	1060	135	56	250	62

DRAINAGE ITEMS												
STRUCTURE NUMBER	LOCATION	PIPE		FLARED END SECTION	SAFETY END SECTION	CATCH BASINS		DROP INLET, GP 1, 1019A, 1019D, 9031-S, D-4, & 500IN	DROP INLET, GP 1, ADDL DEPTH	MANHOLES		CONC SPILLWAY, TP 3
		STORM DRAIN	SIDE DRAIN	STORM DRAIN	SIDE DRAIN	CATCH BASIN GP 1, 6A STD, 1033D, 1034D, & 1034G	CATCH BASIN, GP 1, ADDL DEPTH			STORM SEWER MANHOLE, TP 1	STORM SEWER MANHOLE, TP 1, ADDL DEPTH, CL 1	
		H 1-10	H 1-10 (POLYMER COATED CMP)	18"	18"	18"	18"			EA	EA	EA
		LIN FT	LIN FT	EACH	EACH	EACH	LF	EA	LF	EA	LF	EA
A-2	103+06.19											1
B-1	22+71.33			1							1	
B-2	22+75.06	12										
B-2A	23+15.31	42						1				
B-3	22+83.84	33										
B-4	23+04.02	50		1								
C-1	105+56.30			1								
C-2	105+54.98	9										
C-3	105+55.07	15										
D-1	106+57.97			1								
D-2	106+58.04	9										
D-3	106+58.09	15										
E-2	107+59.59											1
F-1	107+99.19							1				
F-2	107+68.69	20						1				
G-1	109+03.53							1				
G-2	108+74.31	20						1				
H-1	24+29.24			1								
H-2	103+49.36	48						1				
I-1	24+55.18			1								
I-2	24+52.77	4									1	
I-2A	24+20.23	25								1		
I-3	24+47.48	45								1		
I-4	24+43.54	39		1								
J-1	105+54.88							1				
J-2	105+28.08	20						1				
K-1	108+91.13							1				
K-2	108+61.59	20						1				
L-1	109+78.11							1				
L-2	109+48.73	20						1				
N-2	22+12.66											1
O-2	25+19.45											1
P-2	26+02.91											1
Q-1	24+70.05			1								
Q-2	25+17.49	40						1				
TOTAL		346	140	8	11	7	0	2	0	2	0	5

REVISION DATES

SUMMARY QUANTITIES

BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
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VERIFIED:	DATE:	



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Engineers
Planners
Surveyors

SUMMARY OF QUANTITIES

ROADWAY SIGN QUANTITIES																
INSTL. NO.	STATION	SIDE	ROADWAY	SIGN CODE	HIGHWAY SIGNS						SQUARE TUBE POST					
					HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9			HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 11			TYPE 7			TYPE 8		
					SIZE	QUANTITY	SF	SIZE	QUANTITY	SF	LENGTH	QUANTITY	TOTAL	LENGTH	QUANTITY	TOTAL
1	100+42.89	14.94 RT	NEW HOPE RD	W3-5				36X36	1	9.00				14	1	14
2	N/A	17.15 LT	NEW HOPE RD	R2-1	24X30	1	5.00				13	1	13			
3	102+37.64	20.74 RT	NEW HOPE RD	W2-6				30X30	1	6.25				14	1	14
				W13-1P				18X18	1	2.25						
				W16-8P				8X24	1	1.50						
4	102+54.99	0.92 LT	NEW HOPE RD	R4-7	24X30	1	5.00				13	1	13			
5	103+44.02	36.93 RT	NEW HOPE RD	R1-2				36X36X36	1	4.50	16	1	16			
6	103+95.08	14.99 RT	NEW HOPE RD	R6-4	30x24	1	5.00				13	1	13			
7	104+02.35	21.83 LT	NEW HOPE RD	R6-4	30x24	1	5.00				13	1	13			
8	104+35.08	22.57 RT	NEW HOPE RD	R6-4	30x24	1	5.00				13	1	13			
9	104+40.57	16.65 LT	NEW HOPE RD	R6-4	30x24	1	5.00				13	1	13			
10	104+98.68	41.04 LT	NEW HOPE RD	R1-2				36X36X36	1	4.50	16	1	16			
11	106+05.28	21.84 LT	NEW HOPE RD	W2-6				30X30	1	6.25				14	1	14
				W13-1P				18X18	1	2.25						
				W16-8P				8X24	1	1.50						
12	106+84.08	0.28 RT	NEW HOPE RD	R4-7	24X30	1	5.00				13	1	13			
13	107+09.98	20.46 RT	NEW HOPE RD	R2-1	24X30	1	5.00				13	1	13			
14	108+12.37	20.16 LT	NEW HOPE RD	W3-5				36X36	1	9.00				14	1	14
15	20+00.00	16.93 RT	BROGDON RD	W3-5				36X36	1	9.00				14	1	14
16	21+75.52	20.07 RT	BROGDON RD	W2-6				30X30	1	6.25				14	1	14
				W13-1P				18X18	1	2.25						
				W16-8P				8X26	1	1.50						
17	21+36.65	18.81 LT	BROGDON RD	R2-1	24X30	1	5.00				13	1	13			
18	22+02.33	0.95 LT	BROGDON RD	R4-7	24X30	1	5.00				13	1	13			
19	22+95.23	38.31 RT	BROGDON RD	R1-2				36X36X36	1	4.50	16	1	16			
20	24+45.35	39.58 LT	BROGDON RD	R1-2				36X36X36	1	4.50	16	1	16			
21	25+34.75	1.09 RT	BROGDON RD	R4-7	24X30	1	5.00				13	1	13			
22	25+49.73	21.31 LT	BROGDON RD	W2-6				30X30	1	6.25				14	1	14
				W13-1P				18X18	1	2.25						
				W16-8P				8X26	1	1.50						
23	26+48.12	18.12 RT	BROGDON RD	R2-1	24X30	1	5.00				13	1	13			
24	N/A	17.37 LT	BROGDON RD	W3-5				36X36	1	9.00				14	1	14
TOTAL						12	60		20	94	220	16	220	112	8	112



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REVISION DATES

SUMMARY QUANTITIES
BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Curve* 1
 PI Sta* 102+65.86
 N* 1270940.9001
 E* 2203267.9708
 DELTA* 09°55'59.6" (LT)
 D* 19°05'54.94"
 T* 26.07
 L* 52.01
 R* 300.00
 E* 1.13

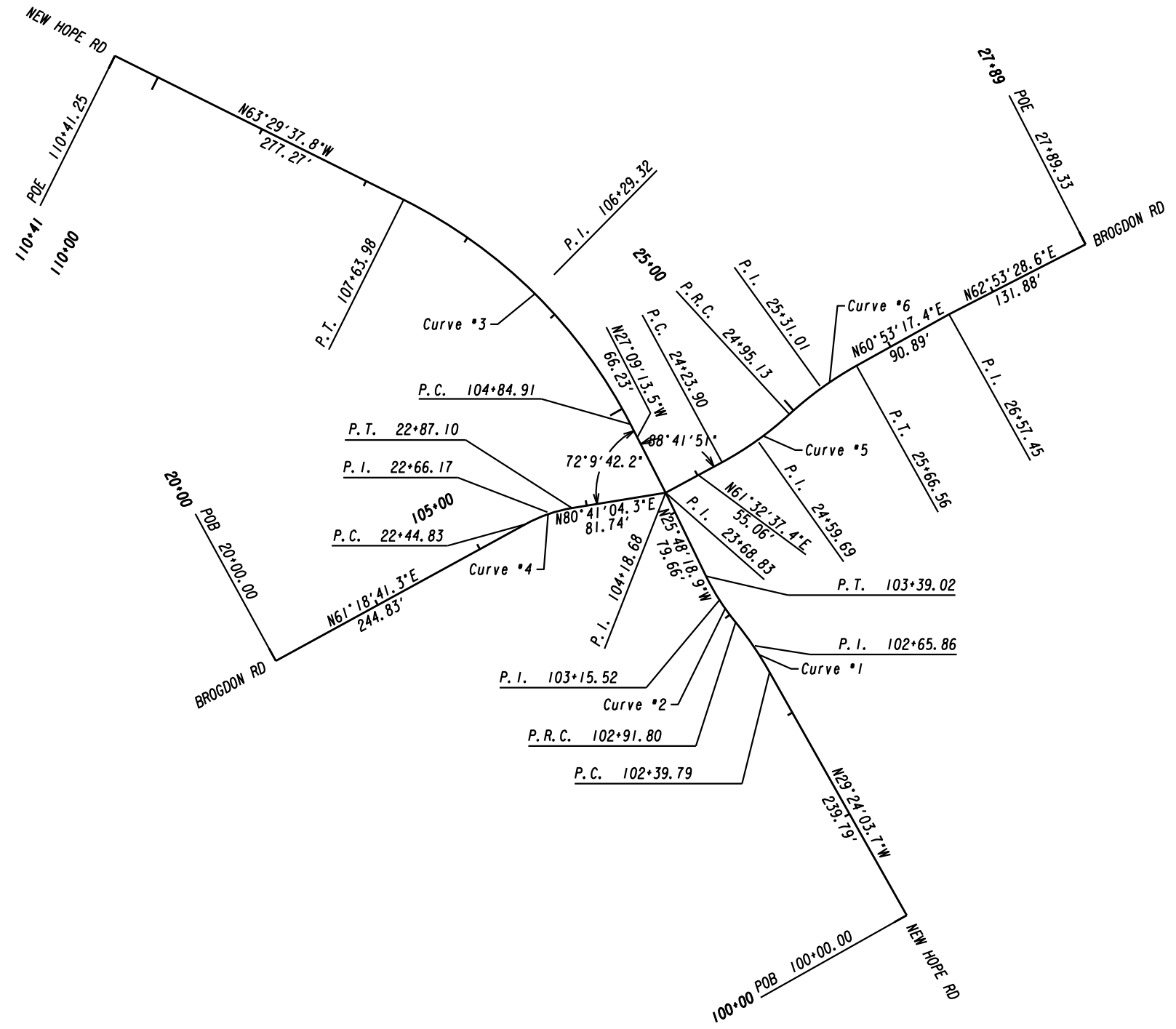
Curve* 2
 PI Sta* 103+15.52
 N* 1270979.4134
 E* 2203236.4096
 DELTA* 13°31'44.5" (RT)
 D* 28°38'52.40"
 T* 23.72
 L* 47.23
 R* 200.00
 E* 1.40

Curve* 3
 PI Sta* 106+29.32
 N* 1271259.9074
 E* 2203095.2756
 DELTA* 36°20'24.3" (LT)
 D* 13°01'18.37"
 T* 144.41
 L* 279.07
 R* 440.00
 E* 23.09
 e* 4.0%

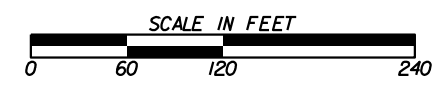
Curve* 4
 PI Sta* 22+66.17
 N* 1271055.8004
 E* 2203089.6921
 DELTA* 19°22'23.0" (RT)
 D* 45°50'11.84"
 T* 21.34
 L* 42.27
 R* 125.00
 E* 1.81

Curve* 5
 PI Sta* 24+59.69
 N* 1271115.7794
 E* 2203271.2903
 DELTA* 14°04'25.7" (LT)
 D* 19°45'25.80"
 T* 35.80
 L* 71.23
 R* 290.00
 E* 2.10

Curve* 6
 PI Sta* 25+31.01
 N* 1271164.2305
 E* 2203324.1097
 DELTA* 13°25'05.7" (RT)
 D* 18°47'07.81"
 T* 35.88
 L* 71.43
 R* 305.00
 E* 2.10



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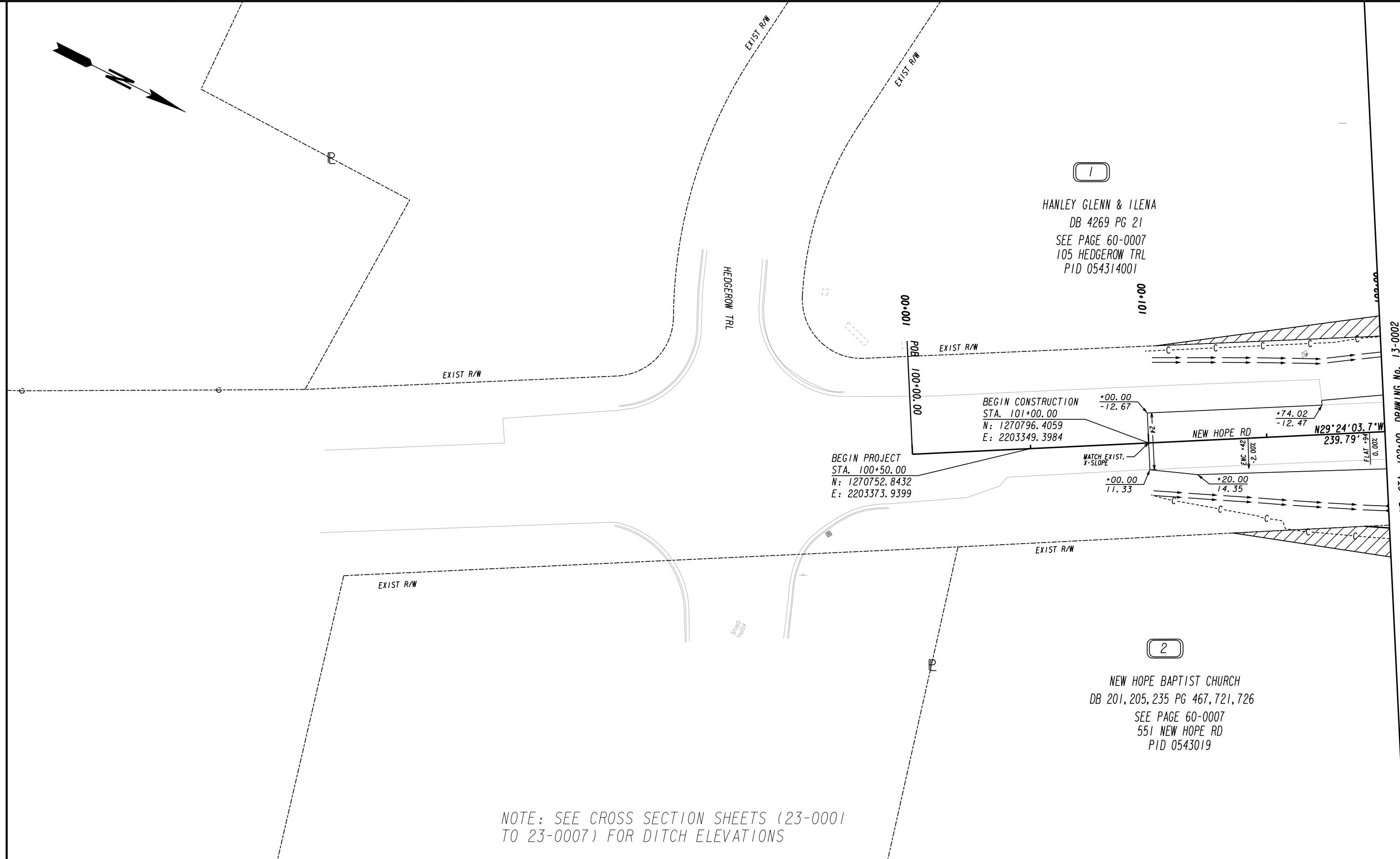
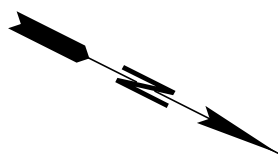
REVISION DATES

NO.	DATE	DESCRIPTION

CONSTRUCTION LAYOUT

BROGDON RD & NEW HOPE RD INTERSECTION

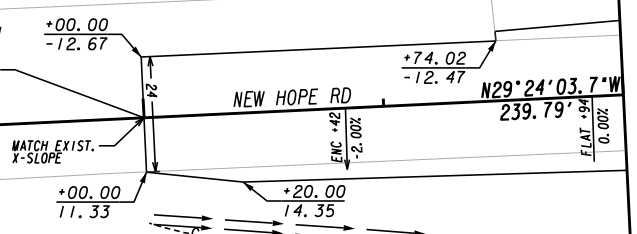
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	11-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



(1)
HANLEY GLENN & ILENA
DB 4269 PG 21
SEE PAGE 60-0007
105 HEDGEROW TRL
PID 054314001

BEGIN PROJECT
STA. 100+50.00
N: 1270752.8432
E: 2203373.9399

BEGIN CONSTRUCTION
STA. 101+00.00
N: 1270796.4059
E: 2203349.3984



(2)
NEW HOPE BAPTIST CHURCH
DB 201, 205, 235 PG 467, 721, 726
SEE PAGE 60-0007
551 NEW HOPE RD
PID 0543019

NOTE: SEE CROSS SECTION SHEETS (23-0001 TO 23-0007) FOR DITCH ELEVATIONS

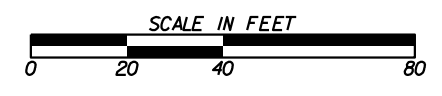
MATCH LINE STA. 102+00 DRAWING No. 13-0002

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

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

CROY ENGINEERING Engineers
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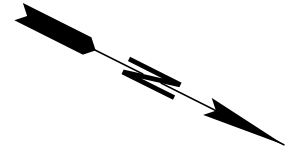
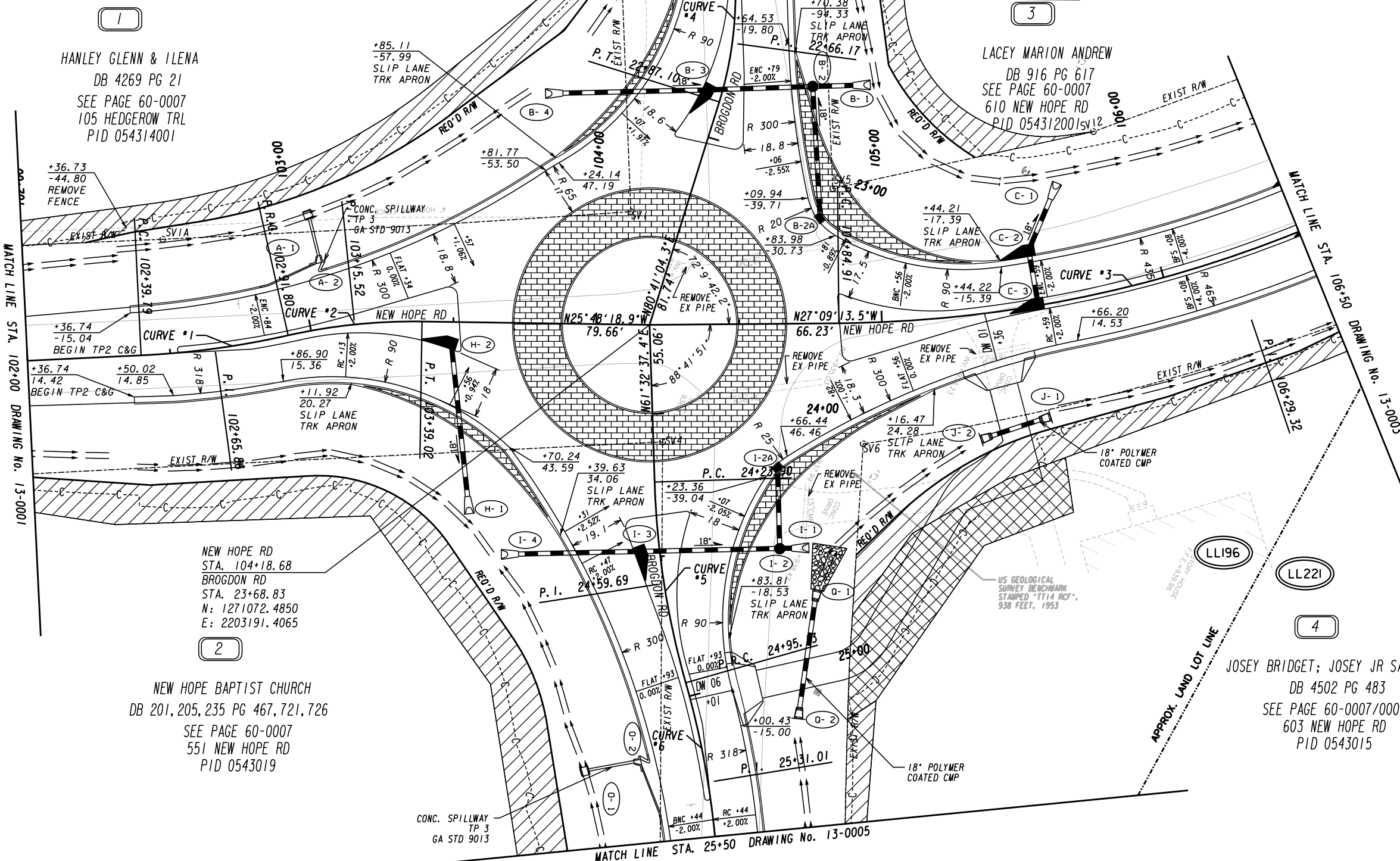


REVISION DATES	

CONSTRUCTION PLAN
BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

MATCH LINE STA. 22+50 DRAWING No. 13-0004



1
 HANLEY GLENN & ILENA
 DB 4269 PG 21
 SEE PAGE 60-0007
 105 HEDGEROW TRL
 PID 054314001

3
 LACEY MARION ANDREW
 DB 916 PG 617
 SEE PAGE 60-0007
 610 NEW HOPE RD
 PID 054312001sv.12

2
 NEW HOPE RD
 STA. 104+18.68
 BROGDON RD
 STA. 23+68.83
 N: 1271072.4850
 E: 2203191.4065

2
 NEW HOPE BAPTIST CHURCH
 DB 201, 205, 235 PG 467, 721, 726
 SEE PAGE 60-0007
 551 NEW HOPE RD
 PID 0543019

4
 JOSEY BRIDGET; JOSEY JR SAMUELE
 DB 4502 PG 483
 SEE PAGE 60-0007/0008
 603 NEW HOPE RD
 PID 0543015

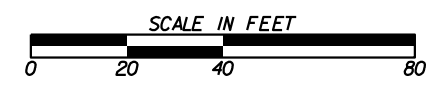
MATCH LINE STA. 25+50 DRAWING No. 13-0005

* FOR SPLITTER ISLAND DIMENSIONS
 SEE SHEET 18-0002

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----g-----
EASEMENT FOR CONSTR	-----h-----
& MAINTENANCE OF SLOPES	-----i-----
EASEMENT FOR CONSTR OF SLOPES	-----j-----
EASEMENT FOR CONSTR OF DRIVES	-----k-----

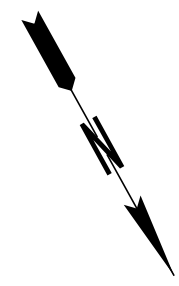
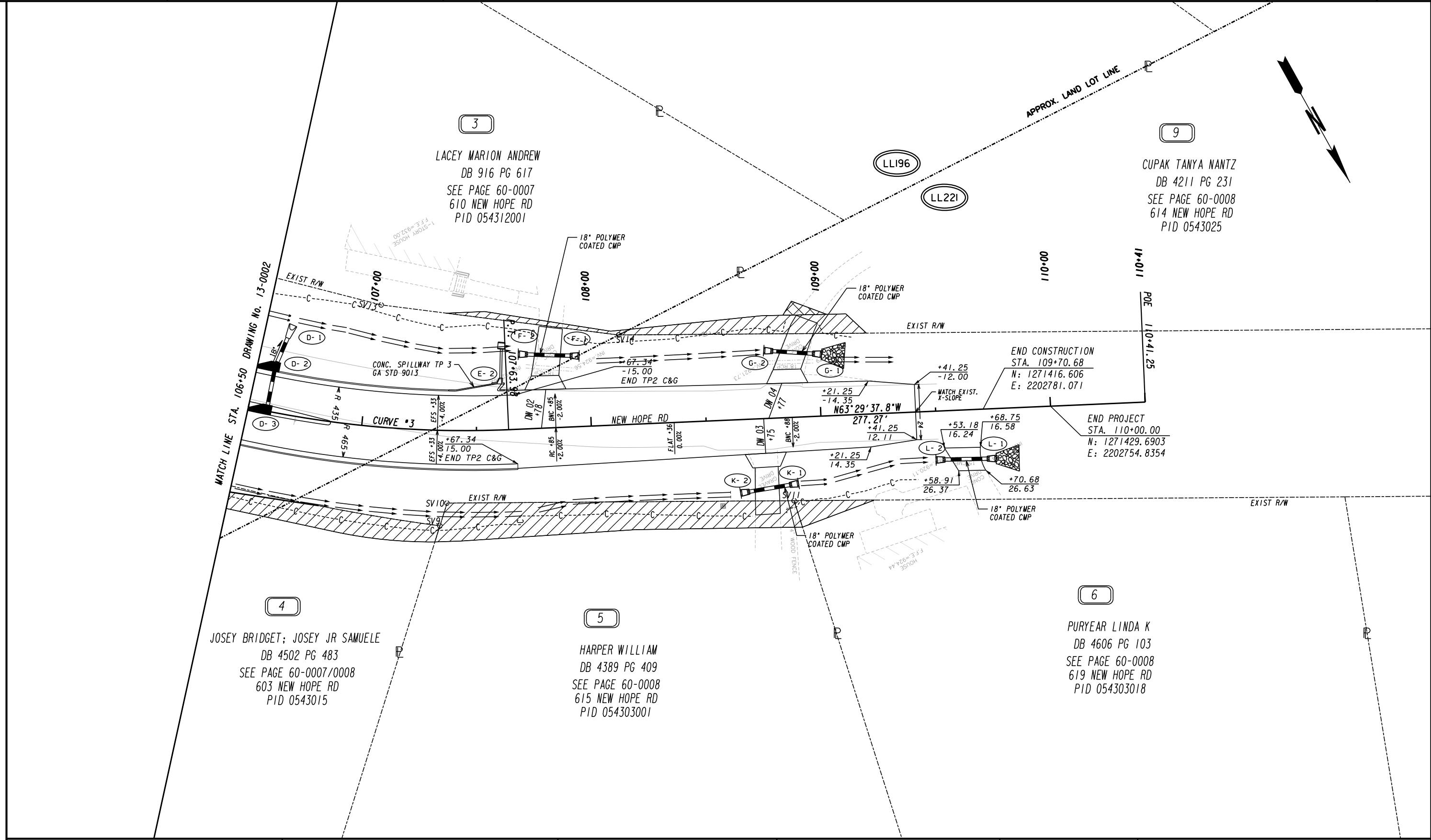
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END LIMIT OF ACCESS.....ELA	-----m-----
LIMIT OF ACCESS	-----n-----
REQ'D R/W & LIMIT OF ACCESS	-----o-----
ORANGE BARRIER FENCE	-----p-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----q-----

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REVISION DATES	

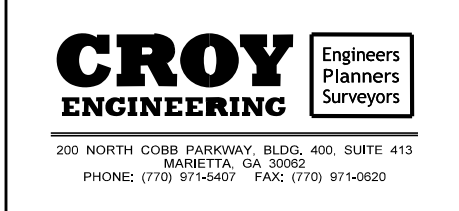
CONSTRUCTION PLAN			
BROGDON RD & NEW HOPE RD INTERSECTION			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	13-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



-----E-----	BEGIN LIMIT OF ACCESS.....BLA
-----F-----	END LIMIT OF ACCESS.....ELA
---C---F---	LIMIT OF ACCESS
[Hatched Box]	REQ'D R/W & LIMIT OF ACCESS
[Diagonal Lines Box]	ORANGE BARRIER FENCE
[Cross-hatched Box]	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

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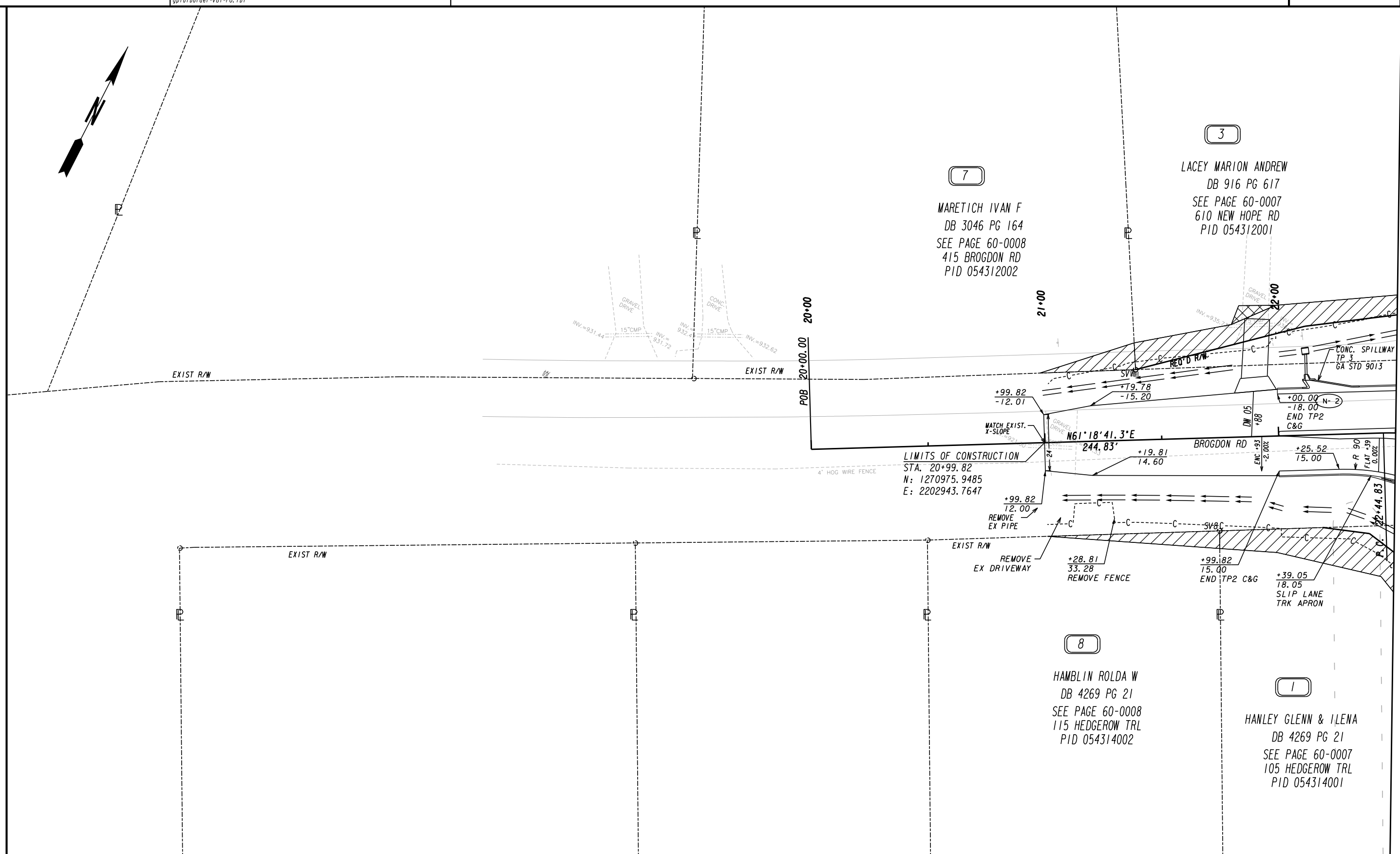
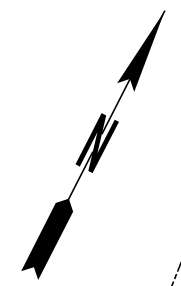
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REVISION DATES	

CONSTRUCTION PLAN
BROGDON RD & NEW HOPE RD INTERSECTION

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



7
MARETICH IVAN F
DB 3046 PG 164
SEE PAGE 60-0008
415 BROGDON RD
PID 054312002

3
LACEY MARION ANDREW
DB 916 PG 617
SEE PAGE 60-0007
610 NEW HOPE RD
PID 054312001

LIMITS OF CONSTRUCTION
STA. 20+99.82
N: 1270975.9485
E: 2202943.7647

8
HAMBLIN ROLDA W
DB 4269 PG 21
SEE PAGE 60-0008
115 HEDGEROW TRL
PID 054314002

1
HANLEY GLENN & ILENA
DB 4269 PG 21
SEE PAGE 60-0007
105 HEDGEROW TRL
PID 054314001

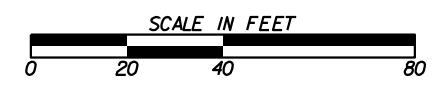
MATCH LINE STA. 22+50 DRAWING No. 13-0002

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

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

CROY ENGINEERING Engineers
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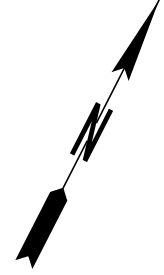
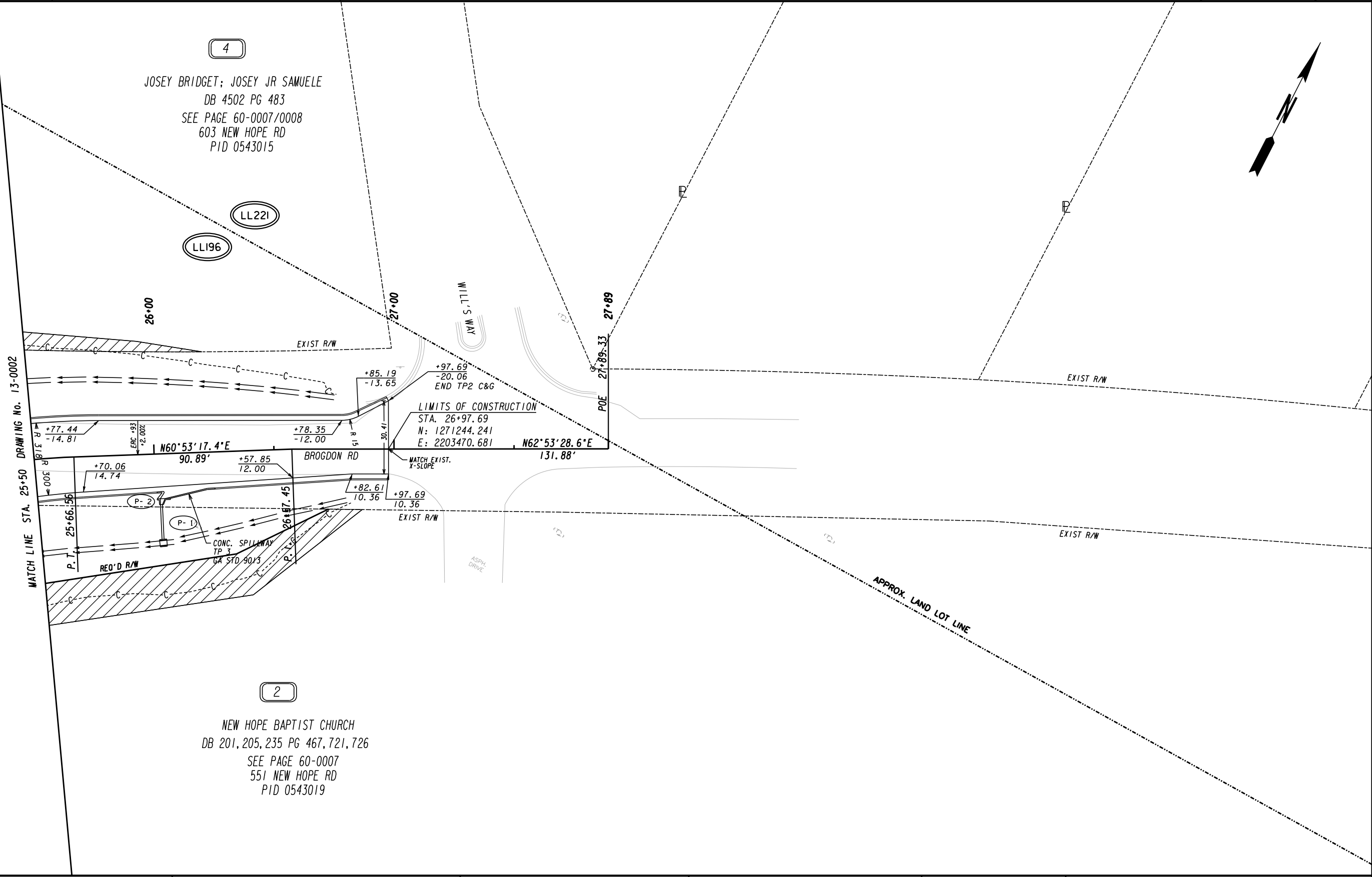
200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
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REVISION DATES	

CONSTRUCTION PLAN
BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

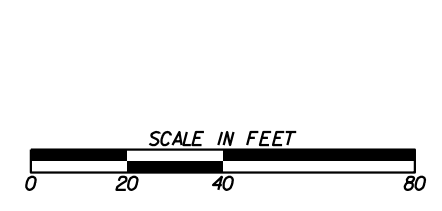


PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Diagonal Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Cross-hatched Box]

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

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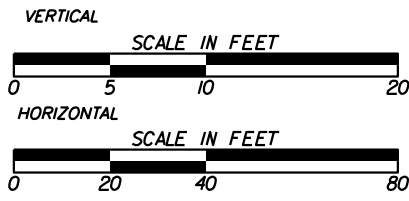
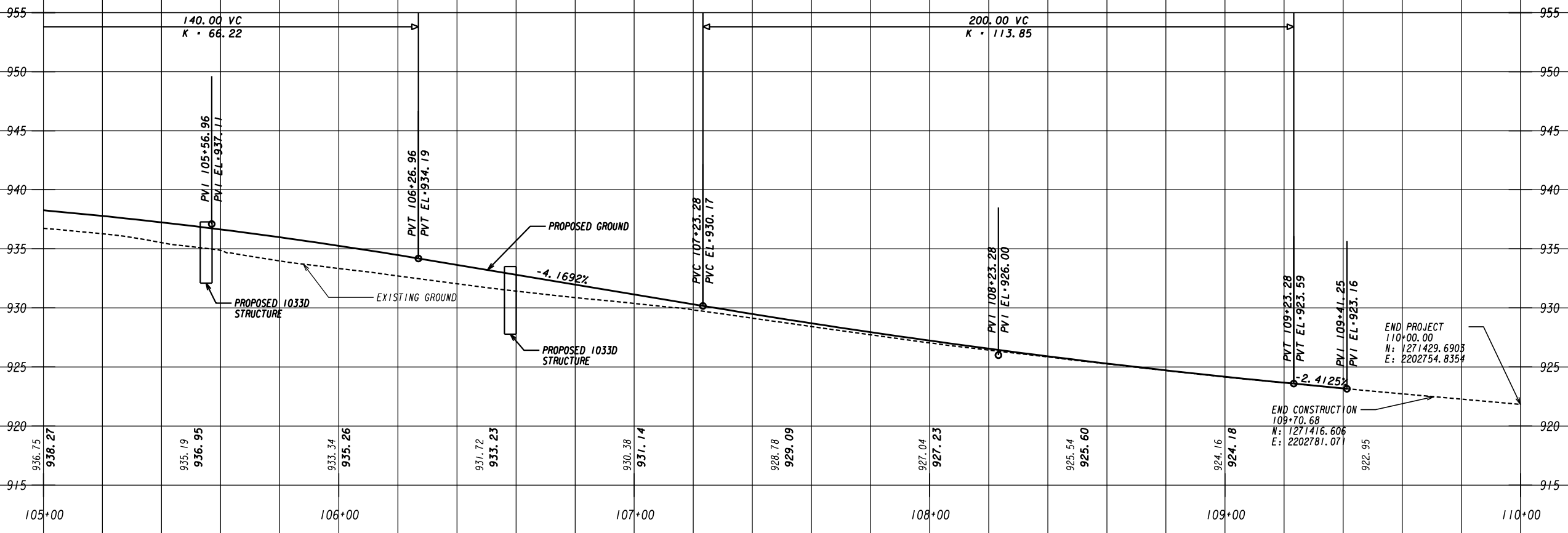
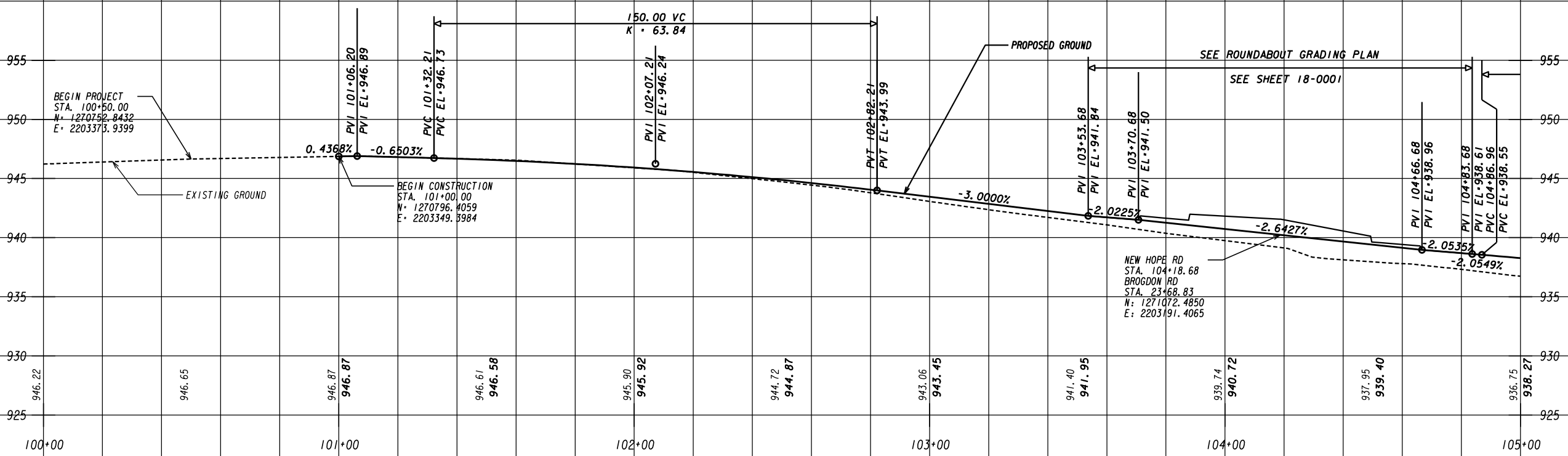
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REVISION DATES	

CONSTRUCTION PLAN
BROGDON RD & NEW HOPE RD INTERSECTION

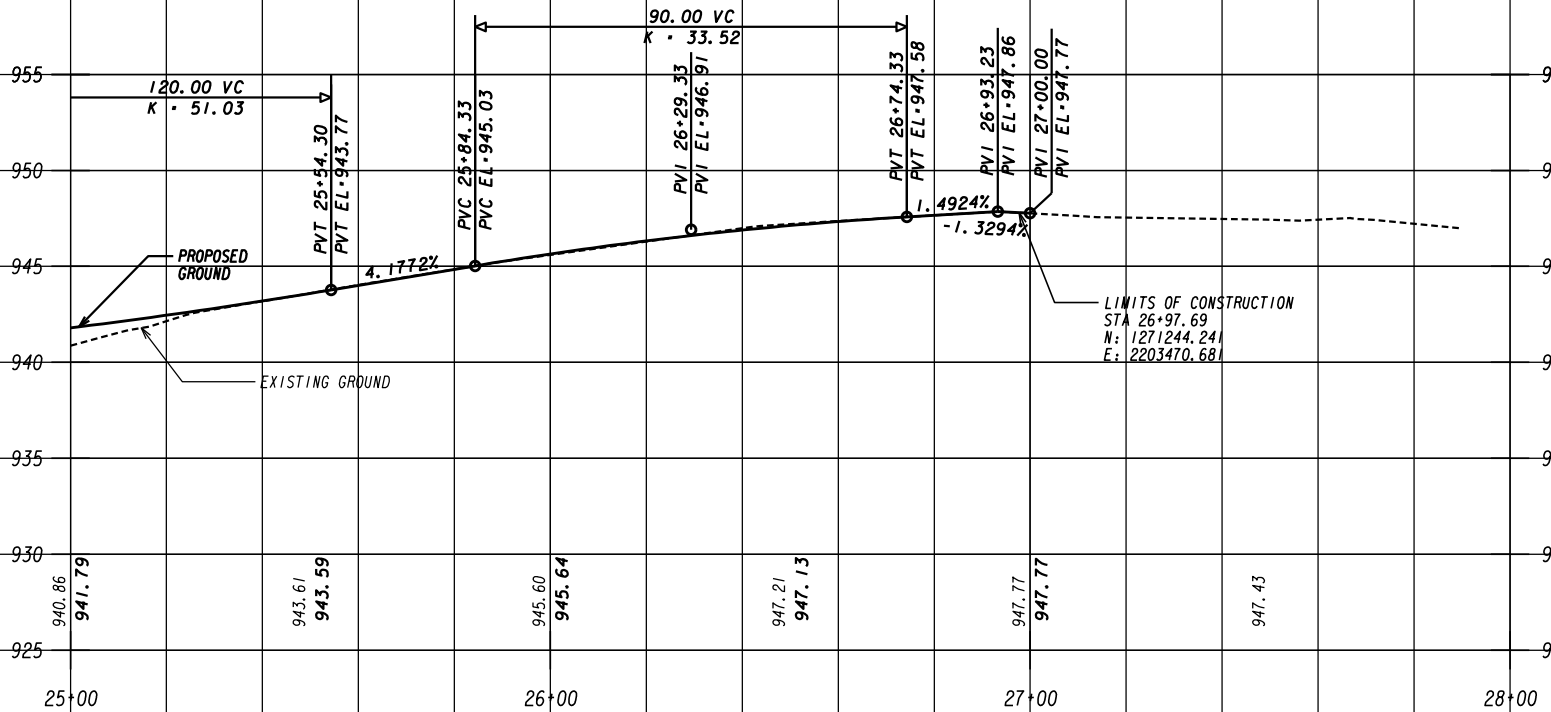
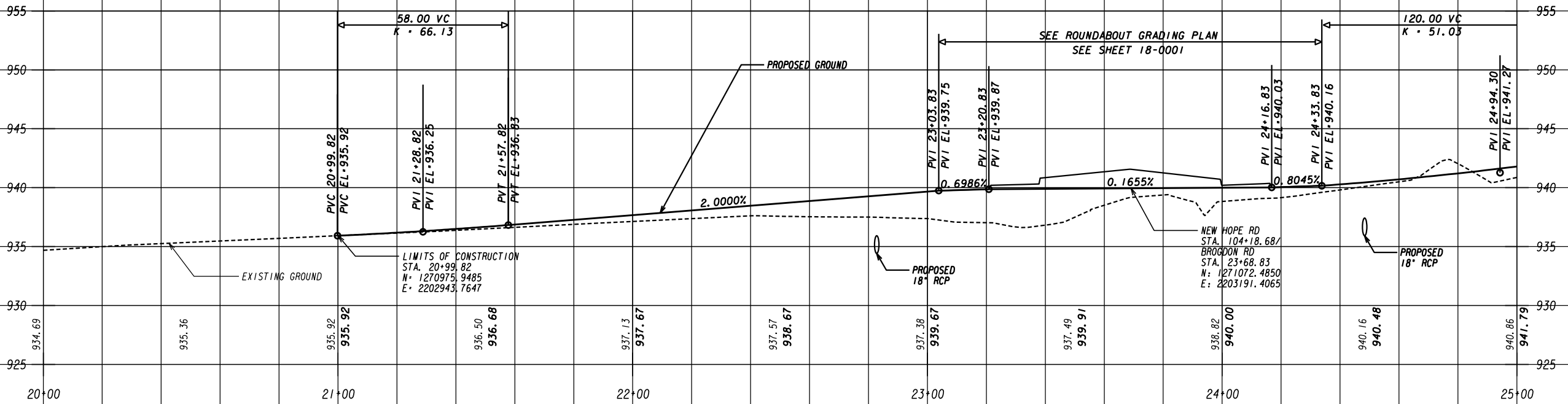
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BACKCHECKED:	DATE:	13-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



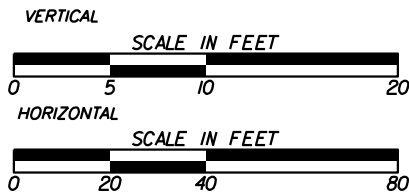
REVISION DATES

MAINLINE PROFILE
BROGDON RD & NEW HOPE RD INTERSECTION
NEW HOPE ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	15-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



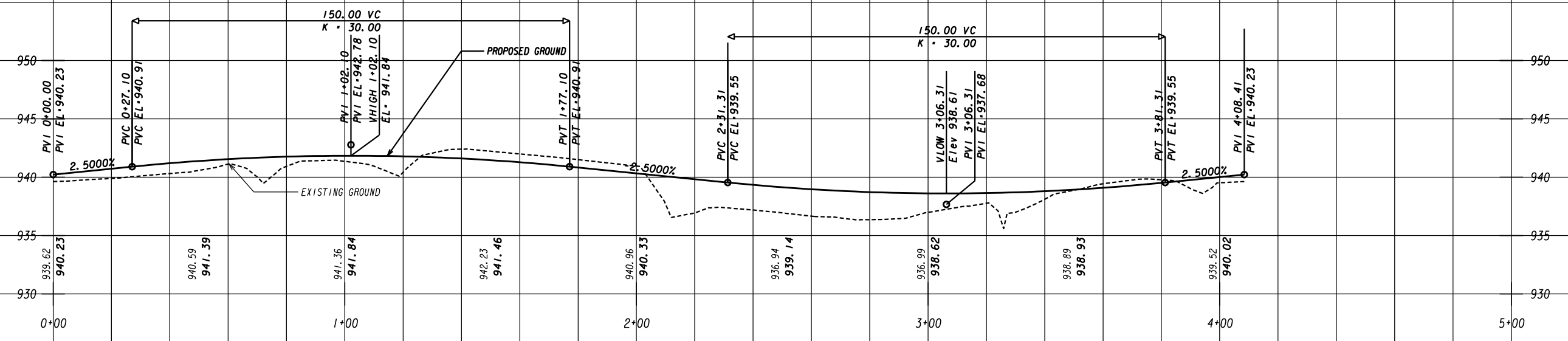
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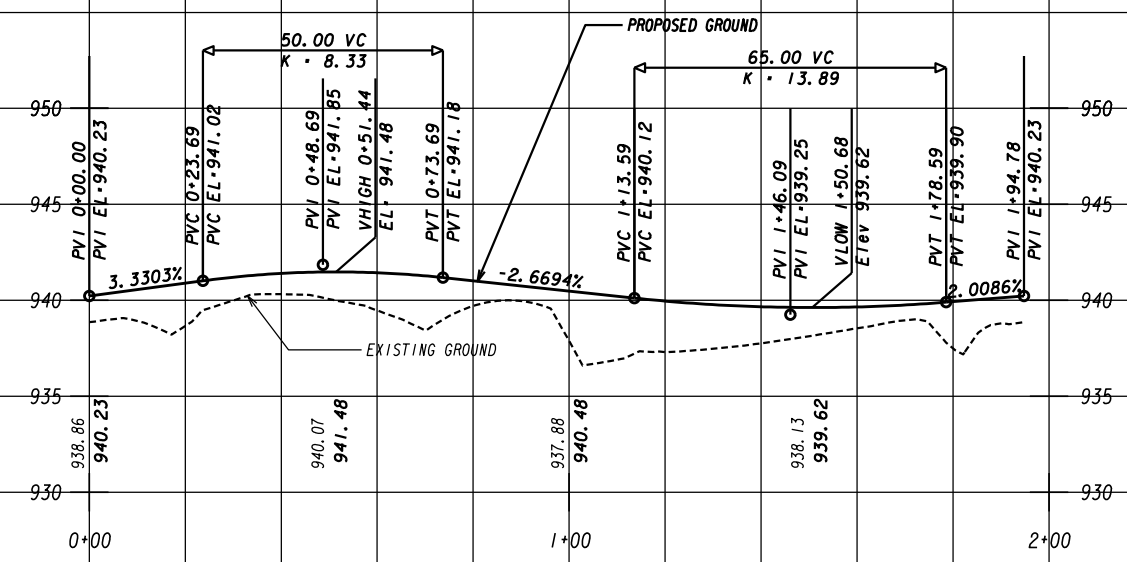
REVISION DATES

CROSSROAD PROFILE
 BROGDON RD & NEW HOPE RD INTERSECTION
 BROGDON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	16-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



ROUNDBOUT INSCRIBED CIRCLE

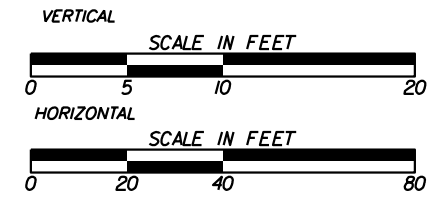


RAISED CENTRAL ISLAND

NOTE: FOR PROFILE PLAN VIEW SEE SHEET 18-0001



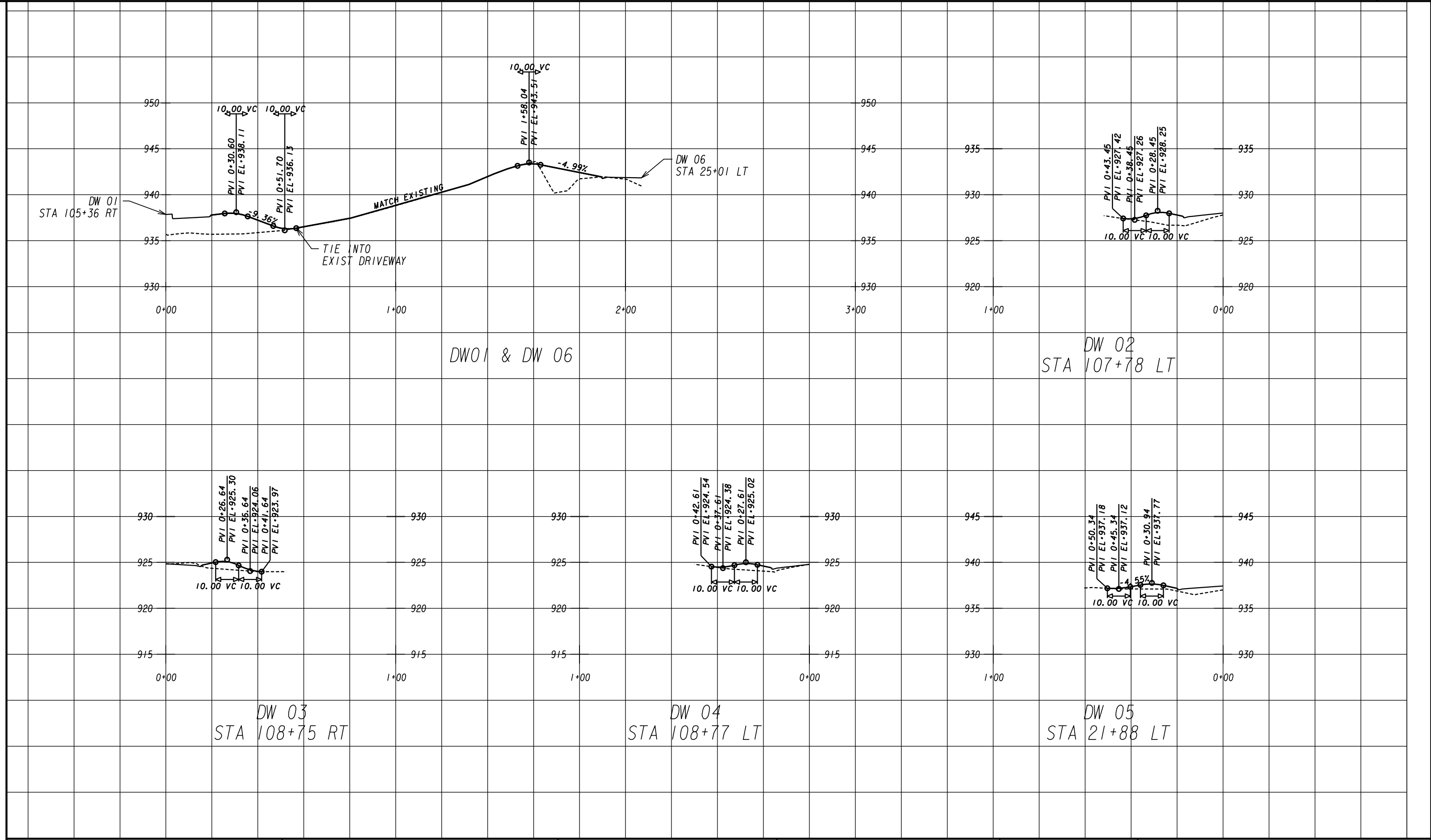
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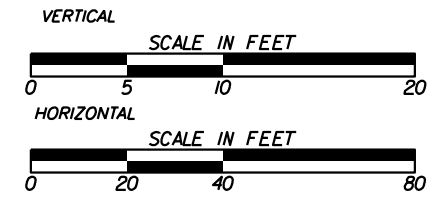
REVISION DATES	

CROSSROAD PROFILE
BROGDON RD & NEW HOPE RD INTERSECTION
INSCRIBED CIRCLE & CENTRAL ISLAND

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	16-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



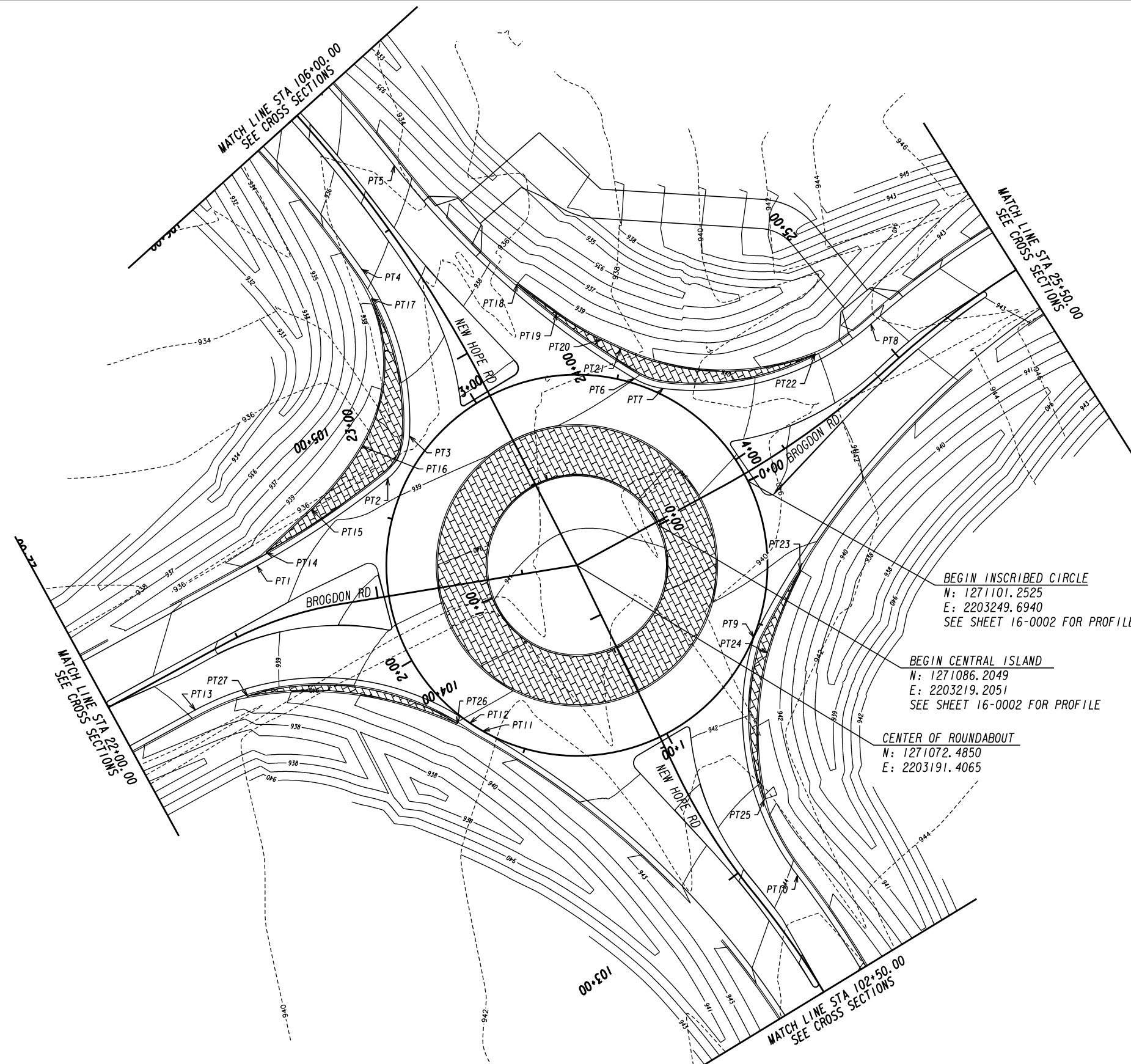
CROY ENGINEERING
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REVISION DATES	

DRIVEWAY PROFILE
 BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	17-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



ROADWAY POINTS				
POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
PT1	EOP	1271072.2593	2203082.2730	938.62
PT2	EOP	1271102.1359	2203126.8665	938.83
PT3	EOP	1271116.5632	2203134.2610	938.63
PT4	EOP	1271173.4051	2203118.0193	936.81
PT5	EOP	1271208.8105	2203129.1246	936.78
PT6	EOP	1271136.1861	2203210.9466	939.00
PT7	EOP	1271132.7901	2203220.7446	939.18
PT8	EOP	1271154.7582	2203291.6592	941.85
PT9	EOP	1271047.8512	2203251.7344	941.48
PT10	EOP	1270966.7892	2203266.5590	944.09
PT11	EOP	1271015.9657	2203159.3041	941.17
PT12	EOP	1271018.6793	2203154.9380	941.06
PT13	EOP	1271023.1310	2203061.2388	938.08
PT14	CURB FACE	1271076.8917	2203085.4428	939.11
PT15	CURB FACE	1271091.4820	2203100.8962	939.32
PT16	CURB FACE	1271113.0186	2203118.1584	939.31
PT17	CURB FACE	1271163.3644	2203121.3090	937.58
PT18	CURB FACE	1271168.2880	2203171.0002	938.69
PT19	CURB FACE	1271158.4268	2203184.4577	938.76
PT20	CURB FACE	1271149.4039	2203199.7281	939.04
PT21	CURB FACE	1271146.3612	2203206.2763	939.21
PT22	CURB FACE	1271144.5938	2203272.5664	941.36
PT23	CURB FACE	1271070.8101	2203267.5106	941.53
PT24	CURB FACE	1271042.6132	2203256.3108	941.98
PT25	CURB FACE	1270992.6429	2203255.3264	943.59
PT26	CURB FACE	1271018.5053	2203150.6154	941.34
PT27	CURB FACE	1271027.8958	2203078.9917	938.96

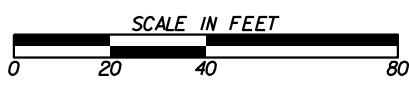
BEGIN INSCRIBED CIRCLE
 N: 1271101.2525
 E: 2203249.6940
 SEE SHEET 16-0002 FOR PROFILE

BEGIN CENTRAL ISLAND
 N: 1271086.2049
 E: 2203219.2051
 SEE SHEET 16-0002 FOR PROFILE

CENTER OF ROUNDABOUT
 N: 1271072.4850
 E: 2203191.4065



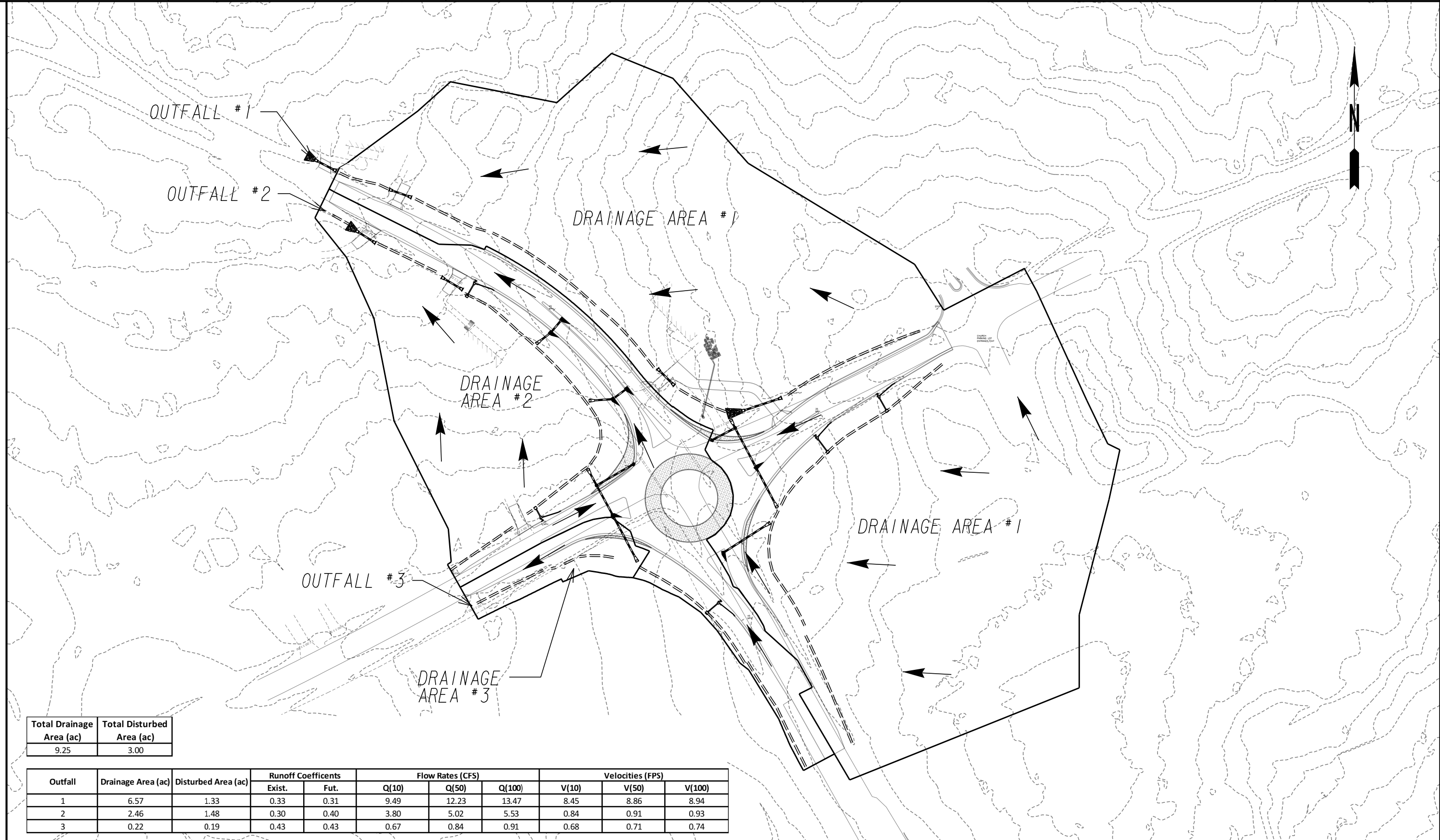
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REVISION DATES

SPECIAL GRADING
 BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		18-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		

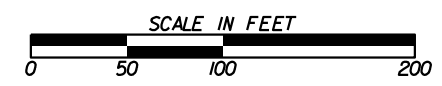


Total Drainage Area (ac)	Total Disturbed Area (ac)
9.25	3.00

Outfall	Drainage Area (ac)	Disturbed Area (ac)	Runoff Coefficients		Flow Rates (CFS)			Velocities (FPS)		
			Exist.	Fut.	Q(10)	Q(50)	Q(100)	V(10)	V(50)	V(100)
1	6.57	1.33	0.33	0.31	9.49	12.23	13.47	8.45	8.86	8.94
2	2.46	1.48	0.30	0.40	3.80	5.02	5.53	0.84	0.91	0.93
3	0.22	0.19	0.43	0.43	0.67	0.84	0.91	0.68	0.71	0.74

CROY ENGINEERING Engineers
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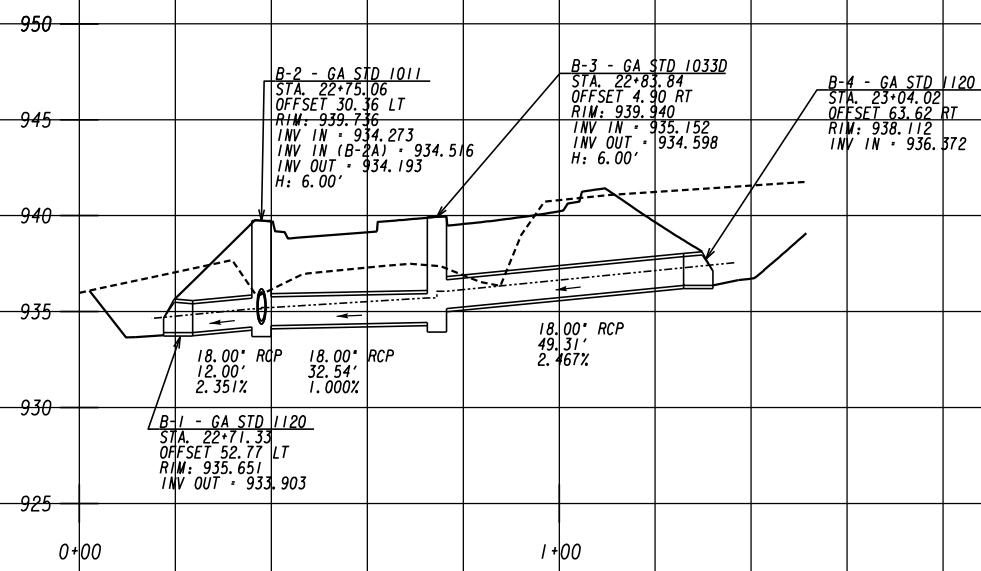
REVISION DATES

NO.	DATE	DESCRIPTION

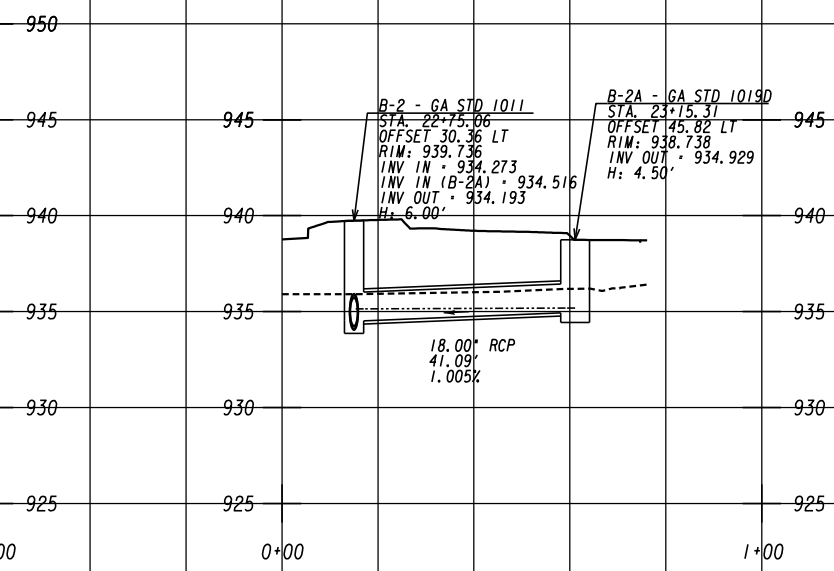
DRAINAGE AREA MAP

BROGDON RD & NEW HOPE RD INTERSECTION

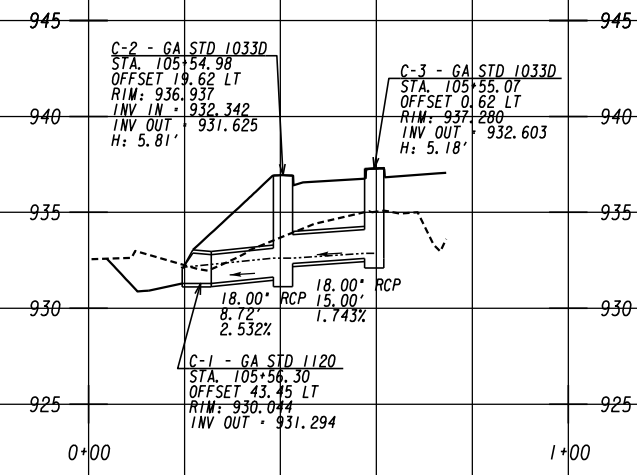
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VERIFIED:	DATE:	



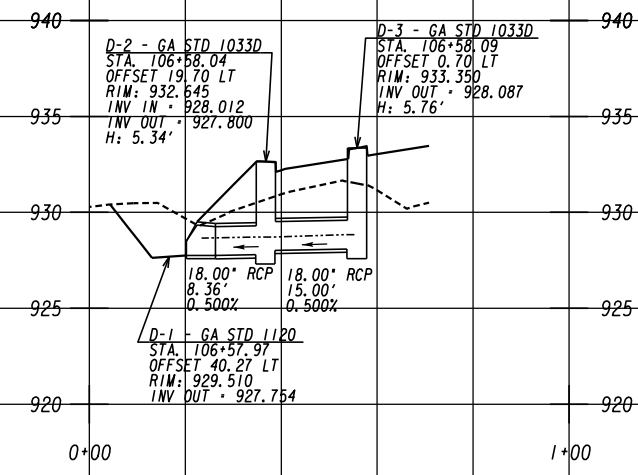
B-1 < B-4



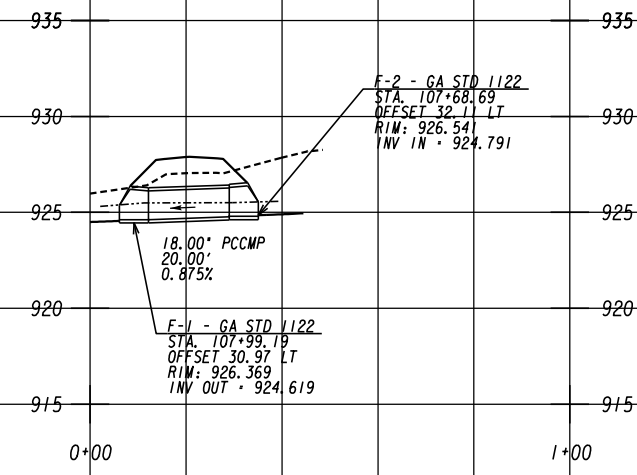
B-2 < B-2A



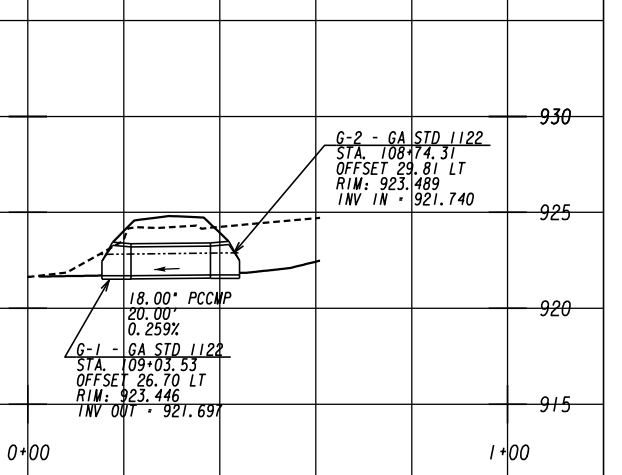
C-1 < C-3



D-1 < D-3

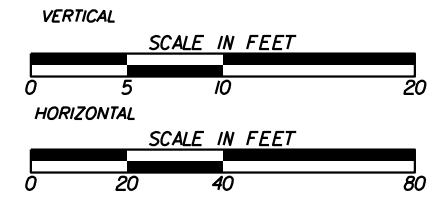


F-1 < F-2



G-1 < G-2

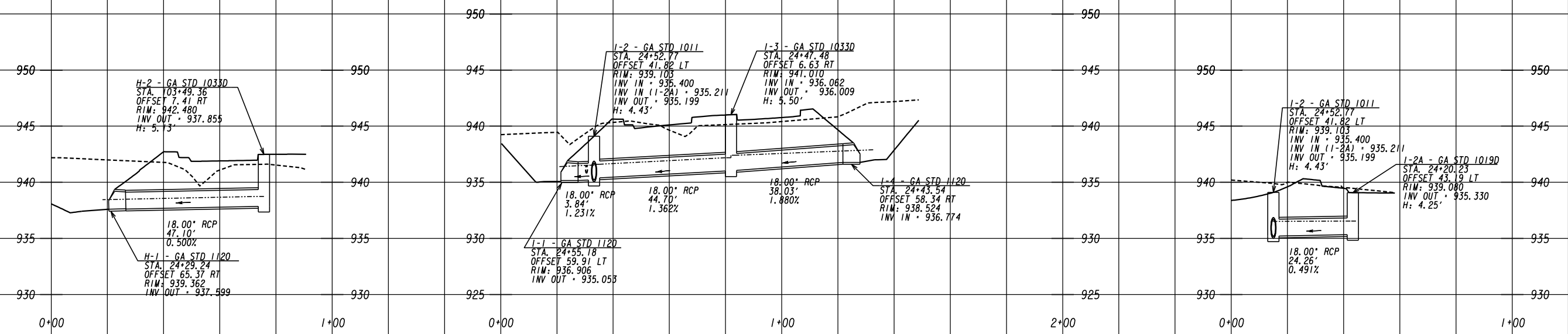
CROY ENGINEERING Engineers Planners Surveyors
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REVISION DATES

DRAINAGE PROFILES
BROGDON RD & NEW HOPE RD INTERSECTION

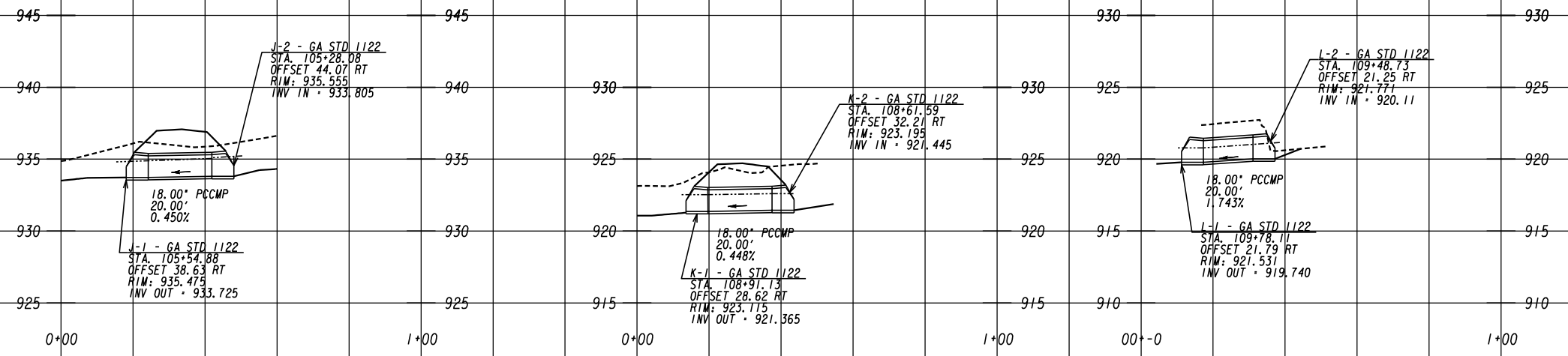
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	22-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



H-1 < H-2

I-1 < I-4

I-2 < I-2A

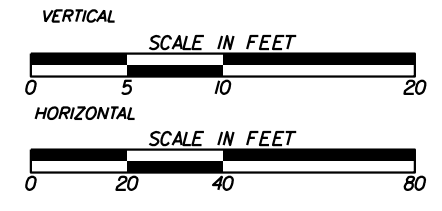


J-1 < J-2

K-1 < K-2

L-1 < L-2

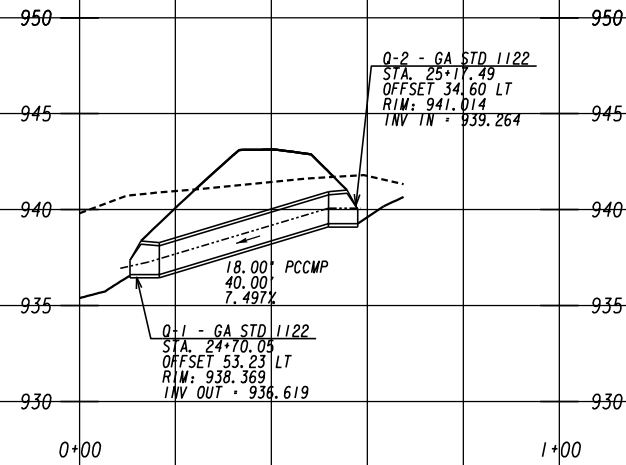
NOTE: 18" PCCMP TO REPLACE EXIST 15" CMP AT EXIST INVERTS. PROFILE FOR INFORMATIONAL PURPOSES ONLY



REVISION DATES

DRAINAGE PROFILES
 BROGDON RD & NEW HOPE RD INTERSECTION

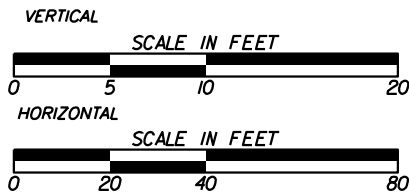
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	22-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Q-1 < Q-2

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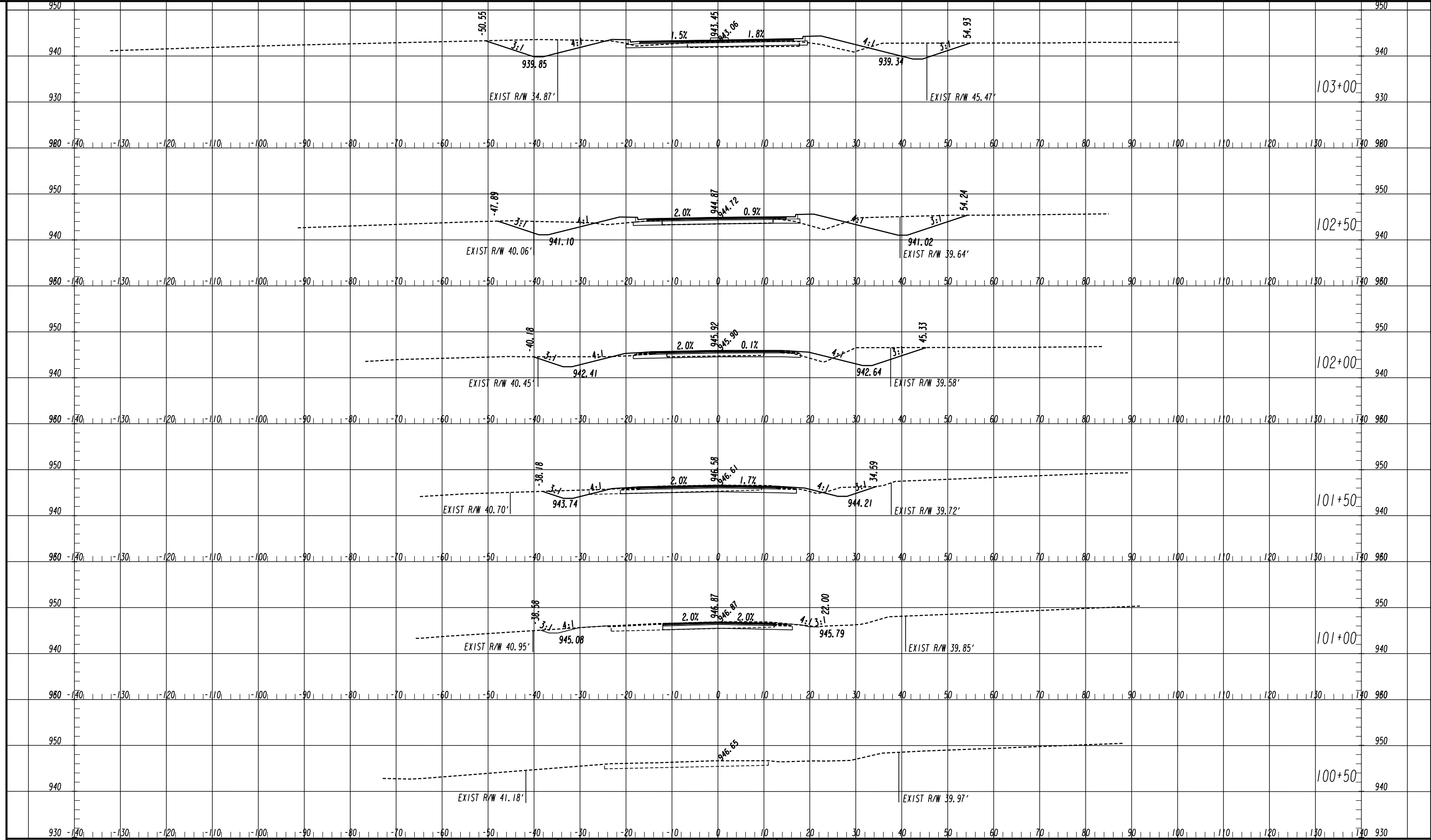
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REVISION DATES

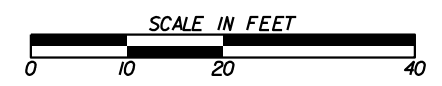
DRAINAGE PROFILES
 BROGDON RD & NEW HOPE RD INTERSECTION

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BACKCHECKED:	DATE:	22-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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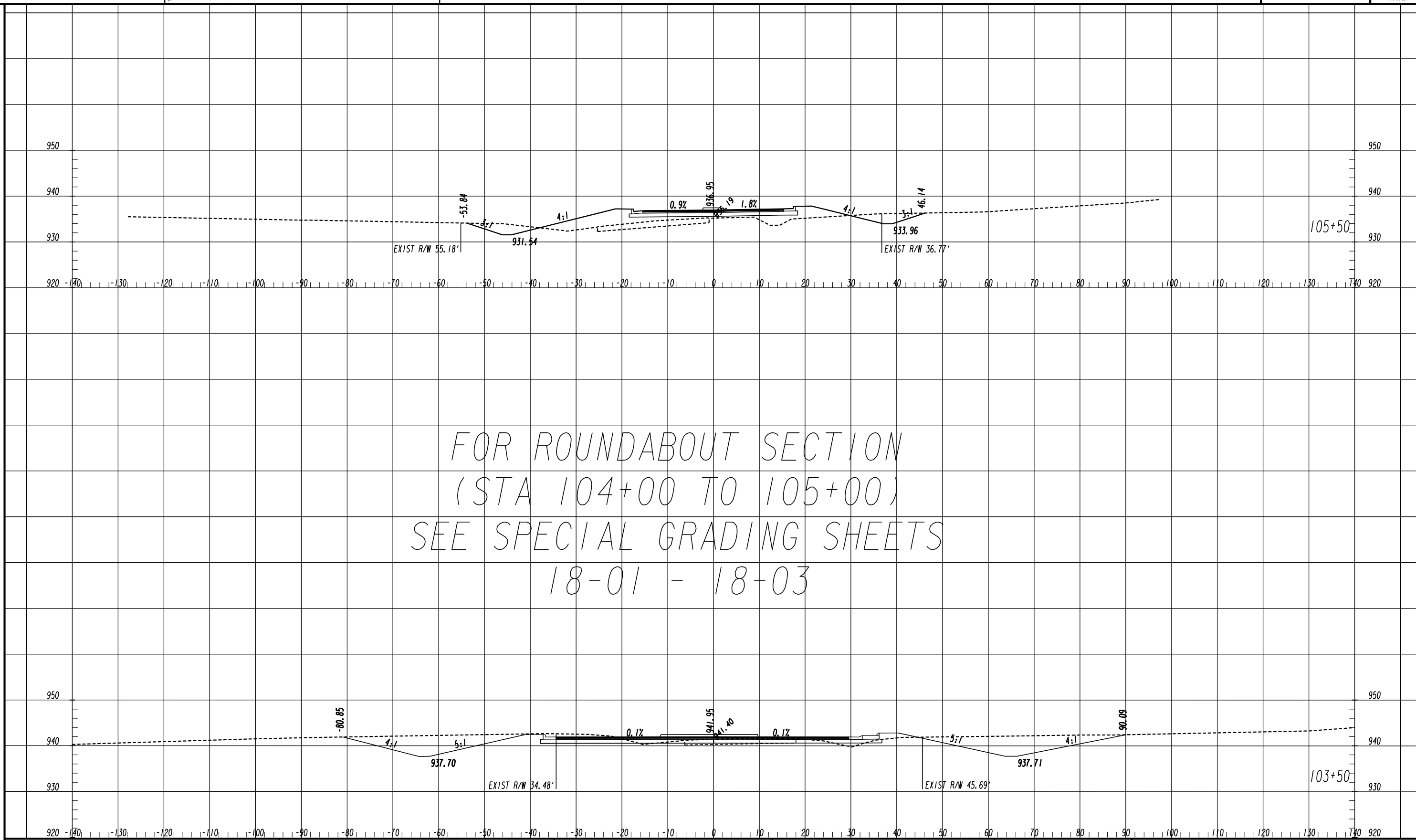


REVISION DATES

CROSS SECTIONS

BROGDON RD & NEW HOPE RD INTERSECTION
 NEW HOPE ROAD

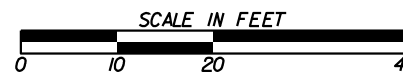
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BACKCHECKED:		DATE:		23-0001
CORRECTED:		DATE:		
VERIFIED:		DATE:		



FOR ROUNDABOUT SECTION
 (STA 104+00 TO 105+00)
 SEE SPECIAL GRADING SHEETS
 18-01 - 18-03

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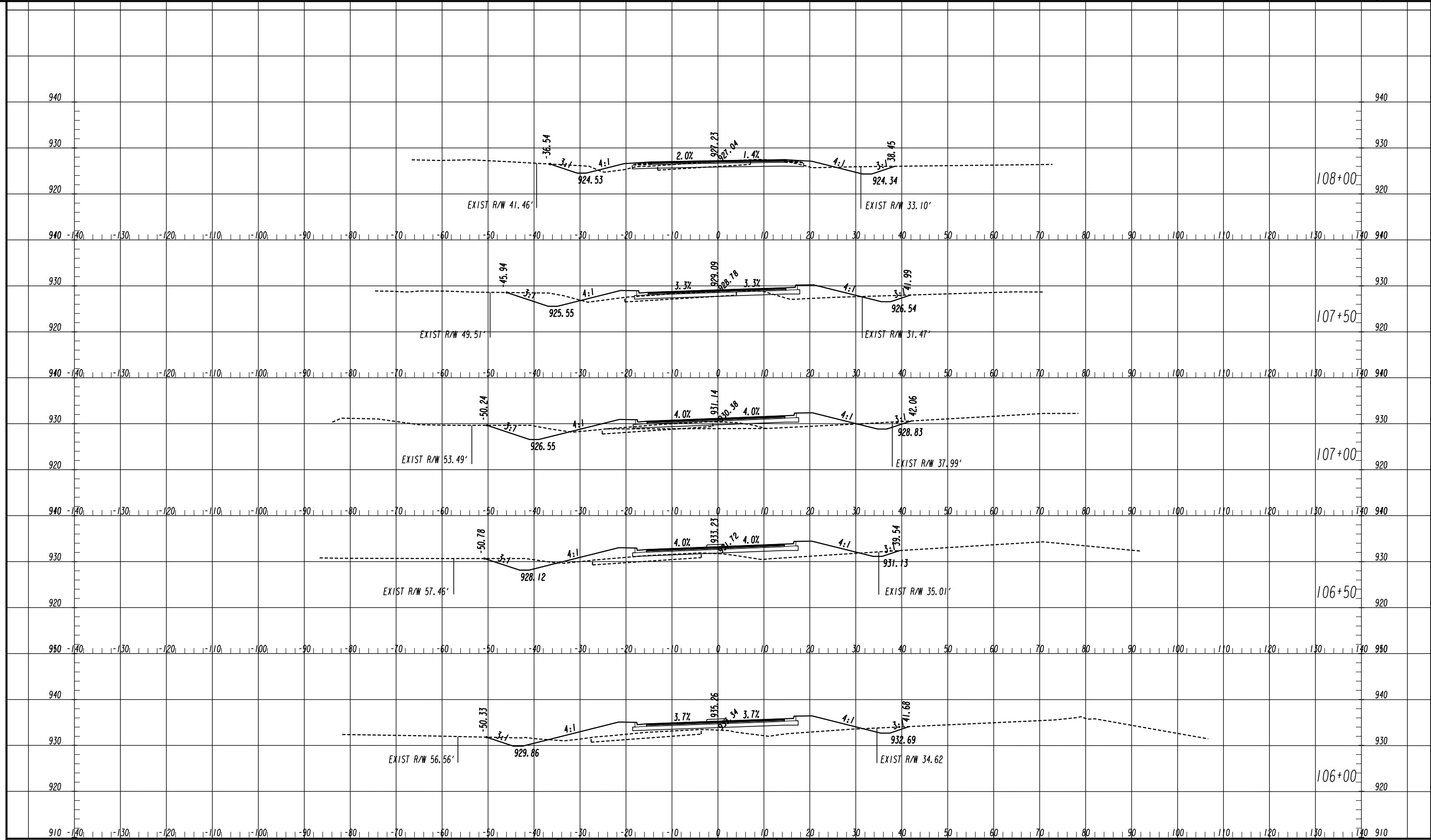
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REVISION DATES

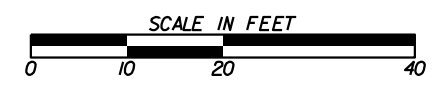
CROSS SECTIONS
 BROGDON RD & NEW HOPE RD INTERSECTION
 NEW HOPE ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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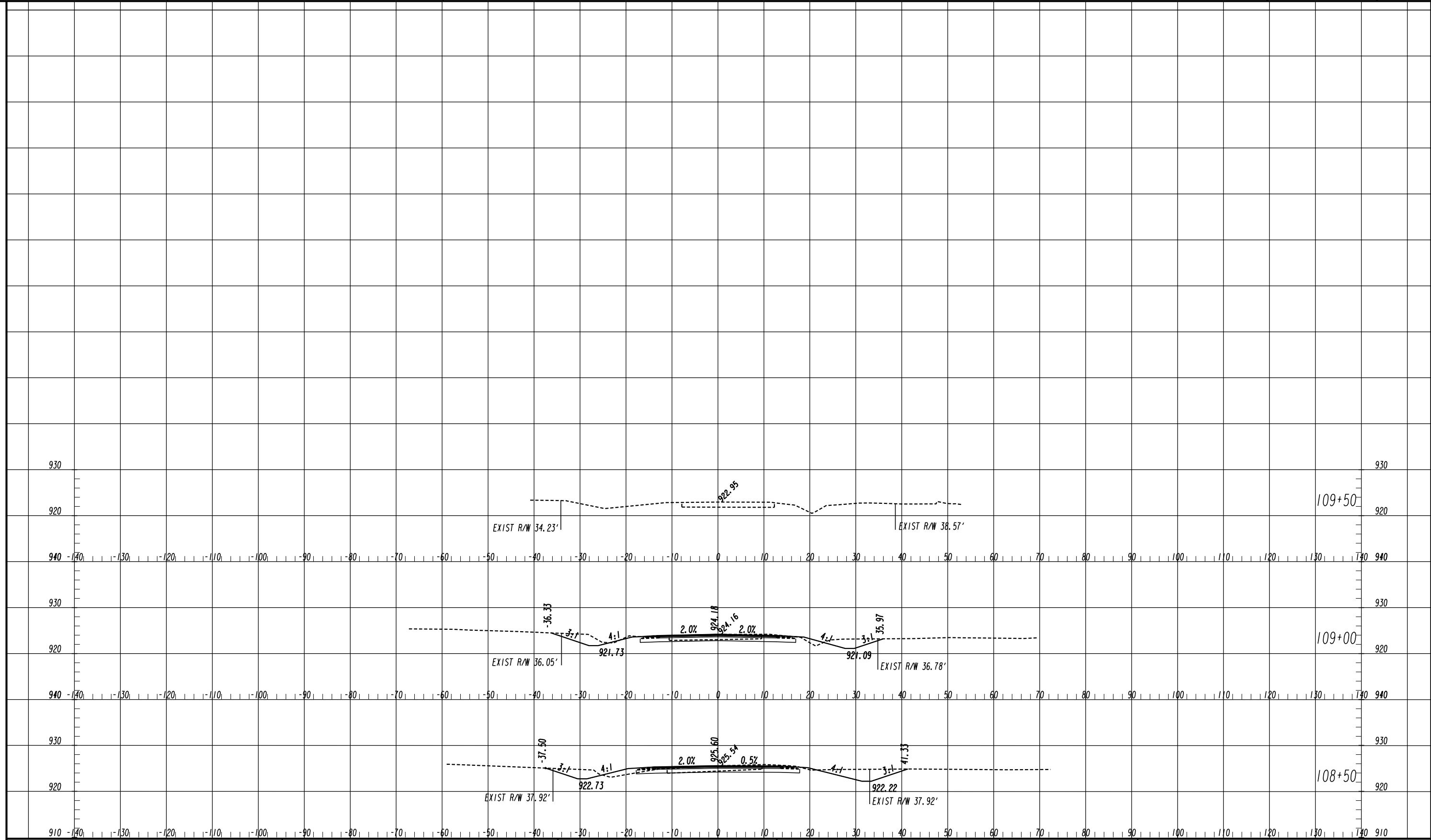
REVISION DATES

NO.	DATE	DESCRIPTION

CROSS SECTIONS

BROGDON RD & NEW HOPE RD INTERSECTION
 NEW HOPE ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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REVISION DATES

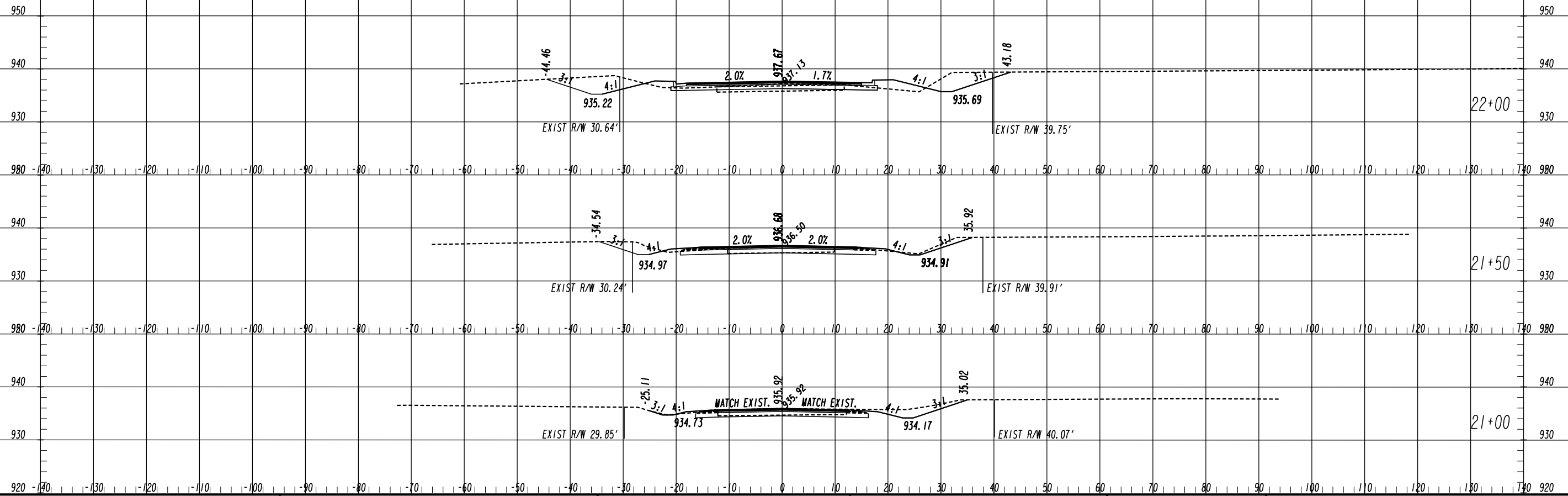
NO.	DATE	DESCRIPTION

CROSS SECTIONS

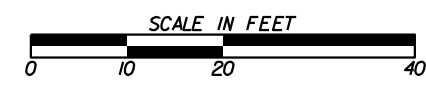
BROGDON RD & NEW HOPE RD INTERSECTION
 NEW HOPE ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

FOR ROUNDABOUT SECTION
(STA 22+50 TO 24+00)
SEE SPECIAL GRADING SHEETS
18-01 - 18-03



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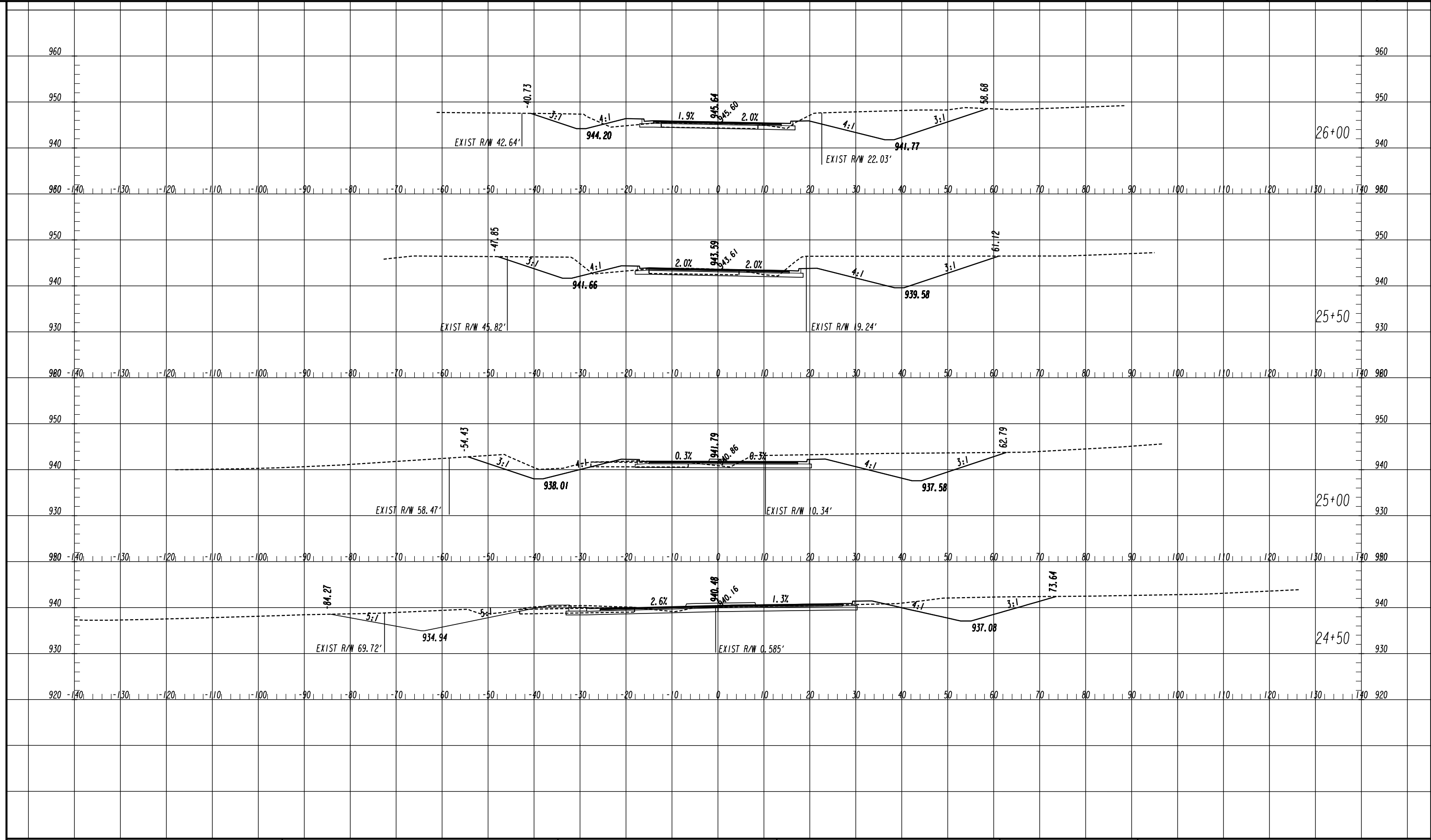
REVISION DATES

NO.	DATE	DESCRIPTION

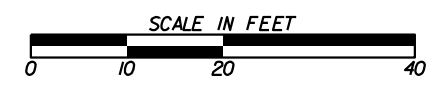
CROSS SECTIONS

BROGDON RD & NEW HOPE RD INTERSECTION
BROGDON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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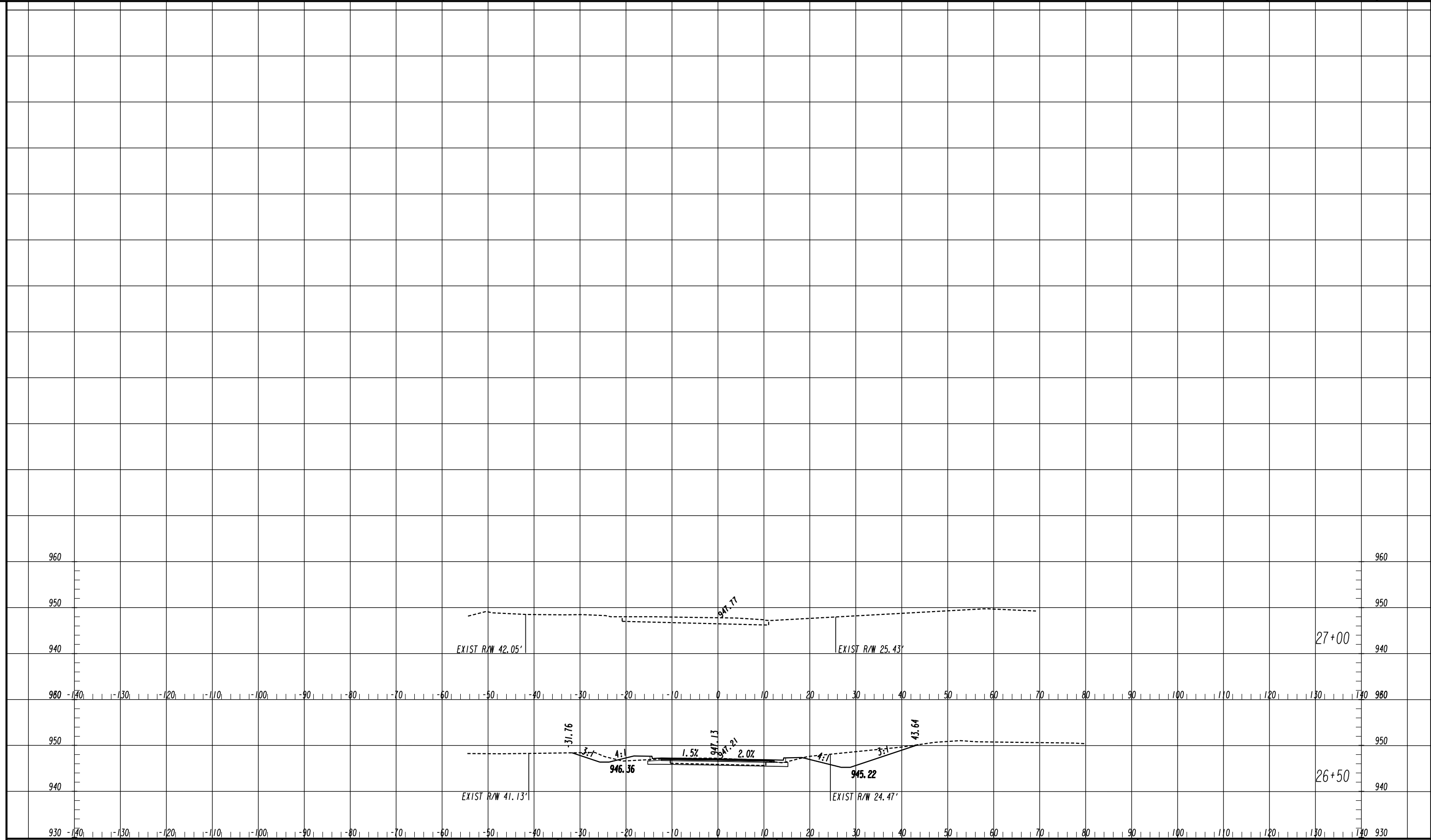
REVISION DATES

NO.	DATE	DESCRIPTION

CROSS SECTIONS

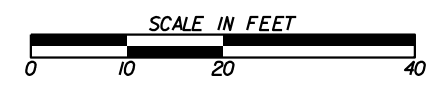
BROGDON RD & NEW HOPE RD INTERSECTION
BROGDON ROAD

CHECKED:	DATE:	DRAWING No.
		23-0006
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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REVISION DATES	

CROSS SECTIONS
BROGDON RD & NEW HOPE RD INTERSECTION
BROGDON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0007
CORRECTED:	DATE:	
VERIFIED:	DATE:	

UTILITY LINECODES

EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
			ELECTRIC
			ELECTRIC/TELECOMMUNICATIONS
			ELECTRIC/CABLE TV
			ELECTRIC/TRAFFIC CONTROL
			ELECTRIC/TELECOMMUNICATIONS/CABLE TV
			ELECTRIC/TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
			ELECTRIC/CABLE TV/TRAFFIC CONTROL
			ELECTRIC/TELECOMMUNICATIONS/TRAFFIC CONTROL
			GUY WIRE
			TELECOMMUNICATIONS
			TELECOMMUNICATIONS/TRAFFIC CONTROL
			TELECOMMUNICATIONS/CABLE TV/TRAFFIC CONTROL
			TELECOMMUNICATIONS/CABLE TV
			CABLE TV
			CABLE TV/TRAFFIC CONTROL
			TRAFFIC CONTROL
			ELECTRIC (OL-D)
			ELECTRIC (OL-C)
			ELECTRIC (OL-B)
			TELECOMMUNICATIONS (OL-D)
			TELECOMMUNICATIONS (OL-C)
			TELECOMMUNICATIONS (OL-B)
			CABLE TV (OL-D)
			CABLE TV (OL-C)
			CABLE TV (OL-B)
			WATER (OL-D)
			WATER (OL-C)
			WATER (OL-B)
			WATER FOR LABELED PIPE SIZES (OL-D)
			WATER FOR LABELED PIPE SIZES (OL-C)
			WATER FOR LABELED PIPE SIZES (OL-B)
			NON-POTABLE WATER (OL-D)
			NON-POTABLE WATER (OL-C)
			NON-POTABLE WATER (OL-B)
			NON-POTABLE WATER FOR LABELED PIPE SIZES (OL-D)
			NON-POTABLE WATER FOR LABELED PIPE SIZES (OL-C)
			NON-POTABLE WATER FOR LABELED PIPE SIZES (OL-B)
			STEAM (OL-D)
			STEAM (OL-C)
			STEAM (OL-B)
			STEAM FOR LABELED PIPE SIZES (OL-D)
			STEAM FOR LABELED PIPE SIZES (OL-C)
			STEAM FOR LABELED PIPE SIZES (OL-B)
			SANITARY SEWER WITH FLOW DIRECTION (OL-D)
			SANITARY SEWER WITH FLOW DIRECTION (OL-C)
			SANITARY SEWER WITH FLOW DIRECTION (OL-B)
			SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (OL-D)
			SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (OL-C)
			SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES (OL-B)
			SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (OL-D)
			SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (OL-C)
			SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION (OL-B)
			GAS (OL-D)
			GAS (OL-C)
			GAS (OL-B)
			GAS FOR LABELED PIPE SIZES (OL-D)
			GAS FOR LABELED PIPE SIZES (OL-C)
			GAS FOR LABELED PIPE SIZES (OL-B)
			PETROLEUM (OL-D)
			PETROLEUM (OL-C)
			PETROLEUM (OL-B)
			PETROLEUM FOR LABELED PIPE SIZES (OL-D)
			PETROLEUM FOR LABELED PIPE SIZES (OL-C)
			PETROLEUM FOR LABELED PIPE SIZES (OL-B)
			TRAFFIC CONTROL (OL-D)
			TRAFFIC CONTROL (OL-C)
			TRAFFIC CONTROL (OL-B)
			UNKNOWN UTILITY FOUND IN SUE INVESTIGATION (OL-B)

FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS

UTILITY SYMBOLS

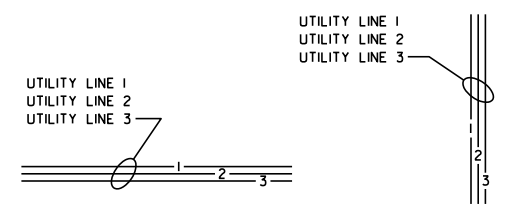
EXISTING	PROPOSED	TEMPORARY	EXISTING	PROPOSED	TEMPORARY

FOR PROPOSED/TEMPORARY TRAFFIC CONTROL INFORMATION REFER TO TRAFFIC SIGNAL PLANS

MISCELLANEOUS

	LIMITS OF OVERHEAD AND SUBSURFACE UTILITY INVESTIGATION
	TEST HOLE (OL-A ONLY)
	END OF INFORMATION
	QUALITY LEVEL (OL) DELINEATION
	POLE ID
	SANITARY SEWER MANHOLE (SSMH) ID
	CONFLICT LOCATION (UTILITY IMPACT ANALYSIS (UIA) ONLY)
	END OF UTILITY

MULTI-UTILITY IDENTIFICATION



ABBREVIATIONS

MH	MANHOLE	SD	SPLIT DUCT	CONC	CONCRETE
SVC	SERVICE, UNKNOWN SIZE/TYPE	DBC	DIRECT BURIED CABLE	APPROX.	APPROXIMATE
UNK	UNKNOWN SIZE/TYPE	DIP	DUCTILE IRON PIPE	S/L	SITE LIGHT
UNK	UNKNOWN SIZE	PIP	CAST IRON PIPE	UNK	UNKNOWN SIZE/TYPE
ABAND.	ABANDONED	RCP	REINFORCED CONCRETE PIPE	CS	COSTED STEEL
IRR.	IRRIGATION, UNKNOWN SIZE/TYPE	TCP	TERRA COTTA PIPE	STV	SIDE TURN VALVE
ICV	IRRIGATION CONTROL VALVE	ACP	ASBESTOS CONCRETE PIPE	ARV	AIR RELEASE VALVE
ICB	IRRIGATION CONTROL BOX	VCP	VITRIFIED CLAY PIPE	MJ	MECHANICAL JOINT, TYPE OF DUCTILE IRON
FOC	FIBER OPTIC CABLE	PE	POLYETHYLENE	LSL	LANDSCAPE LIGHT
PR	TELEPHONE PAIR SIZE	PVC	POLY VINYL CHLORIDE		
STR	FIBER STRAND SIZE	GRND	GROUND WIRE		
STD	SINGLE TILE DUCT	3PH	3 PHASE		
MTD	MULTIPLE TILE DUCT	PVT	PRIVATE		
MCD	MULTIPLE CONCRETE DUCT	GALV	GALVANIZED		
TRD	TRANSITE (ASBESTOS) DUCT	TRAN	TRANSITE		
SCPD	SINGLE CREOSOTE PINE DUCT	PLA	PLASTIC		
LCP	LINED CYLINDER PIPE	ATMS	AUTOMATED TRAFFIC MANAGEMENT SYSTEM		
		FDC	FIRE DEPARTMENT CONTROL		

QUALITY LEVELS AND DEFINITIONS

OL-D	DEPICTED ACCORDING TO UTILITY RECORD INFORMATION AND IN-FIELD VISUAL INSPECTION. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.
OL-C	EXISTING UTILITY STRUCTURES HAVE BEEN FIELD LOCATED AND SURVEYED TO ASSIST IN DEPICTING THE UTILITIES SHOWN ON RECORDS. NO ELECTRONIC DESIGNATING INFORMATION WAS OBTAINED.
OL-B	INFORMATION WAS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROPRIATE HORIZONTAL POSITION OF THE SUBSURFACE UTILITIES. OL-B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS.
OL-A	OBTAIN PRECISE HORIZONTAL AND VERTICAL POSITION OF THE UTILITY LINE BY EXCAVATING A TEST HOLE. THE TEST HOLE SHALL BE DONE USING VACUUM EXCAVATION OR COMPARABLE NONDESTRUCTIVE EQUIPMENT IN A MANNER AS TO CAUSE NO DAMAGE TO THE UTILITY LINE. AFTER EXCAVATING A TEST HOLE, A FIELD SURVEY SHALL BE PERFORMED TO DETERMINE THE EXACT LOCATION AND POSITION OF THE UTILITY LINE.

TELEPHONE PAIR SIZE TABLE

TELEPHONE PAIR SIZE	TELEPHONE CABLE DIAMETER
5 - 100	0.50 TO 2.00 IN
101 - 2400	UP TO 3.50 IN

REVISION DATES

UTILITY PLANS

BROGDON RD & NEW HOPE RD INTERSECTION

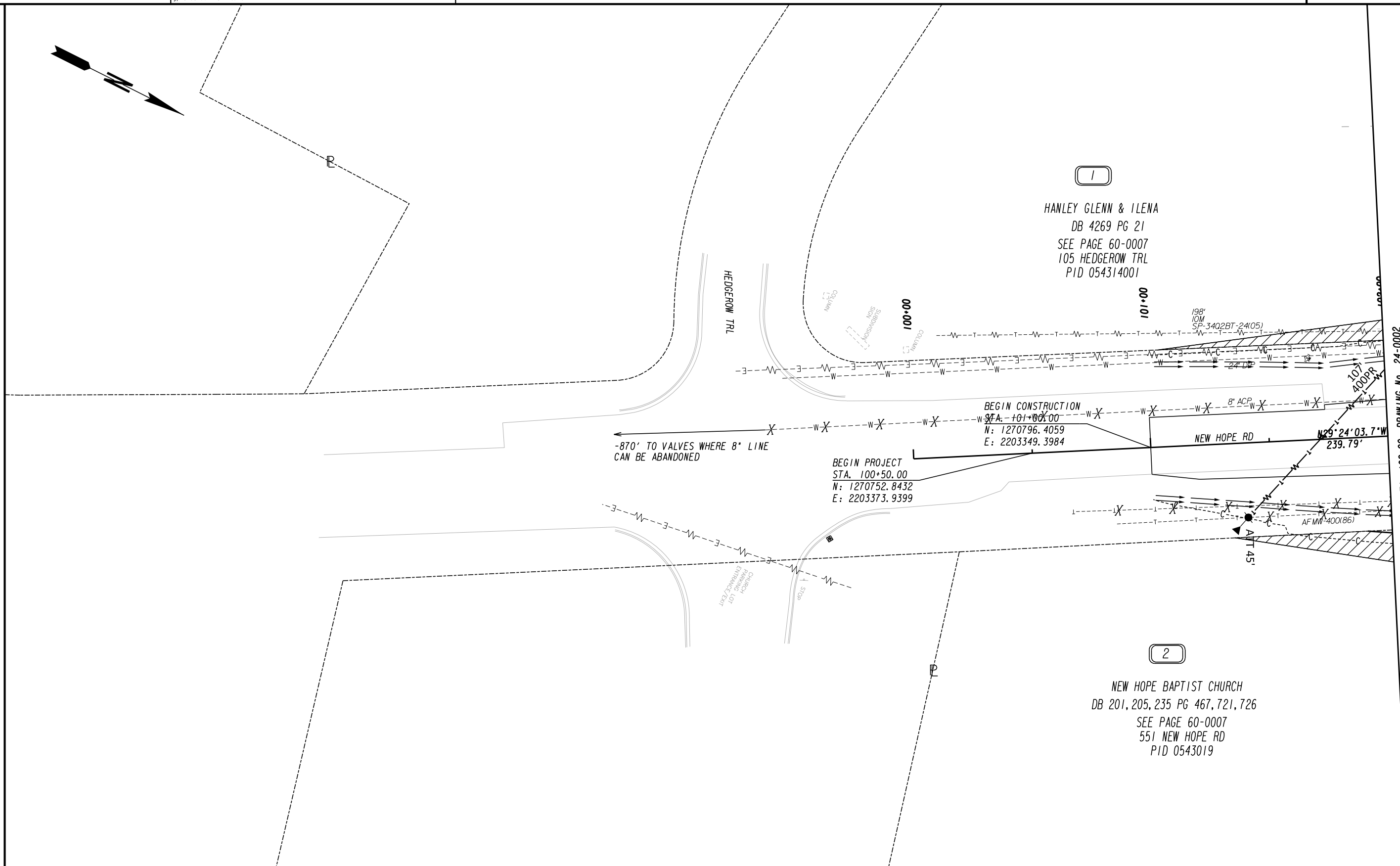
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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

24-0000

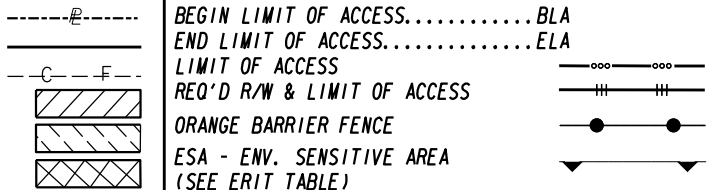


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NOT TO SCALE

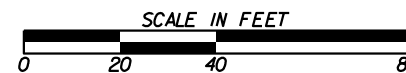


PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



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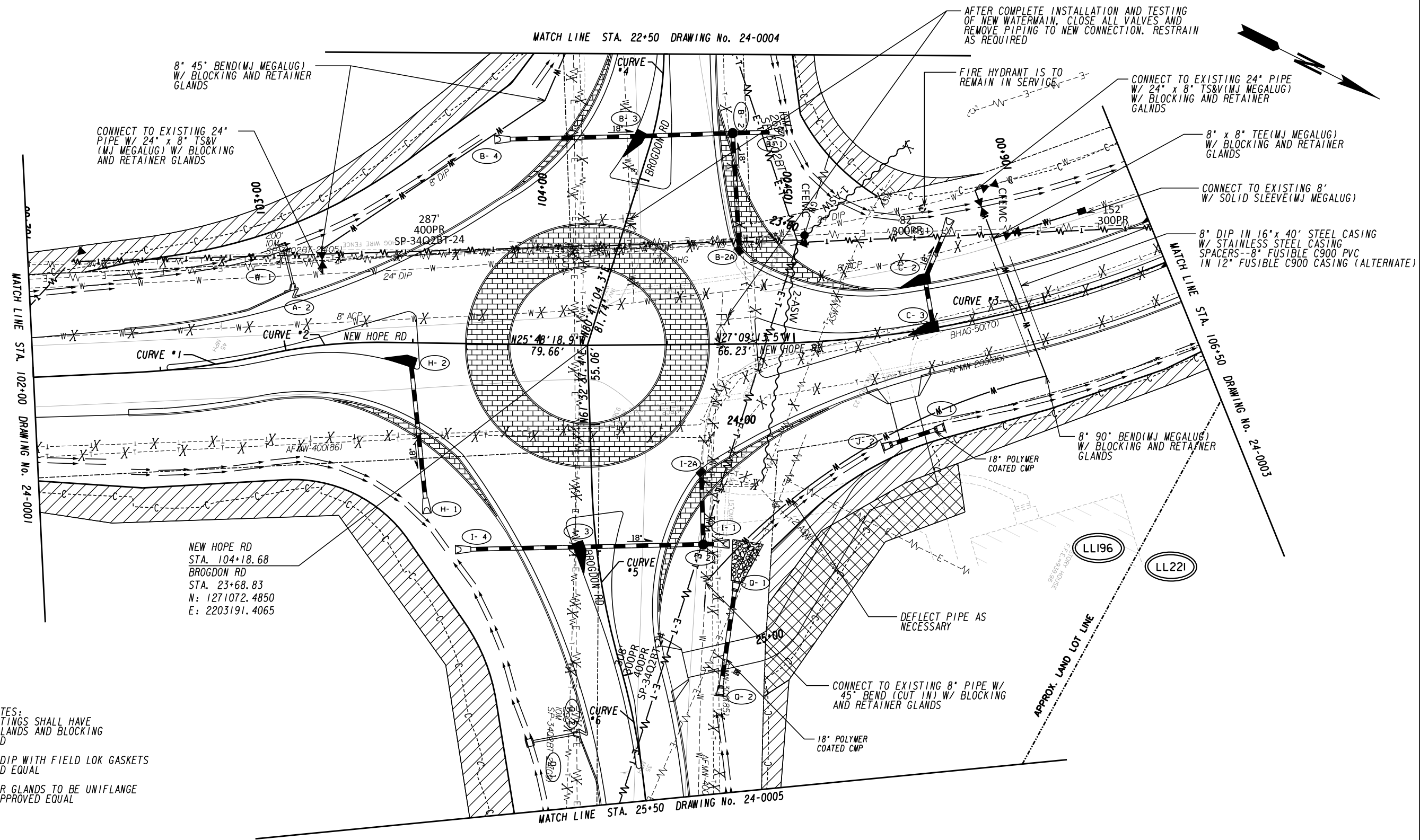
REVISION DATES

NO.	DATE	DESCRIPTION

UTILITY PLANS

BROGDON RD & NEW HOPE RD INTERSECTION

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VERIFIED:	DATE:	



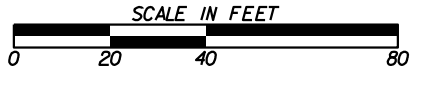
- GENERAL NOTES:
1. ALL FITTINGS SHALL HAVE RETAINER GLANDS AND BLOCKING AS REQUIRED
 2. ALL 8" DIP WITH FIELD LOK GASKETS OR APPROVED EQUAL
 3. RETAINER GLANDS TO BE UNIFLANGE 1400D OR APPROVED EQUAL

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----C-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----F-----
EASEMENT FOR CONSTR OF SLOPES	-----H-----
EASEMENT FOR CONSTR OF DRIVES	-----X-----

BEGIN LIMIT OF ACCESS.....BLA	-----o-----
END LIMIT OF ACCESS.....ELA	-----h-----
LIMIT OF ACCESS	-----m-----
REQ'D R/W & LIMIT OF ACCESS	-----n-----
ORANGE BARRIER FENCE	-----p-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----q-----

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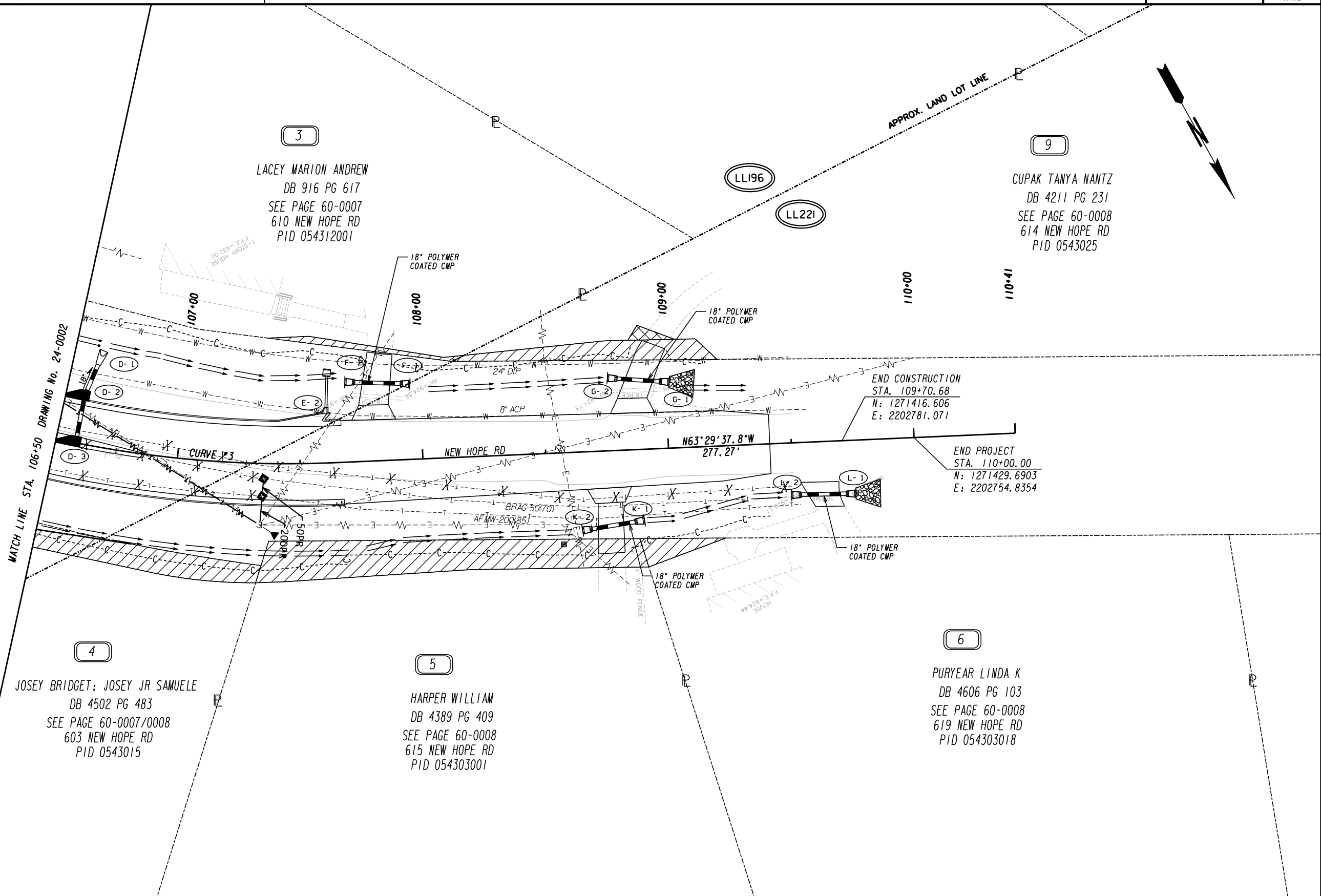
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REVISION DATES	

UTILITY PLANS
BROGDON RD & NEW HOPE RD INTERSECTION

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BACKCHECKED:	DATE:	24-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



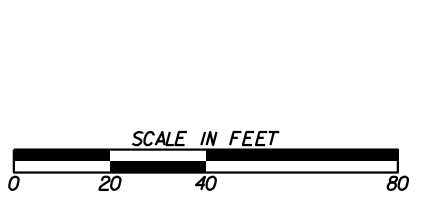
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

-----e-----
 ---C---F---
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]

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

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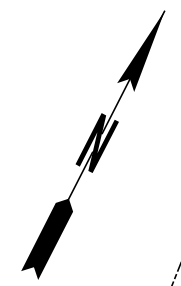
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REVISION DATES	

UTILITY PLANS
 BROGDON RD & NEW HOPE RD INTERSECTION

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BACKCHECKED:	DATE:	24-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7

MARETICH IVAN F
DB 3046 PG 164
SEE PAGE 60-0008
415 BROGDON RD
PID 054312002

3

LACEY MARION ANDREW
DB 916 PG 617
SEE PAGE 60-0007
610 NEW HOPE RD
PID 054312001

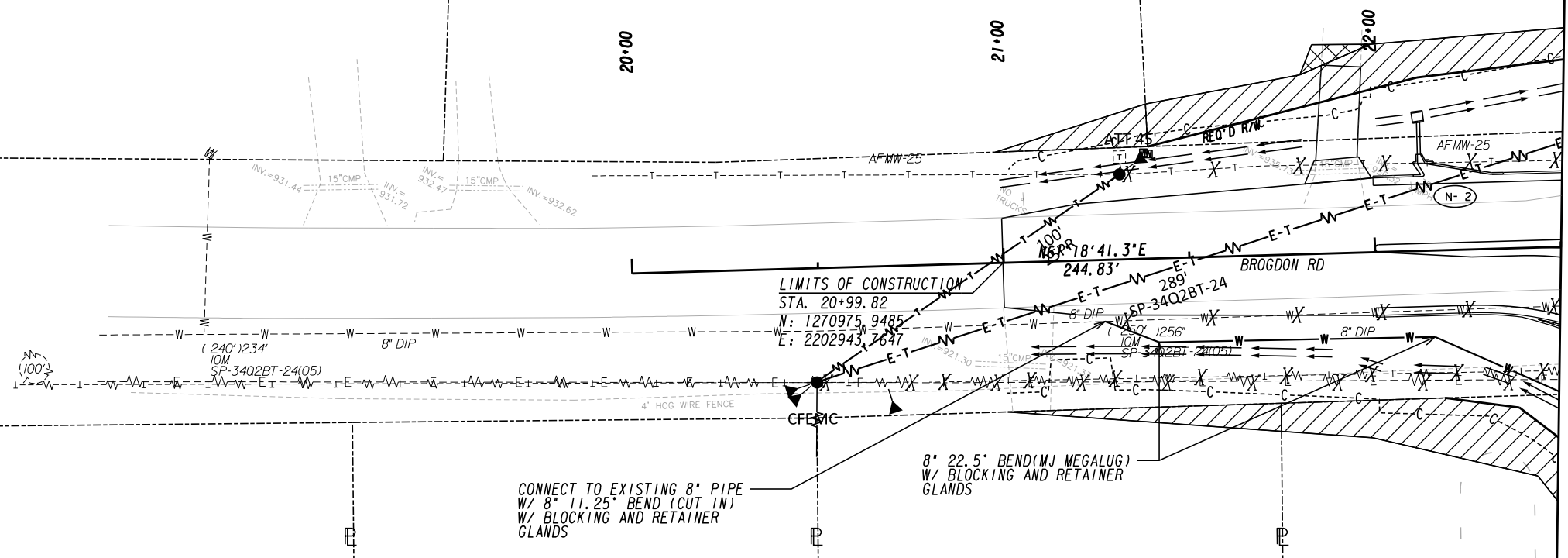
8

HAMBLIN ROLDA W
DB 4269 PG 21
SEE PAGE 60-0008
115 HEDGEROW TRL
PID 054314002

1

HANLEY GLENN & ILENA
DB 4269 PG 21
SEE PAGE 60-0007
105 HEDGEROW TRL
PID 054314001

- GENERAL NOTES:
1. ALL FITTINGS SHALL HAVE RETAINER GLANDS AND BLOCKING AS REQUIRED
 2. ALL 8" DIP WITH FIELD LOK GASKETS OR APPROVED EQUAL
 3. RETAINER GLANDS TO BE UNIFLANGE 1400D OR APPROVED EQUAL



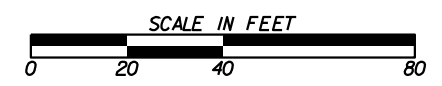
MATCH LINE STA. 22+50 DRAWING No. 24-0002

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

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

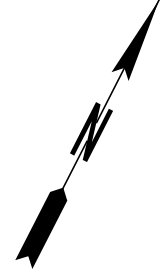
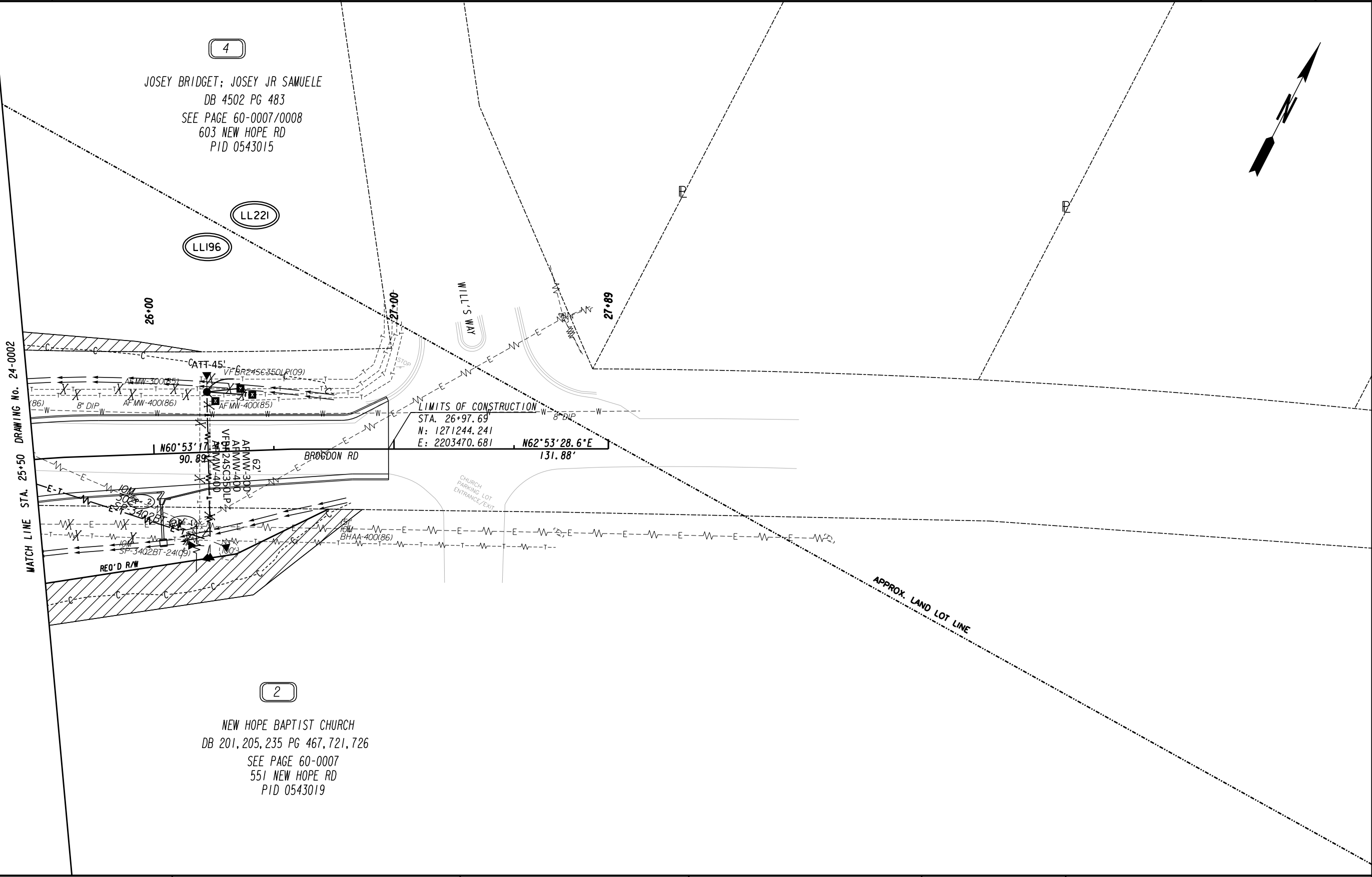
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REVISION DATES	

UTILITY PLANS			
BROGDON RD & NEW HOPE RD INTERSECTION			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0004	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

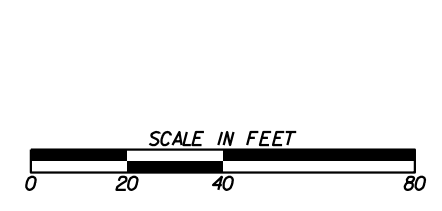


PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Diagonal Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Cross-hatched Box]

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

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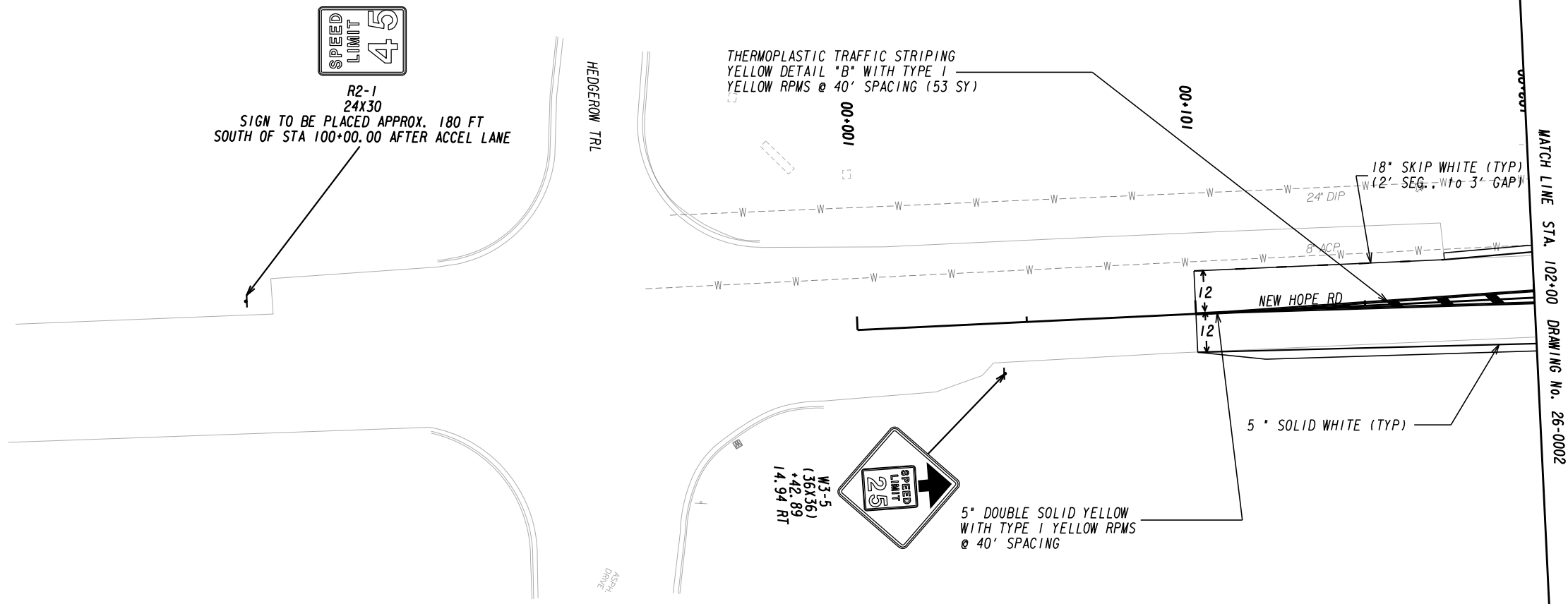
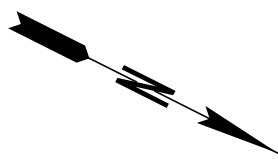
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REVISION DATES	

UTILITY PLANS
BROGDON RD & NEW HOPE RD INTERSECTION

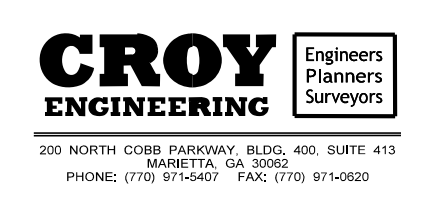
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BACKCHECKED:	DATE:	24-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 102+00 DRAWING No. 26-0002

-----e-----	BEGIN LIMIT OF ACCESS.....BLA
-----f-----	END LIMIT OF ACCESS.....ELA
---C---F---	LIMIT OF ACCESS
[Hatched Box]	REQ'D R/W & LIMIT OF ACCESS
[Diagonal Lines]	ORANGE BARRIER FENCE
[Cross-hatched Box]	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

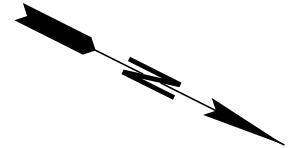
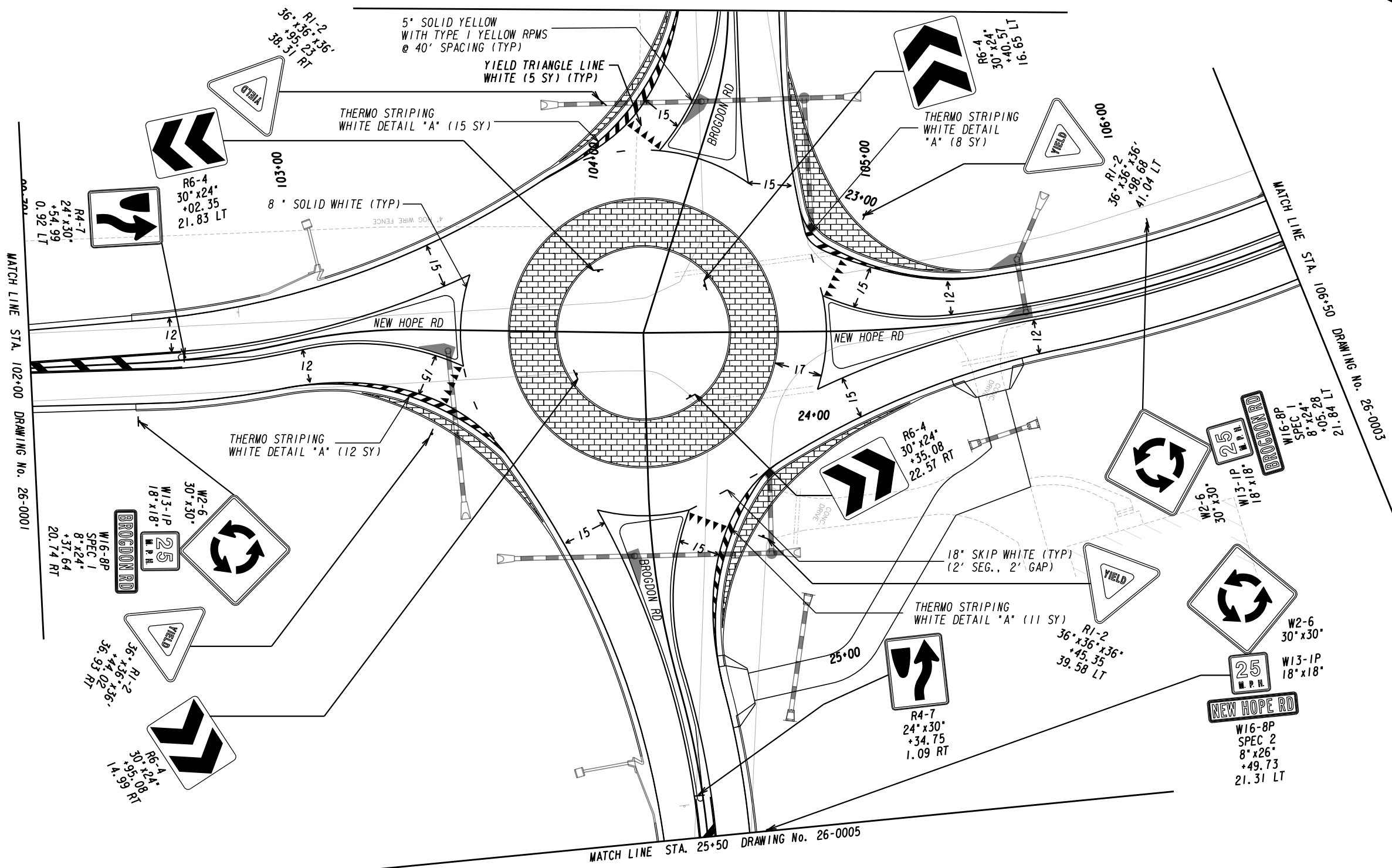
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REVISION DATES	

SIGNING AND MARKING PLANS			
BROGDON RD & NEW HOPE RD INTERSECTION			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

MATCH LINE STA. 22+50 DRAWING No. 26-0004

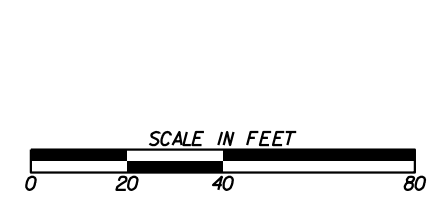


PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----c-----
EASEMENT FOR CONSTR	-----f-----
& MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Hatched Box]

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

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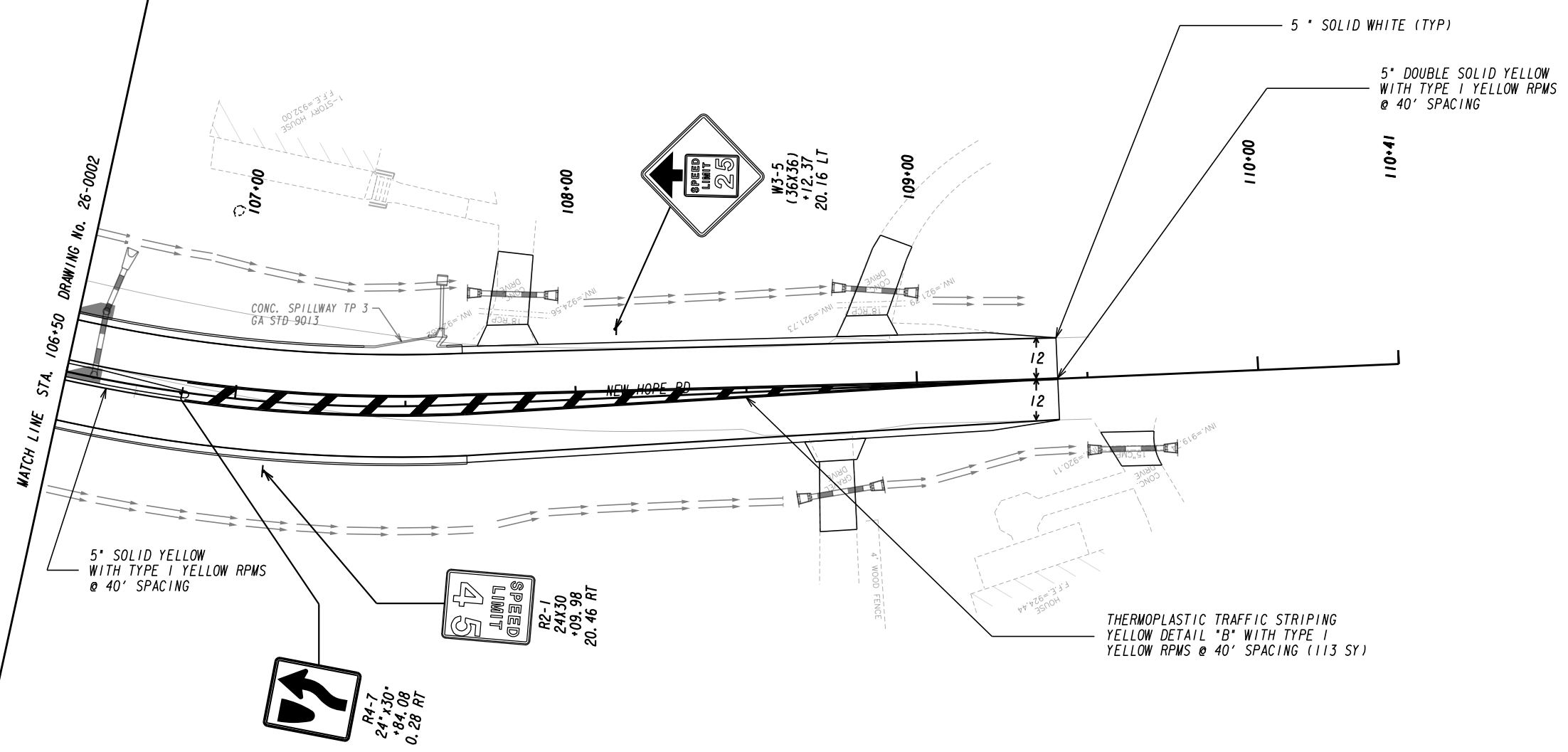
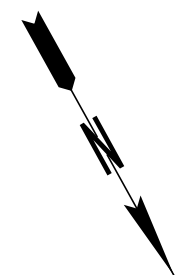
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REVISION DATES	

SIGNING AND MARKING PLANS
BROGDON RD & NEW HOPE RD INTERSECTION

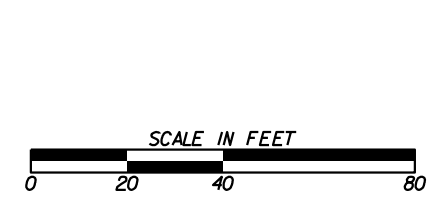
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BACKCHECKED:	DATE:	26-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



-----e-----	BEGIN LIMIT OF ACCESS.....BLA
-----f-----	END LIMIT OF ACCESS.....ELA
-C-F-	LIMIT OF ACCESS
[Hatched Box]	REQ'D R/W & LIMIT OF ACCESS
[Diagonal Hatched Box]	ORANGE BARRIER FENCE
[Cross-hatched Box]	ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]
[Symbol]	[Symbol]

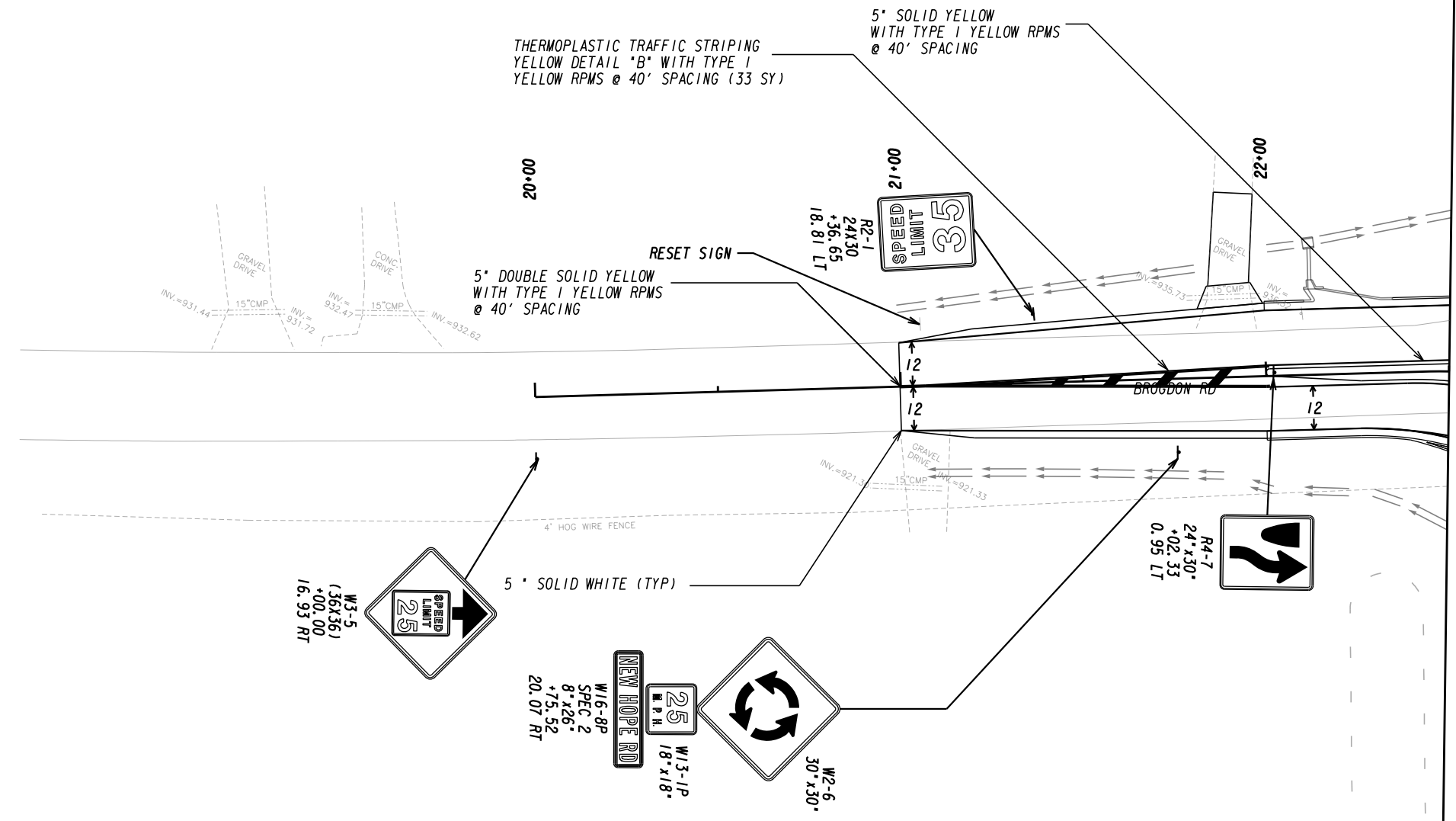
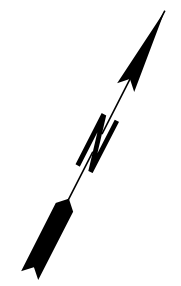
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 BROGDON RD & NEW HOPE RD INTERSECTION

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CORRECTED:	DATE:	
VERIFIED:	DATE:	



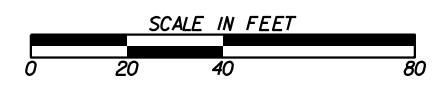
MATCH LINE STA. 22+50 DRAWING No. 26-0002

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

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

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Surveyors

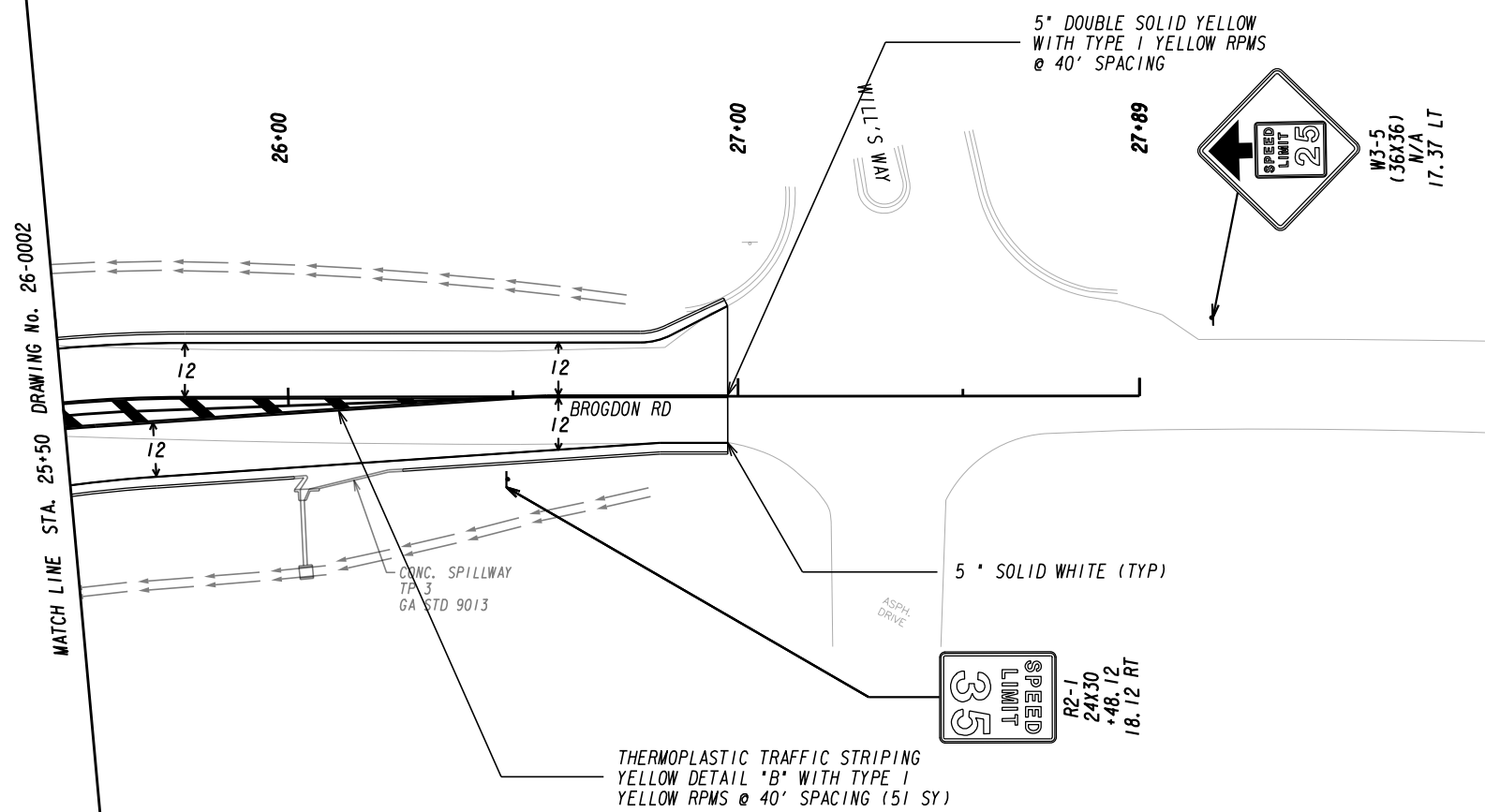
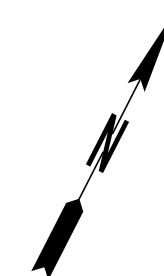
200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620



REVISION DATES	

SIGNING AND MARKING PLANS
BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SPEED LIMIT 35
R2-1
24x30
+48.12
18.12 RT

SPEED LIMIT 25
W3-5
(36x36)
N/A
17.37 LT

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

CROY ENGINEERING Engineers
Planners
Surveyors

200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620

SCALE IN FEET

REVISION DATES	

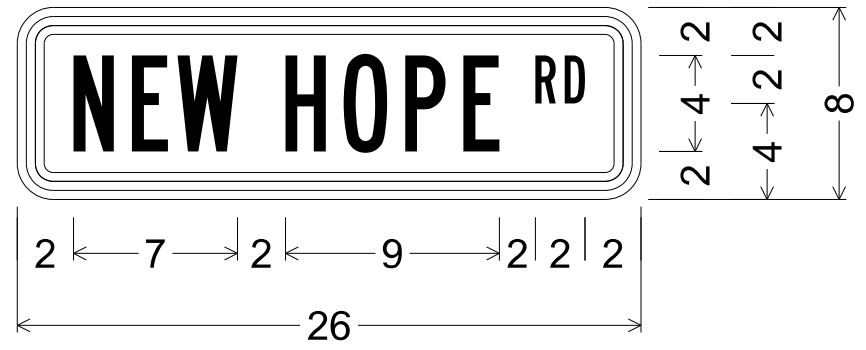
SIGNING AND MARKING PLANS
BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



0" Inner border Black, 2" Radius, 0" Outer border, 0" Indent, Black on Yellow;
[BROGDON] B; [RD] B;

W16-8P SPEC #1



0" Inner border Black, 2" Radius, 0" Outer border, 0" Indent, Black on Yellow;
[NEW] B; [HOPE] B; [RD] B;

W16-8P SPEC #2



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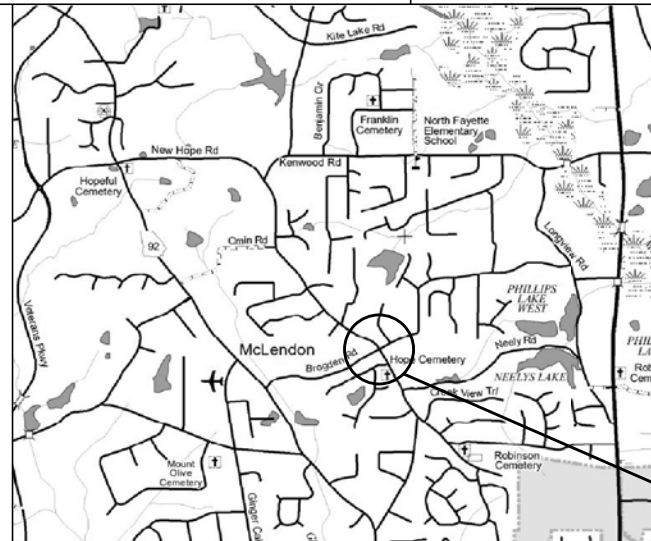
REVISION DATES

NO.	DATE	DESCRIPTION

SIGNING AND MARKING PLANS

BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0006
CORRECTED:	DATE:	
VERIFIED:	DATE:	



LOCATION SKETCH

FUNCTIONAL CLASS:
NEW HOPE ROAD (MAJOR COLLECTOR)
BROGDON ROAD (LOCAL ROAD)

THIS PROJECT IS 100% IN
FAYETTE COUNTY AND IS
100% IN CONG. DIST. NO. 13
& COMM. DIST. NO. 4

PROJECT DESIGNATION:
FUNDED 2017 SPLOST, 177AM

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

PRIMARY PERMITTEE

24 HOUR CONTACT:

PHIL MALLON
Name

115 MCDONOUGH RD
Street Address

FAYETTEVILLE, GA 30215
City, State Zip

770-313-9855
Phone Number

PMALLON@FAYETTECOUNTY.GA.GOV
Email Address

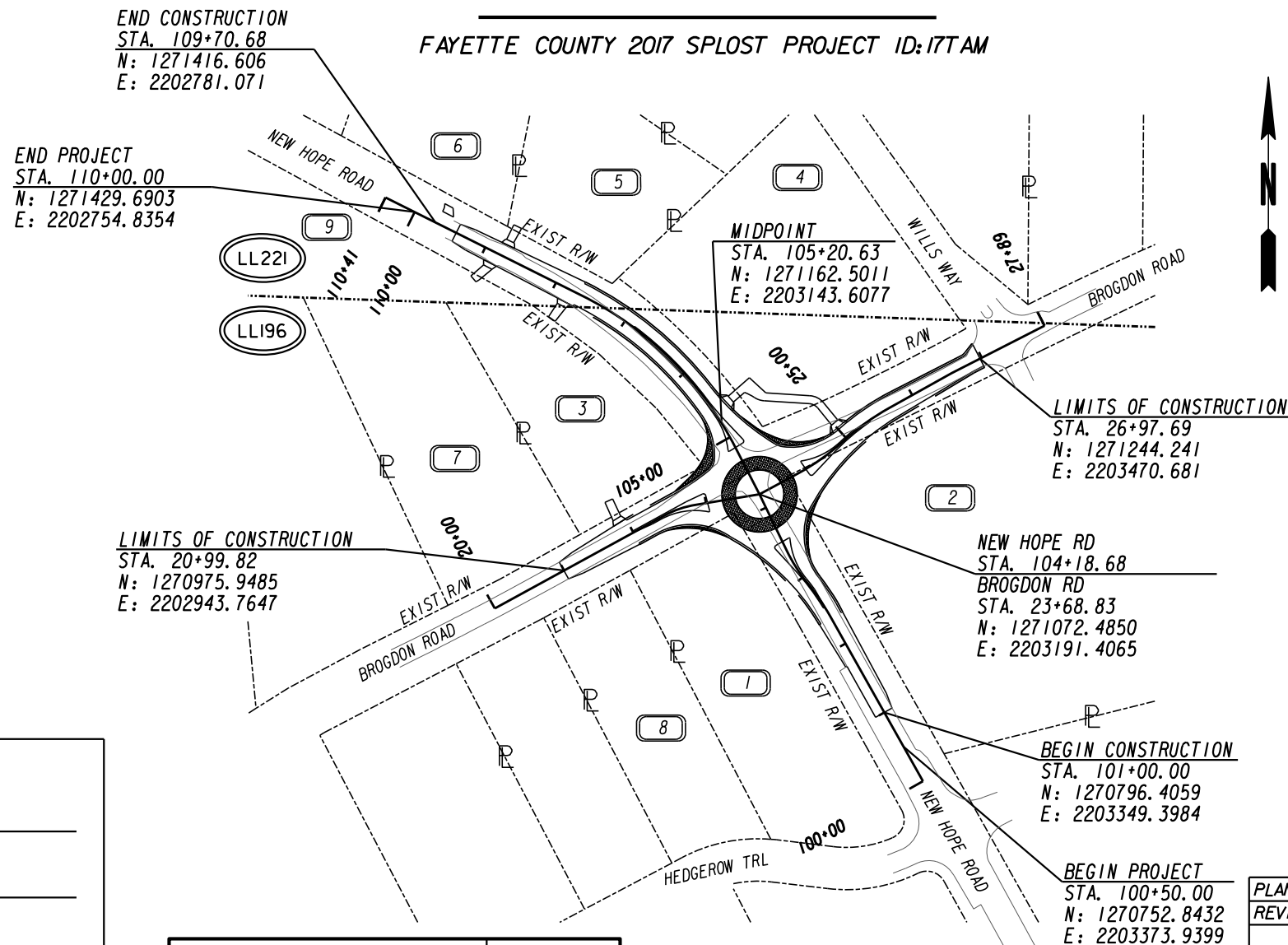
Contractor shall complete the information in this box.

FAYETTE COUNTY BOARD OF COMMISSIONERS

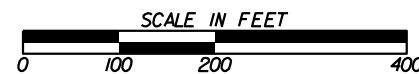
EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN BROGDON ROAD AND NEW HOPE ROAD INTERSECTION

PROJECT LOCATION

FAYETTE COUNTY 2017 SPLOST PROJECT ID: 177AM



LENGTH OF PROJECT	COUNTY No.13 Project No. 1866.01
	MILES
NET LENGTH OF ROADWAY	0.18
NET LENGTH OF BRIDGES	0.00
NET LENGTH OF PROJECT	0.18
NET LENGTH OF EXCEPTIONS	0.00
GROSS LENGTH OF PROJECT	0.18



"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: 84.472°

Latitude: 33.493°

MID-POINT COORDINATES

Longitude: 84.473°

Latitude: 33.494°

END-POINT COORDINATES

Longitude: 84.474°

Latitude: 33.495°



200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
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PHONE: (770) 971-5407 FAX: (770) 971-0620

PLANS PREPARED BY
CROY ENGINEERING
UNDER THE SUPERVISION OF



CHRIS RIDEOUT, P.E.
LEVEL II CERT. 6947

PLANS COMPLETED	11-06-2020
REVISIONS	

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: TOWALIGA REGION 4

Project Name: BROGDON AND NEW HOPE INTERSECTION **Address:** FAYETTEVILLE, GA 30314
City/County: FAYETTE COUNTY **Date on Plans:** 3/31/2020
Name & email of person filling out checklist: Robert Bishop (rbishop@croyengineering.com)

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0001	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
50-0001	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
50-0001	Y	3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
50-0001	Y	4 Provide the name, address, email address, and phone number of primary permittee.
51-0003	Y	5 Note total and disturbed acreage of the project or phase under construction.
50-0001	Y	6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
50-0001	Y	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	Y	8 Description of the nature of construction activity.
50-0001	Y	9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
55-0001	Y	10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
50-0001	Y	11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.
50-0001	Y	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 20 of the permit. *
50-0001	Y	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	Y	14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation," in accordance with Part IV.A.5 page 26 of the permit. *
51-0003	Y	15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wooded vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
N/A	N/A	16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
51-0002	Y	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	Y	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	Y	19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
51-0002	Y	20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
51-0002	Y	21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
N/A	N/A	22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biola Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *
N/A	N/A	23 If a TMDL Implementation Plan for sediment has been finalized for the 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	Y	24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited. *
51-0002	Y	25 Provide BMPs for the remediation of all petroleum spills and leaks.
51-0002	Y	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. *
51-0002	Y	27 Description of practices to provide cover for building materials and building products on site. *
51-0002	Y	28 Description of the practices that will be used to reduce the pollutants in storm water discharges. *

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0002	Y	29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
51-0004	Y	30 Provide complete requirements of inspections and record keeping by the primary permittee. *
51-0004	Y	31 Provide complete requirements of sampling frequency and reporting of sampling results. *
51-0004	Y	32 Provide complete details for retention of records as per Part IV.F. of the permit. *
51-0004	Y	33 Description of analytical methods to be used to collect and analyze the samples from each location. *
51-0004	Y	34 Appendix B rationale for NTU values at all outfall sampling points where applicable. *
51-0004	Y	35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable. *
51-0002	Y	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 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. *
ALL	ALL	37 Graphic scale and North arrow.
53-0001	Y	38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours USGS 1": 2000' Topographical Sheets Proposed Contours 1": 400' Centerline Profile
N/A	N/A	39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
N/A	N/A	40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition. *
N/A	N/A	41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
N/A	N/A	42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
51-0003	Y	43 Delineation and acreage of contributing drainage basins on the project site.
55-0001	Y	44 Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
53-0001	Y	45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-0003	Y	46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
51-0002	Y	47 Soil series for the project site and their delineation.
54 SHTS	Y	48 The limits of disturbance for each phase of construction.
51-0003	Y	49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retentive detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
54 SHTS	Y	50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
56-0000	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
51-0002	Y	52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

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

Effective January 1, 2020

REVISION DATES

ESPCP GENERAL NOTES

BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	51-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620

ESPCP GENERAL NOTES

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 ALTERATIONS

This Erosion, Sedimentation, and Pollution Control Plan (ESPCP) 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 (Worksite Erosion Control Supervisor) 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.

CONSTRUCTION SCHEDULE AND SEQUENCE OF MAJOR ACTIVITIES

The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted after the project is awarded along with the NOI. A copy of the construction schedule shall be maintained at the project site.

The project budget includes sufficient funds for the payment of construction exits. The Contractor is responsible for establishing at least one (1) construction exit per the specifications of the construction exit detail included in this ESPCP to minimize or eliminate the vehicle tracking of dirt, soils, and sediments off site. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exits(s).

Stage 1 - Initial BMP

- Install Construction Exits.
- Install Type Sensitive Silt Fence at disturbed areas.
- Install Sediment Traps for existing storm structure inlets.
- Install Check Dams to existing ditch areas.

Stage 2 - Intermediate BMP

- Maintain Construction Exits.
- Maintain Silt Fence.
- Maintain Sediment Traps.
- Maintain Check Dams.
- Install Type Sensitive Silt Fence at disturbed areas.
- Install Sediment Traps for proposed storm structure inlets.
- Install Check Dams to proposed ditch areas.
- Apply Temporary Mulching on the disturbed areas prior to final grading.
- Apply Temporary Grassing on the disturbed areas prior to final grading.

Stage 3 - Final BMP

- Apply Permanent Grassing on disturbed areas.

SITE STABILIZATION AND VEGETATION PLANTING SCHEDULE

The EPD General NPDES GARI0002 permit states that any 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 GDOT 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 GDOT Standard Specifications (or Special Provisions) and other applicable contract documents or landscaping plans.

BMP INSTALLATION AND MAINTENANCE MEASURES

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

PETROLEUM STORAGE, SPILLS AND LEAKS

These plans expressly delegate the responsibility of proper on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up, and disposal of any petroleum product, or other hazardous material, leaks or spills associated with the servicing, refueling or operation of any equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with the action plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMPs needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GARI0002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

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 shall 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. Waste materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

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 GARI0002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

NONSTORMWATER DISCHARGES

Nonstormwater 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, GDOT 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.

READY MIX CHUTE WASH DOWN

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 overlapping. 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".

OTHER CONTROLS

If the Contractor elects to store building material, building products, construction waste, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials on the site, the Contractor shall provide an appropriate covering to minimize the exposure of those materials or products to precipitation and stormwater to minimize the discharge of pollutants. Minimization of exposure is not required in cases where exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of the specific material or product poses little risk to stormwater contamination or is intended for outdoor use.

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with all applicable State and/or local regulations for waste disposal, sanitary sewer and septic systems, and petroleum storage.

The Contractor shall control dust from the site in accordance with Section 161 of the current edition of GDOT Standard Specifications.

POSTCONSTRUCTION BMPs FOR STORMWATER MANAGEMENT

All permanent postconstruction BMPs are shown in the construction plans and in the ESPCP plan. The postconstruction BMPs for this project consist of detention ponds, bioretention basins, sand filter basins, bioslopes, enhanced dry/wet swales, vegetated swales/ditches, vegetation, permanent slope drains and/or flumes, riprap at pipe outlets for velocity dissipation and outlet stabilization, channel/ditch stabilization with turf reinforcing mats, slope stabilization matting, riprap and concrete ditch lining where necessary. The postconstruction BMPs will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.

SOIL SERIES INFORMATION

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

Soil Symbol	Soil Type	Slope %	Limitation	Reason for Limitation
CeB	Cecil sandy loam	2-6%	Somewhat limited	Eroded
CeC	Cecil sandy loam	6-10%	Somewhat limited	Eroded

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at <http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>.

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 cost of installing and maintaining the silt fence.



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REVISION DATES

ESPCP GENERAL NOTES

BROGDON RD & NEW HOPE RD INTERSECTION

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

SEDIMENT STORAGE

The site has a total disturbed area of 3.00 acres. The following 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.

Location	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (yd ³)	Total Storage Volume Provided (yd ³)	Check Dams (2 yd ³ /each)		Inlet Sediment Traps (2 yd ³ /each)		Silt Gates (3 yd ³ /each)		Silt Fence (0.3 yd ³ /ft)	
					# of Devices	Total Volume (yd ³)	# of Devices	Total Volume (yd ³)	# of Devices	Total Volume (yd ³)	Length (ft)	Total Volume (yd ³)
					OUTFALL 1	6.57	1.33	440	136.1	38	76	5
OUTFALL 2	2.46	1.48	165	90.5	22	44	9	18	7	21	25	8
OUTFALL 3	0.22	0.19	14	15	6	12		0	1	3	0	0
Total Sheet Flow	9.25	3	619	241.6	66	132	14	28	16	48	112	34

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.

OUTFALL 1 - The drainage basin will not meet the required 67 cubic yards per acre of storage volume. The reason for this is that the required right of way to place appropriate measures is not available, also there are space constraints within the project area with the closeness of the neighboring houses to the roadway. To mitigate this the BMPs will strictly follow the clean out schedule and interval for each type of BMP used.

OUTFALL 2 - The drainage basin will not meet the required 67 cubic yards per acre of storage volume. The reason for this is that the required right of way to place appropriate measures is not available, also there are space constraints within the project area with the closeness of the neighboring houses to the roadway. To mitigate this the BMPs will strictly follow the clean out schedule and interval for each type of BMP used.

RIPRAP OUTLET PROTECTION

Structure #, Outfall ID#, or Station and Offset	Pipe Diameter Do (ft)	Q ₂₅ (ft ³ /s)	V ₂₅ (ft/s)	Tailwater Condition (TW<0.5 Do TW>0.5 Do)	Width at Drainage Structure W1=3Do (ft)	Apron Length La (ft)	Downstrea m Width W2=Do+La (ft)	Average Stone Diameter d ₅₀ (ft)	Apron Thickness D (ft)	Riprap Type (Type 3 or Type 1)	Quantity (yd ³)
G-1	1.5	4.5	3.39	TW<0.5 Do	4.5	10	11.5	0.33	0.75	Type 3	9
I-1	1.5	10.5	7.46	TW<0.5 Do	4.5	10	11.5	0.33	0.75	Type 3	9
L-1	1.5	11.0	8.70	TW<0.5 Do	4.5	10	11.5	0.36	0.81	Type 3	9
Q-1	1.5	0.1	4.05	TW<0.5 Do	4.5	10	11.5	0.33	0.75	Type 3	9

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).

STATE-WATER BUFFER IMPACTS

State-water buffers, as defined by O.C.G.A. 12-7-1, are not 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.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPs:

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

CHANNEL PROTECTION

All channels may be stabilized exclusively with permanent grassing except as noted otherwise in the table below.



200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620

REVISION DATES

ESPCP GENERAL NOTES

BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	51-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

INSPECTIONS AND REPORTING

As the primary permittee, Fayette Co. Public Works must retain the design professional who prepared the ESPCP, or an alternative design professional approved by EPD in writing, to inspect 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 GARI00002 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 Fayette Co. Public Works 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 Fayette Co. Public Works 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 Fayette Co. Public Works 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.

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

Fayette Co. Public Works will retain all records related to the implementation of this ESPCP in accordance with Part IV.F of the General Permit GARI00002.

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, Fayette Co. Public Works 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 table below.

Note: The Total Site Area is 3.00 acres.

SAMPLING INFORMATION											Representative Sampling Scheme				
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	OUTFALL CHARACTERISTICS				
											Construction Activity	Disturbed Area (acres)	Average Outfall Slope (Rise/Run)	Soil Erosion Index	Represented Outfall Drainage Basins
1	109+78, 22' RT	Morning Creek	ALL	Outfall	1.0	N/A	Warm	75	N/A	End of Ditch	Road realignment	6.6	0.02	N/A	N/A
2	109+40, 23' LT	Morning Creek	ALL	Outfall	1.0	N/A	Warm	75	N/A	End of Ditch	Road realignment	2.5	0.01	N/A	N/A
3	21+00, 24' RT	Morning Creek	ALL	Outfall	1.0	N/A	Warm	75	N/A	End of Ditch	Road realignment	0.22	0.03	N/A	N/A

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.



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REVISION DATES

ESPCP GENERAL NOTES

BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	51-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
Bf	BUFFER ZONE		A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
Ds1	MULCH SECTION 163		THIS IS AN APPLICATION OF STRAW MULCH USED TO REDUCE SOIL EROSION AND STABILIZE THE SOIL. IT IS USED TO CONTROL EROSION IN AREAS WHERE PERMANENT VEGETATION IS OUT OF SEASON OR TO TEMPORARILY STABILIZE AREAS PRIOR TO FINAL GRADING. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds2	TEMPORARY GRASSING SECTION 163,700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.

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.
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. 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! 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.

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".

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 1 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No.	52-0001



NO SCALE

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 	
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 SPLASHPAD. 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-1	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".

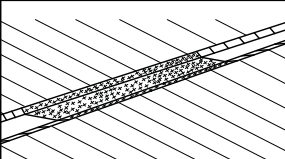
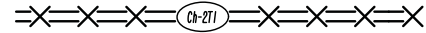
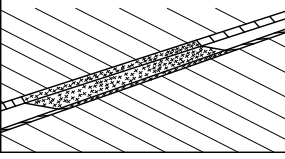

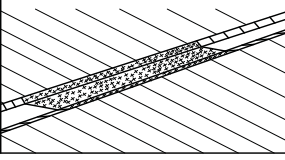
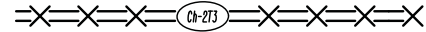
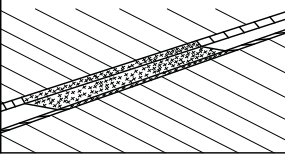
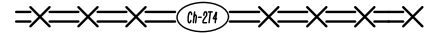
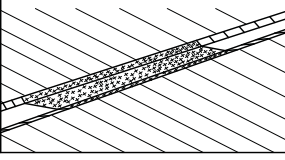

REVISION DATES	
3/2/2017	
11/28/2018	

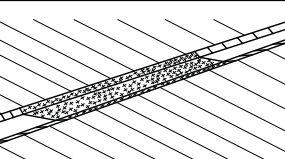
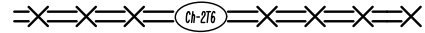
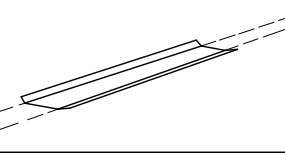

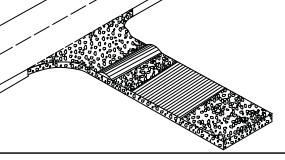

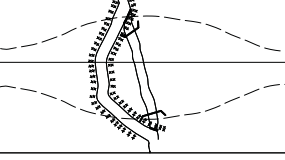

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 2 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0002
CORRECTED:		DATE:		
VERIFIED:		DATE:		



NO SCALE

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. *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-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. *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-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. *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-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. *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-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. *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		

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. *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-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441		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. *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.
	LINE CODE		
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163,800		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. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
	SYMBOL		
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		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. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE		

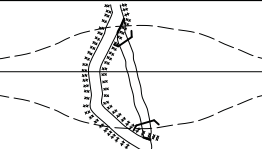
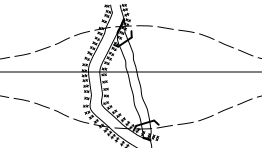
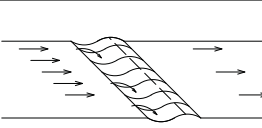
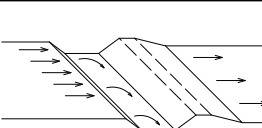
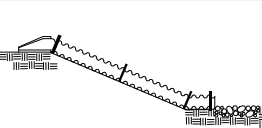
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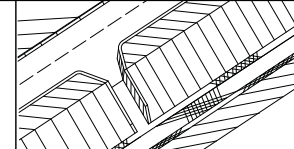
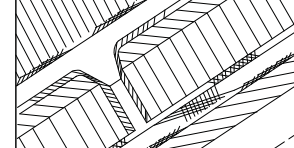
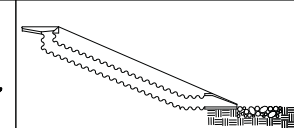
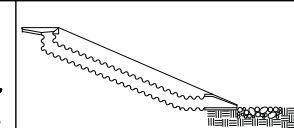
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S,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

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 3 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
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VERIFIED:		DATE:	
		DRAWING No.	
		52-0003	



NO SCALE

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		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 ONLY. 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 2.5 - 9.0 fps.
	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.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163		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 RIP-RAP AND GEOTEXTILE. 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 9.0 - 13.0 fps.
	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.
DI-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		A NON-DESIGNED TEMPORARY EARTHEN BERM WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO BE USED AT THE EDGE OF EMBANKMENT DURING THE GRADING OPERATION. THE BERMS ARE ALSO CONSTRUCTED ABOVE, ACROSS OR BELOW A SLOPE TO REDUCE THE LENGTH OF A SLOPE. THEY ARE USED TO INTERCEPT RUNOFF, PREVENTING SLOPE EROSION AND TO DIRECT THE RUNOFF TO A STABLE OUTLET. DOWN DRAINS "Dn1" OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
	LINE CODE		
DI-2	DIVERSION CHANNEL SECTION 205		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION.
	LINE CODE		REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10".
	LINE CODE		THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.

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 TP1, 9017J TP1, DETAIL D-26 TP1 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		

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".

REVISION DATES

3/2/2017		

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

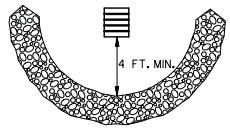

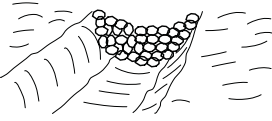





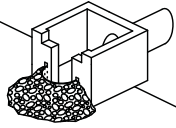

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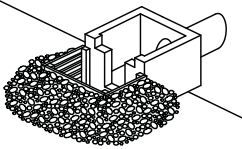

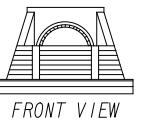

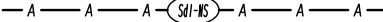

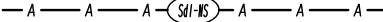

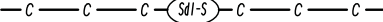
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52-0004



NO SCALE

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-Sg1	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163		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 	
				LINE CODE 	
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'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.		
	LINE CODE 				
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. 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.		
	LINE CODE 				


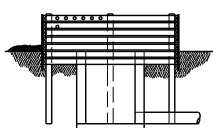

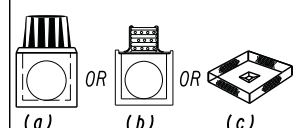

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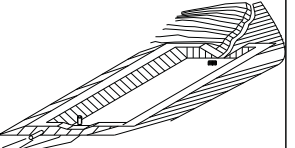
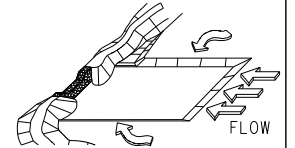
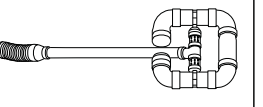
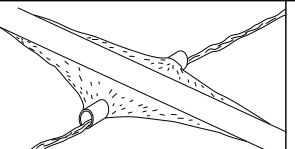
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S,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

REVISION DATES		EROSION CONTROL LEGEND	
3/2/2017		UNIFORM CODE SHEET	
		SHEET 5 OF 7	
CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
		DRAWING No.	52-0005



NO SCALE

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		(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. 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.
		SYMBOL Sd3	
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. 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.
		SYMBOL Sd4-C	
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. 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.
		SYMBOL Sk	
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. 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!
		SYMBOL Sr	

NOTE:

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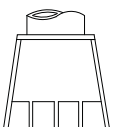

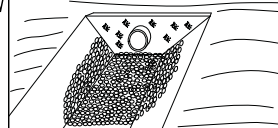
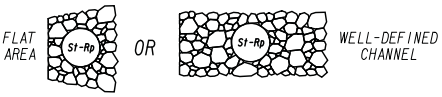
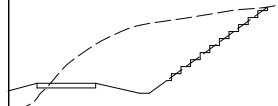
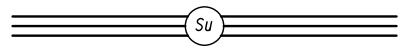
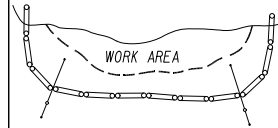
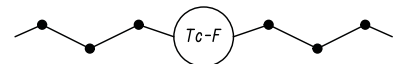
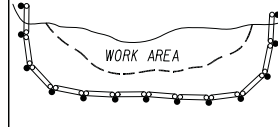

REVISION DATES	
3/2/2017	
11/28/2018	

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 6 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		52-0006
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VERIFIED:		DATE:		



NO SCALE

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:

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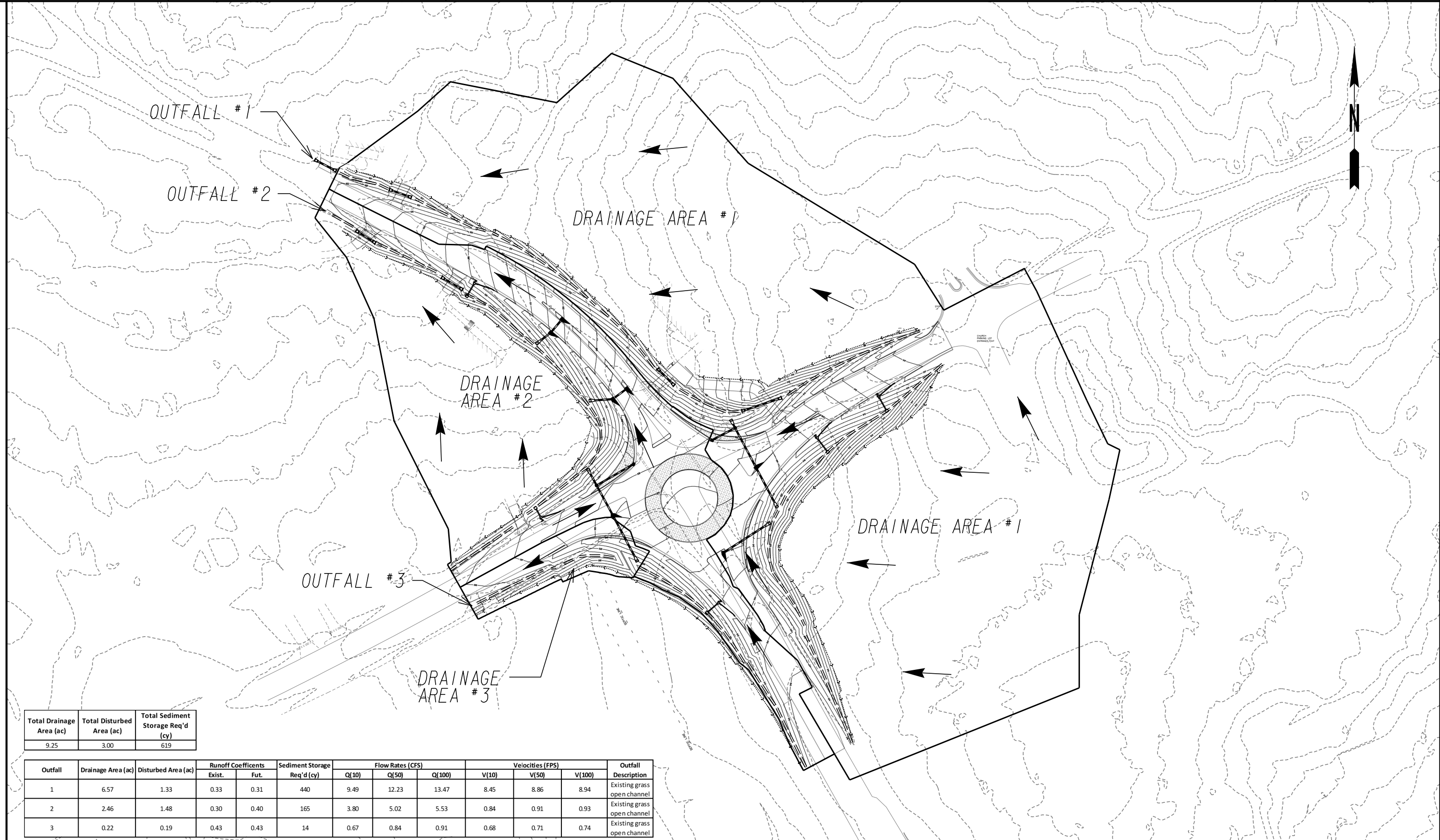
REVISION DATES	
3/2/2017	

EROSION CONTROL LEGEND
UNIFORM CODE SHEET
SHEET 7 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16	DRAWING No.
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		52-0007



NO SCALE

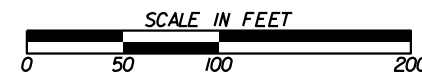


Total Drainage Area (ac)	Total Disturbed Area (ac)	Total Sediment Storage Req'd (cy)
9.25	3.00	619

Outfall	Drainage Area (ac)	Disturbed Area (ac)	Runoff Coefficients		Sediment Storage Req'd (cy)	Flow Rates (CFS)			Velocities (FPS)			Outfall Description
			Exist.	Fut.		Q(10)	Q(50)	Q(100)	V(10)	V(50)	V(100)	
1	6.57	1.33	0.33	0.31	440	9.49	12.23	13.47	8.45	8.86	8.94	Existing grass open channel
2	2.46	1.48	0.30	0.40	165	3.80	5.02	5.53	0.84	0.91	0.93	Existing grass open channel
3	0.22	0.19	0.43	0.43	14	0.67	0.84	0.91	0.68	0.71	0.74	Existing grass open channel

CROY ENGINEERING Engineers
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Surveyors

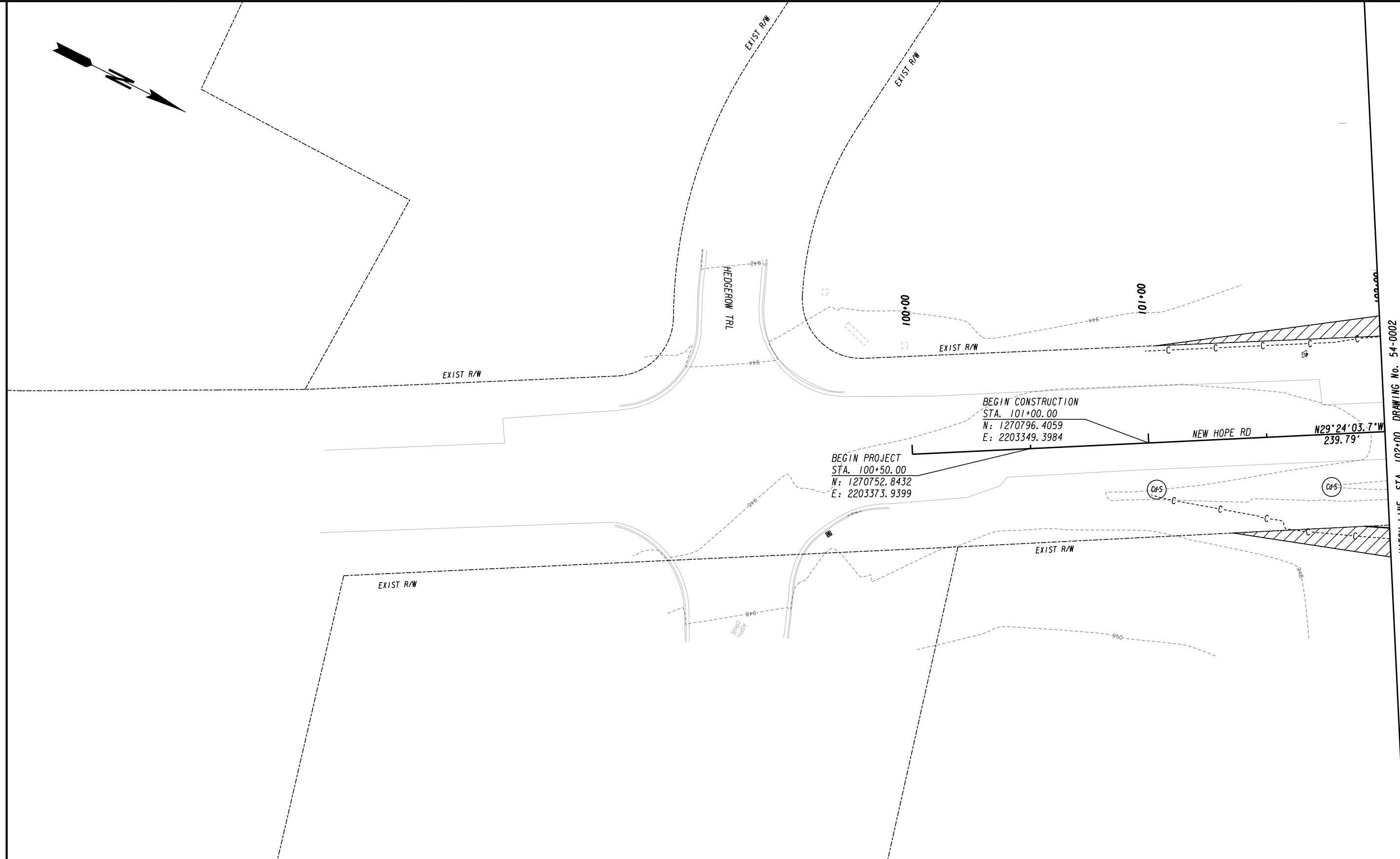
200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620



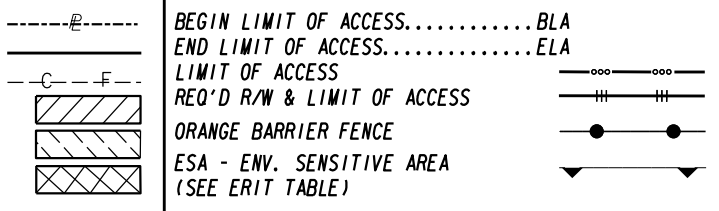
REVISION DATES

EROSION CONTROL DRAINAGE AREA MAP
BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	53-0001
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VERIFIED:	DATE:	

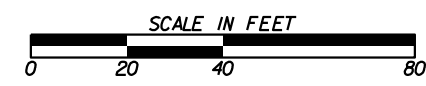


PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



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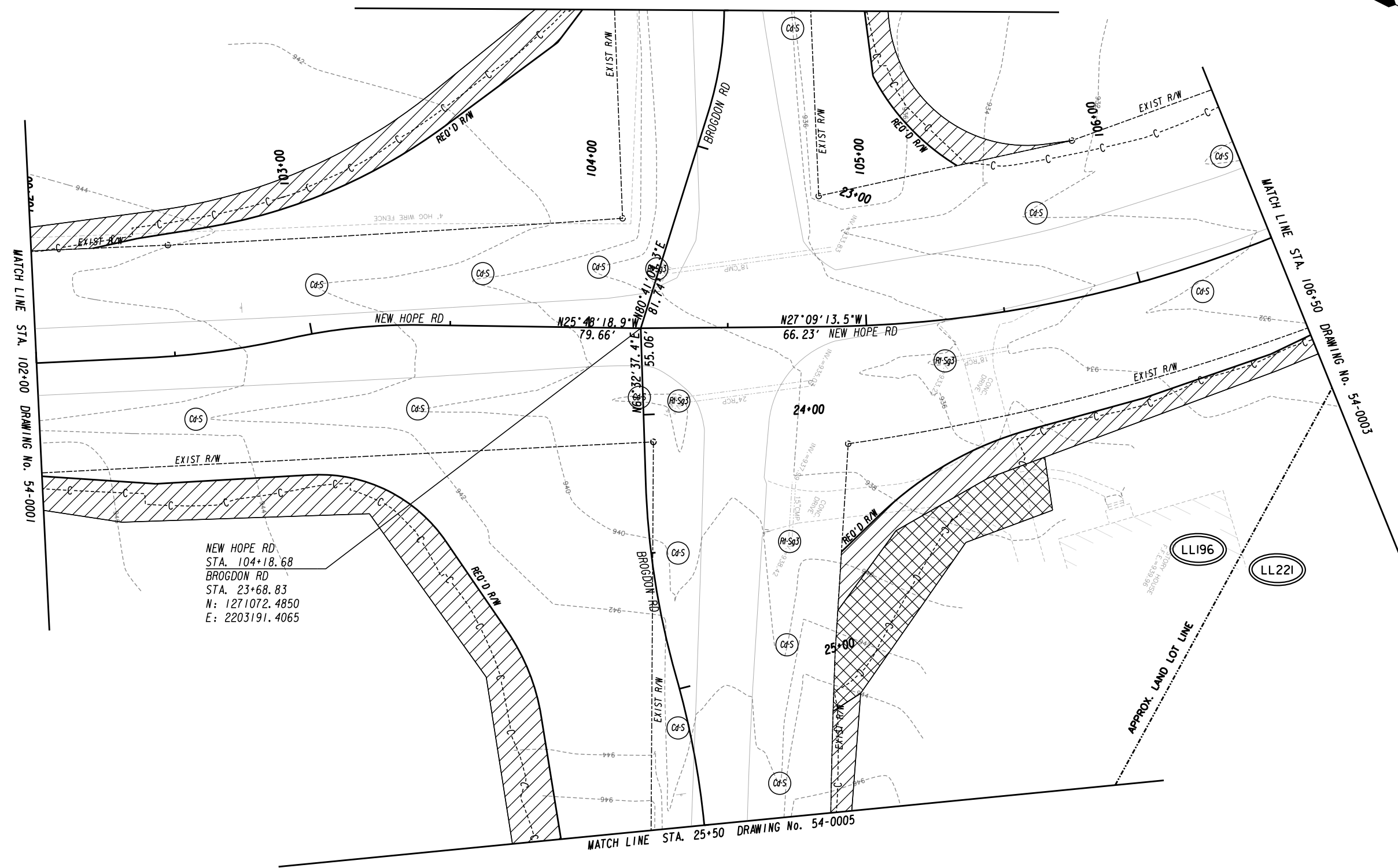
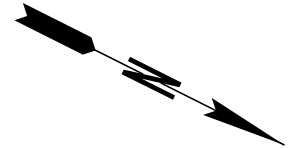
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REVISION DATES	

BMP LOCATION DETAILS			
BROGDON RD & NEW HOPE RD INTERSECTION			
INITIAL PHASE			
CHECKED:		DATE:	
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CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			54-0001

MATCH LINE STA. 22+50 DRAWING No. 54-0004



NEW HOPE RD
 STA. 104+18.68
 BROGDON RD
 STA. 23+68.83
 N: 1271072.4850
 E: 2203191.4065

MATCH LINE STA. 102+00 DRAWING No. 54-0001

MATCH LINE STA. 106+50 DRAWING No. 54-0005

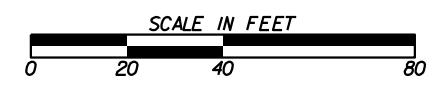
MATCH LINE STA. 25+50 DRAWING No. 54-0005

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
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	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	
ORANGE BARRIER FENCE	
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	

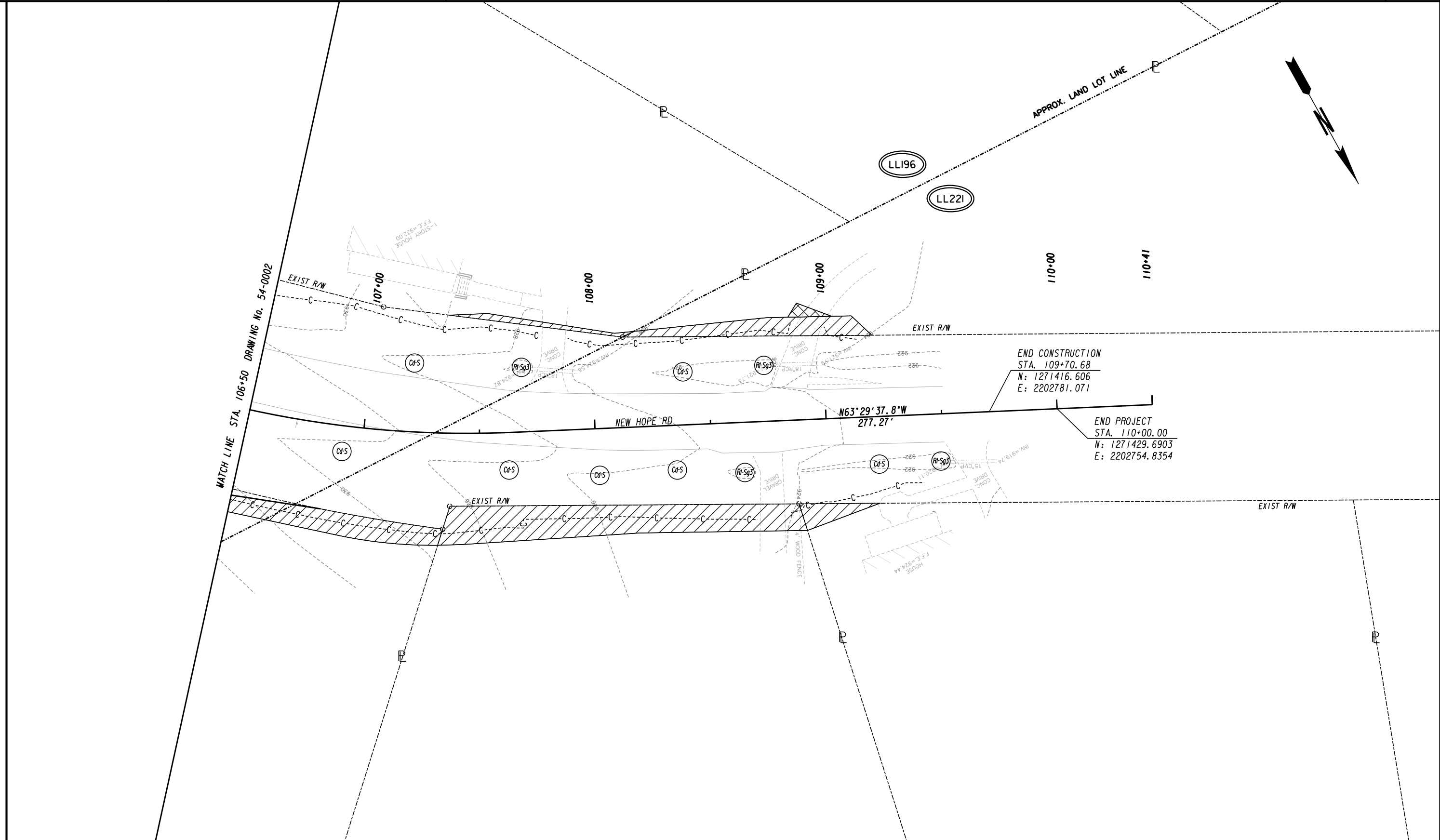
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REVISION DATES	

BMP LOCATION DETAILS		
BROGDON RD & NEW HOPE RD INTERSECTION		
INITIAL PHASE		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



END CONSTRUCTION
 STA. 109+70.68
 N: 1271416.606
 E: 2202781.071

END PROJECT
 STA. 110+00.00
 N: 1271429.6903
 E: 2202754.8354

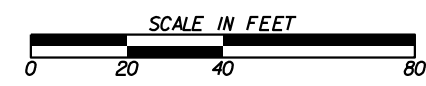
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

-----e-----
 ---C---F---
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]

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

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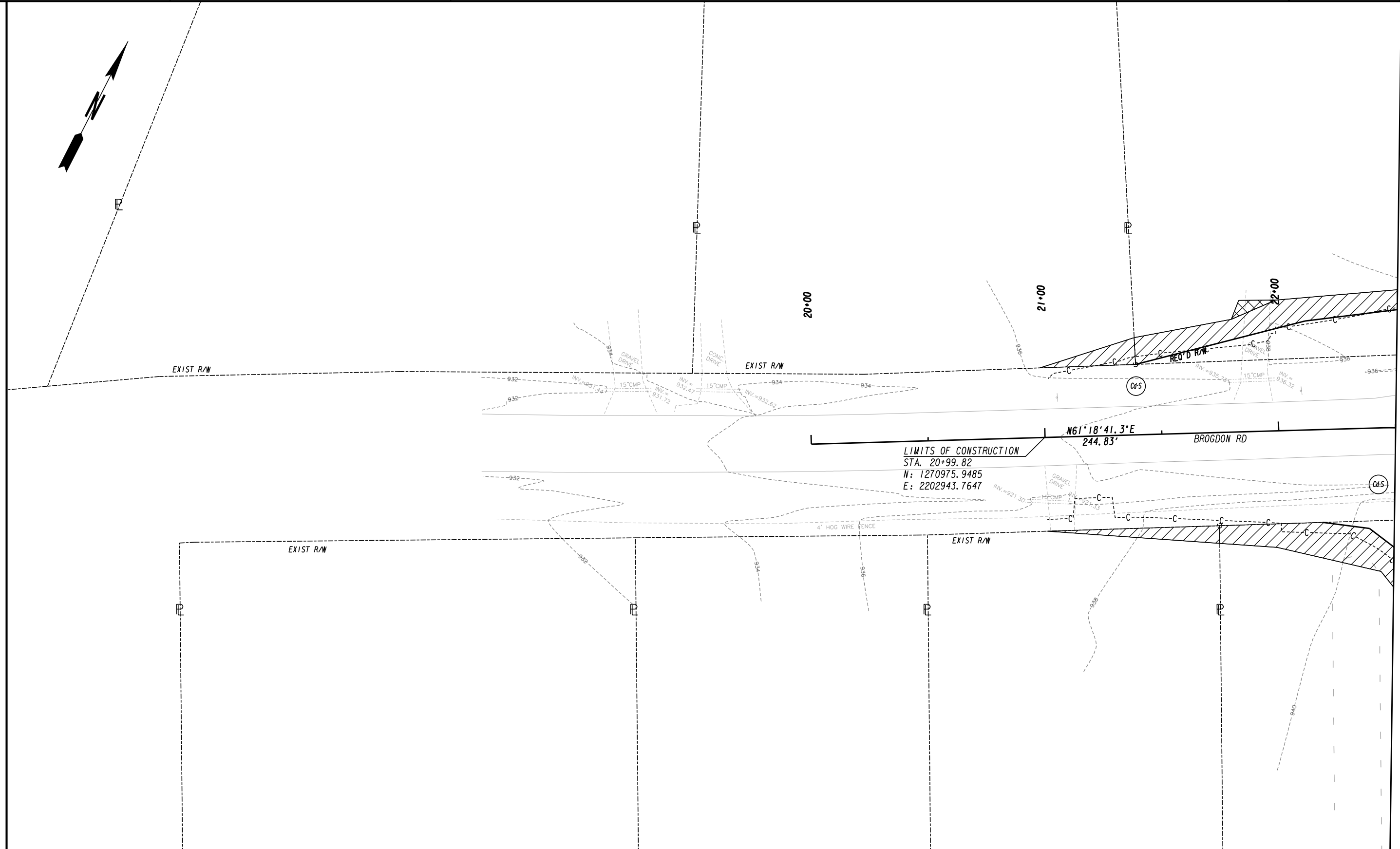
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 MARIETTA, GA 30062
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REVISION DATES	

BMP LOCATION DETAILS
 BROGDON RD & NEW HOPE RD INTERSECTION
 INITIAL PHASE

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BACKCHECKED:	DATE:	54-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



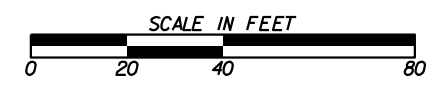
MATCH LINE STA. 22+50 DRAWING NO. 54-0002

-----e-----
 PROPERTY AND EXISTING R/W LINE
 -----C-----F-----
 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
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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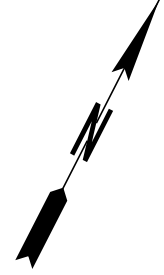
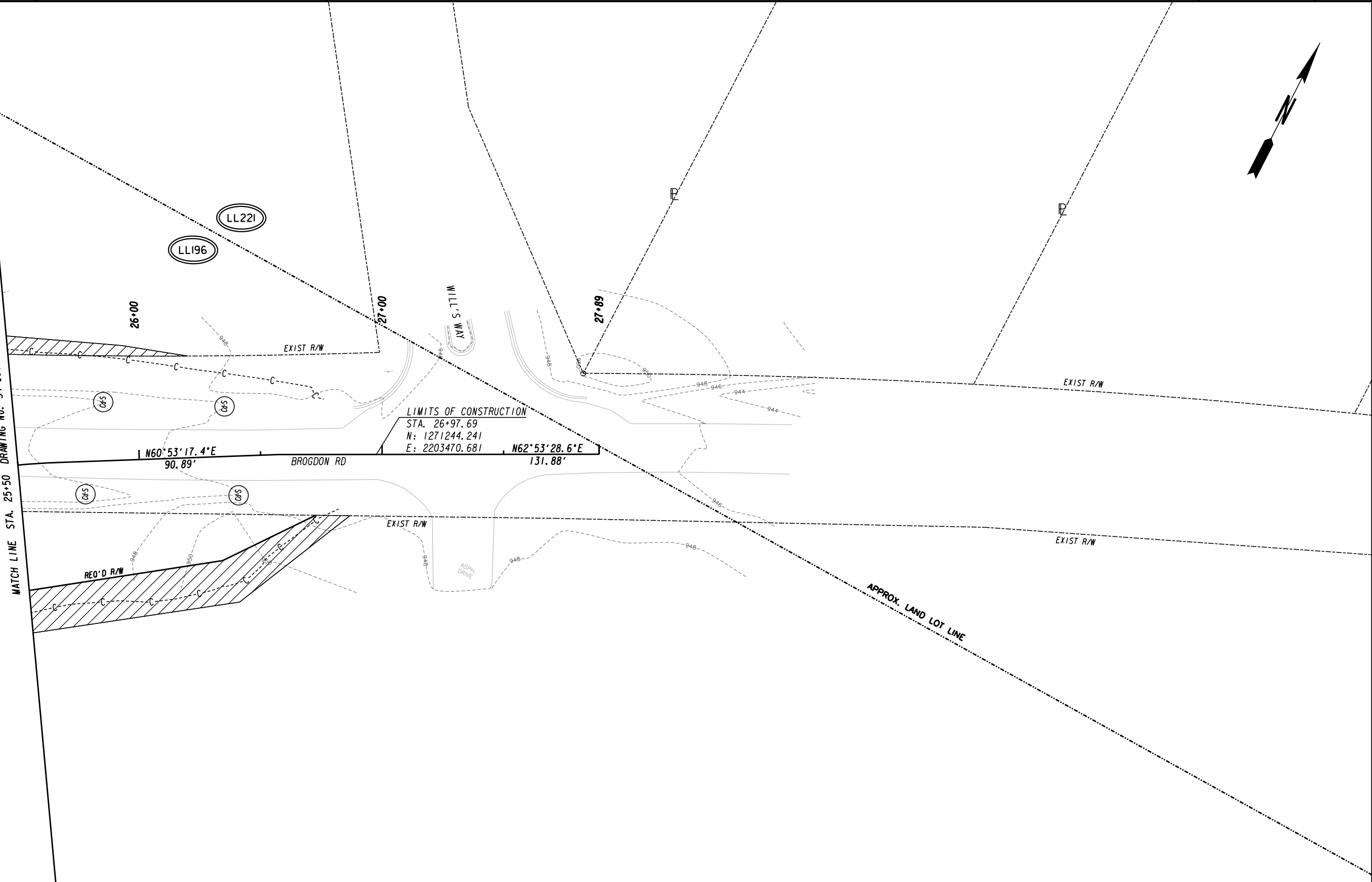


REVISION DATES	

BMP LOCATION DETAILS
BROGDON RD & NEW HOPE RD INTERSECTION
INITIAL PHASE

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BACKCHECKED:	DATE:	54-0004
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VERIFIED:	DATE:	

MATCH LINE STA. 25+50 DRAWING No. 54-0002



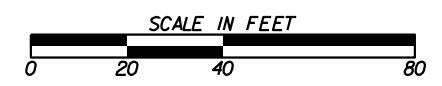
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 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

-----E-----
 ---C---F---
 [Hatched Box]
 [Hatched Box]
 [Cross-hatched Box]

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

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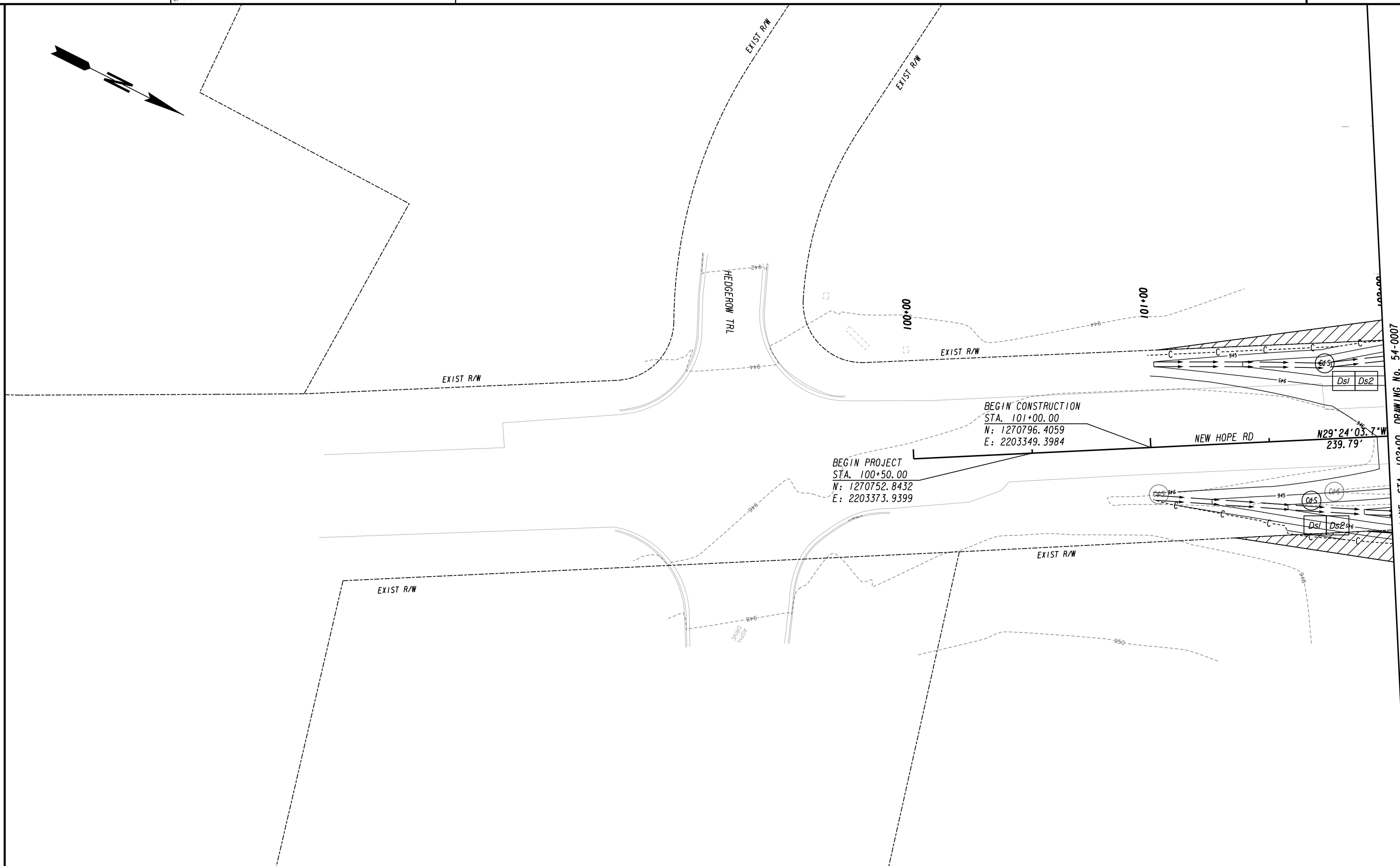
200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
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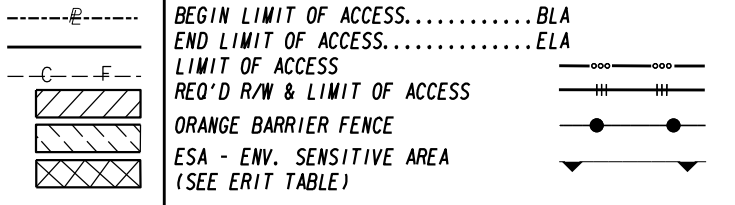
REVISION DATES	

BMP LOCATION DETAILS
 BROGDON RD & NEW HOPE RD INTERSECTION
 INITIAL PHASE

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VERIFIED:	DATE:	

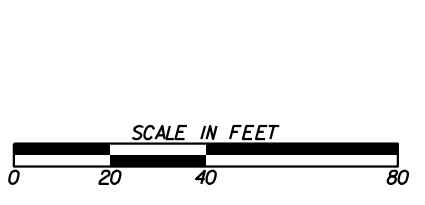


PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



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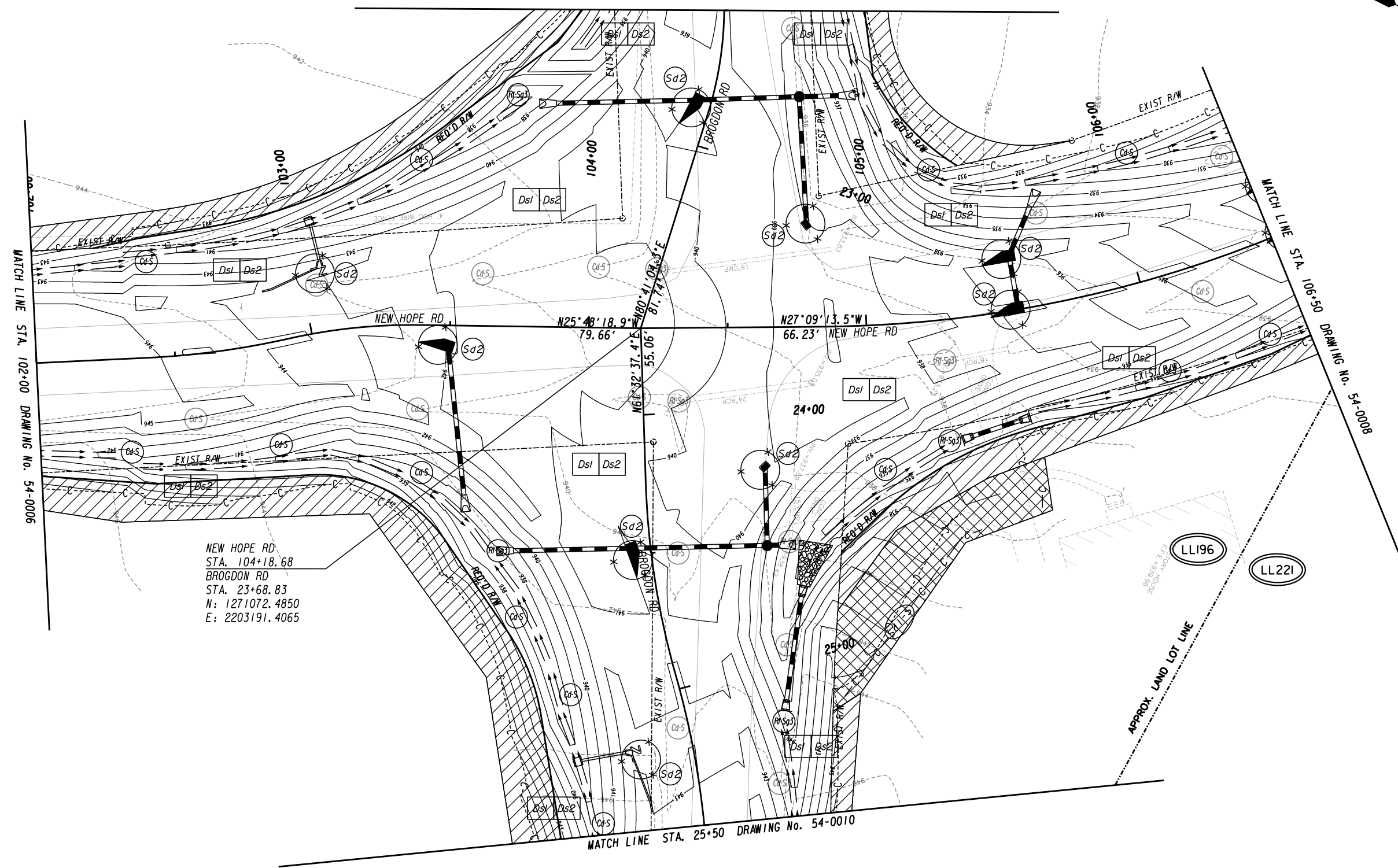


REVISION DATES	

BMP LOCATION DETAILS
 BROGDON RD & NEW HOPE RD INTERSECTION
 INTERMEDIATE PHASE

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CORRECTED:	DATE:	
VERIFIED:	DATE:	

MATCH LINE STA. 22+50 DRAWING No. 54-0009



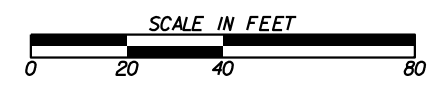
NOTE: CERTAIN BMP'S MAY BE IMPLEMENTED AS PART OF MAINTENANCE OF TRAFFIC PLANS (BY CONTRACTOR)

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CONSTRUCTION LIMITS	---C---F---
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EASEMENT FOR CONSTR OF SLOPES	[Diagonal Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Cross-hatched Box]

BEGIN LIMIT OF ACCESS.....BLA	---o---o---
END LIMIT OF ACCESS.....ELA	--- --- ---
LIMIT OF ACCESS	--- --- ---
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ORANGE BARRIER FENCE	---▲---▲---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	[Symbol]

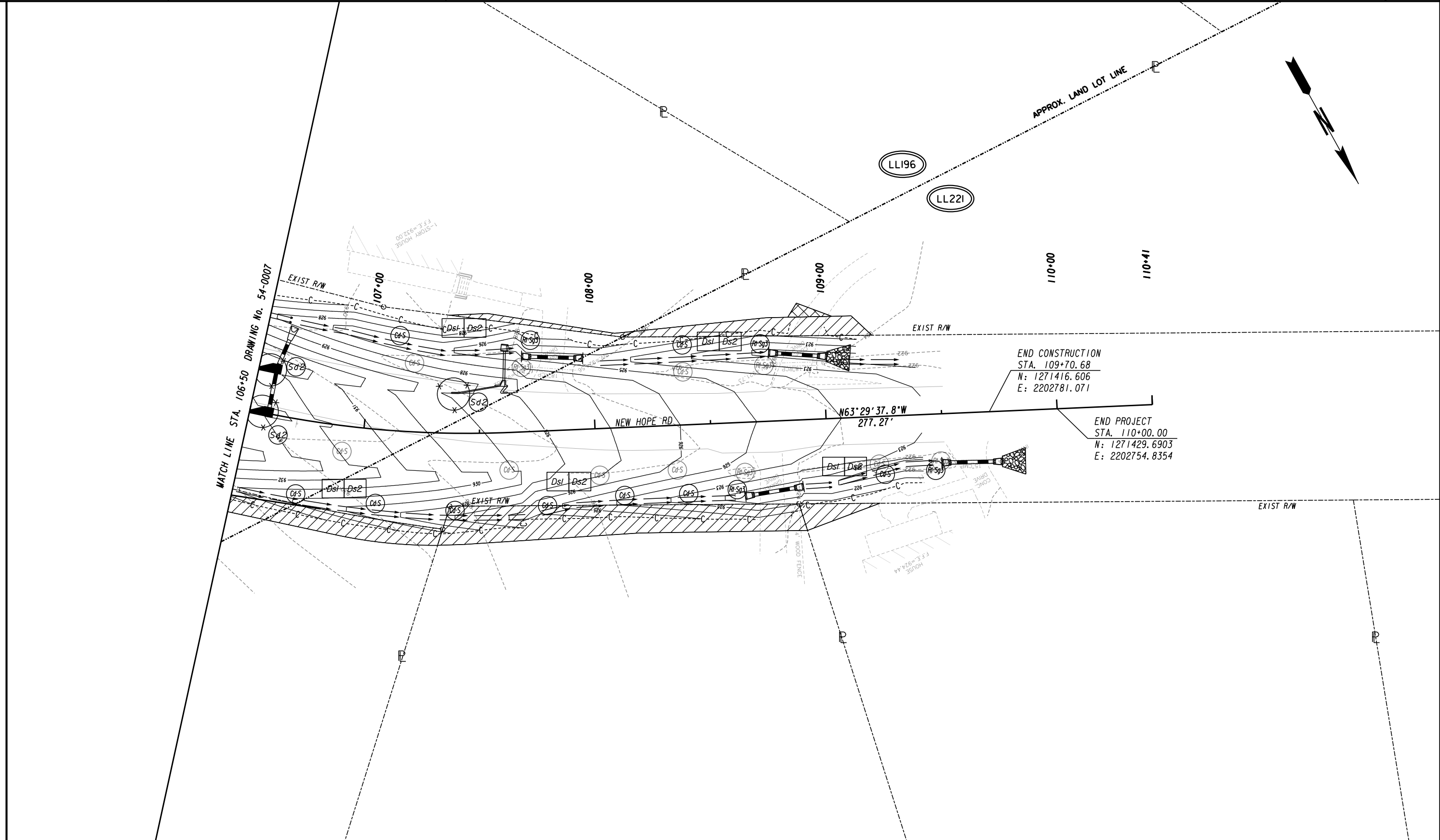
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REVISION DATES	

BMP LOCATION DETAILS		
BROGDON RD & NEW HOPE RD INTERSECTION		
INTERMEDIATE PHASE		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0007
CORRECTED:	DATE:	
VERIFIED:	DATE:	



END CONSTRUCTION
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E: 2202781.071

END PROJECT
STA. 110+00.00
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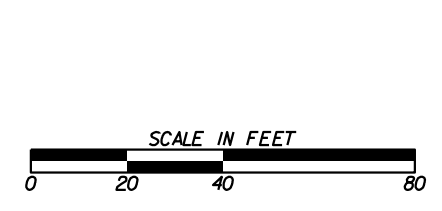
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REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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[Hatched Box]
[Hatched Box]

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

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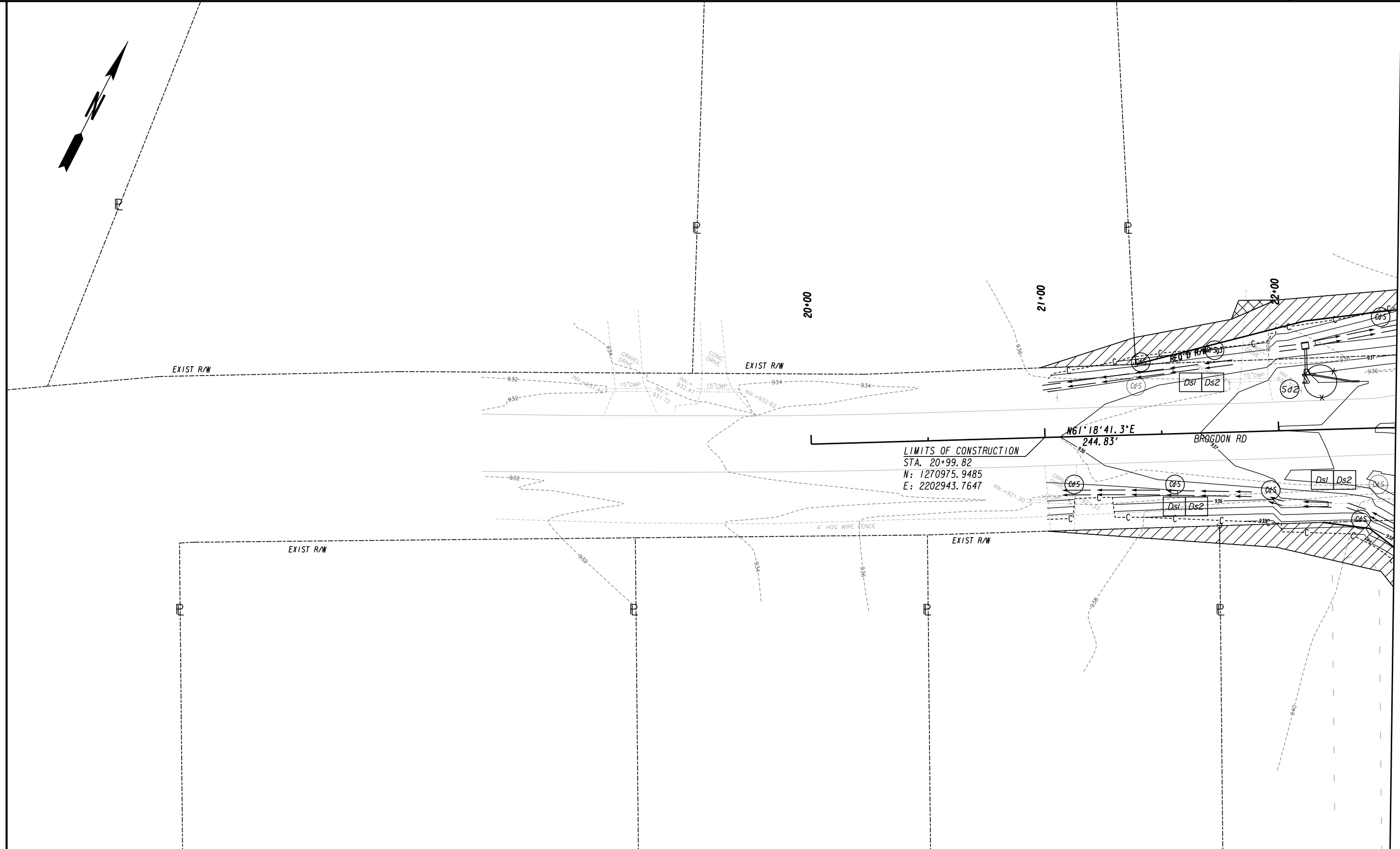
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REVISION DATES	

BMP LOCATION DETAILS
BROGDON RD & NEW HOPE RD INTERSECTION
INTERMEDIATE PHASE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	



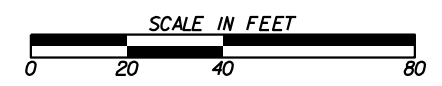
MATCH LINE STA. 22+50 DRAWING NO. 54-0007

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
 ---f--- END LIMIT OF ACCESS.....ELA
 ---C---F--- LIMIT OF ACCESS
 ---o---o---o--- REQ'D R/W & LIMIT OF ACCESS
 ---||---||--- ORANGE BARRIER FENCE
 ●---●--- ESA - ENV. SENSITIVE AREA
 ▼---▼--- (SEE ERIT TABLE)

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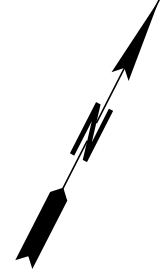
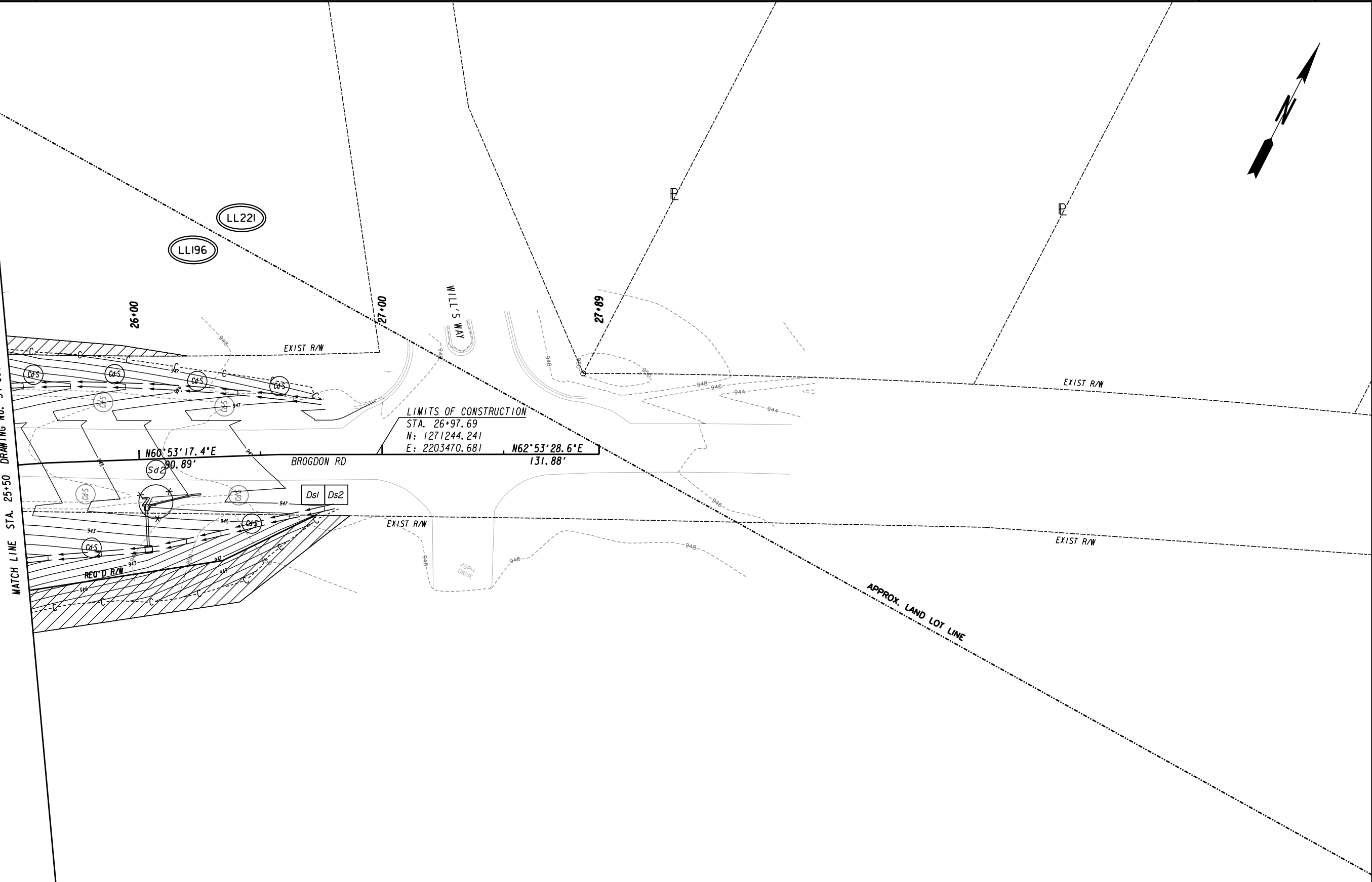


REVISION DATES	

BMP LOCATION DETAILS
BROGDON RD & NEW HOPE RD INTERSECTION
INTERMEDIATE PHASE

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CORRECTED:	DATE:	
VERIFIED:	DATE:	

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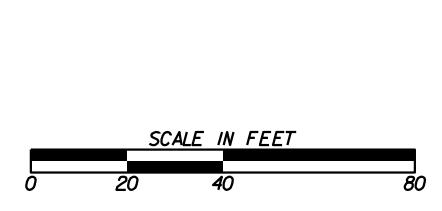


PROPERTY AND EXISTING R/W LINE	-----E-----
REQUIRED R/W LINE	-----F-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	
EASEMENT FOR CONSTR OF SLOPES	
EASEMENT FOR CONSTR OF DRIVES	

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

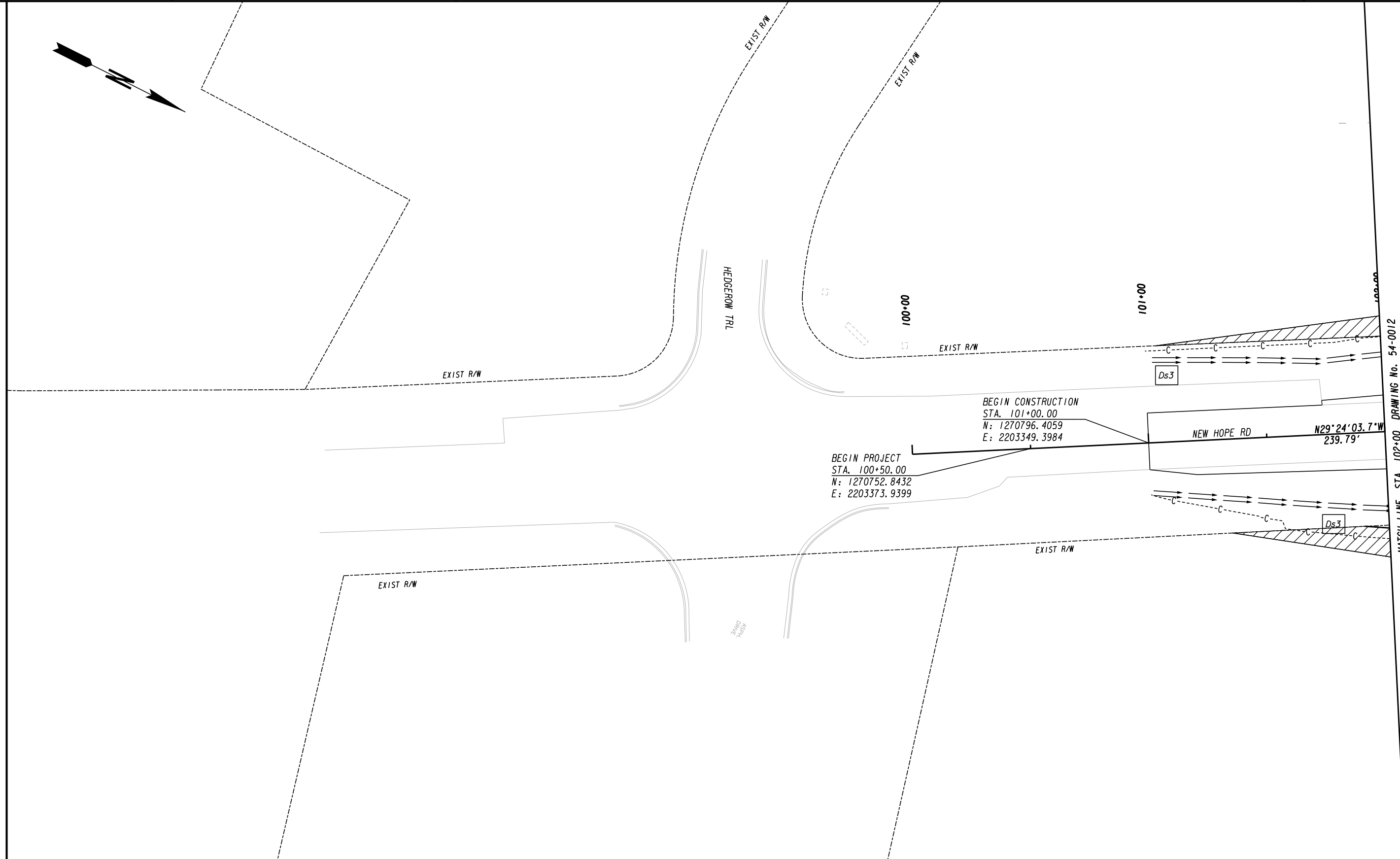
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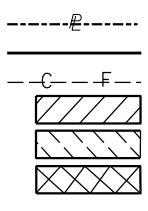
REVISION DATES	

BMP LOCATION DETAILS		
BROGDON RD & NEW HOPE RD INTERSECTION		
INTERMEDIATE PHASE		
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CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 102+00 DRAWING No. 54-0012

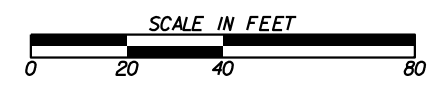
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 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



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

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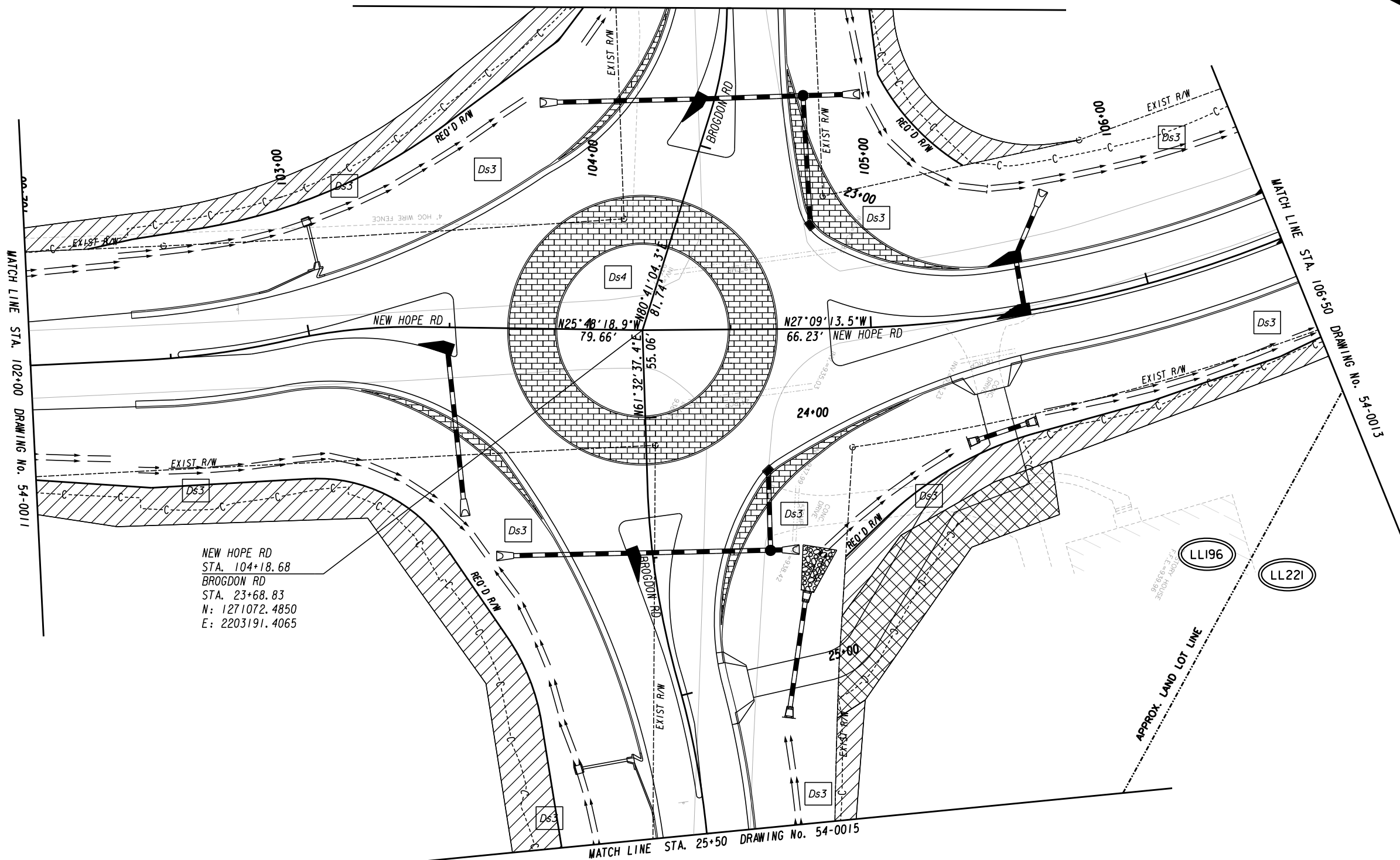
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REVISION DATES	

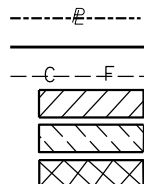
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BROGDON RD & NEW HOPE RD INTERSECTION		
FINAL PHASE		
CHECKED:	DATE:	DRAWING No.
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CORRECTED:	DATE:	
VERIFIED:	DATE:	

MATCH LINE STA. 22+50 DRAWING No. 54-0014



MATCH LINE STA. 25+50 DRAWING No. 54-0015

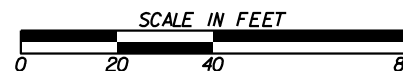
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 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



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

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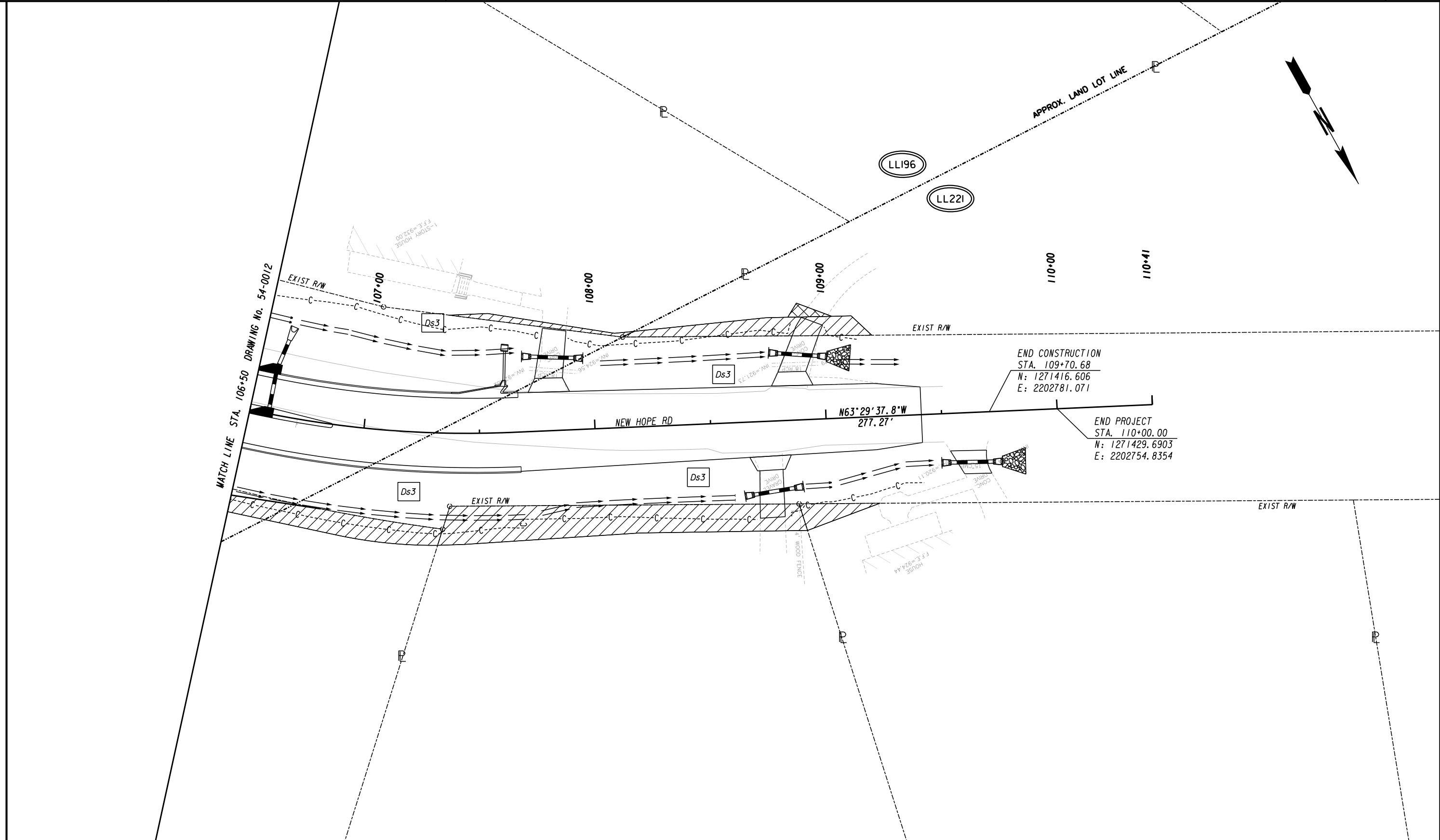
REVISION DATES

NO.	DATE	DESCRIPTION

BMP LOCATION DETAILS

BROGDON RD & NEW HOPE RD INTERSECTION
 FINAL PHASE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0012
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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E: 2202781.071

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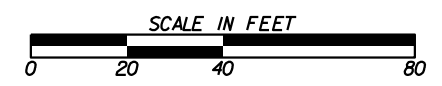
PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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[Hatched Box]
[Hatched Box]
[Hatched Box]

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

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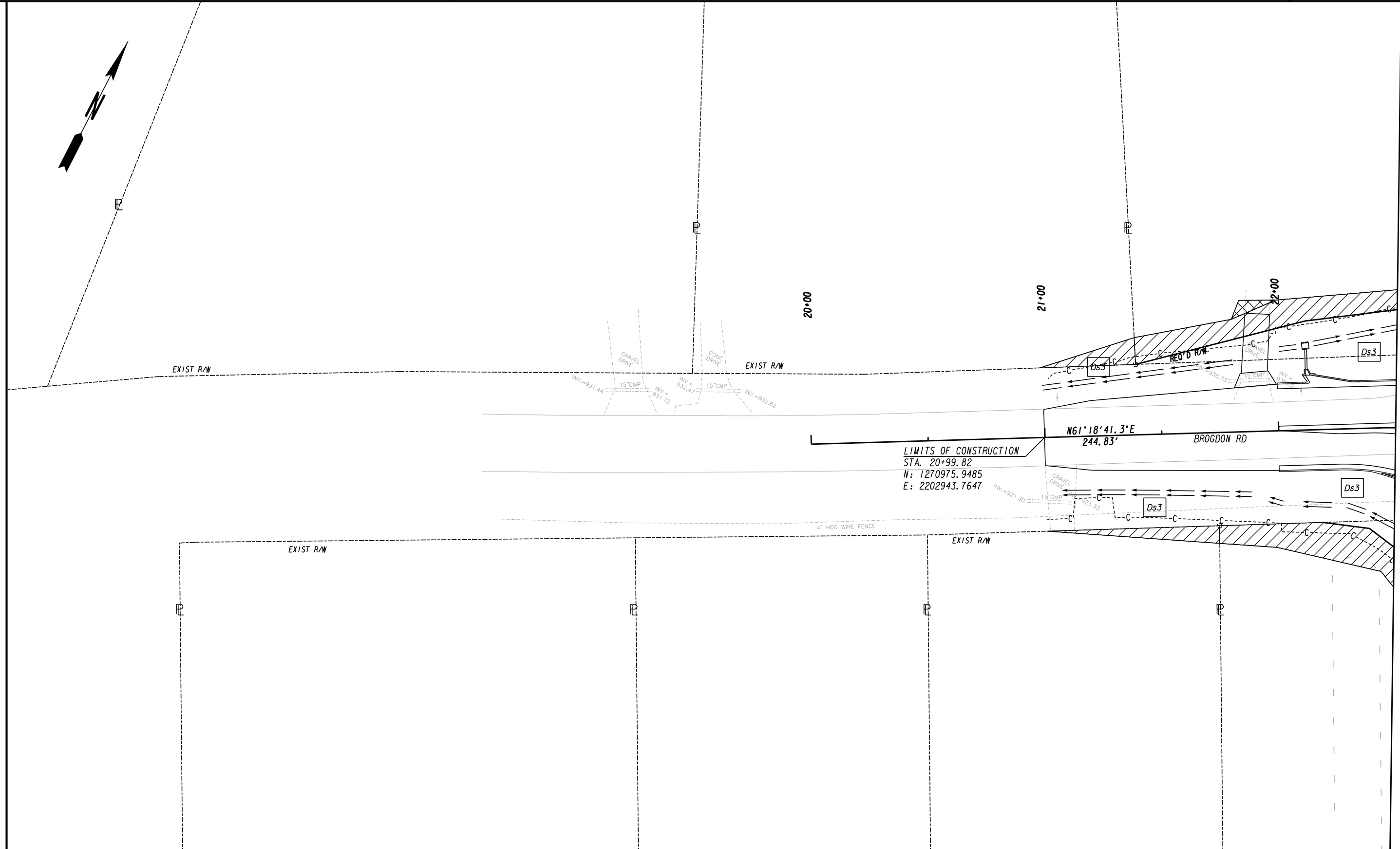
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REVISION DATES	

BMP LOCATION DETAILS
BROGDON RD & NEW HOPE RD INTERSECTION
FINAL PHASE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0013
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VERIFIED:	DATE:	



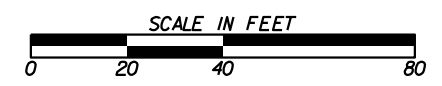
MATCH LINE STA. 22+50 DRAWING No. 54-0012

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REQUIRED R/W LINE	-----
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& MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA	---o---o---o---
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LIMIT OF ACCESS	--- --- --- ---
REQ'D R/W & LIMIT OF ACCESS	--- --- --- ---
ORANGE BARRIER FENCE	---●---●---
ESA - ENV. SENSITIVE AREA	---▼---▼---
(SEE ERIT TABLE)	

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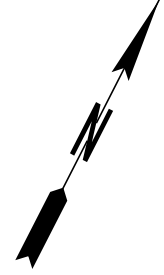
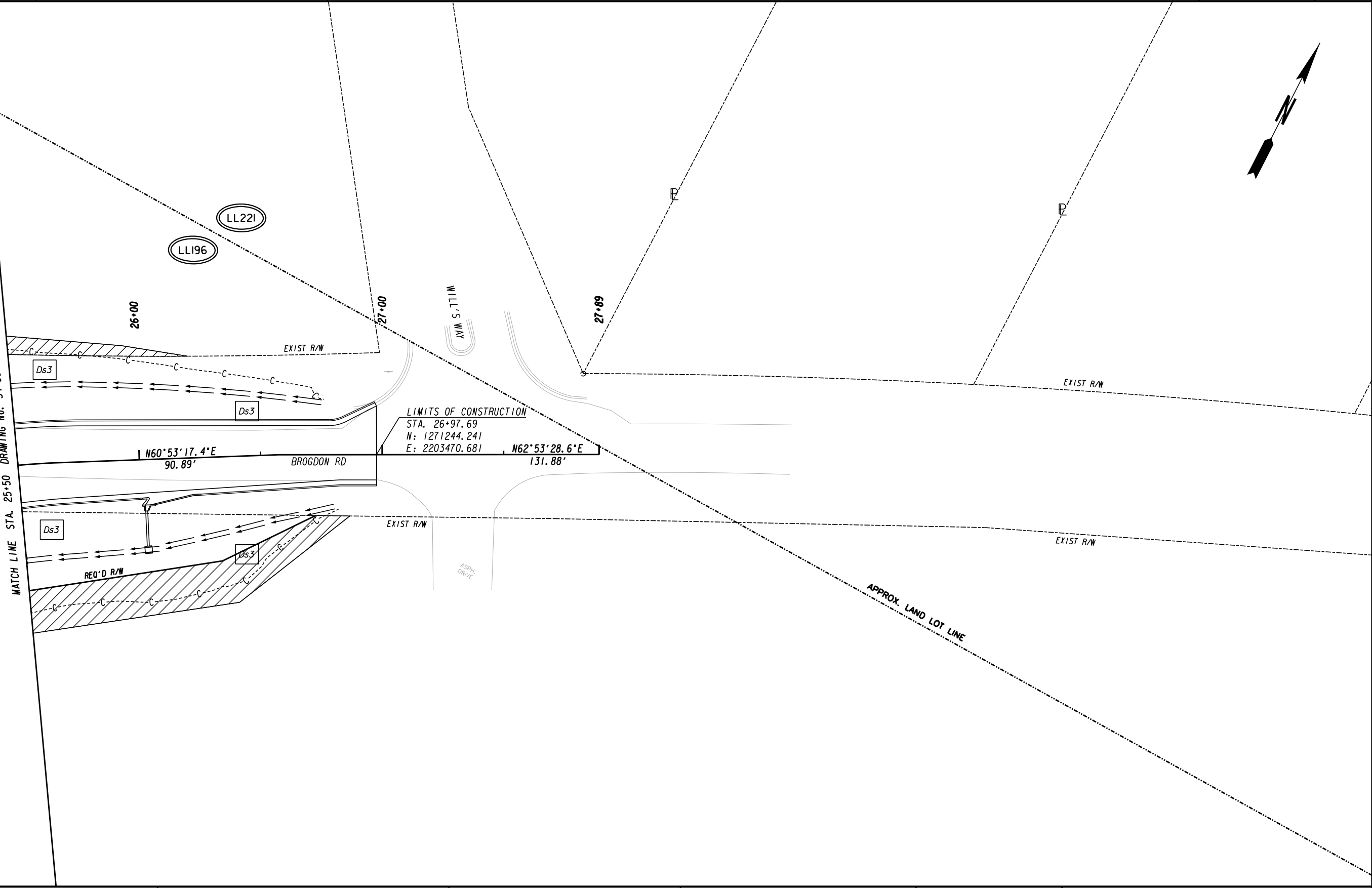


REVISION DATES	

BMP LOCATION DETAILS
BROGDON RD & NEW HOPE RD INTERSECTION
FINAL PHASE

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0014
CORRECTED:	DATE:	
VERIFIED:	DATE:	

MATCH LINE STA. 25+50 DRAWING No. 54-0012



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

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

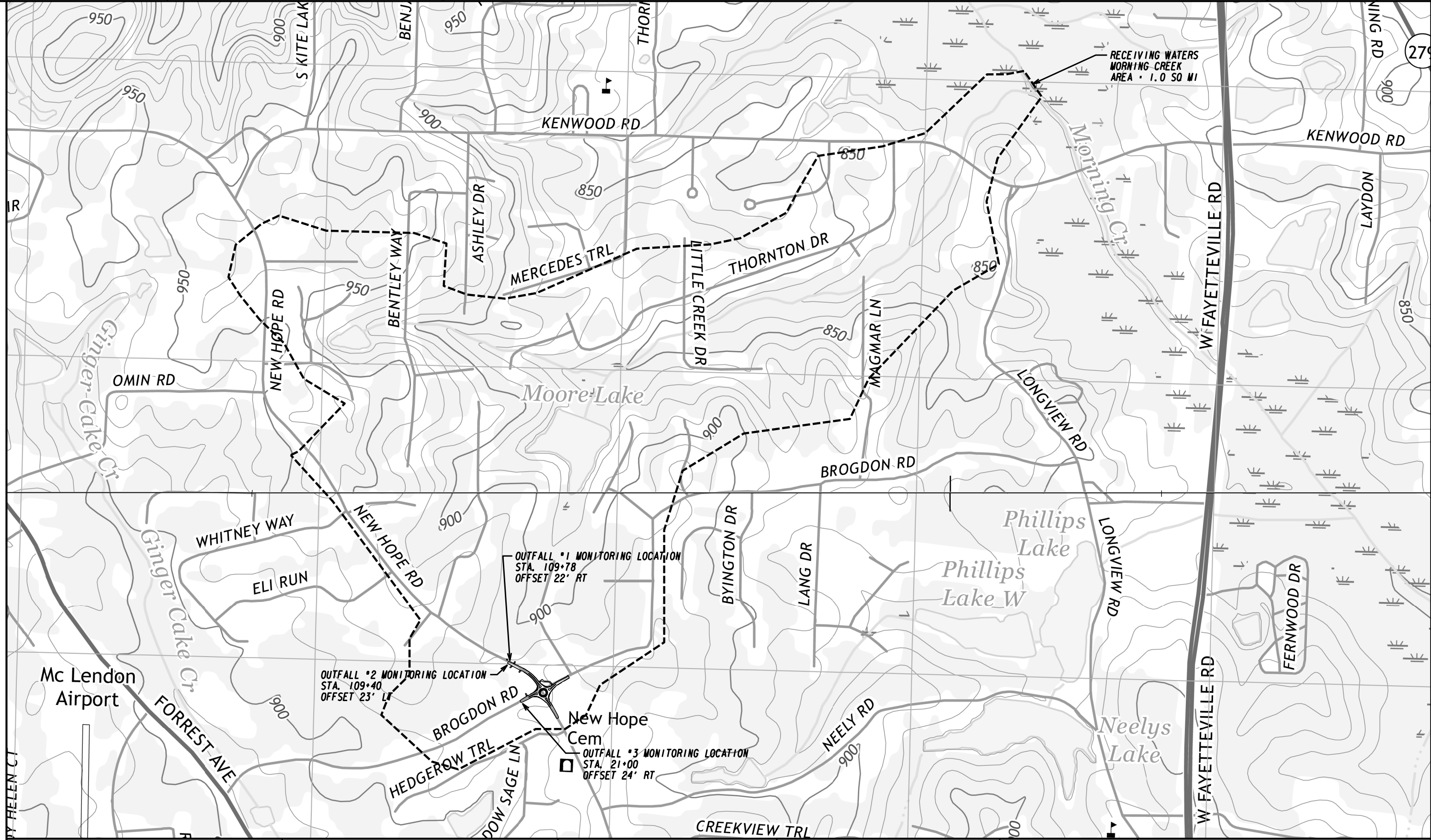
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REVISION DATES	

BMP LOCATION DETAILS			
BROGDON RD & NEW HOPE RD INTERSECTION			
FINAL PHASE			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
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DRAWING No.			54-0015



RECEIVING WATERS
MORNING-CREEK
AREA - 1.0 SQ MI

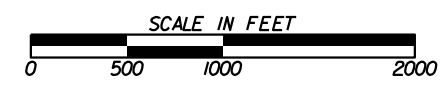
OUTFALL #1 MONITORING LOCATION
STA. 109+78
OFFSET 22' RT

OUTFALL #2 MONITORING LOCATION
STA. 109+40
OFFSET 23' LT

OUTFALL #3 MONITORING LOCATION
STA. 21+00
OFFSET 24' RT

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REVISION DATES

WATERSHED MAP SITE MONITORING PLAN
BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	55-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

SPECIFICATIONS N.T.S.

Mulching Without Seeding
This standard applied to grades or cleared areas where seedings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation
1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials
Select one of the following materials and apply at the depth indicated:
1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.
2. Wood waste (chips, sawdust or bark) shall be applied at a depth of 2 to 3 inches. Organic material from the clearing stage of development should remain on site, be chipped, and applied as mulch. This method of mulching can greatly reduce erosion control costs.
3. Cutback asphalt (slow curing) shall be applied at 1200 gallons per acre (at gallon per sq. yd.).
4. Polyethylene film shall be secured over banks or stockpiled soil material for temporary protection. This material can be salvaged and reused.

Applying Mulch
When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.
1. Dry straw or hay mulch and wood chip shall be applied uniformly by hand or by mechanical equipment.
2. If the area will eventually be covered with perennial vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.
3. Cutback asphalt shall be applied uniformly. Care should be taken in areas of pedestrian traffic due to problems of tracking in or damage to shoes, clothing, etc.
4. Apply polyethylene film on exposed areas.

Anchoring Mulch
1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special packer disk. Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.
Straw or hay mulch spread with special blower-type equipment may be anchored with emulsified asphalt (Grade AE-5 or SS-1). The asphalt emulsion shall be sprayed onto the mulch as it is ejected from the machine. Use 100 gallons of emulsified asphalt and 100 gallons of water per ton of mulch. Tackifiers and binders can be substituted for emulsified asphalt. Please refer to specification Tackifiers and binders. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.
2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.
3. Polyethylene film shall be anchored by trenching at the top as well as incrementally as necessary.

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

SPECIFICATIONS N.T.S.

Grading and Shaping
Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others. No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation
When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall. When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer
Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate of one ton per acre. Graded areas require lime application. Soils can be tested to determine if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with very low fertility, 500 to 700 pounds of 10-10-10 fertilizer or the equivalent per acre (12-16 lbs./1,000 sq. ft.) shall be applied. Fertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel.

Seeding
Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or cultipacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand.

Mulching
Temporary vegetation can, in most cases, be established without the use of mulch. Mulch without seeding should be considered for short term protection. Refer Ds1 - Disturbed Area Stabilization (With Mulching Only).

Irrigation
During times of drought, watering shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

SPECIFICATIONS N.T.S.

Seedbed Preparation
Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used. When conventional seeding is to be used, seedbed preparation will be done as follows:
Broadcast Plantings
1. Tillage at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alternate compacting; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used.
2. Tillage may be done with any suitable equipment.
3. Tillage should be done on the contour where feasible.
4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.
Individual Plants
1. Where individual plants are to be set, the soil shall be prepared by excavation holes, opening furrows, or dibble planting.
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

Planting
Hydraulic Seeding
Mix the seed (incubated if needed), fertilizer, and wood cellulose or wood fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.
Conventional Seeding
Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a cultipacker-seeder, drill, rotary seeder, or other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/4 to 1/2 inch of soil for small seed and 1 to 1 1/2 inch for large seed when using a cultipacker or other suitable equipment.
No-Till Seeding
No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.
Individual Plants
Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots.
Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface.
Where individual holes are dug, fertilizer shall be placed in the bottom of the hole. Two inches of soil shall be added and the plant shall be set in the hole.

PLANT, PLANTING RATES, AND PLANTING DATES FOR PERMANENT COVER

SPECIES	BROADCAST RATES		PLANTING DATES FOR SOUTHERN PIEDMONT REGION												REMARKS
	PER ACRE	PER 1000 SQ. FT.	J	F	M	A	M	J	J	A	S	O	N	D	
BAHIA, PENSACOLA (Paspalum notatum) alone or w/ temp. cover with other perennials	60 lbs. 30 lbs.	1.4 lb. 0.7 lb.	J	F	M	A	M	J	J	A	S	O	N	D	166,000 seed per pound. Low growing. Soil forming. Slow to establish. Plant with a companion crop. Will spread into bermuda pastures and lawns. Mix with Sericea lespedeza or weeping lovegrass.
BAHIA, WILMINGTON (Paspalum notatum) alone or w/ temp. cover with other perennials	60 lbs. 30 lbs.	1.4 lb. 0.7 lb.	J	F	M	A	M	J	J	A	S	O	N	D	1,787,000 seed per pound. Quick cover. Low growing and soil forming. Full sun. Good for athletic fields.
BERMUDA, COMMON (Cynodon dactylon) alone with other perennials	10 lbs. 6 lbs.	0.2 lb. 0.1 lb.	J	F	M	A	M	J	J	A	S	O	N	D	Plant with winter annuals. Plant with tall fescue.
BERMUDA, COMMON (Cynodon dactylon) with temporary cover with other perennials	10 lbs. 6 lbs.	0.2 lb. 0.1 lb.	J	F	M	A	M	J	J	A	S	O	N	D	A cubic foot contains approximately 650 sprigs. A bushel contains 1.25 cubic feet or approximately 800 sprigs.
BERMUDA SPRIGS (Cynodon dactylon) Coastal, Common, or Tri 44	40 cu. ft.	0.9 cu. ft.	J	F	M	A	M	J	J	A	S	O	N	D	Drought tolerant. Full sun or partial shade. It is tolerant to mow and in concentrated flow areas. It is highly resistant to trampling. Do not plant near streams or floodways. Use as shown and adjacent.
CENTPEDE (Eremochloa ophiuroides)	Block sod only		J	F	M	A	M	J	J	A	S	O	N	D	10,000 seed per pound. Denser cover. Drought tolerant and resistant to trampling. Use on roadsides, athletic fields, and with bermuda, bahia, or tall fescue. 50 pounds of tall fescue or 15 pounds of ryegrass per acre with 100 pounds of centpepede seed with 100 pounds of fertilizer.
CROWN VETCH (Coronilla varia) with winter annuals or cool season grasses	15 lbs.	0.3 lb.	J	F	M	A	M	J	J	A	S	O	N	D	227,000 seed per pound. Use alone with or without bermuda. Not for strongly acidic soils. Mix with perennial ryegrass or sericea. Apply topdressing to keep it healthy. Use for heavy use areas or athletic fields.
FESCUE, TALL (Festuca arundinacea) alone with other perennials	50 lbs. 30 lbs.	1.1 lb. 0.7 lb.	J	F	M	A	M	J	J	A	S	O	N	D	Rayed and vigorous growth. Excellent in gully erosion control. Will fix N. Good livestock foliage.
KUDZU (Pueraria thumbergiana) plants or crowns	3'-7' apart		J	F	M	A	M	J	J	A	S	O	N	D	300,000 seed per pound. Weeds adapted. Low maintenance. Mix with weeping lovegrass, bermuda, bahia, or tall fescue. Takes 2 to 3 years to become fully established. Excellent on roadbanks. Inoculate seed with EL inoculant.
LESPEDEZA, SERICA (Lespedeza cuneata) scarified unscarified seed-bearing hay	60 lbs. 75 lbs. 3 tons	1.4 lbs. 1.7 lbs. 138 lbs.	J	F	M	A	M	J	J	A	S	O	N	D	300,000 seed per pound. Mix of green to 24 years. Adapted to most areas. Sericea lespedeza has better tolerance. Mix with weeping lovegrass. Common bermuda, bahia, tall fescue or other annuals. Do not mix with Sericea lespedeza. Slow to develop seed bank. Inoculate seed with EL inoculant.
LESPEDEZA (Lespedeza virgata DC) or (Lespedeza cuneata G. Don) scarified unscarified	60 lbs. 75 lbs.	1.4 lbs. 1.7 lbs.	J	F	M	A	M	J	J	A	S	O	N	D	1,500,000 seed per pound. Quick cover. Drought tolerant. Grows well with Sericea lespedeza on roadbanks.
LESPEDEZA, SHRUB (Lespedeza bicolor) (Lespedeza thumbergiana) plants	3' x 3'		J	F	M	A	M	J	J	A	S	O	N	D	For very wet sites. May clog channels. Dig sprigs from local sources. Use along river banks and shorelines.
LOVEGRASS, WEEPING (Eragrostis curvula) alone with other perennials	4 lbs. 2 lbs.	0.1 lb. 0.05 lb.	J	F	M	A	M	J	J	A	S	O	N	D	Grows well on coastal sand dunes, bayside areas, and golf links. Provides winter cover for wildlife. Mix with Sericea lespedeza except on sand dunes.
MAIDENCANE (Panicum hemitomon) sprigs	2' x 3' spacing		J	F	M	A	M	J	J	A	S	O	N	D	Grows well on coastal sand dunes, bayside areas, and golf links. Provides winter cover for wildlife. Mix with Sericea lespedeza except on sand dunes.
PANICGRASS, ATLANTIC COASTAL (Panicum amarum var. amarulum)	20 lbs.	0.5 lb.	J	F	M	A	M	J	J	A	S	O	N	D	Grows similar to tall fescue.
REED CANARY GRASS (Phalaris arundinacea) alone with other perennials	50 lbs. 30 lbs.	1.1 lbs. 0.7 lb.	J	F	M	A	M	J	J	A	S	O	N	D	227,000 seed per pound. Mix with weeping lovegrass or other low-growing grasses or legumes.
SUNFLOWER, 'AZTEC' MAXIMILLIAN (Helianthus maximiliani)	10 lbs.	0.2 lb.	J	F	M	A	M	J	J	A	S	O	N	D	

Mulching
Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% soil cover.
Applying Mulch
Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or planting. The mulch may be spread by blower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.
Wood cellulose or wood fiber mulch shall be applied uniformly with hydraulic seeding equipment.

Lime Maintenance Application
Apply one ton of agricultural lime every 4 to 6 years or as indicated by soil tests. Soil tests can be conducted to determine more accurate requirements if desired.

FERTILIZER REQUIREMENTS				
TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	NITROGEN TOP DRESSING RATE
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac.
	Second Maintenance	6-12-12 10-10-10	1000 lbs./ac. 400 lbs./ac.	30 lbs./ac.
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	0-50 lbs./ac.
	Second Maintenance	0-10-10 0-10-10	1000 lbs./ac. 400 lbs./ac.	---
3. Ground covers	First	10-10-10	1300 lbs./ac.	---
	Second Maintenance	10-10-10 10-10-10	1300 lbs./ac. 700 lbs./ac.	---
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	---
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	---
	Maintenance	0-10-10	700 lbs./ac.	---
6. Temporary cover crops seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac.
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac.
	Second Maintenance	6-12-12 10-10-10	800 lbs./ac. 400 lbs./ac.	50-100 lbs./ac. 30 lbs./ac.
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac.
	Second Maintenance	0-10-10 0-10-10	1000 lbs./ac. 400 lbs./ac.	---

DURABLE SHRUBS AND GROUND COVERS FOR PERMANENT COVER

Common Name	Scientific Name	Mature Height	Plant Spacing	Comments
Abelia	Abelia grandiflora	3-4 ft.	5 ft.	Also a prostrate form 2 feet high. Sun, semi-shade, Semi-evergreen.
Carolina Yellow Jessamine	Gelsemium sempervirens	low	3 ft.	Vine, Yellow, trumpet-like flowers. Hardy, one of best vines. Evergreen. Native to Georgia.
Carpet Blue	Ajuga reptans	2-4 in.	3 ft.	Needs good drainage, partial shade. Blue or white flowers. Evergreen.
Bearberry Cotoneaster	Cotoneaster dammeri	2-4 in.	5 ft.	White flowers, red fruit. Sun, Evergreen.
Ground Cover Cotoneaster	Cotoneaster salicifolius 'Repens'	1-2 ft.	5 ft.	White flowers, red fruit. Sun, Evergreen.
Rock Cotoneaster	Cotoneaster horizontalis	1-2 ft.	5 ft.	Semi-evergreen, Sun.
Virginia Creeper	Parthenocissus quinquefolia	low	3 ft.	Red in fall, Vine, Deciduous, Native to Georgia.
Daylily	Hemerocallis spp.	2-3 ft.	2 ft.	Many flower colors, Full sun, Very Hardy.
English Ivy	Hedera helix	low	3 ft.	Shade only, Climbs.
Compacta Holly	Ilex crenata 'Compacta'	3-4 ft.	5 ft.	Sun, semi-shade.
Chinese Holly	Ilex cornuta 'Rotunda'	3-4 ft.	5 ft.	Very durable, Sun, semi-shade.
Dwarf Burford Holly	Ilex burfordii 'Nana'	5-8 ft.	8 ft.	
Dwarf Yaupon Holly	Ilex vomitoria 'Nana'	3-4 ft.	5 ft.	Very durable, sun, semi-shade.
Repandens Holly	Ilex crenata 'Repandens'	2-3 ft.	5 ft.	Sun, semi-shade.
Andorra Juniper	Juniperus horizontalis 'Plumosa'	2-3 ft.	5 ft.	Excellent for slopes, Sun.
Andorra Compacta Juniper	Juniperus horizontalis 'Plumosa compacta'	1-2 ft.	5 ft.	More compact than andorra.
Blue Chip Juniper	Juniperus horizontalis 'Blue Chip'	8-10 in.	4 ft.	
Blue Rug Juniper	Juniperus horizontalis 'Wilsoni'	4-6 in.	3 ft.	Very low, Sun.
Parsons Juniper	Juniperus davurica 'Expansa' (Squamata Parsons)	18-24 in.	5 ft.	One of the best, good winter cover.
Pfitzer Juniper	Juniperus chinensis 'Pfitzerana'	6-8 ft.	6 ft.	Needs room.
Prince of Wales Juniper	Juniperus horizontalis 'Prince of Wales'	8-10 in.	4 ft.	Feathery appearance.
Sargent Juniper	Juniperus chinensis 'Sargentii'	1-2 ft.	5 ft.	Full sun, Needs good drainage, Good winter color.
Shore Juniper	Juniperus conferta	2-3 ft.	5 ft.	Emerald Sea or Blue Pacific cultivars are good.
Litope	Litope muscari	8-10 in.	3 ft.	
Creeping Litope	Litope spicata	10-12 in.	1 ft.	Spreads by runners.
Big Leaf Periwinkle	Vinca major	12-15 in.	4 ft.	Lilac flowers in spring. Semi-shade.
Common Periwinkle	Vinca minor	5-6 in.	4 ft.	Lavender-blue flowers in spring. Semi-shade.
Cherokee Rose	Rosa laevigata	2 ft.	5 ft.	Rampant grower, Not for restricted spaces.
Memoria Rose	Rosa weuchartiana	2 ft.	5 ft.	Rampant grower.
St. Johnswort	Hypericum calycinum	8-12 in.	3 ft.	Semi-shade.
Anthony Waterer Spirea	Spiraea bumalda	3-4 ft.	5 ft.	Sun.
Thunberg Spirea	Spiraea thibergii	3-4 ft.	5 ft.	

REVISION DATES

EROSION CONTROL CONSTRUCTION DETAILS

BROGDON RD & NEW HOPE RD INTERSECTION

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	56-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



200 NORTH COBB PARKWAY, BLDG. 400, SUITE 413
MARIETTA, GA 30062
PHONE: (770) 971-5407 FAX: (770) 971-0620

**(Sd1-S) SEDIMENT BARRIER
TYPE C SILT FENCE**
N.T.S.

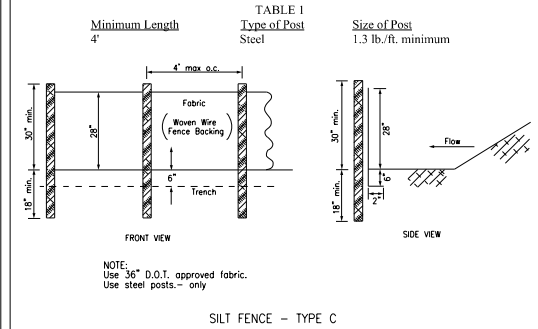
Type C fence is 36-inches wide with wire reinforcement. The wire reinforcement is necessary because this fabric allows almost three times the flow rate as Type A silt fence. Type C silt fence shall be used where runoff flows or velocities are particularly high or where slopes exceed a vertical of 10 feet. Provide a riprap splash pad or other outlet protection device for any point where flow may top the sediment fence. Ensure that the maximum height of the fence at a protected, reinforced outlet does not exceed 1 ft. and that support post spacing does not exceed 4 ft.

CONSTRUCTION SPECIFICATIONS

- The manufacturer shall have either an approved color mark yarn in the fabric or label the fabricated silt fence with both the manufacturer and fabric name every 100 feet.
- The temporary silt fence shall be installed according to this specification, as shown on the plans or as directed by the engineer. For installation of the fabric, see the figures below.
- Post installation shall start at the center of the low-point (if applicable) with remaining posts spaced 4 feet apart. Only steel posts shall be used with Type C silt fence. For post size requirements, see Table 1 below.
- Along stream buffers and other sensitive areas, two rows of Type C silt fence or one row of Type C silt fence backed by haybales shall be used.

MAINTENANCE

Sediment shall be removed once it has accumulated to one-half the original height of the barrier. Filter fabric shall be replaced whenever it has deteriorated to such an extent that the effectiveness of the fabric is reduced (approximately six months). Temporary sediment barriers shall remain in place until disturbed areas have been permanently stabilized. All sediment accumulated at the barrier shall be removed and properly disposed of before the barrier is removed.



(Cd-S) STONE CHECK DAM
N.T.S.

NOT TO BE USED IN A LIVE STREAM.

DESIGN CRITERIA

Formal design is not required. The following standards shall be used:
Drainage Area:
Drainage area shall not exceed two acres.

Height:
The center of the check dam must be at least 9 inches lower than outer edges. Dam height should be 2 feet maximum measured to center of check dam.

Side Slopes:
Side slopes shall be 2:1 or flatter.

Spacing:
Two or more check dams in series shall be used for drainage areas greater than one acre. Maximum spacing between dams should be such that the toe of the upstream dam is at the same elevation as the top of the downstream dam.

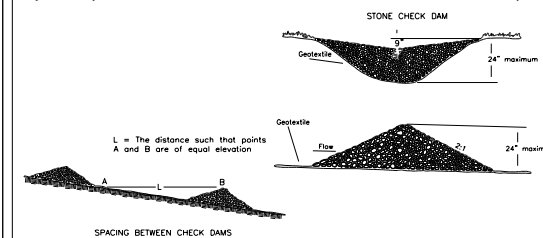
Geotextiles:
A geotextile should be used as a separator between the graded stone and the soil base and abutments. The geotextile will prevent the migration of soil particles from the subgrade into the graded stone. The geotextile shall be selected/specified in accordance with AASHTO M288-96 Section 7.3, Separation Requirements, Table 3. Geotextiles shall be "set" into the subgrade soils. The geotextile shall be placed immediately adjacent to the subgrade without any voids and extend five feet beyond the downstream toe of the dam to prevent scour.

CONSTRUCTION SPECIFICATIONS

Stone check dams should be constructed of graded size 2-10 inch stone. Mechanical or hand placement shall be required to insure complete coverage of entire width of ditch or swale and that center of dam is lower than edges.

MAINTENANCE

Periodic inspection and required maintenance must be provided. Sediment shall be removed when it reaches a depth of one-half the original dam height or before. If the area is to be mowed, check dams shall be removed once final stabilization has occurred. Otherwise, check dams may remain in place permanently. After removal, the area beneath the dam shall be seeded and mulched immediately.



(St) STORM DRAIN OUTLET PROTECTION
N.T.S.

DESIGN CRITERIA

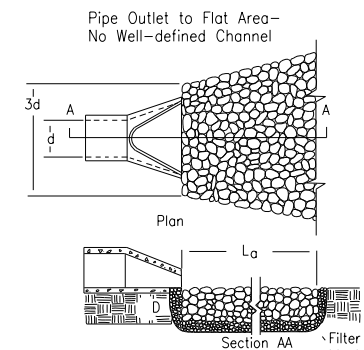
Geotextile - Geotextiles should be used as a separator between the graded stone, the soil base, and the abutments. The geotextile will prevent the migration of soil particles from the subgrade into the graded stone. The geotextile shall be specified in accordance with AASHTO M288-96 Section 7.5, Permanent Erosion Control Recommendations. The geotextile should be placed immediately adjacent to the subgrade without any voids.

CONSTRUCTION SPECIFICATIONS

- Ensure that the subgrade for the filter and riprap follows the required lines and grades shown in the plan. Compact any fill required in the subgrade to the density of the surrounding undisturbed material. Low areas in the subgrade on undisturbed soil may also be filled by increasing the riprap thickness.
- The riprap and gravel filter must conform to the specified grading limits shown on the plans.
- Geotextile must meet design requirements and be properly protected from punching or tearing during installation. Repair any damage by removing the riprap and placing another piece of filter fabric over the damaged area. All connecting joints should overlap a minimum of 1 ft. If the damage is extensive, replace the entire filter fabric.
- Riprap may be placed by equipment, but take care to avoid damaging the filter.
- The minimum thickness of the riprap should be 1.5 times the maximum stone diameter.
- Construct the apron on zero grade with no overfall at the end. Make the top of the riprap at the downstream end level with the receiving area or slightly below it.
- Ensure that the apron is properly aligned with the receiving stream and preferably straight throughout its length. If a curve is needed to fit site conditions, place it in the upper section of the apron.
- Immediately after construction, stabilize all disturbed areas with vegetation.
- Stone quality - Select stone for riprap from field stone or quarry stone. The stone should be hard, angular, and highly weather-resistant. The specific gravity of the individual stones should be at least 2.5.
- Filter - Install a filter to prevent soil movement through the openings in the riprap. The filter should consist of a graded gravel layer or a synthetic filter cloth.

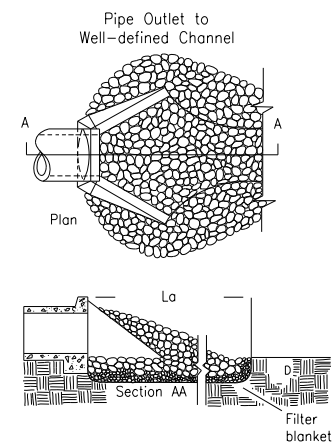
MAINTENANCE

Inspect riprap outlet structures after heavy rains to see if any erosion around or below the riprap has taken place or if stones have been dislodged. Immediately make all needed repairs to prevent further damage.



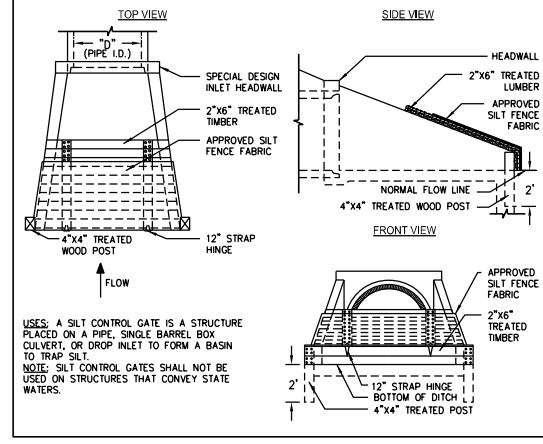
NOTES:

- Ld is the length of the riprap apron.
- D=1.5 times the maximum stone diameter but not less than 6".
- In a well-defined channel extend the apron up the channel banks to an elevation of 6" above the maximum lateral depth or to the top of the bank, whichever is less.
- A filter blanket or filter fabric should be installed between the riprap and soil foundation.



SILT CONTROL GATE WITH SLOTTED BOARD DAM
TYPE 3: FOR FLARED END SECTIONS AND TAPERED HEADWALLS

- NOTES:**
- SLOTTED BOARD DAM SHALL BE INSTALLED WITH MINIMUM SIZE 4" X 4" POSTS.
 - BOARDS SHOULD HAVE A 0.5" TO 1" SPACE BETWEEN THEM AND MUST HAVE GROUND OR BOTTOM OF CONCRETE CONTACT.
 - MINIMUM SIZE 3-4" STONE FILTER SHALL BE INSTALLED AROUND THE UPSTREAM SIDE OF THE BOARD DAM.
 - POSTS FOR THE SILT CONTROL GATE SHALL BE 4" X 4" TREATED LUMBER AND FACE BOARDS SHALL BE 2" X 6" TREATED LUMBER WITH NO SPACING ALLOWED BETWEEN BOARDS.
 - AN APPROVED SILT FENCE FABRIC SHALL BE SECURELY FASTENED TO THE FRONT OF THE STRUCTURE USING STAPLES (BE SURE TO HAVE SILT FENCE ON UPSTREAM SIDE OF STRUCTURE).
 - SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT GATE. FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED AND/OR DETERIORATED.
 - ALL DISTURBED AREAS SHALL BE VEGETATED IMMEDIATELY AFTER CONSTRUCTION WITH PERMANENT VEGETATION.



**(Sd2-F) INLET SEDIMENT TRAP
FILTER FABRIC WITH SUPPORTING FRAME**
N.T.S.

DESIGN CRITERIA

Many sediment filtering devices can be designed to serve as temporary sediment traps. Sediment traps must be self-draining unless they are otherwise protected in an approved fashion that will not present a safety hazard. The drainage area entering the inlet sediment trap shall be no greater than one acre.

If runoff may bypass the protected inlet, a temporary dike should be constructed on the down slope side of the structure. Also, a stone filter ring may be used on the up slope side of the inlet to slow runoff and filter large soil particles. Refer to **Fr - Stone Filter Ring**.

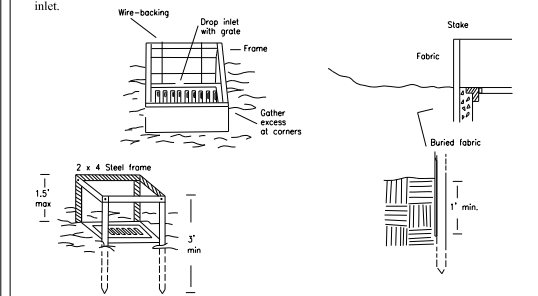
CONSTRUCTION SPECIFICATIONS

This method of inlet protection is applicable where the inlet drains a relatively flat area (slope no greater than 5%) and shall not apply to inlets receiving concentrated flows, such as in street or highway medians. Type C silt fence supported by steel posts shall be used. The stakes shall be spaced evenly around the perimeter of the inlet a maximum of 3 feet apart, and securely driven into the ground, approximately 18 inches deep. The fabric shall be entrenched 12 inches and backfilled with crushed stone or compacted soil. Fabric and wire shall be securely fastened to the posts, and fabric ends must be overlapped a minimum of 18 inches or wrapped together around a post to provide a continuous fabric barrier around the inlet.

MAINTENANCE

The trap shall be inspected daily and after each rain and repairs made as needed. Sediment shall be removed when the sediment has accumulated to one-half the height of the trap. **Sediment shall not be washed into the inlet.** It shall be removed from the sediment trap and disposed of and stabilized so that it will not enter the inlet, again.

When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.



**(Sd2-P) INLET SEDIMENT TRAP
CURB INLET PROTECTION**
N.T.S.

DESIGN CRITERIA

Many sediment filtering devices can be designed to serve as temporary sediment traps. Sediment traps must be self-draining unless they are otherwise protected in an approved fashion that will not present a safety hazard. The drainage area entering the inlet sediment trap shall be no greater than one acre.

If runoff may bypass the protected inlet, a temporary dike should be constructed on the down slope side of the structure. Also, a stone filter ring may be used on the up slope side of the inlet to slow runoff and filter large soil particles. Refer to **Fr - Stone Filter Ring**.

CONSTRUCTION SPECIFICATIONS

Once pavement has been installed, a curb inlet filter shall be installed on inlets receiving runoff from disturbed areas. **This method of inlet protection shall be removed if a safety hazard is created.**

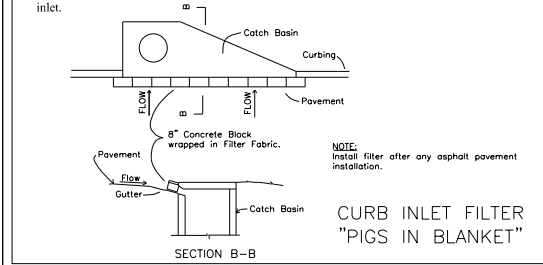
One method of curb inlet protection uses "pigs-in-a-blanket" - 8 inch concrete blocks wrapped in filter fabric. See the figure below. Another method uses gravel bags constructed by wrapping DOT #57 stone with filter fabric, wire, plastic mesh, or equivalent material. A gap of approximately 4 inches shall be left between the inlet filter and the inlet to allow for overflow and prevent hazardous ponding in the roadway. Proper installation and maintenance are crucial due to possible ponding in the roadway, resulting in a hazardous condition.

Several other methods are available to prevent the entry of sediment into storm drain inlets.

MAINTENANCE

The trap shall be inspected daily and after each rain and repairs made as needed. Sediment shall be removed from curb inlet protection immediately. **Sediment shall not be washed into the inlet.** It shall be removed from the sediment trap and disposed of and stabilized so that it will not enter the inlet, again.

When the contributing drainage area has been permanently stabilized, all materials and any sediment shall be removed, and either salvaged or disposed of properly. The disturbed area shall be brought to proper grade, then smoothed and compacted. Appropriately stabilize all disturbed areas around the inlet.

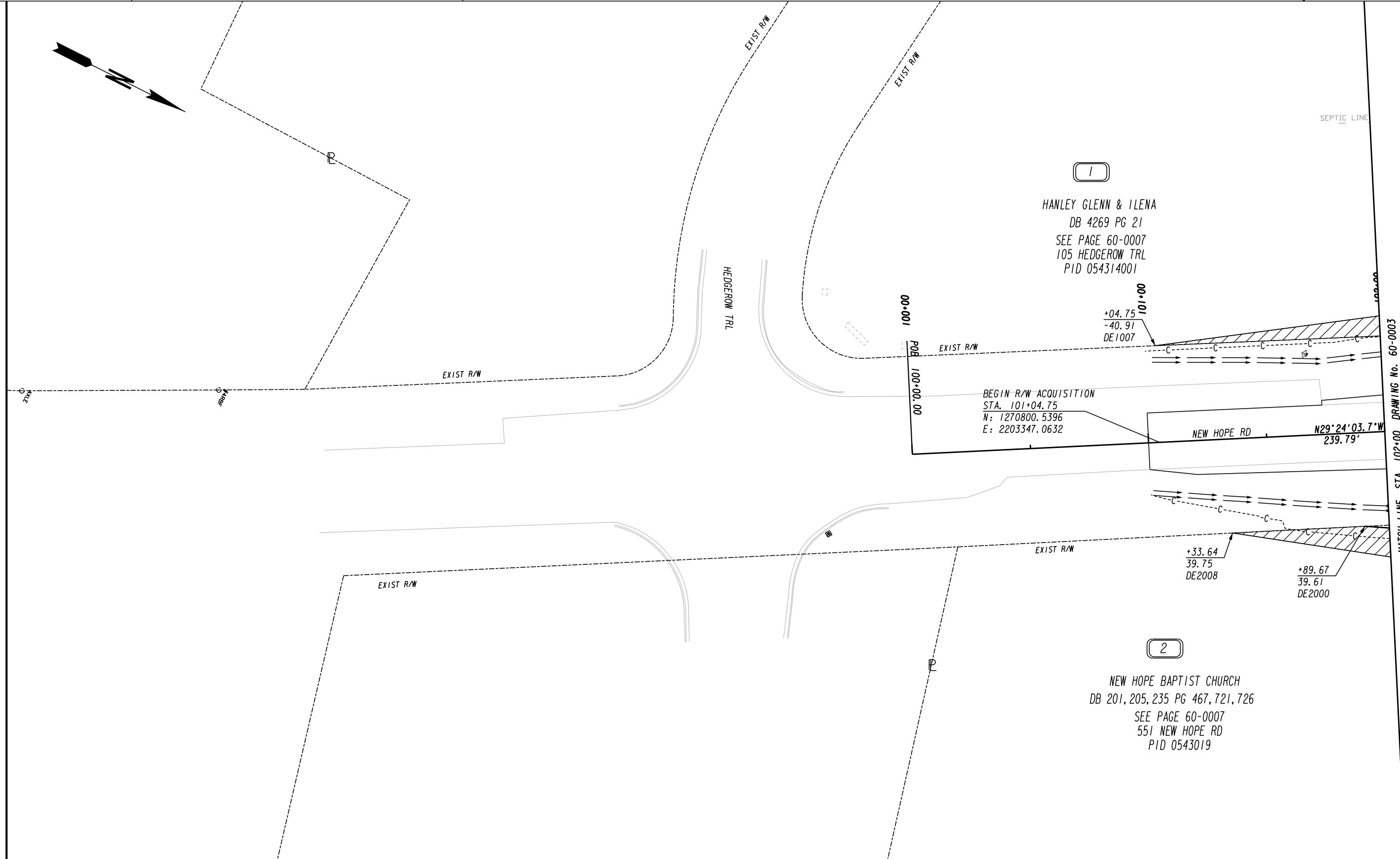


*** * NOTE: CONCRETE BLOCKS SHALL NOT BE PERMITTED FOR USE IN, Sd2-P, INLET SEDIMENT TRAP.**

REVISION DATES

EROSION CONTROL CONSTRUCTION DETAILS
BROGDON RD & NEW HOPE RD INTERSECTION

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



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

BEGIN LIMIT OF ACCESS.....BLA	---o---o---
END LIMIT OF ACCESS.....ELA	---o---o---
LIMIT OF ACCESS	---o---o---
REQ'D R/W & LIMIT OF ACCESS	---o---o---

SCALE IN FEET

0 20 40 80

DATE	REVISIONS	DATE	REVISIONS

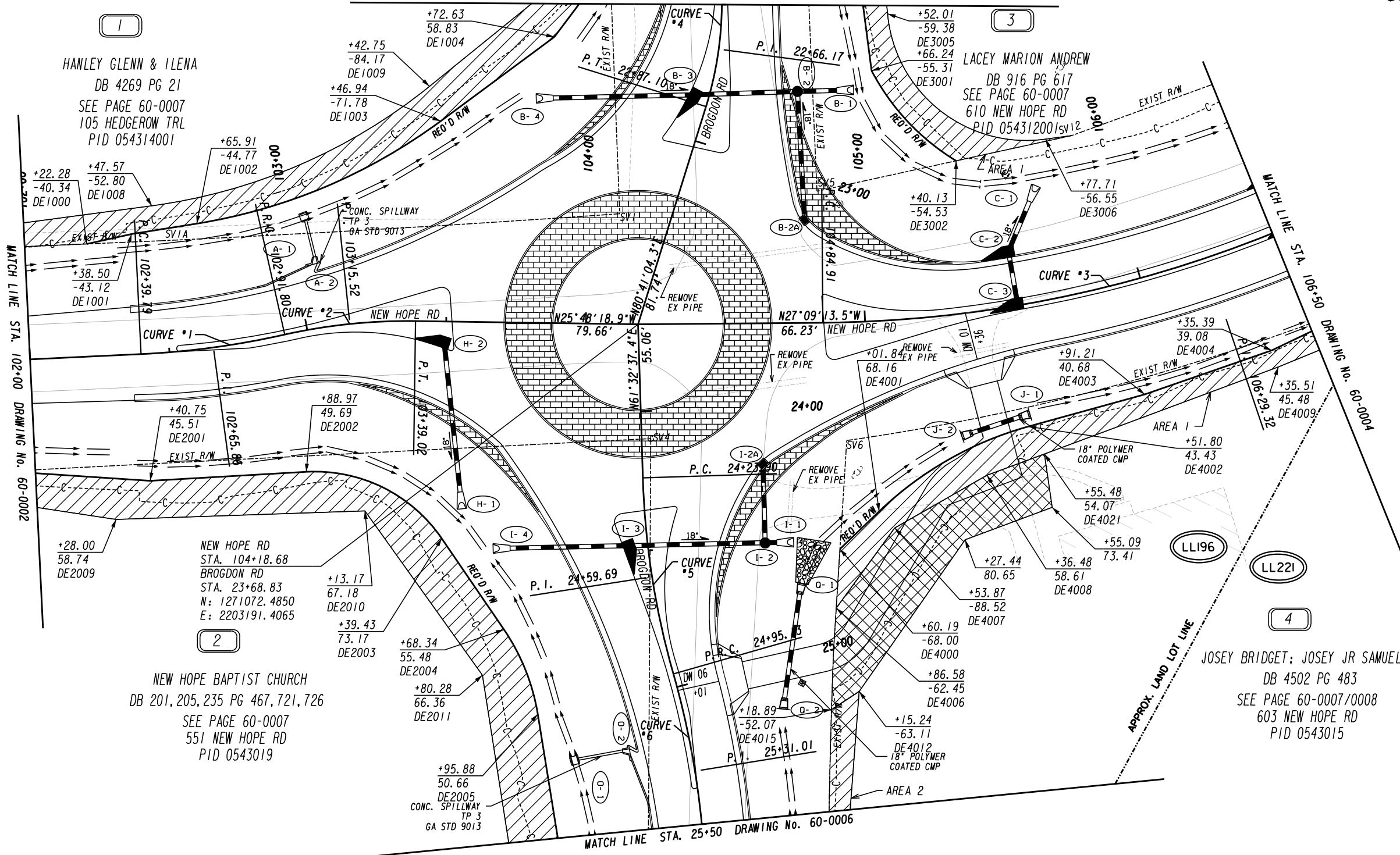
FAYETTE COUNTY
BOARD OF COMMISSIONERS

RIGHT OF WAY MAP

PROJECT NO: 1866.011
COUNTY: FAYETTE
LAND LOT NO: 196
LAND DISTRICT:
GMD
DATE SH 2 OF 8

DRAWING No.
60-0002

MATCH LINE STA. 22+50 DRAWING No. 60-0005



PROPERTY AND EXISTING R/W LINE	-----E-----
REQUIRED R/W LINE	-----F-----
CONSTRUCTION LIMITS	-----G-----
EASEMENT FOR CONSTR	-----H-----
& MAINTENANCE OF SLOPES	-----I-----
EASEMENT FOR CONSTR OF SLOPES	-----J-----
EASEMENT FOR CONSTR OF DRIVES	-----K-----

BEGIN LIMIT OF ACCESS.....BLA	-----L-----
END LIMIT OF ACCESS.....ELA	-----M-----
LIMIT OF ACCESS	-----N-----
REQ'D R/W & LIMIT OF ACCESS	-----O-----

SCALE IN FEET

0 20 40 80

DATE	REVISIONS	DATE	REVISIONS

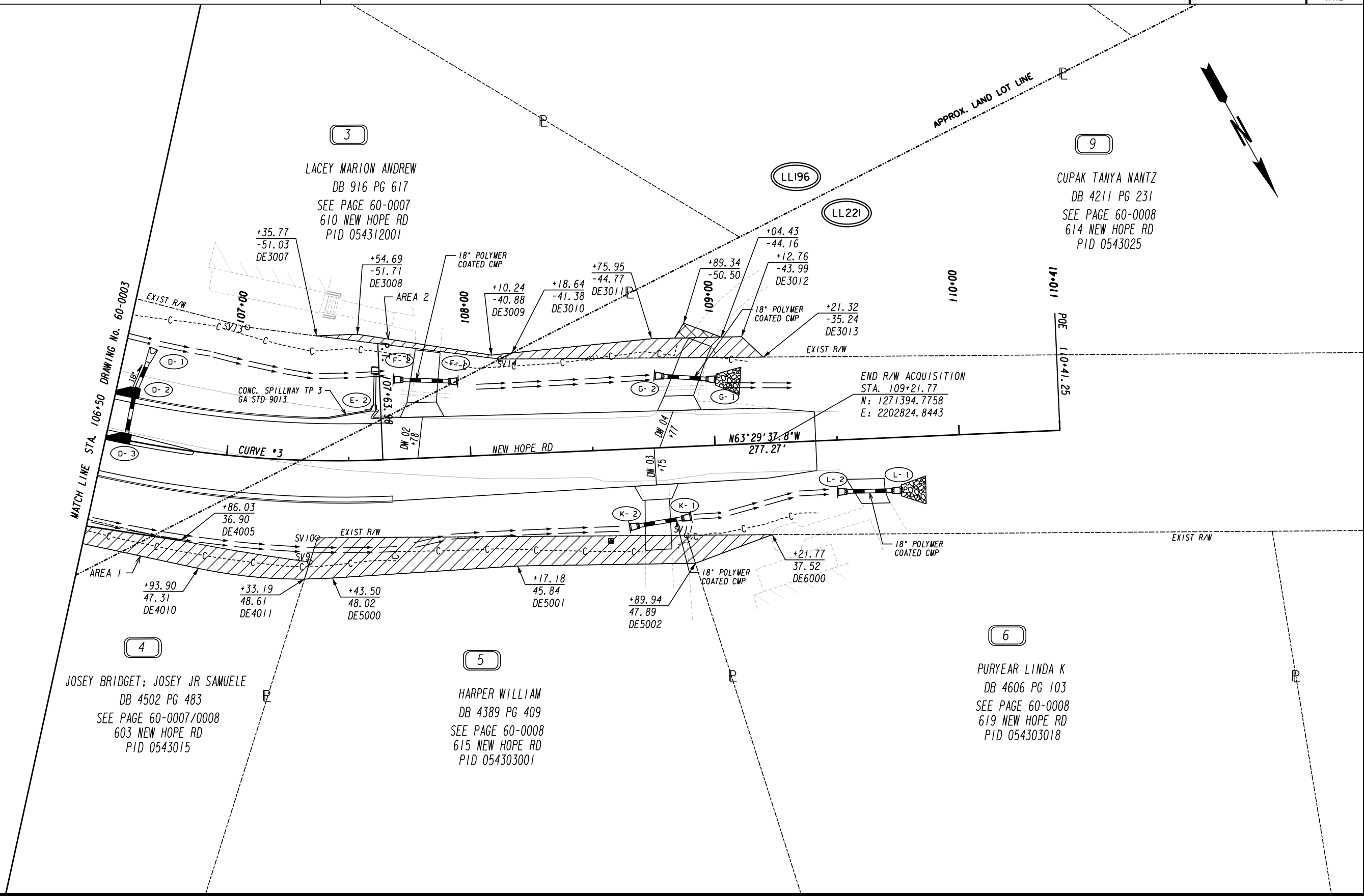
DATE	REVISIONS	DATE	REVISIONS

FAYETTE COUNTY
BOARD OF COMMISSIONERS

RIGHT OF WAY MAP

PROJECT NO: 1866.011
COUNTY: FAYETTE
LAND LOT NO: 196 & 221
LAND DISTRICT:
GMD
DATE SH 3 OF 8

DRAWING No.
60-0003



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---
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS

SCALE IN FEET
 0 20 40 80

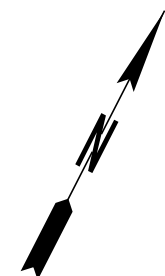
DATE	REVISIONS	DATE	REVISIONS

DATE	REVISIONS

FAYETTE COUNTY
 BOARD OF COMMISSIONERS
RIGHT OF WAY MAP

PROJECT NO: 1866.011
 COUNTY: FAYETTE
 LAND LOT NO: 196 & 221
 LAND DISTRICT:
 GMD
 DATE SH 4 OF 8

DRAWING No.
60-0004



EXIST R/W

EXIST R/W

7
MARETICH IVAN F
DB 3046 PG 164
SEE PAGE 60-0008
415 BROGDON RD
PID 054312002

3
LACEY MARION ANDREW
DB 916 PG 617
SEE PAGE 60-0007
610 NEW HOPE RD
PID 054312001

LIMIT OF R/W ACQUISITION
STA. 20+98.62
N: 1270975.3712
E: 2202942.7154

N61°18'41.3"E
244.83'

BROGDON RD

POB 20+00.00
20+00

21+00

+84.49
-56.31
+81.12
-48.29
DE3003

+39.35
-41.65
DE7001

+98.62
-29.84
DE7000

+00.31
-55.93
DE3004

+12.61
-46.63
DE3000

4' HOG WIRE FENCE

EXIST R/W

+99.91
40.07
DE8000

+73.44
47.41
DE1012

+98.01
49.87
DE1011

+37.68
42.84
DE1005

+17.67
39.68
DE1006

8

HAMBLIN ROLDA W
DB 4269 PG 21
SEE PAGE 60-0008
115 HEDGEROW TRL
PID 054314002

1

HANLEY GLENN & ILENA
DB 4269 PG 21
SEE PAGE 60-0007
105 HEDGEROW TRL
PID 054314001

MATCH LINE STA. 22+50 DRAWING No. 60-0003

SEPTIC LINE

PROPERTY AND EXISTING R/W LINE	-----E-----
REQUIRED R/W LINE	-----F-----
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	---o---o---
END LIMIT OF ACCESS.....ELA	---o---o---
LIMIT OF ACCESS	---o---o---
REQ'D R/W & LIMIT OF ACCESS	---o---o---

SCALE IN FEET

DATE	REVISIONS	DATE	REVISIONS

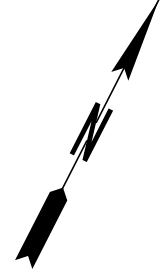
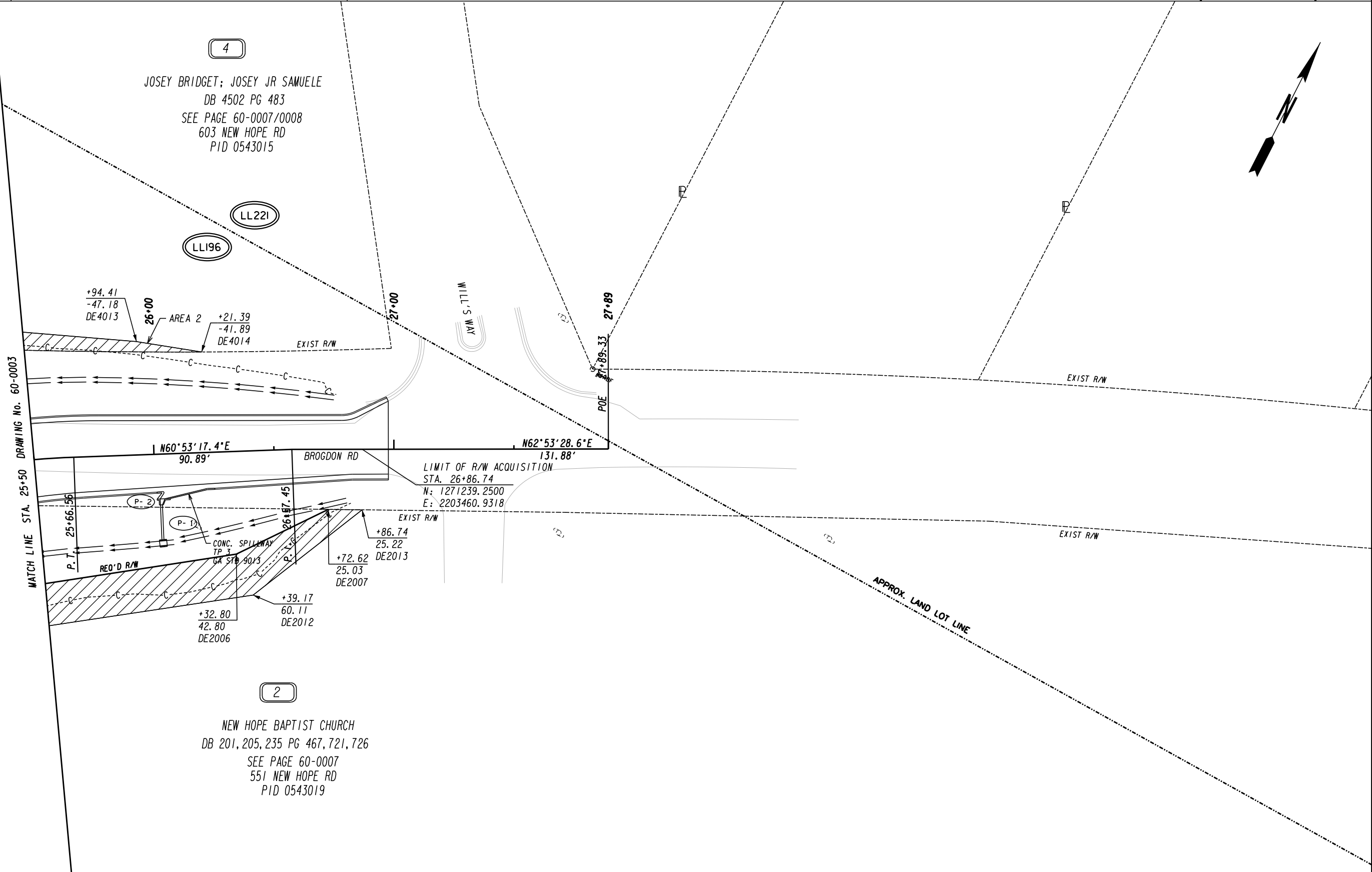
DATE	REVISIONS

FAYETTE COUNTY
BOARD OF COMMISSIONERS

RIGHT OF WAY MAP

PROJECT NO: 1866.011
COUNTY: FAYETTE
LAND LOT NO: 196
LAND DISTRICT:
GMD
DATE SH 5 OF 8

DRAWING No.
60-0005



PROPERTY AND EXISTING R/W LINE	-----E-----
REQUIRED R/W LINE	-----F-----
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	
END LIMIT OF ACCESS.....ELA	
LIMIT OF ACCESS	
REQ'D R/W & LIMIT OF ACCESS	

SCALE IN FEET
0 20 40 80

DATE	REVISIONS	DATE	REVISIONS

DATE	REVISIONS

FAYETTE COUNTY
BOARD OF COMMISSIONERS

RIGHT OF WAY MAP

PROJECT NO: 1866.011
COUNTY: FAYETTE
LAND LOT NO: 196 & 221
LAND DISTRICT:
GMD
DATE SH 6 OF 8

DRAWING No.
60-0006

PARCEL 1 REQ'D R/W

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE1000	40.34 L	102+22.28 N 39°06'41.9" W	C/L New Hope Rd
DE1001	43.12 L	102+38.50 N 35°45'37.8" W	C/L New Hope Rd
DE1002	44.77 L	102+65.91	C/L New Hope Rd
ARC LENGTH = 95.66 CHORD BEAR = N 49°27'48.5" W LNTH CHORD = 94.76 RADIUS = 200.00 DEGREE = 28°38'52.4"			
DE1003	71.78 L	103+46.94 N 63°09'59.1" W	C/L New Hope Rd
DE1004	58.83 R	22+72.63 N 79°41'03.1" W	C/L Brogdon Rd
DE1005	42.84 R	22+37.68 S 70°17'15.7" W	C/L Brogdon Rd
DE1006	39.68 R	22+17.67 N 61°07'21.4" E	C/L Brogdon Rd
SV1	39.51 L	104+11.54	C/L New Hope Rd
ARC LENGTH = 164.11 CHORD BEAR = S 30°01'11.6" E LNTH CHORD = 164.11 RADIUS = 6581.87 DEGREE = 0°52'13.8"			
SV1A	40.03 L	102+50.81 S 29°07'18.6" E	C/L New Hope Rd
DE1000	40.34 L	102+22.28	C/L New Hope Rd
REQD R/W = 5461.60 SF REQD R/W = 0.125 ACRES REMAINDER = +/- 1.4 ACRES			

PARCEL 1 REQ'D PERM. EASM'T.

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE1007	40.91 L	101+04.75 N 34°14'17.0" W	C/L New Hope Rd
DE1008	52.80 L	102+47.57	C/L New Hope Rd
ARC LENGTH = 109.63 CHORD BEAR = N 49°56'27.7" W LNTH CHORD = 108.26 RADIUS = 200.00 DEGREE = 28°38'52.4"			
DE1009	84.17 L	103+42.75 N 65°38'38.4" W	C/L New Hope Rd
DE1010	61.37 R	22+42.10 S 75°56'06.5" W	C/L Brogdon Rd
DE1011	49.87 R	21+98.01 S 67°00'49.0" W	C/L Brogdon Rd
DE1012	47.41 R	21+73.44 N 27°36'49.6" W	C/L Brogdon Rd
SV8	39.83 R	21+73.58 N 61°07'21.4" E	C/L Brogdon Rd
DE1006	39.68 R	22+17.67 N 70°17'15.7" E	C/L Brogdon Rd
DE1005	42.84 R	22+37.68 S 79°41'03.1" E	C/L Brogdon Rd
DE1004	58.83 R	22+72.63 S 63°09'59.1" E	C/L Brogdon Rd
DE1003	71.78 L	103+46.94	C/L New Hope Rd
ARC LENGTH = 95.66 CHORD BEAR = S 49°27'48.5" E LNTH CHORD = 94.76 RADIUS = 200.00 DEGREE = 28°38'52.4"			
DE1002	44.77 L	102+65.91 S 35°45'37.8" E	C/L New Hope Rd

PARCEL 1 REQ'D PERM. EASM'T. (CONT'D)

DE1001	43.12 L	102+38.50	C/L New Hope Rd
	16.46	S 39°06'41.9" E	
DE1000	40.34 L	102+22.28	C/L New Hope Rd
	117.53	S 29°07'18.6" E	
DE1007	40.91 L	101+04.75	C/L New Hope Rd
REQD EASMT = 3725.52 SF REQD EASMT = 0.086 ACRES			

PARCEL 2 REQ'D R/W

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE2000	39.61 R	101+89.67 N 22°49'56.9" W	C/L New Hope Rd
DE2001	45.51 R	102+40.75 N 29°55'18.4" W	C/L New Hope Rd
DE2002	49.69 R	102+88.97	C/L New Hope Rd
ARC LENGTH = 56.58 CHORD BEAR = N 0°26'54.3" W LNTH CHORD = 54.12 RADIUS = 55.00 DEGREE = 104°10'26.9"			
DE2003	73.17 R	24+39.43 N 29°01'29.8" E	C/L Brogdon Rd
DE2004	55.48 R	24+68.34	C/L Brogdon Rd
ARC LENGTH = 32.93 CHORD BEAR = N 41°36'12.3" E LNTH CHORD = 32.67 RADIUS = 75.00 DEGREE = 76°23'39.7"			
DE2005	50.66 R	24+95.88 N 54°10'54.8" E	C/L Brogdon Rd
DE2006	42.80 R	26+32.80 N 36°58'37.7" E	C/L Brogdon Rd
DE2007	25.03 R	26+72.62 S 63°41'07.1" W	C/L Brogdon Rd
SV4	40.99 R	104+22.86 S 29°32'56.9" E	C/L New Hope Rd
DE2000	39.61 R	101+89.67	C/L New Hope Rd
REQD R/W = 11115.36 SF REQD R/W = 0.255 ACRES REMAINDER = +/- 8.7 ACRES			

PARCEL 2 REQ'D PERM. EASM'T.

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE2000	39.61 R	101+89.67	C/L New Hope Rd
	51.57	N 22°49'56.9" W	
DE2001	45.51 R	102+40.75	C/L New Hope Rd
	55.96	N 29°55'18.4" W	
DE2002	49.69 R	102+88.97	C/L New Hope Rd
ARC LENGTH = 56.58 CHORD BEAR = N 0°26'54.3" W LNTH CHORD = 54.12 RADIUS = 55.00 DEGREE = 104°10'26.9"			
DE2003	73.17 R	24+39.43 N 29°01'29.8" E	C/L Brogdon Rd
	39.48	N 29°01'29.8" E	
DE2004	55.48 R	24+68.34	C/L Brogdon Rd
ARC LENGTH = 32.93 CHORD BEAR = N 41°36'12.3" E LNTH CHORD = 32.67 RADIUS = 75.00 DEGREE = 76°23'39.7"			
DE2005	50.66 R	24+95.88 N 54°10'54.8" E	C/L Brogdon Rd

PARCEL 2 REQ'D PERM. EASM'T. (CONT'D)

DE2006	42.80 R	26+32.80	C/L Brogdon Rd
	42.59	N 36°58'37.7" E	
DE2007	25.03 R	26+72.62	C/L Brogdon Rd
	14.12	N 63°41'09.1" E	
DE2013	25.22 R	26+86.74	C/L Brogdon Rd
	57.66	S 24°54'34.1" W	
DE2012	60.11 R	26+39.17	C/L Brogdon Rd
	146.78	S 54°25'01.2" W	
DE2011	66.36 R	24+80.28	C/L Brogdon Rd
	72.36	S 27°48'11.4" W	
DE2010	67.18 R	103+13.17	C/L New Hope Rd
	89.22	S 28°36'10.6" E	
DE2009	58.74 R	102+28.00	C/L New Hope Rd
	96.24	S 18°01'34.3" E	
DE2008	39.75 R	101+33.64	C/L New Hope Rd
	56.03	N 29°32'56.9" W	
DE2000	39.61 R	101+89.67	C/L New Hope Rd
REQD EASMT = 6499.23 SF REQD EASMT = 0.149 ACRES			

PARCEL 3 REQ'D R/W

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
SV7	30.16 L	21+39.62	C/L Brogdon Rd
	74.82	N 48°35'50.0" E	
DE3000	46.63 L	22+12.61	C/L Brogdon Rd
	63.24	N 55°49'37.8" E	
DE3001	55.31 L	22+66.24	C/L Brogdon Rd
ARC LENGTH = 44.85 CHORD BEAR = N 20°12'22.1" E LNTH CHORD = 44.29 RADIUS = 82.00 DEGREE = 69°52'22.4"			
DE3002	54.53 L	105+40.13	C/L New Hope Rd
	51.05	S 38°59'20.5" E	
SV5	47.09 L	104+83.20	C/L New Hope Rd
	178.44	S 60°51'37.2" W	
SV7	30.16 L	21+39.62	C/L Brogdon Rd
REQD R/W = 3091.20 SF REQD R/W = 0.071 ACRES REMAINDER = +/- 0.93 ACRES			

PARCEL 3 REQ'D PERM. EASM'T. AREA 1

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
SV7	30.16 L	21+39.62	C/L Brogdon Rd
	11.50	N 30°03'03.5" W	
DE7001	41.65 L	21+39.35	C/L Brogdon Rd
	42.30	N 52°16'50.4" E	
DE3003	48.29 L	21+81.12	C/L Brogdon Rd
	20.66	N 39°35'25.7" E	
DE3004	55.93 L	22+00.31	C/L Brogdon Rd
	55.19	N 58°02'38.2" E	
DE3005	59.38 L	22+52.01	C/L Brogdon Rd
ARC LENGTH = 80.70 CHORD BEAR = N 11°48'20.4" E LNTH CHORD = 72.22 RADIUS = 50.00 DEGREE = 114°35'29.6"			
DE3006	56.55 L	105+77.71	C/L New Hope Rd
	9.49	N 34°25'57.4" W	
SV12	55.63 L	105+88.54	C/L New Hope Rd
	42.34	S 38°59'20.5" E	

PARCEL 3 REQ'D PERM. EASM'T. AREA 1 (CONT'D)

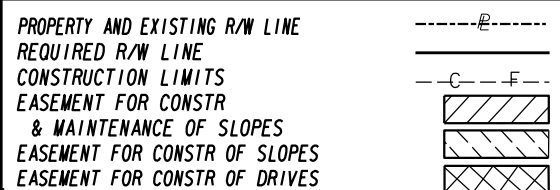
PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE3002	54.53 L	105+40.13	C/L New Hope Rd
ARC LENGTH = 44.85 CHORD BEAR = S 20°12'22.1" W LNTH CHORD = 44.29 RADIUS = 82.00 DEGREE = 69°52'22.4"			
DE3001	55.31 L	22+66.24	C/L Brogdon Rd
	63.24	S 55°49'37.8" W	
DE3000	46.63 L	22+12.61	C/L Brogdon Rd
	74.82	S 48°35'50.0" W	
SV7	30.16 L	21+39.62	C/L Brogdon Rd
REQD EASMT = 1910.83 SF REQD EASMT = 0.044 ACRES			

PARCEL 3 REQ'D PERM. EASM'T. AREA 2

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE3007	51.03 L	107+35.77	C/L New Hope Rd
	16.72	N 63°23'02.3" W	
DE3008	51.71 L	107+54.69	C/L New Hope Rd
	55.54	N 52°09'40.5" W	
DE3009	40.88 L	108+10.24	C/L New Hope Rd
	8.41	N 66°52'34.7" W	
DE3010	41.38 L	108+18.64	C/L New Hope Rd
	5.52	S 88°00'32.5" E	
SV14	39.09 L	108+13.61	C/L New Hope Rd
	75.63	S 53°47'48.5" E	
DE3007	51.03 L	107+35.77	C/L New Hope Rd
REQD EASMT = 144.08 SF REQD EASMT = 0.003 ACRES			

PARCEL 4 REQ'D R/W

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE4000	68.00 L	24+60.19	C/L Brogdon Rd
	19.50	N 70°31'48.3" W	
DE4001	68.16 R	105+01.84	C/L New Hope Rd
ARC LENGTH = 62.08 CHORD BEAR = N 56°18'05.5" W LNTH CHORD = 61.45 RADIUS = 125.00 DEGREE = 45°50'11.8"			
DE4002	43.43 R	105+51.80	C/L New Hope Rd
	43.24	N 42°04'22.7" W	
DE4003	40.68 R	105+91.21	C/L New Hope Rd
	48.20	N 45°46'05.7" W	
DE4004	39.08 R	106+35.39	C/L New Hope Rd
	55.02	N 52°18'56.5" W	
DE4005	36.90 R	106+86.03	C/L New Hope Rd
ARC LENGTH = 210.08 CHORD BEAR = S 42°11'23.8" E LNTH CHORD = 209.49 RADIUS = 807.98 DEGREE = 7°05'28.5"			
SV6	42.36 R	104+92.35	C/L New Hope Rd
	38.98	N 66°55'56.2" E	
DE4000	68.00 L	24+60.19	C/L Brogdon Rd
REQD R/W = 1749.72 SF REQD R/W = 0.040 ACRES REMAINDER = +/- 2.0 ACRES			



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS

DATE	REVISIONS	DATE	REVISIONS

FAYETTE COUNTY
 BOARD OF COMMISSIONERS
RIGHT OF WAY MAP
 PROJECT NO: 1866.011
 COUNTY: FAYETTE
 LAND LOT NO: 196
 LAND DISTRICT:
 GMD
 DATE SH 7 OF 8

DRAWING No.
60-0007

PARCEL 4 REQ'D PERM. EASM'T. AREA 1

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE4006	62.45 L	24+86.58 N 80°30'54.4" W	C/L Brogdon Rd
DE4007	88.52 L	24+53.87 N 56°23'25.9" W	C/L Brogdon Rd
DE4008	58.61 R	105+36.48 N 47°02'49.4" W	C/L New Hope Rd
DE4021	54.07 R	105+55.48 N 47°02'49.4" W	C/L New Hope Rd
DE4009	45.48 R	106+35.51 N 48°57'10.9" W	C/L New Hope Rd
DE4010	47.31 R	106+93.90	C/L New Hope Rd
ARC LENGTH = 43.66 CHORD BEAR = N 55°12'27.2" W LNTH CHORD = 43.58 RADIUS = 200.00 DEGREE = 28°38'52.4"			
DE4011	48.61 R	107+33.19 S 46°25'27.8" W	C/L New Hope Rd
SV9	41.57 R	107+35.03	C/L New Hope Rd
ARC LENGTH = 53.55 CHORD BEAR = S 51°32'17.5" E LNTH CHORD = 53.54 RADIUS = 807.98 DEGREE = 7°05'28.5"			
DE4005	36.90 R	106+86.03 S 52°18'56.5" E	C/L New Hope Rd
DE4004	39.08 R	106+35.39 S 45°46'05.7" E	C/L New Hope Rd
DE4003	40.68 R	105+91.21 S 42°04'22.7" E	C/L New Hope Rd
DE4002	43.43 R	105+51.80	C/L New Hope Rd
ARC LENGTH = 62.08 CHORD BEAR = S 56°18'05.5" E LNTH CHORD = 61.45 RADIUS = 125.00 DEGREE = 45°50'11.8"			
DE4001	68.16 R	105+01.84 S 70°31'48.3" E	C/L New Hope Rd
DE4000	68.00 L	24+60.19 N 66°55'56.2" E	C/L Brogdon Rd
DE4006	62.45 L	24+86.58	C/L Brogdon Rd
REQD EASMT = 2613.53 SF REQD EASMT = 0.060 ACRES			

PARCEL 4 REQ'D PERM. EASM'T. AREA 2

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE4015	52.07 L	25+18.89 N 59°51'41.4" W	C/L Brogdon Rd
DE4012	63.11 L	25+15.24 N 67°43'28.6" E	C/L Brogdon Rd
DE4013	47.18 L	25+94.41 N 71°59'20.8" E	C/L Brogdon Rd
DE4014	41.89 L	26+21.39	C/L Brogdon Rd
ARC LENGTH = 110.58 CHORD BEAR = S 63°54'34.5" W LNTH CHORD = 110.57 RADIUS = 2641.72 DEGREE = 2°10'08.0"			
DE4015	52.07 L	25+18.89	C/L Brogdon Rd
REQD EASMT = 680.01 SF REQD EASMT = 0.016 ACRES			

PARCEL 5 PESMT REQ'D PERM. EASM'T.

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
SV10	31.59 R	107+37.65 N 61°24'24.2" W	C/L New Hope Rd
SV11	36.25 R	108+86.77 N 11°17'30.8" E	C/L New Hope Rd
DE5002	47.89 R	108+89.94 S 61°52'45.8" E	C/L New Hope Rd
DE5001	45.84 R	108+17.18 S 64°44'43.4" E	C/L New Hope Rd
DE5000	48.02 R	107+43.50 S 63°06'13.4" E	C/L New Hope Rd
DE4011	48.61 R	107+33.19 S 46°25'27.8" W	C/L New Hope Rd
SV9	41.57 R	107+35.03 S 46°02'38.9" W	C/L New Hope Rd
SV10	31.59 R	107+37.65	C/L New Hope Rd
REQD EASMT = 2070.52 SF REQD EASMT = 0.048 ACRES			

PARCEL 6 REQ'D PERM. EASM'T.

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
SV11	36.25 R	108+86.77 N 61°25'07.9" W	C/L New Hope Rd
DE6000	37.52 R	109+21.77 S 81°31'54.6" E	C/L New Hope Rd
DE5002	47.89 R	108+89.94 S 11°17'30.8" W	C/L New Hope Rd
SV11	36.25 R	108+86.77	C/L New Hope Rd
REQD EASMT = 201.58 SF REQD EASMT = 0.005 ACRES			

PARCEL 7 REQ'D PERM. EASM'T.

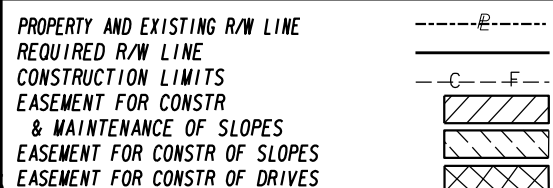
PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
SV7	30.16 L	21+39.62 S 60°51'41.5" W	C/L Brogdon Rd
DE7000	29.84 L	20+98.62 N 45°08'07.0" E	C/L Brogdon Rd
DE7001	41.65 L	21+39.35 S 30°03'03.5" E	C/L Brogdon Rd
SV7	30.16 L	21+39.62	C/L Brogdon Rd
REQD EASMT = 235.65 SF REQD EASMT = 0.005 ACRES			

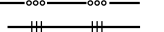

PARCEL 8 REQ'D PERM. EASM'T.

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
SV8	39.83 R	21+73.58 S 27°36'49.6" E	C/L Brogdon Rd
DE1012	47.41 R	21+73.44 S 67°00'49.0" W	C/L Brogdon Rd
DE8000	40.07 R	20+99.91 N 61°07'21.4" E	C/L Brogdon Rd
SV8	39.83 R	21+73.58	C/L Brogdon Rd
REQD EASMT = 279.39 SF REQD EASMT = 0.006 ACRES			

PARCEL 9 REQ'D PERM. EASM'T.

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
SV14	39.09 L	108+13.61 N 88°00'32.5" W	C/L New Hope Rd
DE3010	41.38 L	108+18.64 N 66°52'34.7" W	C/L New Hope Rd
DE3011	44.77 L	108+75.95 N 62°16'47.8" W	C/L New Hope Rd
DE3018	44.57 L	108+85.39 N 62°16'47.8" W	C/L New Hope Rd
DE3020	44.16 L	109+04.43 N 62°16'47.8" W	C/L New Hope Rd
DE3012	43.99 L	109+12.76 N 17°50'41.8" W	C/L New Hope Rd
DE3013	35.24 L	109+21.32 S 61°26'38.1" E	C/L New Hope Rd
SV14	39.09 L	108+13.61	C/L New Hope Rd
REQD EASMT = 640.80 SF REQD EASMT = 0.015 ACRES			



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS 
REQ'D R/W & LIMIT OF ACCESS 

DATE	REVISIONS	DATE	REVISIONS

FAYETTE COUNTY
BOARD OF COMMISSIONERS
RIGHT OF WAY MAP
PROJECT NO: 1866.011
COUNTY: FAYETTE
LAND LOT NO: 196
LAND DISTRICT:
GMD
DATE SH 8 OF 8

DRAWING No.
60-0008