

Proposal Submittal

Letter of Submittal and Attachments



Route 3 Widening

Design-Build Project

From: 4.1 Miles East Rte. 29
To: 4.0 Miles West Of Culpeper/Orange County Line
Culpeper County, Virginia



Pictures shown are similar to Route 3 in size and scope

State Project No.: 0003-023-107, P101, R201, C501

Federal Project No.: STP-023-7(028)

Contract ID Number: C00014657DB56



September 10 2013

ATTACHMENT 4.0.1.1
ROUTE 3 WIDENING
PROJECT NO. 003-023-107, P101, R201, C501
LETTER OF SUBMITTAL CHECKLIST AND CONTENTS

Offerors shall furnish a copy of this Letter of Submittal Checklist, with the page references added, with the Letter of Submittal.

Letter of Submittal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
Letter of Submittal (LOS) Checklist and Contents	Attachment 4.0.1.1	Section 4.0.1.1	Directly behind front cover
Acknowledgement of RFP, Revisions, and/or Addenda	Attachment 3.6 (Form C-78-RFP)	Sections 3.6; 4.0.1.1	Follows Attachment 4.0.1.1
Letter of Submittal	NA	Sections 4.1	Tab Divider Section 4.1
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	1
Offeror's full legal name and address	NA	Section 4.1.1	1
Authorized representative's original signature	NA	Section 4.1.1	1
Declaration of intent	NA	Section 4.1.2	1
120 day declaration	NA	Section 4.1.3	1
Point of Contact information	NA	Section 4.1.4	1
Principal Officer information	NA	Section 4.1.5	2
Interim Milestone, Substantial Completion and Final Completion Date(s)	NA	Section 4.1.6	2
Executed Proposal Payment Agreement or Waiver of Proposal Payment	Attachment 9.3.1	Section 4.1.7	2/ Appendix Attachment

ATTACHMENT 4.0.1.1
ROUTE 3 WIDENING
PROJECT NO. 003-023-107, P101, R201, C501
LETTER OF SUBMITTAL CHECKLIST AND CONTENTS

Letter of Submittal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
	Attachment 9.3.2		9.3.1 Tab
Certification Regarding Debarment Forms	Attachment 11.8.6 (a) Attachment 11.8.6 (b)	Section 4.1.8	2/ Appendix Attachment 11.8.6(a) Tab & Attachment 11.8.6(b) Tab
Written statement that Offeror's proposed concept included in the Attachments to the LOS is fully compliant with the Design Criteria Table and all other requirements of the RFP	NA	Section 4.1.9	2
Certification that the proposed limits of construction are located within the right-of-way limits shown on RFP plans	NA	Section 4.1.9	2
Attachments to the Letter of Submittal	NA	Section 4.2	3-4
Conceptual Roadway Plans – Plan View	NA	Section 4.2.1.1	3/Volume I
Conceptual Roadway Plans – Typical Sections	NA	Section 4.2.1.1	3/Volume I
Confirmation that the information provided in the SOQ submittal remains true and accurate or indicates that any requested changes were previously approved by VDOT	NA	Section 4.2.1.2	3
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1.2	3
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.1.2	3

ATTACHMENT 4.0.1.1

ROUTE 3 WIDENING

PROJECT NO. 003-023-107, P101, R201, C501

LETTER OF SUBMITTAL CHECKLIST AND CONTENTS

Letter of Submittal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
Proposal Schedule	NA	Section 4.2.1.3	3/Volume I
Proposal Schedule Narrative	NA	Section 4.2.1.3	3-4
Proposal Schedule in electronic format (CD- or DVD-ROM)	NA	Section 4.2.1.3	3/CD

ATTACHMENT 3.6**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION**

RFP NO. C00014657DB56
 PROJECT NO.: 0003-023-107, P101, R201, C501

ACKNOWLEDGEMENT OF RFP, REVISION AND/OR ADDENDA

Acknowledgement shall be made of receipt of the Request for Proposals (RFP) and/or any and all revisions and/or addenda pertaining to the above designated project which are issued by the Department prior to the Letter of Submittal submission date shown herein. Failure to include this acknowledgement in the Letter of Submittal may result in the rejection of your proposal.

By signing this Attachment 3.6, the Offeror acknowledges receipt of the RFP and/or following revisions and/or addenda to the RFP for the above designated project which were issued under cover letter(s) of the date(s) shown hereon:

1. Cover letter of April 18, 2013 – RFP
(Date)
2. Cover letter of August 20, 2013 – RFP Addendum No. 1
(Date)
3. Cover letter of _____
(Date)



SIGNATURE

09-05-13

DATE

Gale M. Tschuor

PRINTED NAME

Chief Estimator

TITLE



SECTION 4.1 **LETTER OF SUBMITTAL**



June 11, 2013

Mr. Joseph A. Clarke, P.E.
 Alternate Project Delivery Office
 Virginia Department of Transportation
 1401 East Broad Street
 Annex Building, 8th Floor
 Richmond, VA 23219

RE: **Request for Proposals**
 Route 3 Widening
 Culpeper County, Virginia
 State Project No.: 0003-023-107, P101, R201, C501
 Federal Project No.: STP-023-7(024)
 Contract ID Number: C00014657DB56

Dear Mr. Clarke:

Branch Highway, Inc., (Branch) is pleased to submit one (1) copy of the Letter of Submittal and Attachments to the Letter of Submittal, which bears original signatures and one (1) CD-ROM containing the entire Letter of Submittal and Attachments to the Letter of Submittal in a single cohesive Adobe PDF file to the Virginia Department of Transportation (VDOT) to provide Design-Build (D-B) services for the Route 3 Widening D-B Project in Culpeper County, Virginia. We have carefully reviewed the Request for Proposals (RFP), RFP Information Package, RFP Questions and Answers, attended the Pre-Proposal Meeting, Utility Meeting, Proprietary Meeting and visited the project site on several occasions as part of the development of this technical proposal.

Section 4.1.1 Full Legal Name and Address of the Offeror

Branch Highways, Inc.
 P.O. Box 40004
 Roanoke, VA 24022

Section 4.1.2 Declaration of Intent

Branch declare its intent, if selected, to enter into a contract with VDOT for the Project in accordance with the terms of this RFP.

Section 4.1.3 120 Day Declaration

Branch Highways, Inc. declares that the attached offer represented by the Proposal will remain in full force and effect for one hundred twenty (120) days after the date the Letter of Submittal and Attachments are submitted to VDOT.

Section 4.1.4 Point of Contact

Branch's official representative and designated ***Point Of Contact*** for all project-related communications is Gale Tschuor, Chief Estimator. Mr. Tschuor can be reached as follows:

Address	Phone	Mobile	Fax	Email
Branch Highways, Inc. P.O. Box 40004 Roanoke, VA 24022	(540) 982-1678	(540) 815-3136	(540) 982-4216	gale.tschuor@branchhighways.com

Section 4.1.5 Principal Officer for Offeror

The **Principal Officer** of Branch with whom a Design-Build contract would be written is Branch's Vice President, Michael P. Higgins, who can be reached as follows:

Address	Phone	Mobile	Fax	Email
Branch Highways, Inc. P.O. Box 40004 Roanoke, VA 24022	(540) 982-1678	(540) 815-3146	(540) 982-4216	mikeph@branchhighways.com

Section 4.1.6 Completion Dates

The Branch/JMI team shall comply with the proposed dates set forth in Section 2.3.1.

Interim Milestone Date: 11/23/2016

Final Completion Date: 05/04/2017

Section 4.1.7 Proposal Payment Agreement

Branch has included the completed Proposal Payment Agreement (Attachment 9.3.1) for the Route 3 Widening project in the Appendix.

Section 4.1.8 Certification Regarding Debarment Forms

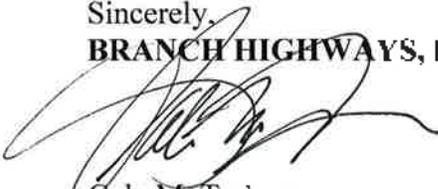
Signed "Certification Regarding Debarment" forms for the Design-Build Team are included in the Appendix (Attachments 3.2.7(a) and 3.2.7(b)).

Section 4.1.9 Design Criteria Table and Limits of Construction

Branch's Technical Proposal is fully compliant with the Design Criteria Table included in the RFP Technical Requirements (Part 2) as Attachment (2.2) and all other requirements of this RFP. We also, certify that the our proposed limits of construction including all stormwater management facilities are located within the ROW limits shown on the RFP plans with the exception of permanent and temporary easements and that the Branch/RDA Team's design concepts does not require Design Exception and/or Design Waivers.

We look forward to your favorable review of our proposal.

Sincerely,
BRANCH HIGHWAYS, INC.



Gale M. Tschuor
Chief Estimator

Attachments



SECTION 4.2 **ATTACHMENTS TO THE LETTER OF SUBMITTAL**



4.2.1 Provide the following Attachments to the Letter of Submittal:**Section 4.2.1.1 Conceptual Roadway Plans**

The Branch/JMT team have provided a general Project layout which includes the following as required by the Request for Proposal:

- a) Plan views indicating the number of lanes specified in the RFP Information Package.
- b) Typical sections for the proposed improvements to Route 3.

Full size 11x17 copies are located in **Volume I** of our Proposal.

Section 4.2.1.2 Confirmation of Accuracy of the Organizational Chart & Key Personnel

The Branch/JMT team confirms that the information provided in the SOQ submittal remains true and accurate.

- ✓ *Organizational Chart* – There have been no additions or updates to our organizational chart.
- ✓ *Organizational Chart Narrative* – There have been no additions or updates to our organizational chart.

The organizational chart provided at the end of this section identifies the major functions to be performed by the Branch/JMT Team along with displaying the lines of responsibility, communication, and relationships between the various entities. The organizational chart shows the reporting relationships of Key Personnel responsible for the management of design, construction, and quality control as well as the independent responsibilities of the QAM and his staff. The Branch/JMT Team has clearly defined roles and relationships. The team organization is optimized to promote team synergy yet present clear, logical, and efficient reporting relationships to manage the design and construction and related approvals for the Route 3 Widening D-B Project, while maintaining distinct responsibilities and project controls. The project staff is organized to facilitate timely and effective communication among all personnel, regardless of position. Practical lines of communication run between design, construction, and the independent QA and QC support staff, with the D-B PM ensuring all levels function as a team. This organization is a successful model used by Branch and JMT on past and present projects.

Design-Build Project Manager

The organizational chart starts with the public and VDOT at the pinnacle of the hierarchy. The Team recognizes that all final decisions rest with VDOT and recognizes the need to assure that the public need is met. The team's primary interface with VDOT will be through the D-B PM, **Michael Higgins**.

In accordance with sound management practice and VDOT guidance, the D-B PM serves in the most crucial role, one that defines success for all aspects of the project. The D-B PM is the principal conduit for communication with VDOT, and also directly controls the design, construction, and quality assurance functions. One feature of the Branch/JMT Team proposal is the independence of the key support staff of specialty professionals whose role is to assure that the highest levels of quality and safety are maintained in both the design and construction phases of the project.

The organizational chart further depicts that the main production staff interfaces with the D-B PM will be the DM, the CM, the UC and the ROW Manager; allowing effective communication among the Key Personnel with oversight from the QAM. The DM and the CM will support the D-B PM as points of contact with VDOT in their respective areas of expertise. The D-B PM will rely on the DM, the CM to effectively coordinate their individual Team elements and will use these Key Personnel to communicate to all Team members during design and construction.

Quality Assurance Manager

The Branch/JMT Team organizational chart identifies NXL Construction Services, Inc. as the independent firm to provide the Construction Quality Assurance services for this project. NXL commits **Mr. Michael W. Saunders, PE, CCM**, to serve as the QAM in a leadership capacity for the project's construction quality assurance program. He will oversee a QA staff as well as oversee the activities of our independent off-site materials sampling and testing laboratory, ECS. The QAM will report directly to the D-B PM but also must fulfill his independent responsibility to provide adequate assurance that the public (and VDOT) is receiving the desired quality in the overall project.

NXL Construction Services, Inc. (NXL)

NXL will provide all Construction Quality Assurance services for this project including QA-level inspection and administration activities.

ECS Mid-Atlantic, LLC (ECS)

ECS will provide QA Services for the off-site materials sampling and testing.

Design Manager

The Branch/JMT Team organizational chart clearly defines that all design disciplines for the project will report to the DM, **Mr. Robert Gallagher, PE**. The approach to staffing these disciplines hinges on the concept of matching the requirements of this project to the experience and depth of knowledge of staff best suited to fulfill these specific requirements. While the majority of the disciplines will be covered by JMT professionals, the team does include specialty subconsultants who will augment the Team and report directly to the DM. The DM will report directly to the D-B PM. In addition, the key staff for Utilities and for Right of Way will also closely interact with Bob to resolve these two critical aspects of the project.

Mr. Gallagher will also establish and oversee the QA/QC program for design. The responsibilities of the QA/QC team will be separated between the Design QA Manager and the Design QC Managers.

The Design QA Manager will operate independent of the design team and will evaluate and compare the design to the established design criteria and ensure that the design QC process is complete. In general, the Design QA Manager will evaluate whether the designer appropriately documented quality issues related to design and technical problems, applied the correct analysis techniques, and assigned qualified personnel to the task. The Design QA Manager will address whether the solution is practical and cost effective and whether the design is appropriate. *JMT has identified Mr. Trip Phaup, PE to serve as the Design QA Manager.* He will interface and report directly to the DM. Trip has provided design quality assurance services on numerous projects during his 23 year engineering career.

The Design QC Team will be staffed with individual Design QC Managers that are not involved in the design process and will report directly to the DM. Qualified reviewers that are independent from day-to-day design activities ensure that the QC Team is truly providing a fresh set of eyes to plan development. The independent QC reviews will determine whether the design and plans conform to the established design criteria and design processes including verification and documentation using QC checklists like LD-436. In general, the QC Team will review math and engineering computations; check technical accuracy; verify conformance with contract requirements; review form, content, and spelling; and verify coordination with other design disciplines and the project sequence of construction.

The following subconsultants will provide specialty services and will report directly to the DM.

EEE Consulting, Inc. (EEE)

EEE will be responsible for environmental compliance and obtaining all necessary state and federal water quality permits for the project. In addition, during construction phases they will provide oversight to identify disclosed cultural resources.

Schnabel Engineering Consultants, Inc. (Schnabel)

Schnabel will provide geotechnical services for the project including geotechnical investigations, borings and analysis, materials analysis, and geotechnical recommendations for design and construction.

Hassan Water Resources, PLC Hassan Water Resources will provide drainage design services for the project including design of stormwater management systems. They will also provide design services for stream restoration.

Construction Manager **Mr. Pete Kramer** will interact directly with VDOT project representative, review staff to coordinate design oversight reviews and gain design approvals. The Construction Manager will conduct comment resolution meetings and coordinate directly with VDOT staff as necessary to ensure the design intent is clear and that oversight review comments provided by VDOT are addressed properly and in a timely fashion.

The Construction Manager will report to the DBPM, The JMT DM, R/W M, and LUCM. He will also conduct daily and weekly meetings and update and communicate with the QAM on a regularly scheduled basis.

Lead Utility Coordination Manager Utility issues are a critical element for this project. The Lead Utility Coordination Manager, **Mr. Barry Jones, L.S.**, will report directly to the D-B PM. During the design, utility relocation, and construction phases; he will interface with the DM, CM, RW manager, and utility owners to communicate project critical utility information and coordination efforts.

Right of Way Manager The Right of Way Manager, **Mr. G. Lee Cooper, SR/WA, R/W-NAC**, will report directly to the D-B PM. His role is critical to the schedule and completion of the project and could include partial acquisition of at least 63 parcels with 3 relocations. He will interface with the DM, CM and Lead Utility Coordination Manager during all phases of the acquisitions and relocations.

Section 4.2.1.3 Proposal Schedule and Narrative

Section 4.2.1.3.1 Proposal Schedule

The Branch/JMT Team have developed a Proposal Schedule and it is located in **Volume I** of our Proposal.

A CD has also been prepared containing .pdf copies of the Proposal Schedule and Narrative; as well as a back-up of the Proposals Schedule's source document.

Section 4.2.1.3.2 Proposal Schedule Narrative

Overview

Branch Highways and our subcontractors and suppliers recognize the success of this Project will depend on the successful execution of a well-planned and well-managed Project Schedule; as such the Project Schedule was crafted to meet the needs of the project. Our goal is to stage the project such that the work can proceed orderly and economically while meeting the Contract requirements and minimizing impacts to the public.

Branch anticipates project completion by August 15, 2016 as required by the contract and each segment by its respective individual milestone completion dates. The Work Breakdown Structure detail allows for effective summary-level analysis to aid the management of the project through the design and construction phases. Activities have been developed for contract deliverables and include milestones, scope validation, permitting, right-of-way, utility relocations, design, VDOT review, and construction.

Sequence of Construction

The design activities have been scheduled to allow utility relocation and construction to start as early as possible with the right-of way a critical activity. Work packages have been developed for the disciplines of design to aid in early review packages for VDOT.

The construction is sequenced in three (3) Phases and the project delineated in three (3) work Areas that coincide with the traffic management plan. Construction will begin with Phase 1 in Area 1 and continue into areas 2 and 3 as MOT is completed. Phase 2 construction starts after traffic switch to newly completed Phase 1 work in corresponding areas.

The general sequence of construction for Phases 1 & 2 activities are listed below:

- Utility Relocations
- Maintenance of Traffic
- R/W Fence
- Erosion Control
- Earthwork
- Storm Drainage
- Pavement
- Signs
- Seeding
- Clean & Dress

Phase 3 construction consist of final asphalt paving and starts with traffic switch to the Phase 1 and Phase 2 road sections being completed in Areas 1, 2 and 3 through intermediate course asphalt. All traffic will be in their designated lanes EBL and WBL.

The general sequence of construction for Phase 3 activities are listed below:

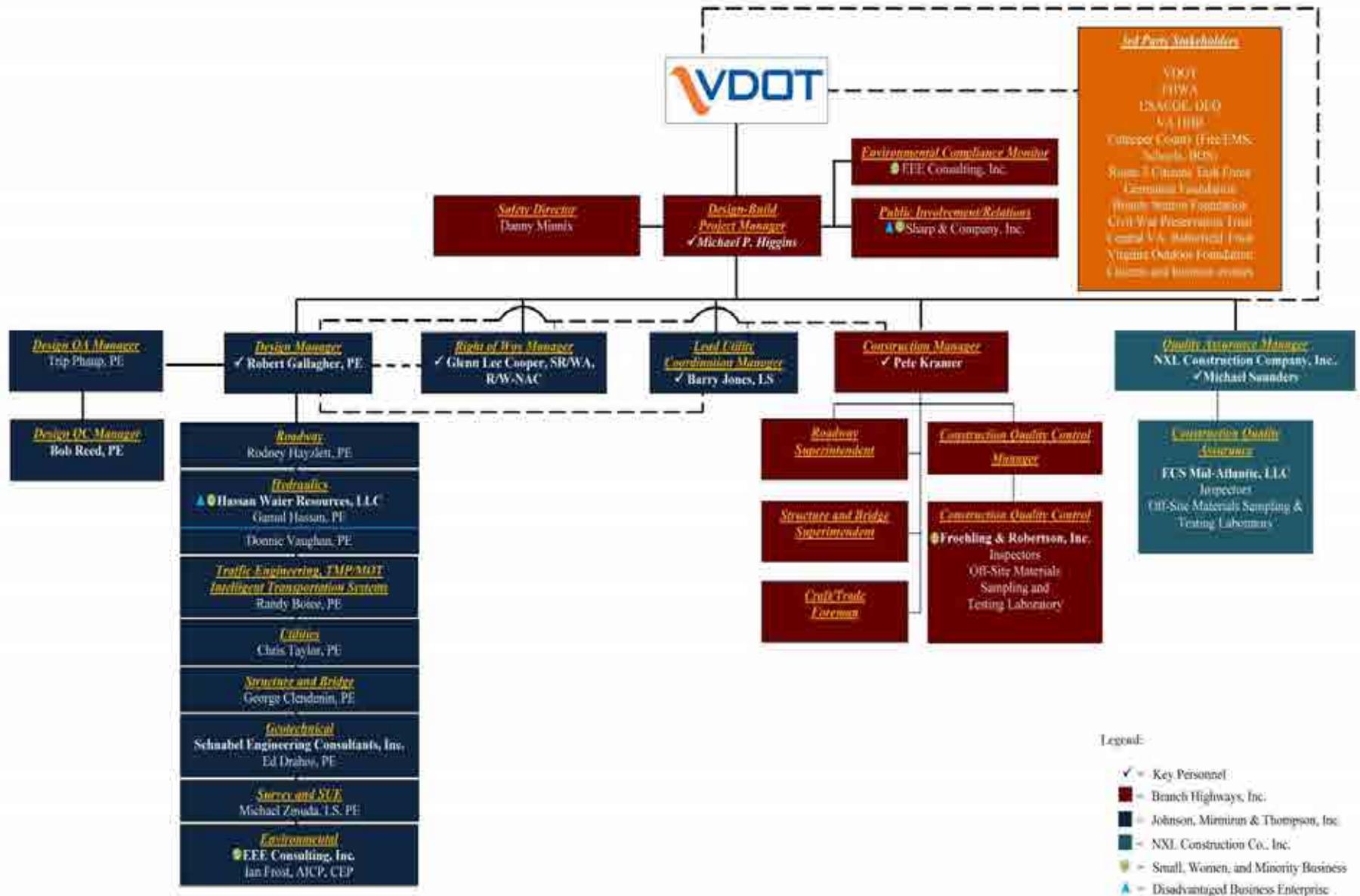
- Maintenance of Traffic and Traffic Switch
- Demo Cross-overs
- Surface Pavement EBL & WBL
- Pavement Marking
- Shoulder and Median Dress
- Signs
- Final Seeding
- Clean & Dress

Critical Path

The project’s critical path has been defined as activities with 5 days or less float. Critical path begins with design quality control plan and approval then flows through design right-of way work packages. Right-of-way is essential for relocating utilities and relocation is scheduled to start with Right-of-entry from property owners. The path then flows through construction Phase 1 Area 1 Sta. 1101 – 1203 WBL and Area 2 Sta. 1199 – 1291 EBL.

After completing Phase 1 the path flows into Phase 2, Area 1 Sta. 1101 – 1203 EBL and Area 2 Sta. 1199 – 1291 WBL. Paving activities will be critical in this phase due to colder temperatures during the fall season. Phase 3 completes the critical path with final paving activities on the EBL and WBL including all finish activities for medians and shoulders.

- Earthwork based on 1000cy per day.
- Pipe Crossings 1 day each per lane.
- Storm drainage 70 ft. with structures per day.
- Paving 500 – 800 tons per day.



Appendix



ATTACHMENT 9.3.1

PROPOSAL PAYMENT AGREEMENT



ATTACHMENT 9.3.1
PROPOSAL PAYMENT AGREEMENT

THIS PROPOSAL PAYMENT AGREEMENT (this "Agreement") is made and entered into as of this 10th day of September, 2013 by and between the Virginia Department of Transportation ("VDOT"), and Branch Highways, Inc. ("Offeror").

WITNESSETH:

WHEREAS, Offeror is one of the entities who submitted Statements of Qualifications ("SOQs") pursuant to VDOT's **December 4, 2012** Request for Qualifications ("RFQ") and was invited to submit proposals in response to a Request for Proposals ("RFP") for the **Route 3 Widening, Project No. 0003-023-107, P101, R201, C501** ("Project"), under a design-build contract with VDOT ("Design-Build Contract"); and

WHEREAS, as part of the procurement process for the Project, Offeror has already provided and/or furnished to VDOT, and may continue to provide and/or furnish to VDOT, certain intellectual property, materials, information and ideas, including, but not limited to, such matters that are: (a) conveyed verbally and in writing during proprietary meetings or interviews; and (b) contained in, related to or associated with Offeror's proposal, including, but not limited to, written correspondence, designs, drawings, plans, exhibits, photographs, reports, printed material, tapes, electronic disks, or other graphic and visual aids (collectively "Offeror's Intellectual Property"); and

WHEREAS, VDOT is willing to provide a payment to Offeror, subject to the express conditions stated in this Agreement, to obtain certain rights in Offeror's Intellectual Property, provided that Offeror submits a proposal that VDOT determines to be responsive to the RFP ("Offeror's Proposal"), and either (a) Offeror is not awarded the Design-Build Contract; or (b) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror; and

WHEREAS, Offeror wishes to receive the payment offered by VDOT, in exchange for granting VDOT the rights set forth in this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth in this Agreement and other good and valuable consideration, the receipt and adequacy of which are acknowledged by the parties, the parties agree as follows:

1. VDOT's Rights in Offeror's Intellectual Property. Offeror hereby conveys to VDOT all rights, title and interest, free and clear of all liens, claims and encumbrances, in Offeror's Intellectual Property, which includes, without restriction or limitation, the right of VDOT, and anyone contracting with VDOT, to incorporate any ideas or information from Offeror's Intellectual Property into: (a) the Design-Build Contract and the Project; (b) any other contract awarded in reference to the Project; or (c) any subsequent procurement by VDOT. In receiving all rights, title and interest in Offeror's Intellectual Property, VDOT is deemed to own all intellectual property rights, copyrights, patents, trade secrets, trademarks, and service marks in Offeror's Intellectual Property, and Offeror agrees that it shall, at the request of VDOT, execute all papers and perform all other acts that may be necessary to ensure that VDOT's rights, title and interest in Offeror's Intellectual Property are protected. The rights conferred herein to VDOT include, without limitation, VDOT's ability to use Offeror's Intellectual Property without the obligation to notify or seek permission from Offeror.

2. Exclusions from Offeror's Intellectual Property. Notwithstanding Section 1 above, it is understood and agreed that Offeror's Intellectual Property is not intended to include, and Offeror does not convey any rights to, the Escrow Proposal Documents submitted by Offeror in accordance with the RFP.

3. Proposal Payment. VDOT agrees to pay Offeror the lump sum amount of **Ten Thousand and 00/100 Dollars (\$10,000.00)** ("Proposal Payment"), which payment constitutes payment in full to Offeror for the conveyance of Offeror's Intellectual Property to VDOT in accordance with this Agreement. Payment of the Proposal Payment is conditioned upon: (a) Offeror's Proposal being, in the sole discretion of VDOT, responsive to the RFP; (b) Offeror complying with all other terms and conditions of this Agreement; and (c) either (i) Offeror is not awarded the Design-Build Contract, or (ii) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror.

4. Payment Due Date. Subject to the conditions set forth in this Agreement, VDOT will make payment of the Proposal Payment to the Offeror within forty-five (45) days after the later of: (a) notice from VDOT that it has awarded the Design-Build Contract to another Offeror; or (b) notice from VDOT that the procurement for the Project has been cancelled and that there will be no Contract Award.

5. Effective Date of this Agreement. The rights and obligations of VDOT and Offeror under this Agreement, including VDOT's ownership rights in Offeror's Intellectual Property, vests upon the date that Offeror's Proposal is submitted to VDOT. Notwithstanding the above, if Offeror's Proposal is determined by VDOT, in its sole discretion, to be nonresponsive to the RFP, then Offeror is deemed to have waived its right to obtain the Proposal Payment, and VDOT shall have no obligations under this Agreement.

6. **Indemnity.** Subject to the limitation contained below, Offeror shall, at its own expense, indemnify, protect and hold harmless VDOT and its agents, directors, officers, employees, representatives and contractors from all claims, costs, expenses, liabilities, demands, or suits at law or equity ("Claims") of, by or in favor of or awarded to any third party arising in whole or in part from: (a) the negligence or wilful misconduct of Offeror or any of its agents, officers, employees, representatives or subcontractors; or (b) breach of any of Offeror's obligations under this Agreement, including its representation and warranty under Section 8 hereof. This indemnity shall not apply with respect to any Claims caused by or resulting from the sole negligence or wilful misconduct of VDOT, or its agents, directors, officers, employees, representatives or contractors.

7. **Assignment.** Offeror shall not assign this Agreement, without VDOT's prior written consent, which consent may be given or withheld in VDOT's sole discretion. Any assignment of this Agreement without such consent shall be null and void.

8. **Authority to Enter into this Agreement.** By executing this Agreement, Offeror specifically represents and warrants that it has the authority to convey to VDOT all rights, title, and interest in Offeror's Intellectual Property, including, but not limited to, those any rights that might have been vested in team members, subcontractors, consultants or anyone else who may have contributed to the development of Offeror's Intellectual Property, free and clear of all liens, claims and encumbrances.

9. **Miscellaneous.**

a. Offeror and VDOT agree that Offeror, its team members, and their respective employees are not agents of VDOT as a result of this Agreement.

b. Any capitalized term used herein but not otherwise defined shall have the meanings set forth in the RFP.

c. This Agreement, together with the RFP, embodies the entire agreement of the parties with respect to the subject matter hereof. There are no promises, terms, conditions, or obligations other than those contained herein or in the RFP, and this Agreement shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties hereto.

d. It is understood and agreed by the parties hereto that if any part, term, or provision of this Agreement is by the courts held to be illegal or in conflict with any law of the Commonwealth of Virginia, validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provisions to be invalid.

e. This Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Virginia.

IN WITNESS WHEREOF, this Agreement has been executed and delivered as of the day and year first above written.

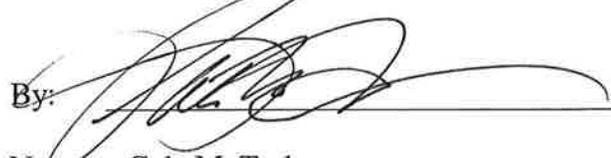
VIRGINIA DEPARTMENT OF TRANSPORTATION

By: _____

Name: _____

Title: _____

BRANCH HIGHWAYS, INC.

By:  _____

Name: Gale M. Tschuor

Title: Chief Estimator



ATTACHMENT 11.8.6(A) **PRIMARY DEBARMENT FORM**



ATTACHMENT 11.8.6(a)
CERTIFICATION REGARDING DEBARMENT
PRIMARY COVERED TRANSACTIONS

Project No.: 0003-023-107, P101, R201, C501

1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; and have not been convicted of any violations of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property;

c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1) b) of this certification; and

d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



Signature

09-05-13
Date

Chief Estimator
Title

BRANCH HIGHWAYS, INC.
Name of Firm



ATTACHMENT 11.8.6(B) **LOWER TIER DEBARMENT FORM**



ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0003-023-107, P101, R201, C501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



Signature

September 9, 2013

Date

Senior Vice President

Title

Johnson, Mirmiran and Thompson, Inc.

Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0003-023-107, P101, R201, C501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

 9/4/2013
Signature Date

President
Title

HASSAN WATER RESOURCES, PLC
Name of Firm

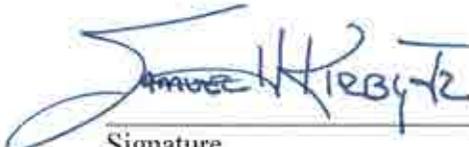
ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0003-023-107, P101, R201, C501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

	9/04/2013	President
Signature	Date	Title

Froehling & Robertson, Inc.

Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0003-023-107, P101, R201, C501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
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The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

<u>Jennifer Sanford</u>	<u>9/4/13</u>	<u>VP/ Director of BD</u>
Signature	Date	Title and marketing

NXL Construction Services, Inc
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0003-023-107, P101, R201, C501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.



Signature

September 4, 2013

Date

Vice President

Title

EEE Consulting, Inc.

Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0003-023-107, P101, R201, C501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

<u>Edward G. Drahor</u>	<u>9/5/13</u>	<u>Principal</u>
Signature	Date	Title

<u>Schnabel Engineering Consultants, Inc.</u>
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0003-023-107, P101, R201, C501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

<u></u>	<u>9/4/13</u>	<u>President</u>
Signature	Date	Title

Sharp & Company, Inc.
Name of Firm

ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0003-023-107, P101, R201, C501

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

J. Randy Wirt 9/3/13 VICE PRESIDENT
Signature Date Title

ECS MID-ATLANTIC, LLC
Name of Firm



PO Box 40004 | Roanoke, VA 24022 | Phone: 540-982-1678



9201 Arboretum Parkway, Suite 310 | Richmond, VA 23236 | Phone: 804-323-9900

Proposal Submittal

Letter of Submittal and Attachments

Volume I: Conceptual Roadway Plans Proposal Schedule

Route 3 Widening

From: 4.1 Miles East Rte. 29
To: 4.0 Miles West Of Culpeper/Orange County Line
Culpeper County, Virginia



Projects shown are similar to Route 3 in size and scope



State Project No.: 0003-023-107, P101, R201, C501
Federal Project No.: STP-023-7(028)
Contract ID Number: C00014657DB56

September 10 2013

SECTION 4.2.1.1 CONCEPTUAL ROADWAY PLANS



FOR INDEX OF SHEETS SEE SHEET 1B

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. (UPC 14657)



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

CULPEPER COUNTY
ROUTE 3

FROM: 4.1 MI. EAST OF ROUTE 29
TO: 3.8 MI. WEST OF THE CULPEPER/ORANGE COUNTY LINE

STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
VA.	STP-023-7(VARIES) (SEE TABULATION BELOW FOR SECTION NUMBERS)	3	(NFO) 0003-023-107 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

FHWA - 534 DATA 13003

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA			
Rural Minor Arterial - Rolling - 60 MPH Min. Design Speed			
	Fr: US-522 To: Route 663	Fr: Route 663 To: Route 750	Fr: Route 750 To: Orange County line
ADT (2011)	7500	8100	9000
ADT (2040)	14115	16081	20330
DHV	1080	1342	1724
D (%) (design hour)	7.6%	8.3%	8.5%
T (%) (design hour)	9.7%	9.6%	7.6%
V (MPH)	*	*	*

* See plan and profile sheets for horizontal and vertical curve design speeds.
Note: Functional Classification and Design Speed for connections can be found on the applicable roadway plan sheets.

EXCEPTIONS TO MAINLINE LANE WIDTH			
Sta. To Sta.	Lane Width	Reasons for Exception	Approval Date
W.B.L. Sta. 1125+52 - 1215+92	11'	Traffic Calming /	
E.B.L. Sta. 125+52 - 215+83		Public Hearing Commitment	

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
TOTAL TAKE FOR PARCELS:	
021	
8/31/12	Diane L. Mitchell PROGRAMMING DIVISION DIRECTOR
9/5/12	Mohammad Mirshahi STATE LOCATION AND DESIGN ENGINEER
9/11/12	Reta Busher CHIEF OF PROGRAMMING AND PLANNING
9/12/12	Malcolm T. Kerley CHIEF ENGINEER

APPROVED FOR RIGHT OF WAY ACQUISITION	
9/12/12	Richard L. Walton Jr. CHIEF OF POLICY AND ENVIRONMENT

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION (PARTIAL TAKES)	
032	036
8/31/12	Diane L. Mitchell PROGRAMMING DIVISION DIRECTOR
9/5/12	Mohammad Mirshahi STATE LOCATION AND DESIGN ENGINEER
9/11/12	Reta Busher CHIEF OF PROGRAMMING AND PLANNING
9/12/12	Malcolm T. Kerley CHIEF ENGINEER

APPROVED FOR RIGHT OF WAY ACQUISITION	
9/12/12	Richard L. Walton Jr. CHIEF OF POLICY AND ENVIRONMENT

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	PROGRAMMING DIVISION DIRECTOR
DATE	STATE LOCATION AND DESIGN ENGINEER
DATE	STATE STRUCTURE AND BRIDGE ENGINEER
DATE	CHIEF OF PROGRAMMING AND PLANNING

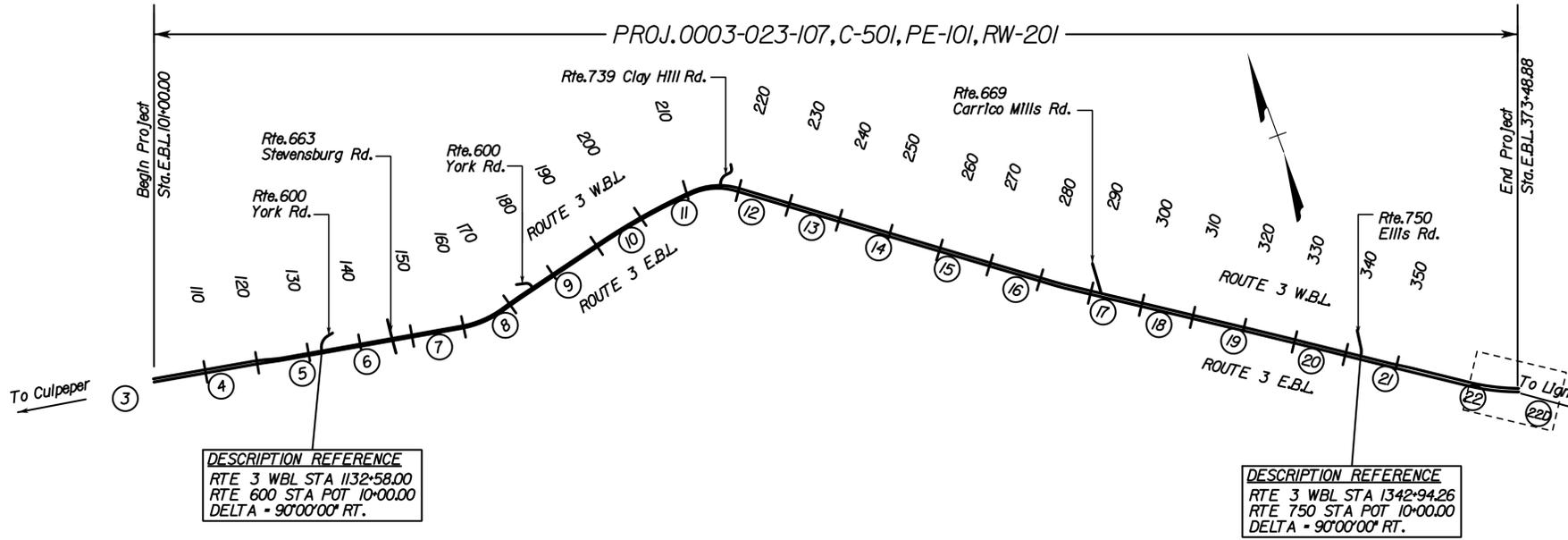
APPROVED FOR CONSTRUCTION	
DATE	CHIEF ENGINEER

APPROVED	
DATE	DIVISION ADMINISTRATOR FEDERAL HIGHWAY ADMINISTRATION U.S. DEPARTMENT OF TRANSPORTATION

CONVENTIONAL SIGNS

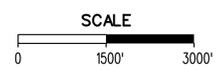
STATE LINE	-----
COUNTY LINE	-----
CITY, TOWN OR VILLAGE	-----
RIGHT OF WAY LINE	-----
FENCE LINE	-----
UNFENCED PROPERTY LINE	-----
FENCED PROPERTY LINE	-----
WATER LINE	-----
SANITARY SEWER LINE	-----
GAS LINE	-----
ELECTRIC UNDERGROUND CABLE	-----
TRAVELED WAY	-----
GUARD RAIL	-----
RETAINING WALL	-----
RAILROADS	-----
BASE OR SURVEY LINE	-----

LEVEE OR EMBANKMENT	-----
BRIDGES	-----
CULVERTS	-----
DROP INLET	-----
POWER POLES	-----
TELEPHONE OR TELEGRAPH POLES	-----
TELEPHONE OR TELEGRAPH LINES	-----
HEDGE	-----
TREES	-----
HEAVY WOODS	-----
GROUND ELEVATION	-----
GRADE ELEVATION	-----



DESCRIPTION REFERENCE
RTE 3 WBL STA 1132+58.00
RTE 600 STA POT 10+00.00
DELTA = 90°00'00" RT.

DESCRIPTION REFERENCE
RTE 3 WBL STA 1342+94.26
RTE 750 STA POT 10+00.00
DELTA = 90°00'00" RT.



PRELIMINARY PLANS
SEPTEMBER 10, 2013

Culpeper County Population 34,263 (2000 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES		LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
					FEET		FEET	MILES	FEET	MILES			
0003-023-107	PE-101	STP-023-7(024)		14657			27,249	5.161	27,249	5.161		Prelim. Engr.	From: 4.1 Mi. East of Route 29 To: 3.8 Mi. West of the Culpeper/Orange Co. line
	RW-201	STP-023-7(028)		14657			27,249	5.161	27,249	5.161		R/W	From: 4.1 Mi. East of Route 29 To: 3.8 Mi. West of the Culpeper/Orange Co. line
	C-501			1000	14657			27,249	5.161	27,249	5.161		Const.

Project Lengths are based on Route 3 E.B.L. Construction Baseline.



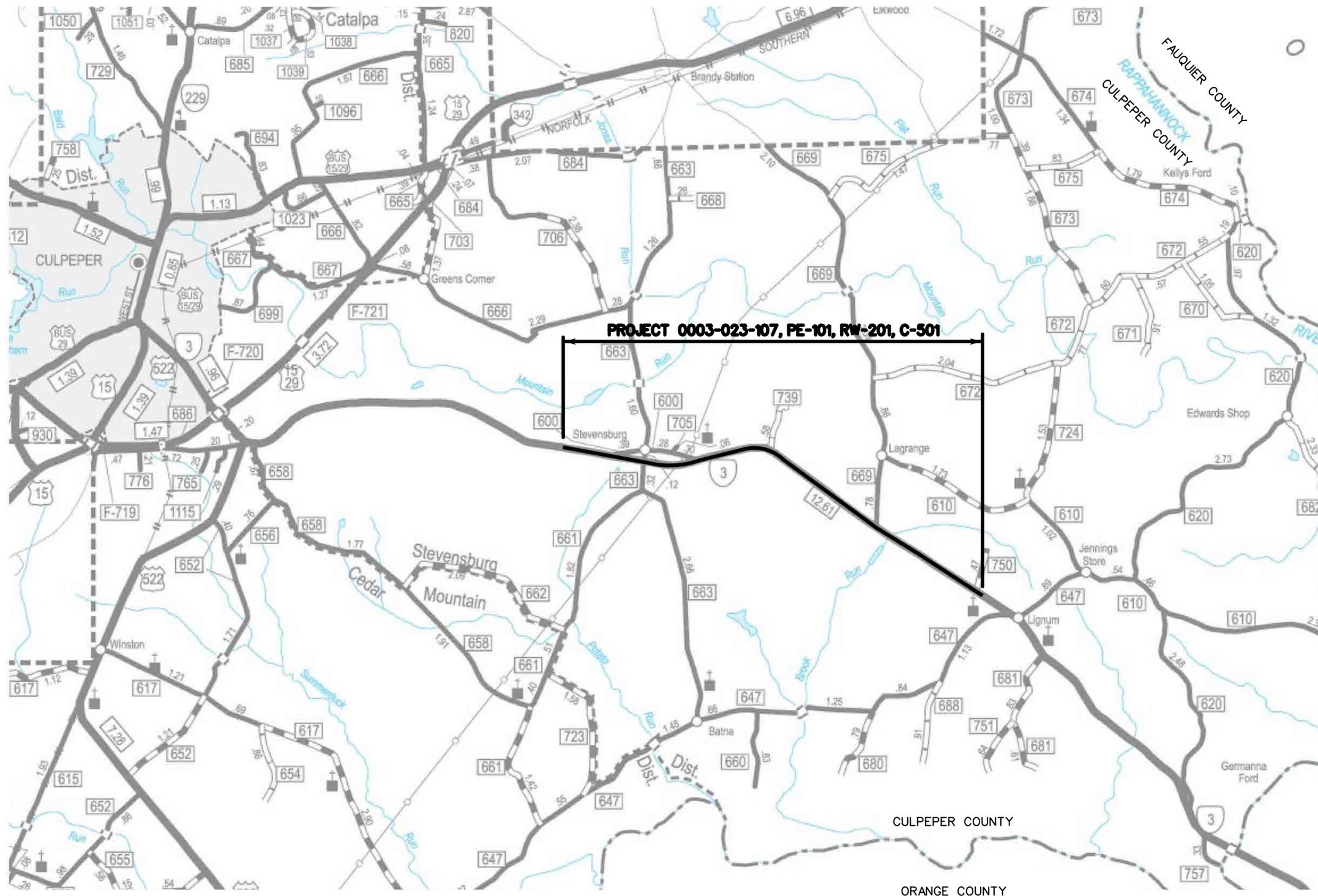
PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY
DESIGNED BY

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY
DESIGNED BY

LOCATION MAP

REVISED	STATE			SHEET NO.
	STATE	ROUTE	PROJECT	
	VA.	3	0003-023-107, PE-101, RW-201, C-501	1A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



LOCATION MAP LEGEND	
	VA Primary Highway
	U.S. Highway
	VA Secondary Highway
	Frontage Road



SCALE 0 3000' 6000'	PROJECT 0003-023-107	SHEET NO. 1A
------------------------	-------------------------	-----------------

PROJECT MANAGER *Harold Jones (540) 829-7320*
 SURVEYED BY *Michael Mauro, L.S. (540) 829-7551*
 DESIGN SUPERVISED BY _____
 DESIGNED BY _____

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	STATIONS	SHEET NO.	DESCRIPTION	STATIONS
1	TITLE SHEET		20	PLAN ROUTE 3 STA.325+50 TO 339+50 (EBL)	
1A	LOCATION MAP		20A	PROFILES ROUTE 3 (EB & WB)	
1B	INDEX OF SHEETS		21	PLAN ROUTE 3 STA.339+50 TO 353+50 (EBL), ROUTE 750	
1C(1) thru 1C(2)	RIGHT OF WAY DATA SHEETS		21A	PROFILES ROUTE 3 (EB & WB)	
1F(1) thru 1F(4)	SURVEY ALIGNMENT DATA SHEETS		21B	PROFILE ROUTE 750	
1G(1) thru 1G(9)	CONSTRUCTION ALIGNMENT DATA SHEETS		22	PLAN ROUTE 3 STA.353+50 (EBL) TO 1367+75 (WBL)	
2A thru 2H	TYPICAL SECTIONS		22A	PROFILES ROUTE 3 (EB & WB)	
2Q	DEMOLITION OF BUILDINGS/CLEARING OF PARCELS		22D	PLAN ROUTE 3 STA.1367+75 (WBL) TO 1373+58.61 (WBL)	
2T	DETAIL SHEET		22E	PROFILES ROUTE 3 (WB)	
3	PLAN ROUTE 3 STA.100+00 TO 106+50 (EBL)				
3A	PROFILES ROUTE 3 (EB & WB)				
4	PLAN ROUTE 3 STA.106+50 TO 120+50 (EBL)				
4A	PROFILES ROUTE 3 (EB & WB)				
5	PLAN ROUTE 3 STA.120+50 TO 134+50 (EBL), ROUTE 600				
5A	PROFILES ROUTE 3 (EB & WB)				
5B	PROFILES ROUTE 600				
6	PLAN ROUTE 3 STA.134+50 TO 148+50 (EBL), ROUTE 663				
6A	PROFILES ROUTE 3 (EB & WB)				
6B	PROFILES ROUTE 663				
7	PLAN ROUTE 3 STA.148+50 TO 162+50 (EBL)				
7A	PROFILES ROUTE 3 (EB & WB)				
8	PLAN ROUTE 3 STA.162+50 TO 175+50 (EBL), ROUTE 600				
8A	PROFILES ROUTE 3 (EB & WB)				
8B	PROFILES ROUTE 600				
9	PLAN ROUTE 3 STA.175+50 TO 189+50 (EBL), ROUTE 600				
9A	PROFILES ROUTE 3 (EB & WB)				
10	PLAN ROUTE 3 STA.189+50 TO 203+50 (EBL)				
10A	PROFILES ROUTE 3 (EB & WB)				
11	PLAN ROUTE 3 STA.203+50 TO 215+50 (EBL)				
11A	PROFILES ROUTE 3 (EB & WB)				
12	PLAN ROUTE 3 STA.215+50 TO 228+50 (EBL), ROUTE 739				
12A	PROFILES ROUTE 3 (EB & WB)				
12B	PROFILE ROUTE 739				
13	PLAN ROUTE 3 STA.228+50 TO 242+50 (EBL)				
13A	PROFILES ROUTE 3 (EB & WB)				
14	PLAN ROUTE 3 STA.242+50 TO 255+75 (EBL)				
14A	PROFILES ROUTE 3 (EB & WB)				
14C	PLAN PARCEL NO.036				
15	PLAN ROUTE 3 STA.255+75 TO 269+50 (EBL)				
15A	PROFILES ROUTE 3 (EB & WB)				
16	PLAN ROUTE 3 STA.269+50 TO 283+50 (EBL)				
16A	PROFILES ROUTE 3 (EB & WB)				
17	PLAN ROUTE 3 STA.283+50 TO 297+50 (EBL), ROUTE 669				
17A	PROFILES ROUTE 3 (EB & WB)				
17B	PROFILE ROUTE 669				
18	PLAN ROUTE 3 STA.297+50 TO 311+50 (EBL)				
18A	PROFILES ROUTE 3 (EB & WB)				
19	PLAN ROUTE 3 STA.311+50 TO 325+50 (EBL)				
19A	PROFILES ROUTE 3 (EB & WB)				

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	1B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

PROJECT	SHEET NO.
0003-023-107	1B

PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	1C(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

City/County: Stevensburg/Culpeper Co.
UPC No.: 14657

PRELIMINARY RIGHT OF WAY DATA SHEET

Notes:
*The location of this property and right of way line is not shown on the survey.
**The location of this property and right of way line shown on the survey is approximate.

PARCEL NO.	LANDOWNER	SHEET NO.	AREA															
			TOTAL	FEE TAKING		PRESCRIPTIVE R/W		FEE REMAINDER		EASEMENTS						PROFFERS		
				ACRES	ACRES	SQ. FEET	ACRES	SQ. FEET	ACRES	SQ. FEET	PERMANENT		UTILITY		TEMPORARY		TEMPORARY (ENTRANCES)	
ACRES	ACRES	SQ. FEET	ACRES	SQ. FEET	ACRES	SQ. FEET	ACRES	SQ. FEET	ACRES	SQ. FEET	ACRES	SQ. FEET	ACRES	SQ. FEET	ACRES	SQ. FEET	YES / NO	
001	RODGERS FAMILY LIMITED PARTNERSHIP	3,4	176.250															
002	RODGERS FAMILY LIMITED PARTNERSHIP	4,5	86.500															
003	RODGERS FAMILY LIMITED PARTNERSHIP	5	24.500															
004	DONALD C.WELLS, JR. JOHN A COVINGTON TRUSTEE	5	209.800															
005	MICHAEL J. BROOKS & NANCY G. BROOKS	5,6	8.304															
006	GUADALUPE JUAREZ & AMANDA TORRES	6	0.950															
007	LILLIE MAE LOOKABILL & DONNA SUE HARRIS & DONA DARLENE EADS	6	0.940															
008	DANIEL C. McCLAIN	5,6	11.000															
009	FEDERAL HOME LOAN MORTGAGE CORPORATION	6	1.150															
010	GWENDOLYN F. HITT & GEORGE ANDREW HITT	6,7	1.372															
011	TIMOTHY LEE LAWRENCE & LORI LAWRENCE	6,7	2.980															
012	JEFFREY LEE STURM	7	0.470															
013	GEORGE ANDREW HITT, RUBY D. HITT & GWENDOLYN F. HITT	7	0.681															
014	GEORGE ANDREW HITT, RUBY D. HITT & GWENDOLYN F. HITT	7	1.831															
015	KENNETH WILLIAM HITT & JANE BROWN HITT	7	1.420															
016	KENNETH L. BROWN & VIRGINIA G. BROWN	7	1.269															
017	KENNETH DONALD HITT & DONNA B. HITT	7,8	4.839															
018	BLUE RIDGE FARM, INC.	7,8,9	51.400															
019	BLUE RIDGE FARM, INCORPORATED	9,10	181.19															
020	BRITTON ROSS HITT & CRYSTAL RENE HITT	8	1.112															
021	JOHN CORBEY	8,9	1.030															
022	W. RANDOLPH GUM & GLENDA L. GUM	8	2.020															
023	CHARLES E. LOYD JR & MARGARET G. LOYD	8,9	24.600															
024	LAURA N. GRAYSON AND BRISON C. ROHRBACH	9,10	46.520															
025	RONALD BUKSATIS	10	1.760															
026	JOHN R. STOY & J. ROBERT YEAMAN III, TRUSTEES	10	196.900															
027	CHERRY PEC PARTNERSHIP	10,11,12	251.230															
028	HURTCO, LLC	12	6.960															
029	IRENE W. CARNES	11,12,13	257.200															
030	LONNY D. STURGEON & AMANDA M. STURGEON	11	5.006															
031	IRENE W. CARNES	10,11	20.000															
032	WILLIAM A. SPILLMAN III	12,13	3.000															
033	EVANGELOS P. CARAFIDES & MARIA CARAFIDES	12,13	20.870															
034	MARKHAM D. SMITH, SCOTT P. SMITH & DOUGLAS S. SMITH	13	30.000															
035	JOHANNES C. VAN WINGERTEN	13,14	15.350															
036	JOHN M. WARNER	13,14,15	12.010															
037	JOHN M. WARNER	14	7.250															
038	BETTY ANN JONES	14	1.010															



PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

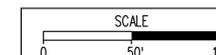
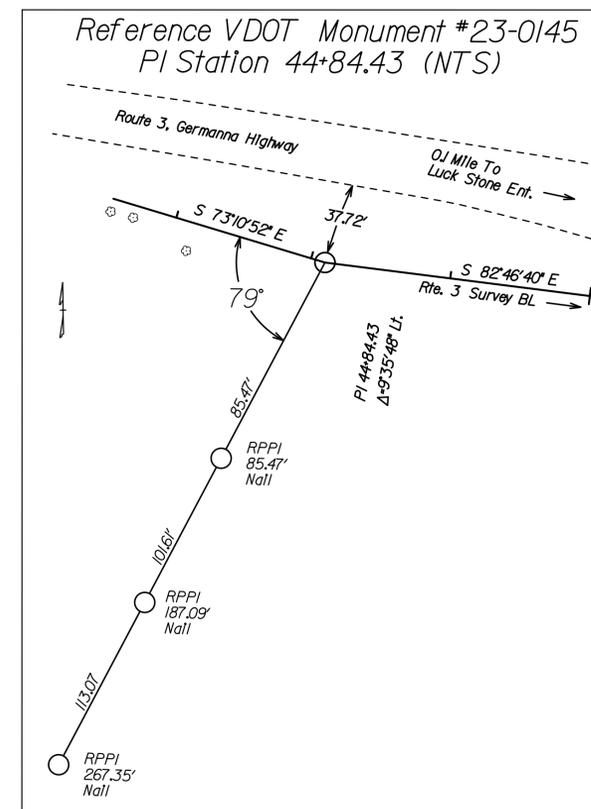
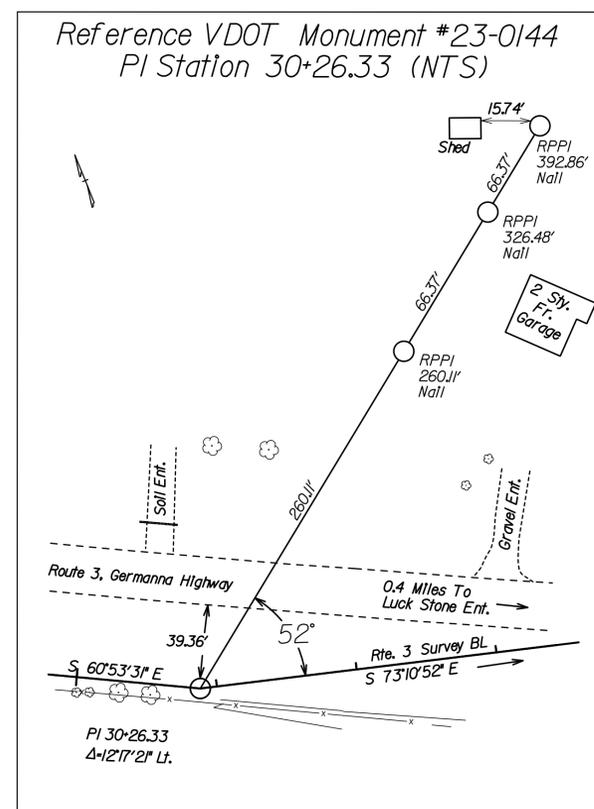
Note: To Convert Va. State Plane Coordinates NAD 83 Metric Values to Va. D. O. T. Project Coordinates.
1. Reduce the Eastings 2.5 Million Meters and the South and North Zone Northings by 1 and 2 Million Respectively.
2. Multiply by the U. S. Survey Foot (3.280833333333).
3. Multiply These Values by the Combined Scale and Elevation Factor (1.00007) for this County.
A Reverse of this Procedure will Transform VDOT Project Coordinates to NAD 83 Values.

REVISED	STATE	STATE		SHEET NO.
	ROUTE	PROJECT		
	VA.	3	0003-023-107, PE-101, RW-201, C-501	1F(1)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

SURVEY ALIGNMENT DATA

NTS: Not To Scale



PROJECT
0003-023-107

SHEET NO.
1F(1)

PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, LS (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

Note: To Convert Va. State Plane Coordinates NAD 83 Metric Values to Va. D. O. T. Project Coordinates.
1. Reduce the Eastings 2.5 Million Meters and the South and North Zone Northings by 1 and 2 Million Respectively.
2. Multiply by the U. S. Survey Foot (3,280.833333333).
3. Multiply These Values by the Combined Scale and Elevation Factor (1.00007) for this County.
A Reverse of this Procedure will Transform VDOT Project Coordinates to NAD 83 Values.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	1F(2)

SURVEY ALIGNMENT DATA

Control Station ID 23-0147
Project 0003-023-107, PE 102
Established By ACTS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0148 099 55 13
Data Diskette Number (If appl) _____
Zone _____

Route 3
City / County Culpeper
Year 1995
Elev. 323.85'

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0147. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 4.20 Miles to the Station on the right. The Station Is 30.47' South of the South edge of pavement, and 14.96' North of a Power Pole.

Control Station ID 23-0150
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0151 073 04 46
Data Diskette Number (If appl) _____
Zone _____

Route 3
City / County Culpeper
Year 1995
Elev. 401.83'

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0150. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 4.83 Miles to the Station on the right. The Station Is 46.58' South of the South edge of pavement, and 31.4' North of an East/West fence line.

Control Station ID 23-0153
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0154 089 57 49
Data Diskette Number (If appl) _____
Zone _____

Route 3
City / County Culpeper
Year 1995
Elev. 381.79'

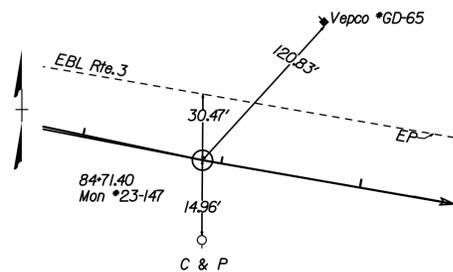
DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0153. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 5.61 Miles to the Station on the left. The Station Is 44.84' North of the North edge of pavement, and 2.95' South of an East/West fence line.

VA. STATE. PLANE. COORDINATES

X (East) 3551902.049
Y (West) 2086258.495

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3451356.891
Y (West) 283019.556

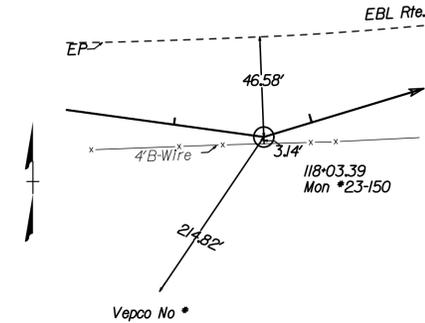


VA. STATE. PLANE. COORDINATES

X (East) 3552904.086
Y (West) 2086094.307

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3454644.637
Y (West) 282480.844

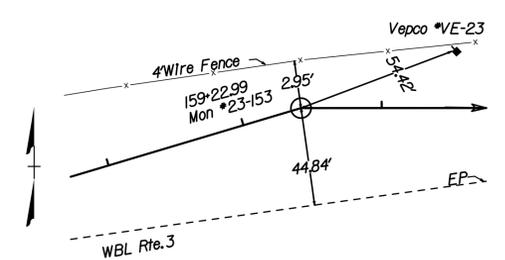


VA. STATE. PLANE. COORDINATES

X (East) 355419.474
Y (West) 2086401.852

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3458632.401
Y (West) 283489.916



Control Station ID 23-0148
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0149 099 43 01
Data Diskette Number (If appl) _____
Zone _____

Route 3
City / County Culpeper
Year 1995
Elev. 349.50'

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0148. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 4.50 Miles to the Station on the right, just East of Batna Road. The Station Is 22.30' South of the South edge of pavement of Rte. 3 and 16.10' East of the East edge of pavement of Batna Road.

Control Station ID 23-0151
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0152 079 32 31
Data Diskette Number (If appl) _____
Zone _____

Route 3
City / County Culpeper
Year 1995
Elev. 387.86'

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0151. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 5.10 Miles to the Station on the left. The Station Is 38.74' North of the North edge of pavement, and 41.4' South of an East/West fence line.

Control Station ID 23-0154
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0155 124 11 32
Data Diskette Number (If appl) _____
Zone _____

Route 3
City / County Culpeper
Year 1995
Elev. 355.01'

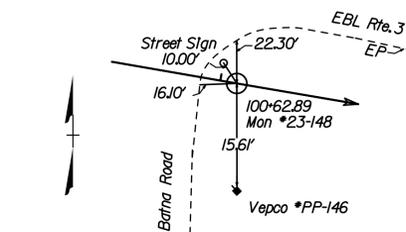
DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0154. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 5.82 Miles to the Station on the left, just before Clay Hill Road. The Station Is 24.21' North of the Clay Hill Road street sign and 29.98' West of the edge of Clay Hill Road.

VA. STATE. PLANE. COORDINATES

X (East) 3552379.851
Y (West) 2086174.932

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3452924.588
Y (West) 282745.377

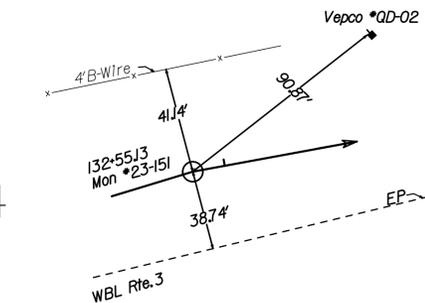


VA. STATE. PLANE. COORDINATES

X (East) 3553327.393
Y (West) 2086223.083

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3456033.532
Y (West) 282903.366

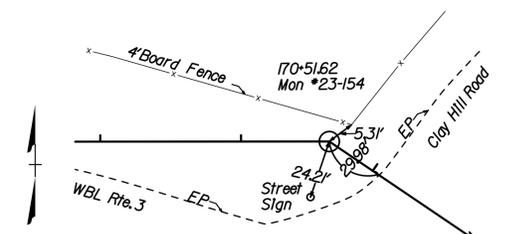


VA. STATE. PLANE. COORDINATES

X (East) 3554463.457
Y (West) 2086402.071

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3459761.028
Y (West) 283490.635



Control Station ID 23-0149
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0150 097 51 01
Data Diskette Number (If appl) _____
Zone _____

Route 3
City / County Culpeper
Year 1995
Elev. 365.28'

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0149. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 4.66 Miles to the Station on the right. The Station Is 26.70' South of the South edge of pavement and 32.41' N.E. Power Pole *15-C.

Control Station ID 23-0152
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0153 073 20 24
Data Diskette Number (If appl) _____
Zone _____

Route 3
City / County Culpeper
Year 1995
Elev. 366.86'

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0152. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 5.43 Miles to the Station on the right. The Station Is 29.65' South of the South edge of pavement, and 13.61' North of an East/West fence line.

Control Station ID 23-0155
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0156 126 35 40
Data Diskette Number (If appl) _____
Zone _____

Route 3
City / County Culpeper
Year 1995
Elev. 342.58'

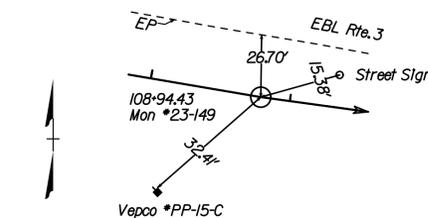
DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0155. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 5.43 Miles to the Station on the right. The Station Is 29.65' South of the South edge of pavement, and 13.61' North of an East/West fence line.

VA. STATE. PLANE. COORDINATES

X (East) 3552629.652
Y (West) 2086132.157

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3453744.203
Y (West) 282605.026

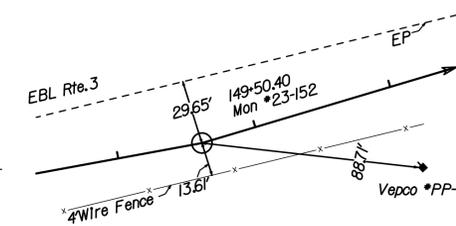


VA. STATE. PLANE. COORDINATES

X (East) 3553835.491
Y (West) 2086316.869

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3457700.635
Y (West) 283211.082

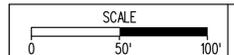


VA. STATE. PLANE. COORDINATES

X (East) 3554818.184
Y (West) 2086161.068

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3460924.913
Y (West) 282699.888



PROJECT	SHEET NO.
0003-023-107	1F(2)

PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

Note: To Convert Va. State Plane Coordinates NAD 83 Metric Values to Va. D. O. T. Project Coordinates.
1. Reduce the Eastings 2.5 Million Meters and the South and North Zone Northings by 1 and 2 Million Respectively.
2. Multiply by the U. S. Survey Foot (3,280.833333333333).
3. Multiply These Values by the Combined Scale and Elevation Factor (1.00007) for this County.
A Reverse of this Procedure will Transform VDOT Project Coordinates to NAD 83 Values.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	1F(3)

SURVEY ALIGNMENT DATA

Control Station ID 23-0144
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0145 106 49 08
Data Diskette Number (if appl) Zone

Route 3
City / County Culpeper
Year 1995
Elev. 314.04'

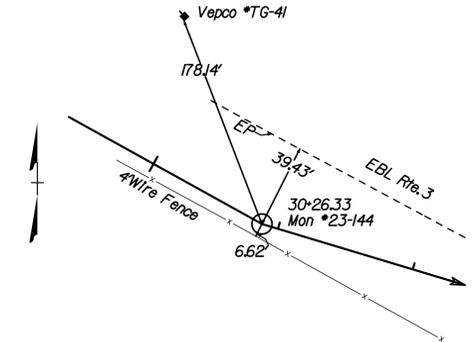
VA. STATE. PLANE. COORDINATES

X (East) 3550280.416
Y (West) 2086594.710

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3446036.209
Y (West) 284122.687

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0144. To reach the Station From the Intersection of Route 3 and 522, proceed East on Route 3 for 3.17 Miles to the Station on the right. The Station Is 39.43' South of the South edge of pavement and 6.62' North of an East/West Fence line



Control Station ID 23-0145
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0146 097 13 20
Data Diskette Number (if appl) Zone

Route 3
City / County Culpeper
Year 1995
Elev. 309.25'

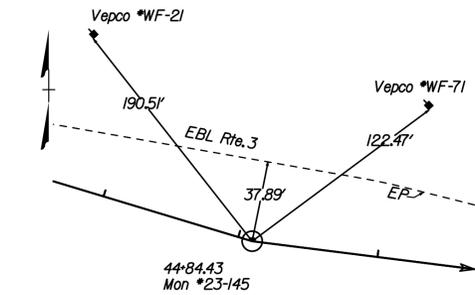
VA. STATE. PLANE. COORDINATES

X (East) 3550705.804
Y (West) 2086466.124

VA. DEPT. OF TRANS. PROJECT COORDINATES

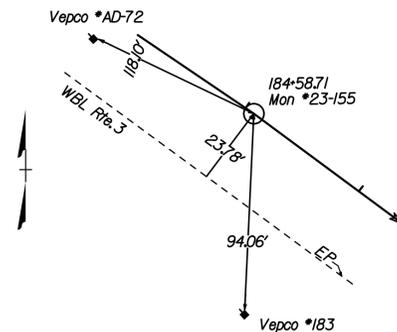
X (East) 3447431.935
Y (West) 283700.792

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0145. To reach the Station From the Intersection of Route 3 and 522, proceed East on Route 3 for 3.44 Miles to the Station on the right. The Station Is 37.89' South of the South edge of pavement.



DETAILED DESCRIPTION

The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0155. To reach the Station From the Intersection of Route 3 and 522, proceed East on Route 3 for 6.09 Miles to the Station on the left. The Station Is 23.78' North of the North edge of pavement and 118.10' N.E. of Power Pole *AD-72



Control Station ID 23-0146
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0147 101 56 11
Data Diskette Number (if appl) Zone

Route 3
City / County Culpeper
Year 1995
Elev. 310.82'

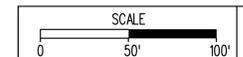
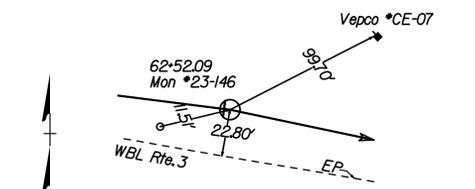
VA. STATE. PLANE. COORDINATES

X (East) 3551240.275
Y (West) 2086398.393

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3449185.567
Y (West) 283478.565

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0146. To reach the Station From the Intersection of Route 3 and 522, proceed East on Route 3 for 3.78 Miles to the Station on the left. The Station Is 22.80' North of the North edge of pavement, and 99.70' S.W. of Power Pole *CE-07



PROJECT 0003-023-107

SHEET NO. 1F(3)

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

Note: To Convert Va. State Plane Coordinates NAD 83 Metric Values to Va. D. O. T. Project Coordinates.
1. Reduce the Eastings 2.5 Million Meters and the South and North Zone Northings by 1 and 2 Million Respectively.
2. Multiply by the U. S. Survey Foot (3,280.833333333).
3. Multiply These Values by the Combined Scale and Elevation Factor (1.00007) for this County.
A Reverse of this Procedure will Transform VDOT Project Coordinates to NAD 83 Values.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	IF(4)

SURVEY ALIGNMENT DATA

Control Station ID 23-0156
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0157 126 26 08
Data Diskette Number (if appl.)
Route 3
City / County Culpeper
Year 1995
Elev. 331.92'
Zone

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0156. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 6.45 Miles to the Station on the left. The Station Is 21.94' North of the North edge of pavement and 23.42' N.E. of Power Pole *EA-26

Control Station ID 23-0159
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0119 131 09 45
Data Diskette Number (if appl.)
Route 3
City / County Culpeper
Year 1995
Elev. 287.89'
Zone

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0159. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 7.13 Miles to the Station on the left. The Station Is 28.70' North of the North edge of pavement and 93.01' East of Power Pole *F-88

VA. STATE. PLANE. COORDINATES

X (East) 3555282.039
Y (West) 2085816.650

VA. STATE. PLANE. COORDINATES

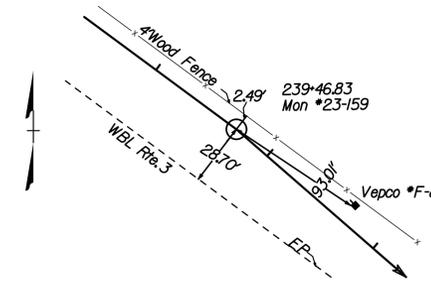
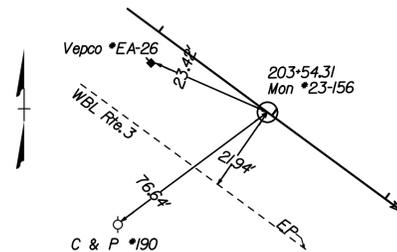
X (East) 3556163.236
Y (West) 2085166.768

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3462446.852
Y (West) 281569.838

VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3465338.116
Y (West) 279437.536

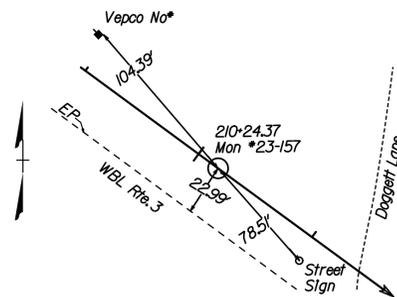


Control Station ID 23-0157
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0158 126 19 40
Data Diskette Number (if appl.)
Route 3
City / County Culpeper
Year 1995
Elev. 324.44'
Zone

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0157. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 6.58 Miles to the Station on the left. The Station Is 22.99' North of the North edge of pavement and 104.39' S.E. of a Power Pole.

VA. STATE. PLANE. COORDINATES

X (East) 3555446.337
Y (West) 2085695.362



VA. DEPT. OF TRANS. PROJECT COORDINATES

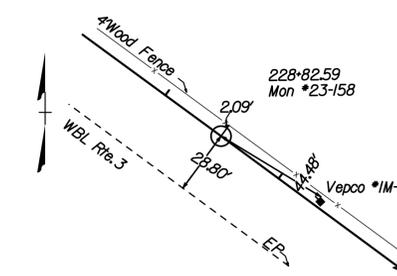
X (East) 3462985.926
Y (West) 281171.880

Control Station ID 23-0158
Project 0003-023-107, PE 102
Established By ATCS, P.L.C.
Vertical Datum Based On NAD 1929
Horizontal Datum Based On NAD 1983
Azimuth To Station 23-0159 126 31 59
Data Diskette Number (if appl.)
Route 3
City / County Culpeper
Year 1995
Elev. 294.84'
Zone

DETAILED DESCRIPTION
The Station Is a Standard VDOT Disk set In a Concrete Post flush with the ground and Stamped 23-0158. To reach the Station from the Intersection of Route 3 and 522, proceed East on Route 3 for 6.93 Miles to the Station on the left. The Station Is 28.80' North of the North edge of pavement and 2.09' South of an East/West fence line

VA. STATE. PLANE. COORDINATES

X (East) 3555902.609
Y (West) 2085359.855



VA. DEPT. OF TRANS. PROJECT COORDINATES

X (East) 3464482.984
Y (West) 280071.065

SURVEY ALIGNMENTS

POINT ID.	STATION	BEARING	PROJECT NORTH (Y)	COORDINATES EAST (X)
RT 3				
SS	10+00.00		285,108.414	3,444,265.793
PI	30+26.33	S 60° 53' 31" E	284,122.687	3,446,036.209
PI	44+84.43	S 73° 10' 52" E	283,700.792	3,447,431.935
PI	62+52.09	S 82° 46' 40" E	283,478.565	3,449,185.567
PI	84+71.40	S 78° 03' 49" E	283,019.556	3,451,356.891
PI	100+62.89	S 80° 04' 47" E	282,745.377	3,452,924.588
PI	108+94.43	S 80° 16' 59" E	282,605.026	3,453,744.203
PI	118+03.39	S 82° 08' 51" E	282,480.844	3,454,644.637
PI	132+55.13	N 73° 04' 46" E	282,903.366	3,456,033.532
PI	149+50.40	N 79° 32' 31" E	283,211.082	3,457,700.635
PI	159+22.99	N 73° 20' 24" E	283,489.916	3,458,632.401
PI	170+51.62	N 89° 57' 49" E	283,490.635	3,459,761.028
PI	184+58.71	S 55° 48' 28" E	282,699.888	3,460,924.913
PI	203+54.31	S 53° 24' 21" E	281,569.838	3,462,446.852
PI	210+24.37	S 53° 33' 51" E	281,71.880	3,462,985.926
PI	228+82.59	S 53° 40' 20" E	280,071.065	3,464,482.984
PI	239+46.83	S 53° 28' 01" E	279,437.536	3,465,338.116
PI	248+83.78	S 48° 50' 15" E	278,820.838	3,466,043.499

Route 3 Survey Baseline

Survey Foot Stationing	Original Metric Stationing
SS 10+00.00	- 149+00.000
PI 30+26.33	- 155+17.628
PI 44+84.43	- 159+62.057
PI 62+52.09	- 165+00.840
PI 84+71.40	- 171+77.287
PI 100+62.89	- 176+62.375
PI 108+94.43	- 179+15.830
PI 118+03.39	- 181+92.881
PI 132+55.13	- 186+35.373
PI 149+50.40	- 191+52.090
PI 159+22.99	- 194+48.537
PI 170+51.62	- 197+92.543
PI 184+58.71	- 202+21.426
PI 203+54.31	- 207+99.207
PI 210+24.37	- 210+03.439
PI 228+82.59	- 215+69.826
PI 239+46.83	- 218+94.207
PI 248+83.78	- 221+79.791



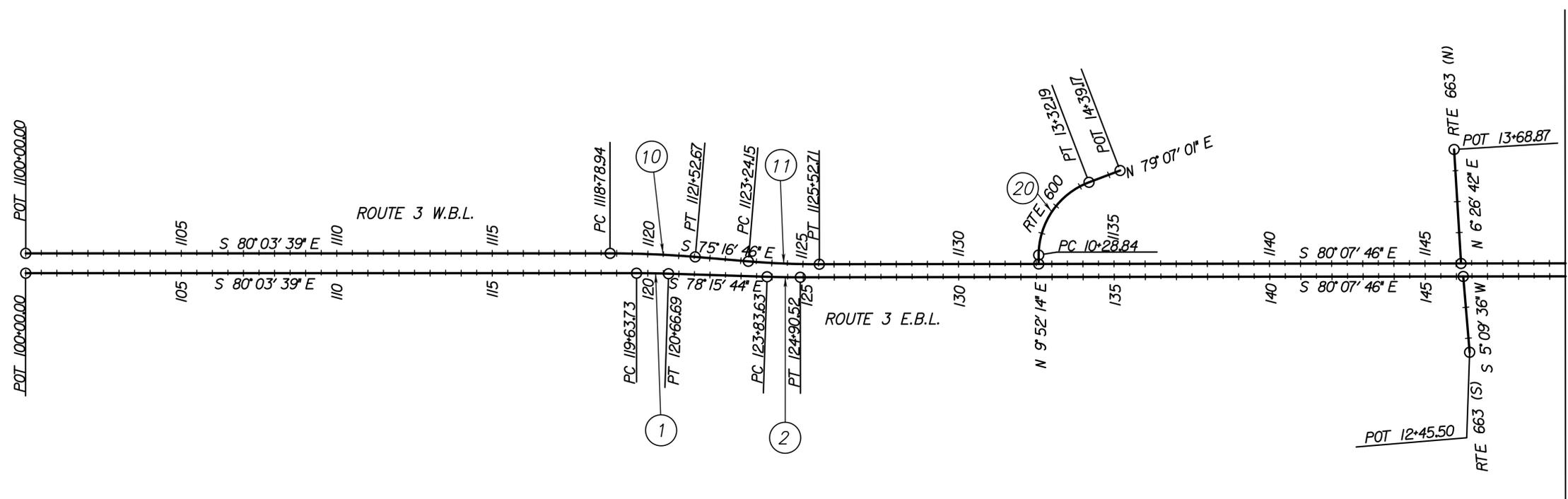
PROJECT	0003-023-107	SHEET NO.	IF(4)
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PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	3	0003-023-107, PE-101, RW-201, C-501	1G(1)

DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

CONSTRUCTION ALIGNMENT DATA SHEET



LEGEND:

(X) DENOTES CURVE DATA REFERENCE NUMBER



PROJECT
0003-023-107

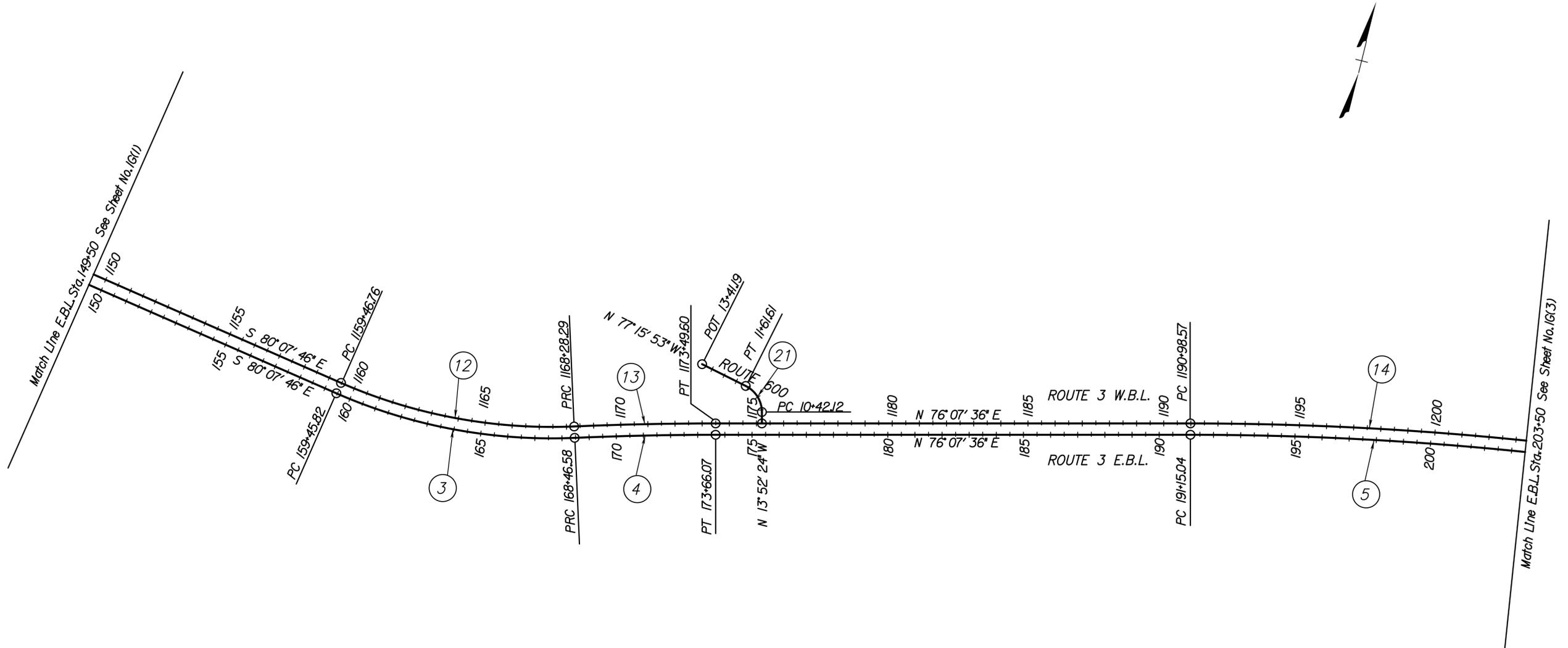
SHEET NO.
1G(1)

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	1G(2)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

CONSTRUCTION ALIGNMENT DATA SHEET



LEGEND:

(X) DENOTES CURVE DATA REFERENCE NUMBER



PROJECT
0003-023-107

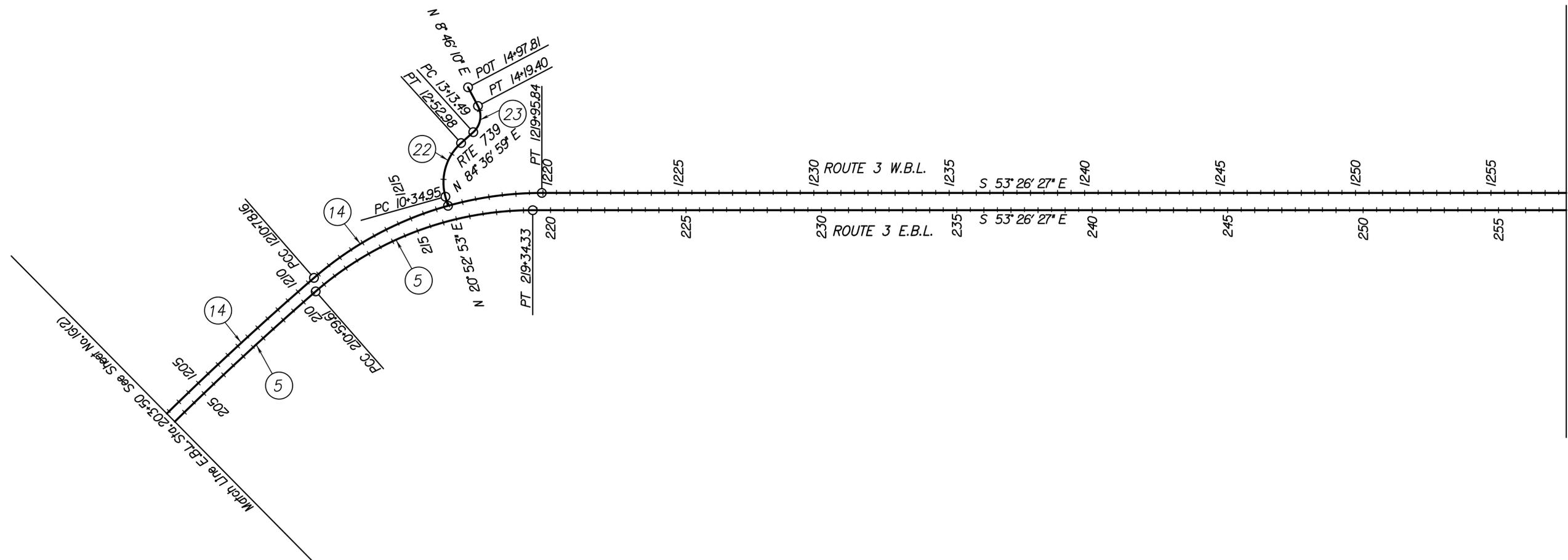
SHEET NO.
1G(2)

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE		PROJECT	SHEET NO.
	STATE	ROUTE		
	VA.	3	0003-023-107, PE-101, RW-201, C-501	1G(3)

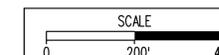
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

CONSTRUCTION ALIGNMENT DATA SHEET



LEGEND:

(X) DENOTES CURVE DATA REFERENCE NUMBER



PROJECT
0003-023-107

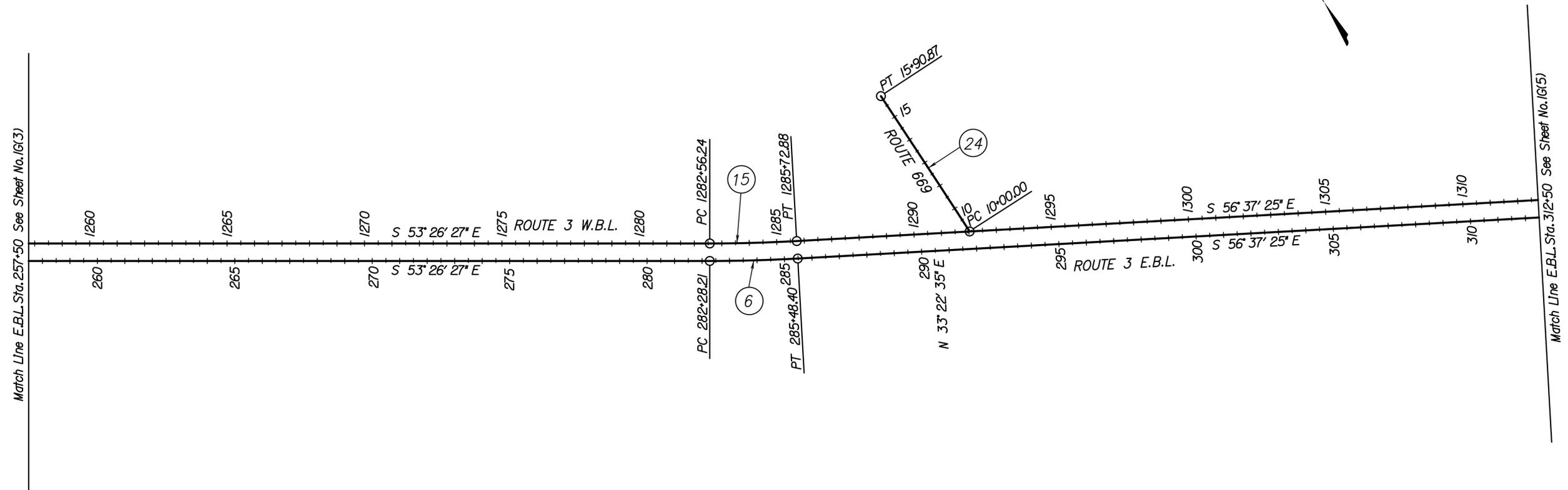
SHEET NO.
1G(3)

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE		STATE		SHEET NO.
	STATE	ROUTE	PROJECT	PROJECT	
	VA.	3	0003-023-107, PE-101, RW-201, C-501		1G(4)

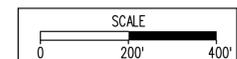
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

CONSTRUCTION ALIGNMENT DATA SHEET



LEGEND:

(X) DENOTES CURVE DATA REFERENCE NUMBER



PROJECT
0003-023-107

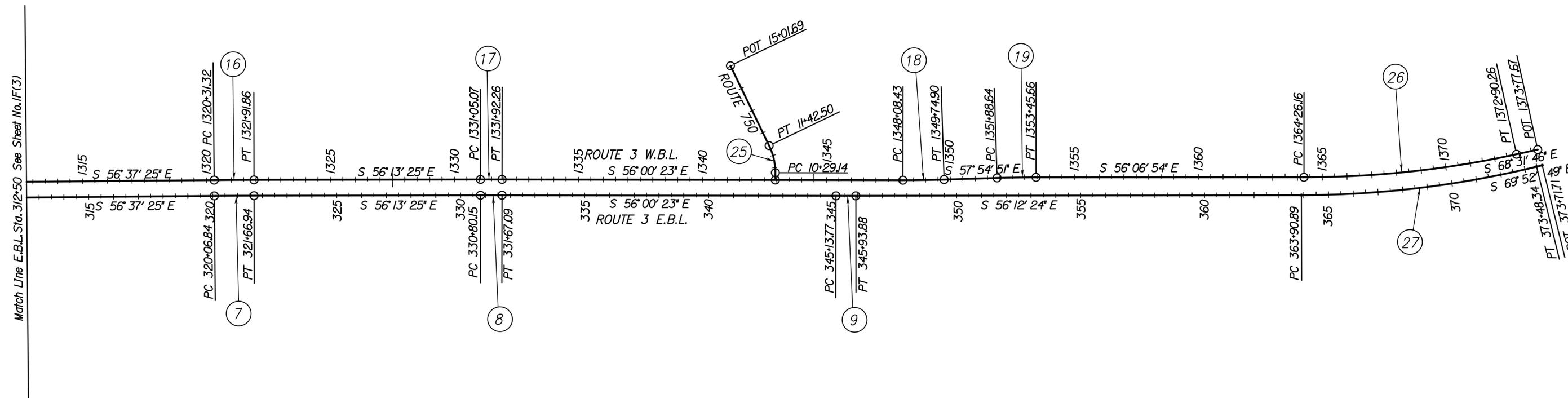
SHEET NO.
1G(4)

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE		STATE	SHEET NO.
	ROUTE	PROJECT		
	VA.	3	0003-023-107, PE-101, RW-201, C-501	1G(5)

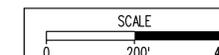
DESIGN FEATURES RELATING TO CONSTRUCTION
OR TO REGULATION AND CONTROL OF TRAFFIC
MAY BE SUBJECT TO CHANGE AS DEEMED
NECESSARY BY THE DEPARTMENT

CONSTRUCTION ALIGNMENT DATA SHEET



LEGEND:

(X) DENOTES CURVE DATA REFERENCE NUMBER



PROJECT
0003-023-107

SHEET NO.
1G(5)

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY
DESIGNED BY

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	16(6)

CONSTRUCTION BASELINE ROUTE 3 EASTBOUND

CONSTRUCTION ALIGNMENT DATA SHEET

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Chain EBL contains:
PI00 CUR EBL00 CUR EBL01 CUR EBL02 CUR EBL03 CUR EBL04 CUR EBL05 CUR EBL06 CUR EBL07 CUR EBL08 CUR EBL09 PI01

Beginning chain EBL description

Point PI00 N 283,590.04 E 3,448,349.92 Sta 100+00.00

Course from PI00 to PC EBL00 S 80° 03' 39.12" E Dist 1,963.73

Curve Data			
①	Curve EBL00		
	P.I. Station	120+15.22 N	283,242.21 E 3,450,334.89
	Delta	1° 47' 55.00" (RT)	
	Degree	1° 44' 48.56"	
	Tangent	51.49	
	Length	102.96	
	Radius	3,280.00	
	External	0.40	
	Long Chord	102.96	
	Mtd.Ord.	0.40	
	P.C. Station	119+63.73 N	283,251.00 E 3,450,284.18
	P.T. Station	120+66.69 N	283,231.74 E 3,450,385.30
	C.C.	N 280,020.32 E	3,449,718.05
	Back	S 80° 03' 39.12" E	
	Ahead	S 78° 15' 44.12" E	
	Chord Bear	S 79° 09' 41.62" E	

Course from PT EBL00 to PC EBL01 S 78° 15' 44.12" E Dist 316.94

Curve Data			
②	Curve EBL01		
	P.I. Station	124+37.08 N	283,156.39 E 3,450,747.94
	Delta	1° 52' 01.95" (LT)	
	Degree	1° 44' 48.56"	
	Tangent	53.45	
	Length	106.89	
	Radius	3,280.00	
	External	0.44	
	Long Chord	106.89	
	Mtd.Ord.	0.44	
	P.C. Station	123+83.63 N	283,167.26 E 3,450,695.61
	P.T. Station	124+90.52 N	283,147.22 E 3,450,800.60
	C.C.	N 286,378.67 E	3,451,362.87
	Back	S 78° 15' 44.12" E	
	Ahead	S 80° 07' 46.07" E	
	Chord Bear	S 79° 11' 45.10" E	

Course from PT EBL01 to PC EBL02 S 80° 07' 46.07" E Dist 3,455.30

Curve Data			
③	Curve EBL02		
	P.I. Station	164+04.23 N	282,476.33 E 3,454,656.38
	Delta	2° 13' 27.87" (LT)	
	Degree	2° 54' 40.94"	
	Tangent	458.41	
	Length	900.76	
	Radius	1,968.00	
	External	52.68	
	Long Chord	892.92	
	Mtd.Ord.	51.31	
	P.C. Station	159+45.82 N	282,554.91 E 3,454,204.76
	P.T. Station	168+46.58 N	282,605.40 E 3,455,096.24
	C.C.	N 284,493.78 E	3,454,542.12
	Back	S 80° 07' 46.07" E	
	Ahead	N 73° 38' 46.06" E	
	Chord Bear	N 86° 45' 30.00" E	

Curve Data			
④	Curve EBL03		
	P.I. Station	171+06.37 N	282,678.55 E 3,455,345.52
	Delta	2° 28' 49.48" (RT)	
	Degree	0° 28' 38.87"	
	Tangent	259.79	
	Length	519.50	
	Radius	12,000.00	
	External	2.81	
	Long Chord	519.46	
	Mtd.Ord.	2.81	
	P.C. Station	168+46.58 N	282,605.40 E 3,455,096.24
	P.T. Station	173+66.07 N	282,740.84 E 3,455,597.73
	C.C.	N 271,090.91 E	3,458,475.07
	Back	N 73° 38' 46.06" E	
	Ahead	N 76° 07' 35.55" E	
	Chord Bear	N 74° 53' 10.80" E	

Course from PT EBL03 to PC EBL04 N 76° 07' 35.55" E Dist 1,748.96

CONSTRUCTION BASELINE ROUTE 3 EASTBOUND

Curve Data			
⑤	Curve EBL04		
	P.I. Station	200+89.45 N	283,393.85 E 3,458,241.66
	Delta	9° 17' 04.69" (RT)	
	Degree	0° 28' 38.87"	
	Tangent	97.442	
	Length	1,944.57	
	Radius	12,000.00	
	External	39.50	
	Long Chord	1,942.44	
	Mtd.Ord.	39.37	
	P.C. Station	191+15.04 N	283,160.20 E 3,457,295.67
	P.T. Station	210+59.61 N	283,471.81 E 3,459,212.96
	C.C.	N 271,510.27 E	3,460,173.01
	Back	N 76° 07' 35.55" E	
	Ahead	N 85° 24' 40.23" E	
	Chord Bear	N 80° 46' 07.89" E	

Curve Data			
⑥	Curve EBL05		
	P.I. Station	215+16.79 N	283,508.38 E 3,459,668.68
	Delta	4° 08' 52.80" (RT)	
	Degree	4° 42' 14.71"	
	Tangent	457.19	
	Length	874.73	
	Radius	1,218.00	
	External	82.98	
	Long Chord	856.05	
	Mtd.Ord.	77.69	
	P.C. Station	210+59.61 N	283,471.81 E 3,459,212.96
	P.T. Station	219+34.33 N	283,236.06 E 3,460,035.91
	C.C.	N 282,257.71 E	3,459,310.40
	Back	N 85° 24' 40.23" E	
	Ahead	S 53° 26' 26.97" E	
	Chord Bear	S 74° 00' 53.37" E	

Course from PT EBL05 to PC EBL06 S 53° 26' 26.97" E Dist 6,293.88

Curve Data			
⑦	Curve EBL06		
	P.I. Station	283+88.35 N	279,391.71 E 3,465,220.05
	Delta	3° 10' 58.06" (LT)	
	Degree	0° 59' 38.50"	
	Length	320.19	
	Radius	5,764.00	
	External	2.22	
	Long Chord	320.15	
	Mtd.Ord.	2.22	
	P.C. Station	282+28.21 N	279,487.09 E 3,465,091.42
	P.T. Station	285+48.40 N	279,303.61 E 3,465,353.77
	C.C.	N 284,116.98 E	3,468,524.76
	Back	S 53° 26' 26.97" E	
	Ahead	S 56° 37' 25.03" E	
	Chord Bear	S 55° 01' 56.00" E	

Course from PT EBL06 to PC EBL07 S 56° 37' 25.03" E Dist 3,458.44

Curve Data			
⑧	Curve EBL07		
	P.I. Station	320+86.89 N	277,356.96 E 3,468,308.67
	Delta	0° 23' 59.76" (RT)	
	Tangent	80.05	
	Length	160.10	
	Radius	22,936.00	
	External	0.14	
	Long Chord	160.10	
	Mtd.Ord.	0.14	
	P.C. Station	320+06.84 N	277,401.00 E 3,468,241.83
	C.C.	N 258,247.72 E	3,455,623.90
	Back	S 56° 37' 25.03" E	
	Chord Bear	S 56° 25' 25.15" E	

Course from PT EBL07 to PC EBL08 S 56° 13' 25.26" E Dist 913.21

CONSTRUCTION BASELINE ROUTE 3 EASTBOUND

Curve Data			
⑧	Curve EBL08		
	P.I. Station	331+23.62 N	276,780.59 E 3,469,170.42
	Delta	0° 13' 01.91" (RT)	
	Degree	0° 14' 59.31"	
	Tangent	43.47	
	Length	86.95	
	Radius	22,936.00	
	External	0.04	
	Long Chord	86.95	
	Mtd.Ord.	0.04	
	P.C. Station	330+80.15 N	276,804.76 E 3,469,134.28
	P.T. Station	331+67.09 N	276,756.28 E 3,469,206.46
	C.C.	N 257,740.02 E	3,456,382.97
	Back	S 56° 13' 25.26" E	
	Ahead	S 56° 00' 23.36" E	
	Chord Bear	S 56° 06' 54.31" E	

Course from PT EBL08 to PC EBL09 S 56° 00' 23.36" E Dist 1,346.67

Curve Data			
⑨	Curve EBL09		
	P.I. Station	345+53.82 N	275,980.96 E 3,470,356.20
	Delta	0° 12' 00.49" (LT)	
	Degree	0° 14' 59.31"	
	Tangent	40.06	
	Length	80.12	
	Radius	22,936.00	
	External	0.03	
	Long Chord	80.12	
	Mtd.Ord.	0.03	
	P.C. Station	345+13.77 N	276,003.36 E 3,470,322.99
	P.T. Station	345+93.88 N	275,958.68 E 3,470,389.49
	C.C.	N 295,019.62 E	3,483,146.48
	Back	S 56° 00' 23.36" E	
	Ahead	S 56° 12' 23.85" E	
	Chord Bear	S 56° 06' 23.60" E	

Course from PT EBL09 to PC EBL10 S 56° 12' 23.85" E Dist 1,797.00

Curve Data			
⑩	Curve EBL10		
	P.I. Station	368+71.90 N	274,691.65 E 3,472,282.64
	Delta	13° 40' 24.78" (LT)	
	Degree	1° 25' 41.20"	
	Tangent	481.01	
	Length	957.46	
	Radius	4,012.00	
	External	287.3	
	Long Chord	955.19	
	Mtd.Ord.	28.53	
	P.C. Station	363+90.89 N	274,959.19 E 3,471,882.89
	P.T. Station	373+48.34 N	274,526.19 E 3,472,734.30
	C.C.	N 278,293.36 E	3,474,114.36
	Back	S 56° 12' 23.85" E	
	Ahead	S 69° 52' 48.63" E	
	Chord Bear	S 63° 02' 36.24" E	

Course from PT EBL10 to PI01 S 69° 52' 48.63" E Dist 23.36

Point PI01 N 274,518.15 E 3,472,756.23 Sta 373+71.71

Ending chain EBL description

LEGEND:

(X) DENOTES CURVE DATA REFERENCE NUMBER



PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

CONSTRUCTION ALIGNMENT DATA SHEET

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	1G(7)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

CONSTRUCTION BASELINE ROUTE 3 WESTBOUND

Chain WBL contains:
PI100 CUR WBL100 CUR WBL101 CUR WBL102 CUR WBL103 CUR WBL104 CUR WBL105 -
CUR WBL106 CUR WBL107 CUR WBL108 CUR WBL109 CUR WBL110 PI101

Beginning chain WBL description

Point PI100 N 283,653.08 E 3,448,360.97 Sta 1100+00.00

Course from PI100 to PC WBL100 S 80° 03' 39.12" E Dist 1,878.94

Curve Data

10	Curve WBL100	P.I. Station	1120+15.89 N	283,305.13 E	3,450,346.60
		Delta	4° 46' 53.61" (RT)		
		Degree	1° 44' 48.56"		
		Tangent	136.94		
		Length	273.73		
		Radius	3,280.00		
		External	2.86		
		Long Chord	273.65		
		Mid.Ord.	2.86		
		P.C. Station	1118+78.94 N	283,328.77 E	3,450,211.71
		P.T. Station	1121+52.67 N	283,270.33 E	3,450,479.05
		C.C.	N 280,098.00 E	3,449,645.58	
		Back	- S 80° 03' 39.12" E		
		Ahead	- S 75° 16' 45.51" E		
		Chord Bear	- S 77° 40' 12.31" E		

Course from PT WBL100 to PC WBL101 S 75° 16' 45.51" E Dist 171.48

Curve Data

11	Curve WBL101	P.I. Station	1124+38.50 N	283,197.70 E	3,450,755.49
		Delta	4° 51' 00.56" (LT)		
		Degree	2° 07' 19.44"		
		Tangent	114.35		
		Length	228.56		
		Radius	2,700.00		
		External	2.42		
		Long Chord	228.49		
		Mid.Ord.	2.42		
		P.C. Station	1123+24.15 N	283,226.76 E	3,450,644.90
		P.T. Station	1125+52.71 N	283,178.10 E	3,450,868.15
		C.C.	N 285,838.14 E	3,451,330.99	
		Back	- S 75° 16' 45.51" E		
		Ahead	- S 80° 07' 46.07" E		
		Chord Bear	- S 77° 42' 15.79" E		

Course from PT WBL101 to PC WBL102 S 80° 07' 46.07" E Dist 3,394.05

Curve Data

12	Curve WBL102	P.I. Station	1163+95.38 N	282,519.38 E	3,454,653.94
		Delta	26° 13' 27.87" (LT)		
		Degree	2° 58' 29.49"		
		Tangent	448.63		
		Length	881.53		
		Radius	1,926.00		
		External	51.56		
		Long Chord	873.86		
		Mid.Ord.	50.22		
		P.C. Station	1159+46.76 N	282,596.29 E	3,454,211.96
		P.T. Station	1168+28.29 N	282,645.70 E	3,455,084.42
		C.C.	N 284,493.78 E	3,454,542.12	
		Back	- S 80° 07' 46.07" E		
		Ahead	- N 73° 38' 46.06" E		
		Chord Bear	- N 86° 45' 30.00" E		

Curve Data

13	Curve WBL103	P.I. Station	1170+88.99 N	282,719.11 E	3,455,334.57
		Delta	2° 28' 49.48" (RT)		
		Degree	0° 28' 32.88"		
		Tangent	260.70		
		Length	521.31		
		Radius	12,042.00		
		External	2.82		
		Long Chord	521.27		
		Mid.Ord.	2.82		
		P.C. Station	1168+28.29 N	282,645.70 E	3,455,084.42
		P.T. Station	1173+49.60 N	282,781.62 E	3,455,587.66
		C.C.	N 271,090.91 E	3,458,475.07	
		Back	- N 73° 38' 46.06" E		
		Ahead	- N 76° 07' 35.55" E		
		Chord Bear	- N 74° 53' 10.80" E		

Course from PT WBL103 to PC WBL104 N 76° 07' 35.55" E Dist 1748.96

CONSTRUCTION BASELINE ROUTE 3 WESTBOUND

Curve Data

14	Curve WBL104	P.I. Station	1200+90.60 N	283,438.85 E	3,458,248.69
		Delta	9° 25' 07.96" (RT)		
		Degree	0° 28' 32.88"		
		Tangent	992.03		
		Length	1,979.59		
		Radius	12,042.00		
		External	40.79		
		Long Chord	1,977.36		
		Mid.Ord.	40.66		
		P.C. Station	1190+98.57 N	283,200.98 E	3,457,285.60
		P.T. Station	1210+78.16 N	283,515.90 E	3,459,237.73
		C.C.	N 271,510.27 E	3,460,173.01	
		Back	- N 76° 07' 35.55" E		
		Ahead	- N 85° 32' 43.51" E		
		Chord Bear	- N 80° 50' 09.53" E		

Curve Data

15	Curve WBL105	P.I. Station	1215+57.65 N	283,553.14 E	3,459,715.77
		Delta	41° 00' 49.53" (RT)		
		Degree	4° 28' 09.30"		
		Tangent	479.50		
		Length	917.69		
		Radius	1,282.00		
		External	867.4		
		Long Chord	898.22		
		Mid.Ord.	81.24		
		P.C. Station	1210+78.16 N	283,515.90 E	3,459,237.73
		P.T. Station	1219+95.84 N	283,267.52 E	3,460,100.92
		C.C.	N 282,237.77 E	3,459,337.30	
		Back	- N 85° 32' 43.51" E		
		Ahead	- S 53° 28' 26.97" E		
		Chord Bear	- S 73° 56' 51.73" E		

Course from PT WBL105 to PC WBL106 S 53° 28' 26.97" E Dist 6,260.40

Curve Data

15	Curve WBL106	P.I. Station	1284+14.60 N	279,444.17 E	3,465,256.74
		Delta	3° 10' 58.06" (LT)		
		Degree	1° 00' 18.68"		
		Tangent	158.36		
		Length	316.64		
		Radius	5,700.00		
		External	2.20		
		Long Chord	316.60		
		Mid.Ord.	2.20		
		P.C. Station	1282+56.24 N	279,538.50 E	3,465,129.54
		P.T. Station	1285+72.88 N	279,357.06 E	3,465,388.98
		C.C.	N 284,116.98 E	3,468,524.76	
		Back	- S 53° 28' 26.97" E		
		Ahead	- S 56° 37' 25.03" E		
		Chord Bear	- S 55° 01' 56.00" E		

Course from PT WBL106 to PC WBL107 S 56° 37' 25.03" E Dist 3,458.44

Curve Data

16	Curve WBL107	P.I. Station	1321+11.59 N	277,410.28 E	3,468,344.07
		Delta	0° 23' 59.76" (RT)		
		Degree	0° 14' 56.80"		
		Tangent	80.27		
		Length	160.54		
		Radius	23,000.00		
		External	0.14		
		Long Chord	160.54		
		Mid.Ord.	0.14		
		P.C. Station	1320+31.32 N	277,454.44 E	3,468,277.04
		P.T. Station	1321+91.86 N	277,365.65 E	3,468,410.79
		C.C.	N 258,247.72 E	3,455,623.90	
		Back	- S 56° 37' 25.03" E		
		Ahead	- S 56° 13' 25.26" E		
		Chord Bear	- S 56° 25' 25.15" E		

Course from PT WBL107 to PC WBL108 S 56° 13' 25.26" E Dist 913.21

CONSTRUCTION BASELINE ROUTE 3 WESTBOUND

Curve Data

17	Curve WBL108	P.I. Station	1331+48.66 N	276,833.72 E	3,469,206.10
		Delta	0° 13' 01.91" (RT)		
		Degree	0° 14' 56.80"		
		Tangent	43.59		
		Length	87.19		
		Radius	23,000.00		
		External	0.04		
		Long Chord	87.19		
		Mid.Ord.	0.04		
		P.C. Station	1331+05.07 N	276,857.95 E	3,469,169.87
		P.T. Station	1331+92.26 N	276,809.34 E	3,469,242.25
		C.C.	N 257,740.02 E	3,456,382.97	
		Back	- S 56° 13' 25.26" E		
		Ahead	- S 56° 00' 23.36" E		
		Chord Bear	- S 56° 06' 54.31" E		

Course from PT WBL108 to PC WBL109 S 56° 00' 23.36" E Dist 1,616.17

Curve Data

18	Curve WBL109	P.I. Station	1348+91.67 N	275,859.20 E	3,470,651.23
		Delta	1° 54' 27.56" (LT)		
		Degree	1° 08' 45.30"		
		Tangent	83.24		
		Length	166.47		
		Radius	5,000.00		
		External	0.69		
		Long Chord	166.47		
		Mid.Ord.	0.69		
		P.C. Station	1348+08.43 N	275,905.74 E	3,470,582.21
		P.T. Station	1349+74.90 N	275,814.98 E	3,470,721.76
		C.C.	N 280,051.25 E	3,473,377.71	
		Back	- S 56° 00' 23.36" E		
		Ahead	- S 57° 54' 50.92" E		
		Chord Bear	- S 56° 57' 37.14" E		

Course from PT WBL109 to PC WBL110 S 57° 54' 50.92" E Dist 241.46

Curve Data

19	Curve WBL110	P.I. Station	1352+67.16 N	275,659.74 E	3,470,969.37
		Delta	1° 47' 57.38" (RT)		
		Degree	1° 08' 45.30"		
		Tangent	78.51		
		Length	157.02		
		Radius	5,000.00		
		External	0.62		
		Long Chord	157.01		
		Mid.Ord.	0.62		
		P.C. Station	1351+88.64 N	275,701.45 E	3,470,902.85
		P.T. Station	1353+45.66 N	275,615.97 E	3,471,034.55
		C.C.	N 271,465.18 E	3,468,246.91	
		Back	- S 57° 54' 50.92" E		
		Ahead	- S 56° 06' 53.53" E		
		Chord Bear	- S 57° 00' 52.22" E		

Course from PT WBL110 to PC WBL111 S 56° 06' 53.53" E Dist 1,080.50

LEGEND:

(X) DENOTES CURVE DATA REFERENCE NUMBER



PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

CONSTRUCTION ALIGNMENT DATA SHEET

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	1G(8)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

CONSTRUCTION BASELINE ROUTE 3 WESTBOUND

Curve Data

26	Curve WBL111			
	P.I. Station	1368+59.91 N	274,771.73 E	3,472,291.62
	Delta	- 12° 24' 52.19" (LT)		
	Degree	- 1° 26' 12.14"		
	Tangent	- 433.75		
	Length	- 864.10		
	Radius	- 3,988.00		
	External	- 23.52		
	Long Chord	- 862.41		
	Mid. Ord.	- 23.38		
	P.C. Station	1364+26.16 N	275,013.55 E	3,471,931.54
	P.T. Station	1372+90.26 N	274,612.97 E	3,472,695.27
	C.C.	N 278,324.22 E		3,474,154.97
	Back	- S 56° 06' 53.53" E		
	Ahead	- S 68° 31' 45.72" E		
	Chord Bear	- S 62° 19' 19.63" E		

Course from PT WBL111 to P1101 S 68° 31' 45.72" E Dist 87.41

Point P1101 N 274,580.97 E 3,472,776.61 Sta 1373+77.67

Ending chain WBL description

CONSTRUCTION BASELINE ROUTE 600 (YORK RD.) (1)

Chain RTE600_1 contains:
P5000 CUR RTE600_1-H P5001

Beginning chain RTE600_1 description

Point P5000 N 283,057.20 E 3,451,563.00 Sta 10+00.00

Course from P5000 to PC RTE600_1-H N 9° 52' 13.93" E Dist 28.84

Curve Data

20	Curve RTE600_1-H			
	P.I. Station	12+02.14 N	283,256.35 E	3,451,597.65
	Delta	- 69° 14' 47.35" (RT)		
	Degree	- 22° 49' 37.21"		
	Tangent	- 173.30		
	Length	- 303.35		
	Radius	- 251.00		
	External	- 54.02		
	Long Chord	- 285.23		
	Mid. Ord.	- 44.45		
	P.C. Station	10+28.84 N	283,085.61 E	3,451,567.94
	P.T. Station	13+32.19 N	283,289.07 E	3,451,767.84
	C.C.	N 283,042.58 E		3,451,815.23
	Back	- N 9° 52' 13.93" E		
	Ahead	- N 79° 07' 01.28" E		
	Chord Bear	- N 44° 29' 37.61" E		

Course from PT RTE600_1-H to P5001 N 79° 07' 01.28" E Dist 106.98

Point P5001 N 283,309.27 E 3,451,872.90 Sta 14+39.77

Ending chain RTE600_1 description

Chain RTE600_2 contains:

CONSTRUCTION BASELINE ROUTE 663 (STEVENSURG RD.) NORTH

Chain RTE663_NB contains:
P5100 P5101

Beginning chain RTE663_NB description

Point P5100 N 282,824.40 E 3,452,900.95 Sta 10+00.00

Course from P5100 to P5101 N 6° 26' 42.31" E Dist 248.39

Point P5101 N 283,071.22 E 3,452,928.83 Sta 12+48.39

Ending chain RTE663_NB description

CONSTRUCTION BASELINE ROUTE 663 (STEVENSURG RD.) SOUTH

Chain RTE663_SB contains:
P5200 P5201

Beginning chain RTE663_SB description

Point P5200 N 282,781.83 E 3,452,900.62 Sta 10+00.00

Course from P5200 to P5201 S 5° 09' 36.29" W Dist 245.50

Point P5201 N 282,537.32 E 3,452,878.54 Sta 12+45.50

Ending chain RTE663_SB description

CONSTRUCTION BASELINE ROUTE 600 (YORK RD.) (2)

P5300 CUR RTE600_2-1 P5301

Beginning chain RTE600_2 description

Point P5300 N 282,822.47 E 3,455,753.09 Sta 10+00.00

Course from P5300 to PC RTE600_2-1 N 13° 52' 24.46" W Dist 42.12

Curve Data

21	Curve RTE600_2-1			
	P.I. Station	11+08.81 N	282,928.10 E	3,455,727.00
	Delta	- 63° 23' 28.79" (LT)		
	Degree	- 53° 03' 05.93"		
	Tangent	- 66.69		
	Length	- 119.49		
	Radius	- 108.00		
	External	- 18.93		
	Long Chord	- 113.49		
	Mid. Ord.	- 16.11		
	P.C. Station	10+42.12 N	282,863.36 E	3,455,742.99
	P.T. Station	11+61.61 N	282,942.81 E	3,455,661.95
	C.C.	N 282,837.46 E		3,455,638.14
	Back	- N 13° 52' 24.46" W		
	Ahead	- N 77° 15' 53.24" W		
	Chord Bear	- N 45° 34' 08.85" W		

Course from PT RTE600_2-1 to P5301 N 77° 15' 53.24" W Dist 179.58

Point P5301 N 282,982.39 E 3,455,486.78 Sta 13+41.9

Ending chain RTE600_2 description

CONSTRUCTION BASELINE ROUTE 739 (CLAY HILL RD.)

Chain RTE739 contains:
P5400 CUR RTE739-1 CUR RTE739-2 P5401

Beginning chain RTE739 description

Point P5400 N 283,435.57 E 3,459,794.24 Sta 10+00.00

Course from P5400 to PC RTE739-1 N 20° 52' 52.51" E Dist 34.95

Curve Data

22	Curve RTE739-1			
	P.I. Station	11+56.80 N	283,582.07 E	3,459,850.13
	Delta	- 63° 44' 06.76" (RT)		
	Degree	- 29° 13' 57.15"		
	Tangent	- 121.85		
	Length	- 218.03		
	Radius	- 196.00		
	External	- 34.79		
	Long Chord	- 206.96		
	Mid. Ord.	- 29.54		
	P.C. Station	10+34.95 N	283,468.23 E	3,459,806.70
	P.T. Station	12+52.98 N	283,593.50 E	3,459,971.44
	C.C.	N 283,398.37 E		3,459,989.83
	Back	- N 20° 52' 52.51" E		
	Ahead	- N 84° 36' 59.27" E		
	Chord Bear	- N 52° 44' 55.89" E		

Course from PT RTE739-1 to PC RTE739-2 N 84° 36' 59.27" E Dist 60.51

Curve Data

23	Curve RTE739-2			
	P.I. Station	13+75.83 N	283,605.03 E	3,460,093.74
	Delta	- 75° 50' 49.49" (LT)		
	Degree	- 71° 37' 11.01"		
	Tangent	- 62.33		
	Length	- 105.90		
	Radius	- 80.00		
	External	- 21.42		
	Long Chord	- 98.34		
	Mid. Ord.	- 16.89		
	P.C. Station	13+13.49 N	283,599.18 E	3,460,031.68
	P.T. Station	14+19.40 N	283,666.63 E	3,460,103.24
	C.C.	N 283,678.83 E		3,460,024.18
	Back	- N 84° 36' 59.27" E		
	Ahead	- N 8° 46' 09.77" E		
	Chord Bear	- N 46° 41' 34.52" E		

Course from PT RTE739-2 to P5401 N 8° 46' 09.77" E Dist 78.42

Point P5401 N 283,744.13 E 3,460,115.20 Sta 14+97.81

Ending chain RTE739 description

LEGEND:

(X) DENOTES CURVE DATA REFERENCE NUMBER



PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

CONSTRUCTION ALIGNMENT DATA SHEET

REVISED	STATE		STATE		SHEET NO.
	STATE	ROUTE	PROJECT		
	VA.	3	0003-023-107, PE-101, RW-201, C-501		1G(9)

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

CONSTRUCTION BASELINE ROUTE 669 (CARRICO MILLS RD.)

Chain RTE669(2) contains:

CUR RTE669(2)-1

Beginning chain RTE669(2) description

Curve Data
—————>

(24)

Curve RTE669(2)-1				
P.I. Station	12+95.44 N	279,305.287110 E	3,465,934.316947	
Delta	- 0° 34' 29.213363" (LT)			
Degree	- 0° 05' 50.94917"			
Tangent	- 295.439856			
Length	- 590.874756			
Radius	- 58,900.000000			
External	- 0.740952			
Long Chord	- 590.872278			
Mid. Ord.	- 0.740943			
P.C. Station	10+00.00 N	279,010.474821 E	3,465,915.070586	
P.T. Station	15+90.87 N	279,600.277638 E	3,465,950.604883	
C.C.	N 282.847.501776 E	3,407,140.84587		
Back	- N 3° 44' 06.595697" E			
Ahead	- N 3° 09' 37.382334" E			
Chord Bear	- N 3° 26' 51.989016" E			

Ending chain RTE669(2) description

CONSTRUCTION BASELINE ROUTE 750 (ELLIS RD.)

Chain RTE750 contains:
P5600 CUR RTE750-1 P5601

Beginning chain RTE750 description

Point P5600 N 276,193.21 E 3,470,155.92 Sta 10+00.00

Course from P5600 to PC RTE750-1 N 33° 59' 36.64" E Dist 291.4

—————>

(25)

Curve RTE750-1				
P.I. Station	10+86.80 N	276,265.18 E	3,470,204.45	
Delta	- 25° 52' 35.50" (LT)			
Degree	- 22° 49' 37.21"			
Tangent	- 57.66			
Length	- 113.36			
Radius	- 251.00			
External	- 6.54			
Long Chord	- 112.40			
Mid. Ord.	- 6.37			
P.C. Station	10+29.14 N	276,217.37 E	3,470,172.21	
P.T. Station	11+42.50 N	276,322.26 E	3,470,212.59	
C.C.	N 276,357.70 E	3,469,964.11		
Back	- N 33° 59' 36.64" E			
Ahead	- N 8° 07' 01.15" E			
Chord Bear	- N 2° 03' 18.90" E			

Course from PT RTE750-1 to P5601 N 8° 07' 01.15" E Dist 359.20

Point P5601 N 276,677.86 E 3,470,263.31 Sta 15+01.69

Ending chain RTE750 description

LEGEND:

(X) DENOTES CURVE DATA REFERENCE NUMBER



PROJECT
0003-023-107

SHEET NO.
1G(9)

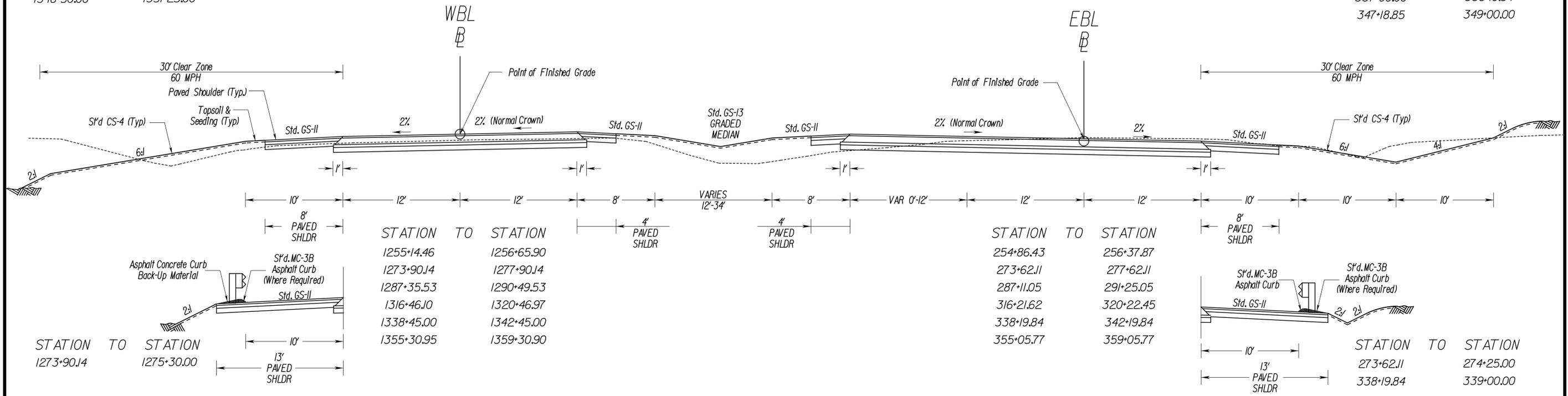
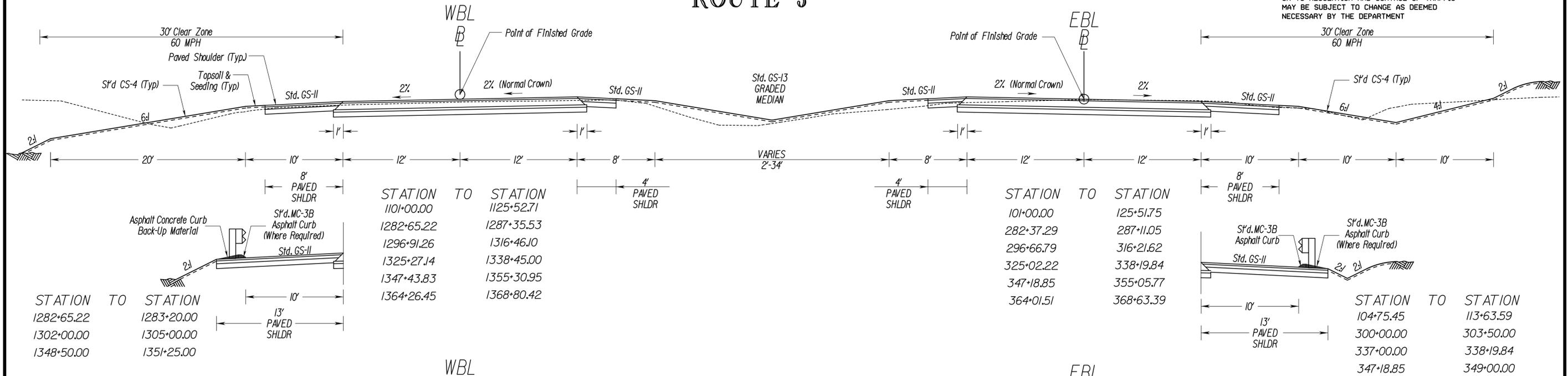
PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	2A

TYPICAL SECTIONS

ROUTE 3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



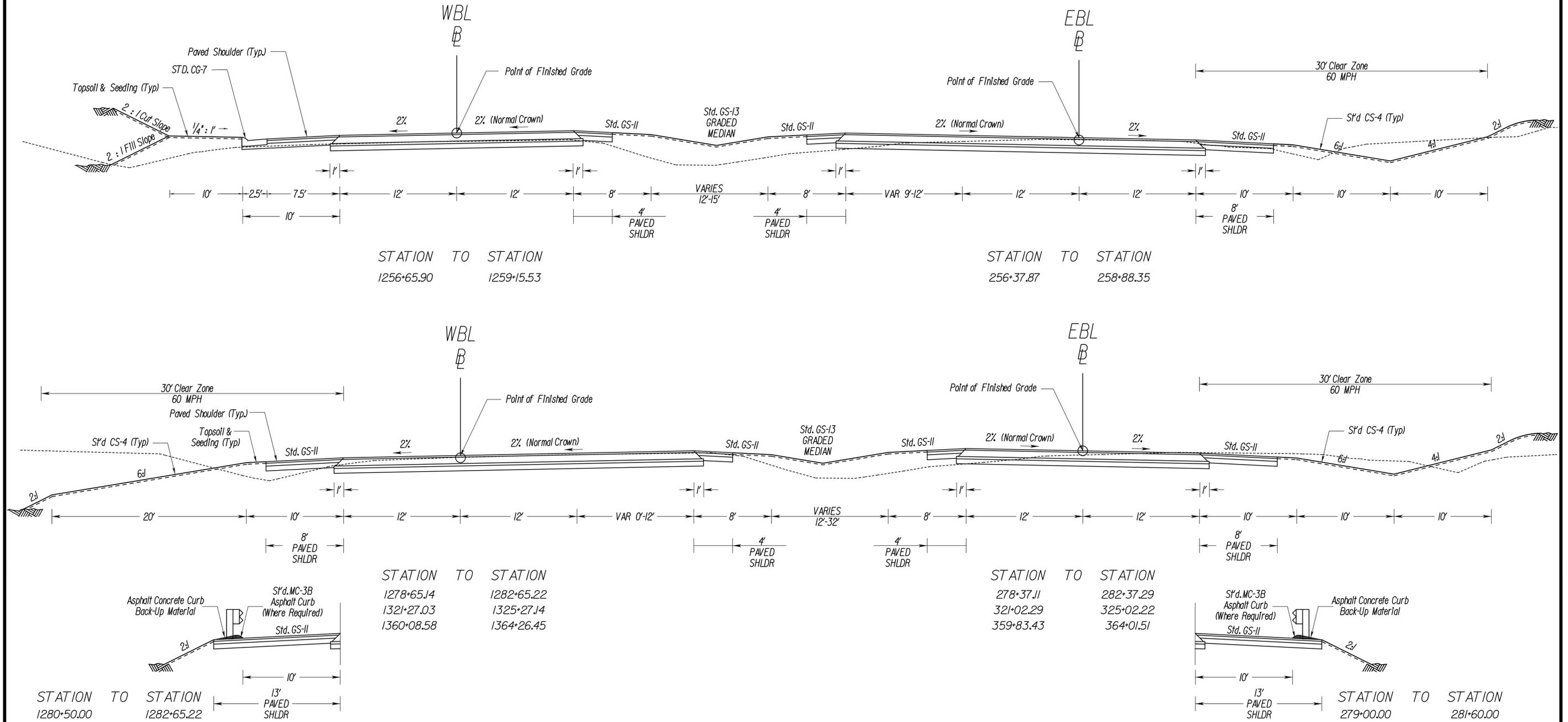
Not To Scale	PROJECT 0003-023-107	SHEET NO. 2A
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PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	2B

TYPICAL SECTIONS ROUTE 3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Not To Scale	PROJECT 0003-023-107	SHEET NO. 2B
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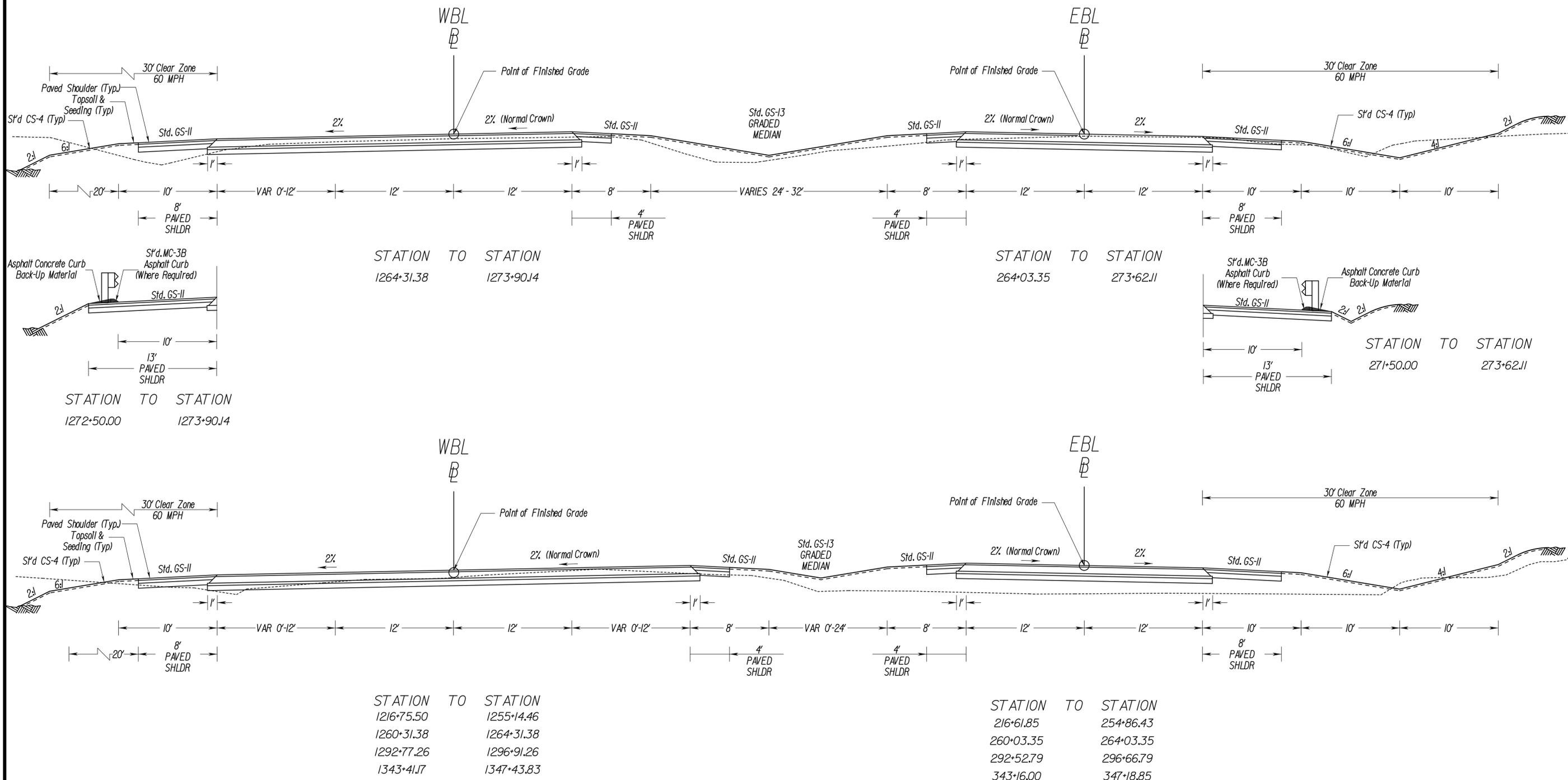
PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	2C

TYPICAL SECTIONS

ROUTE 3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Not To Scale	PROJECT 0003-023-107	SHEET NO. 2C
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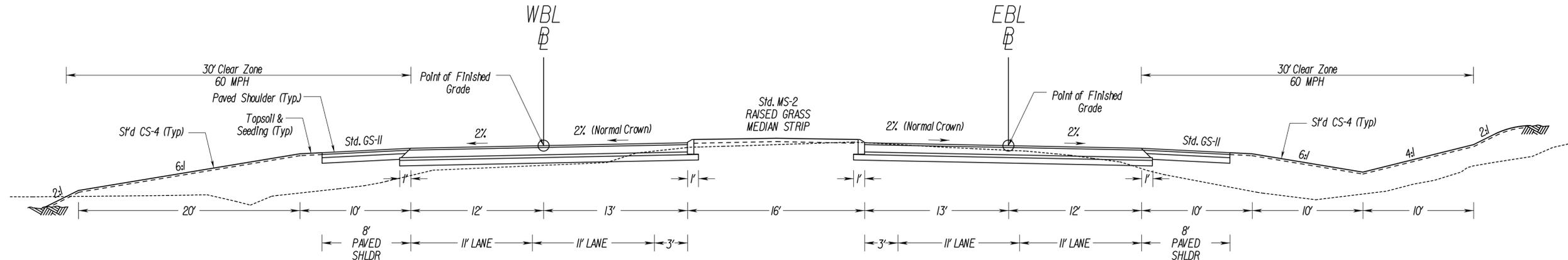
PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	2D

TYPICAL SECTIONS

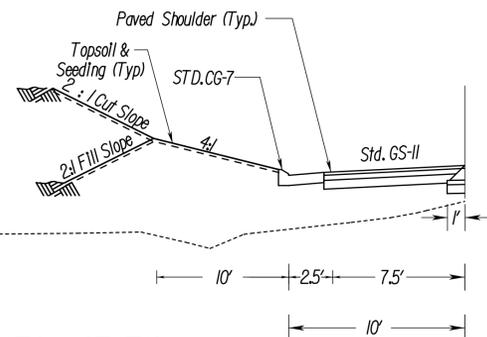
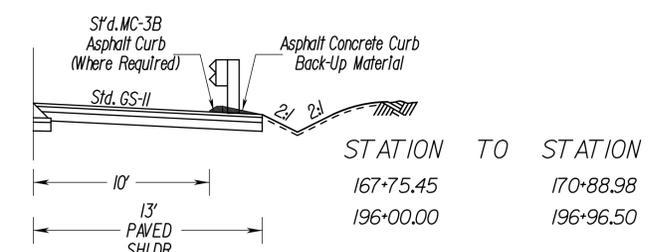
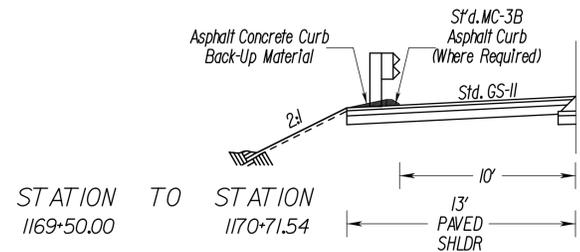
ROUTE 3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



STATION TO STATION	STATION TO STATION
1125+52.71	1128+16.54
1137+25.48	1141+70.46
1150+65.46	1153+93.69
1158+69.44	1170+71.54
1179+57.50	1180+30.03
1189+05.03	1196+82.07
1210+41.93	1211+77.26

STATION TO STATION	STATION TO STATION
125+51.75	128+15.60
132+95.54	141+47.56
150+64.53	153+92.75
158+68.50	170+88.98
179+73.97	180+46.50
189+21.50	196+96.50
210+51.62	211+83.22



STATION TO STATION
1160+78.55 1161+92.31



Not To Scale	PROJECT 0003-023-107	SHEET NO. 2D
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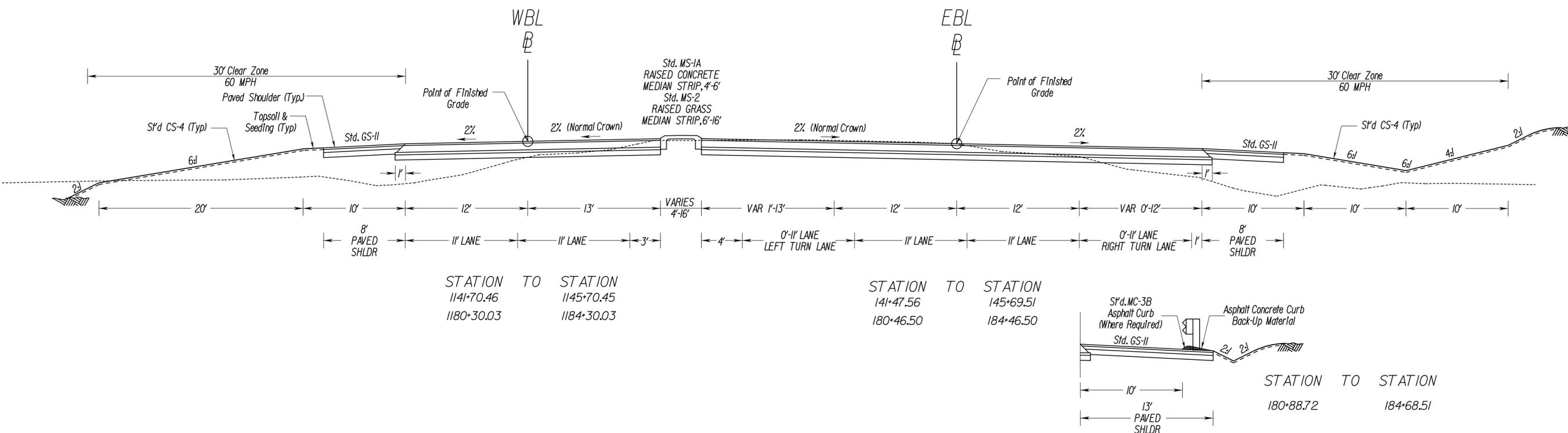
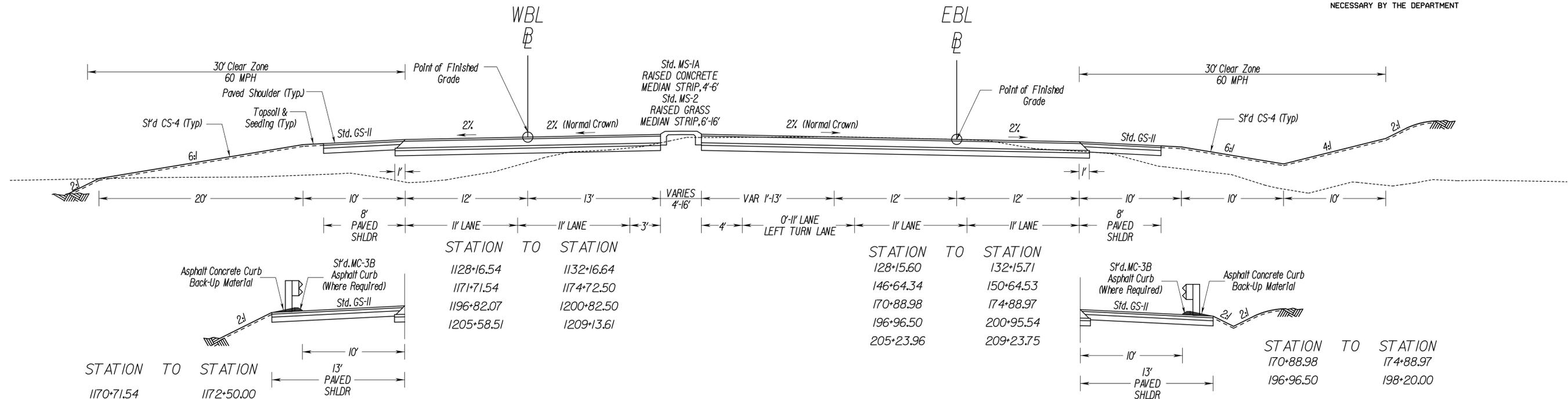
PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	2E

TYPICAL SECTIONS

ROUTE 3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



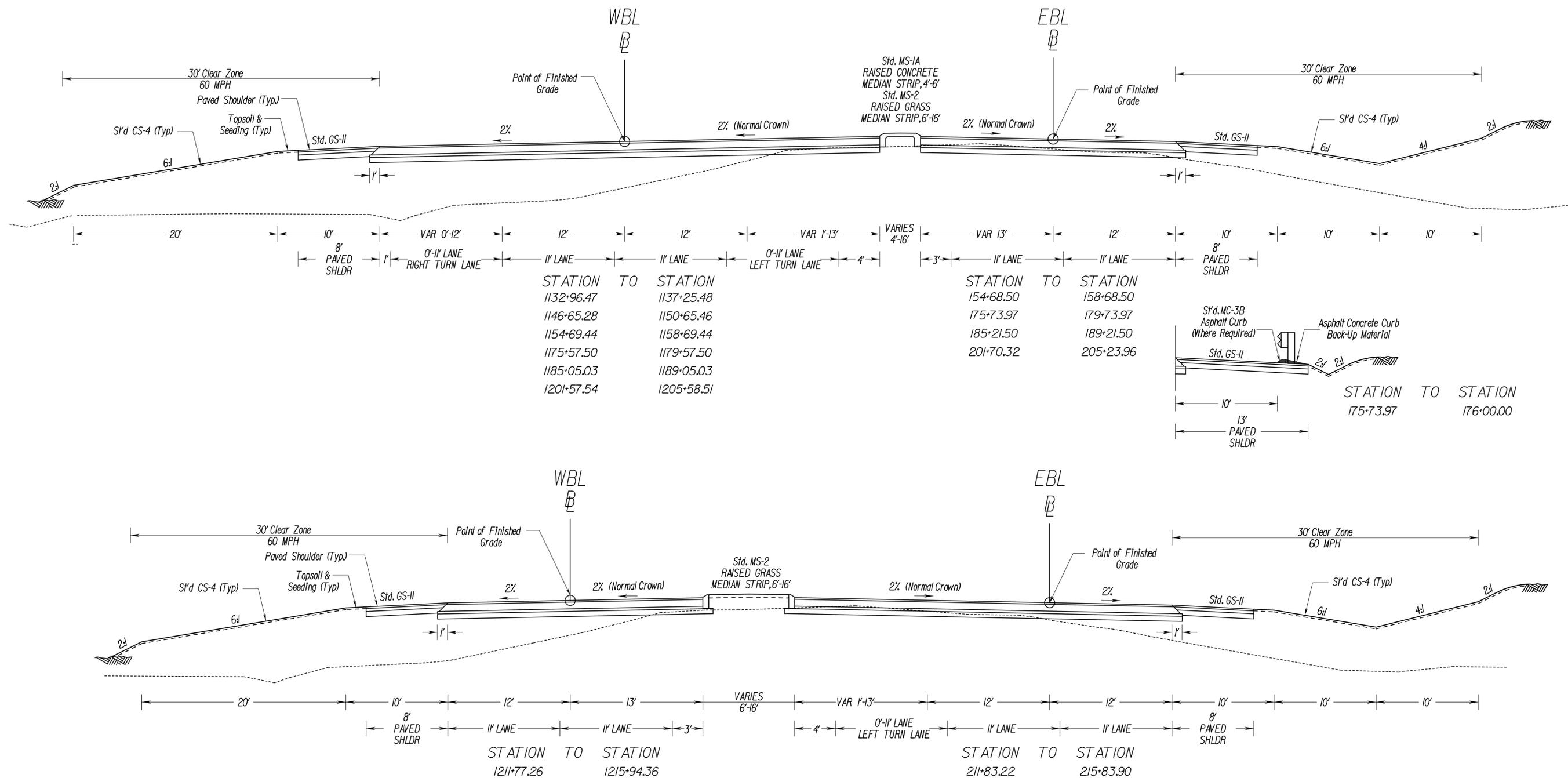
PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	2F

TYPICAL SECTIONS

ROUTE 3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



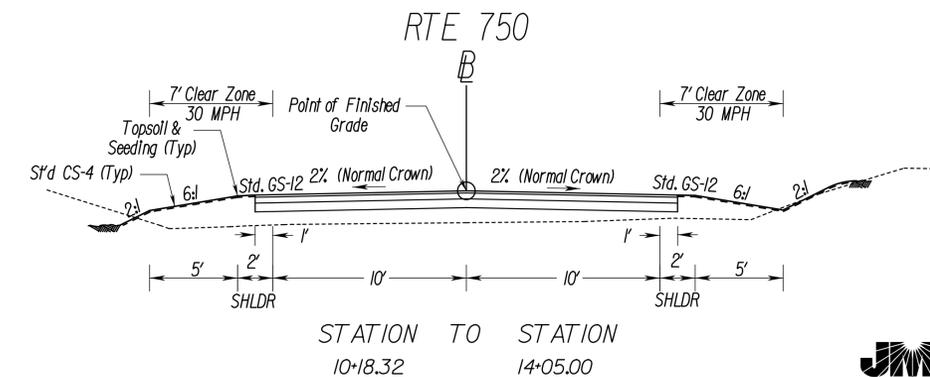
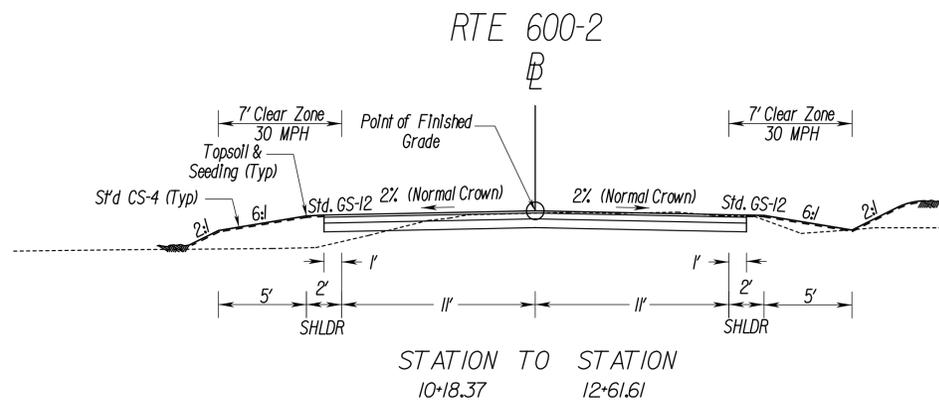
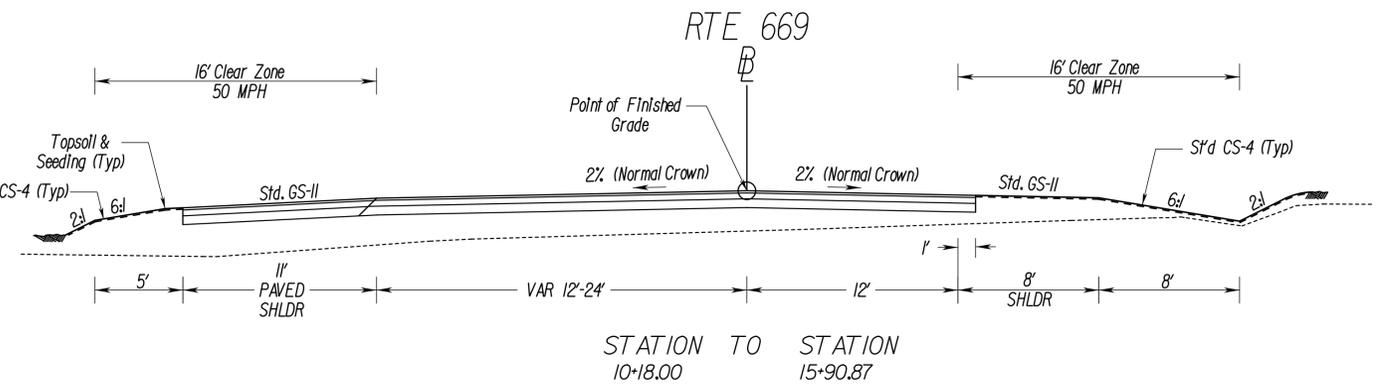
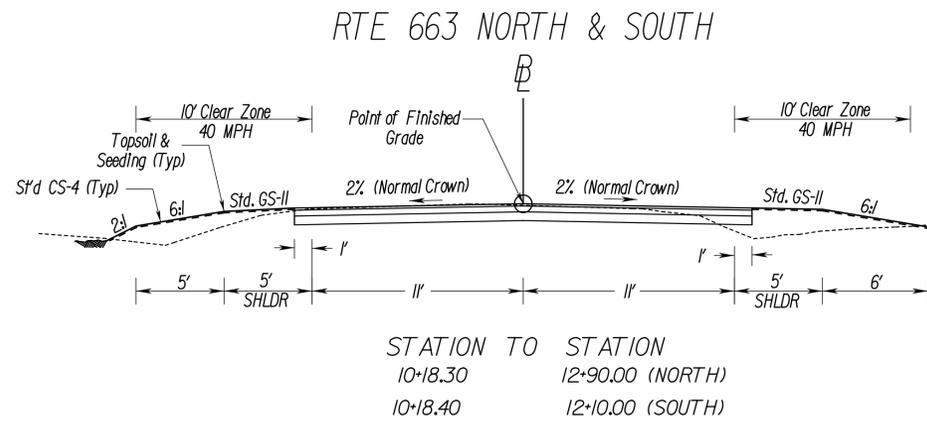
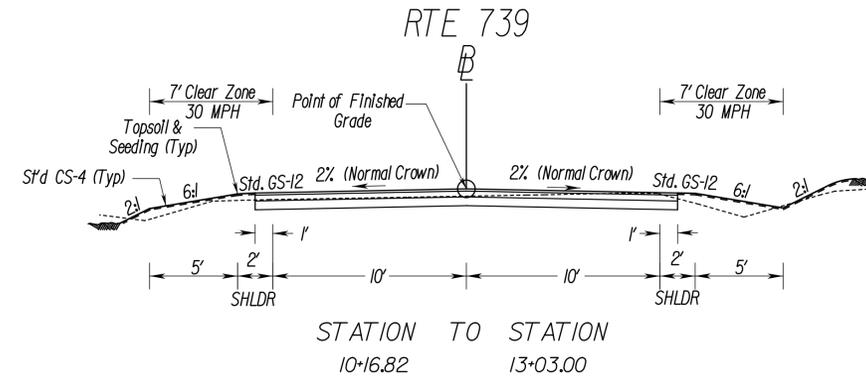
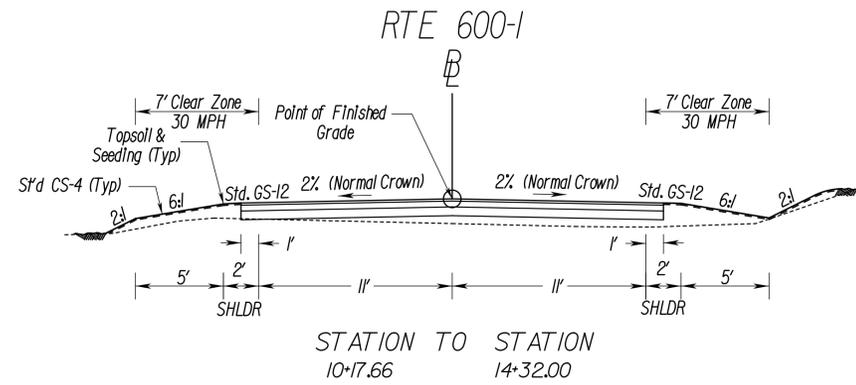
Not To Scale	PROJECT 0003-023-107	SHEET NO. 2F
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PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	26

TYPICAL SECTIONS ROUTE 3 - SIDE STREETS

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Not To Scale

PROJECT
0003-023-107

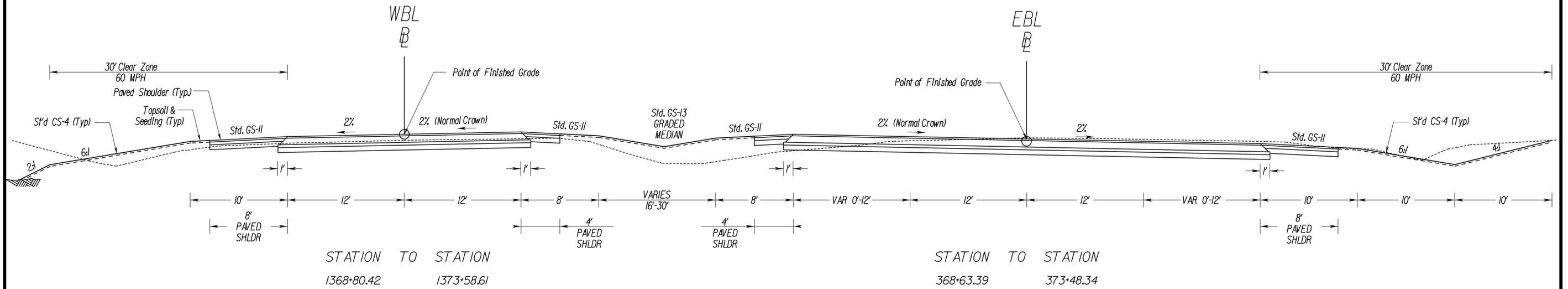
SHEET NO.
26

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	2H

TYPICAL SECTIONS ROUTE 3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



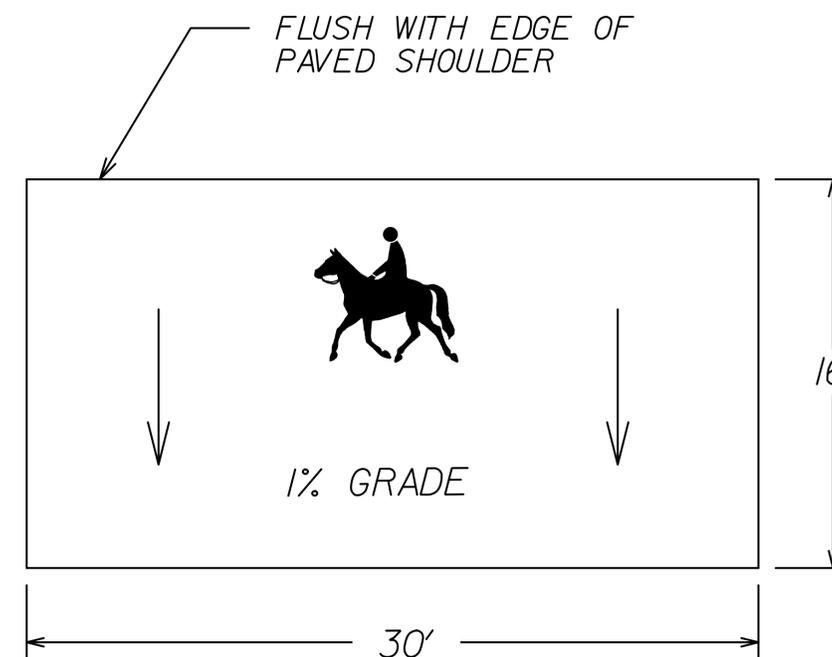
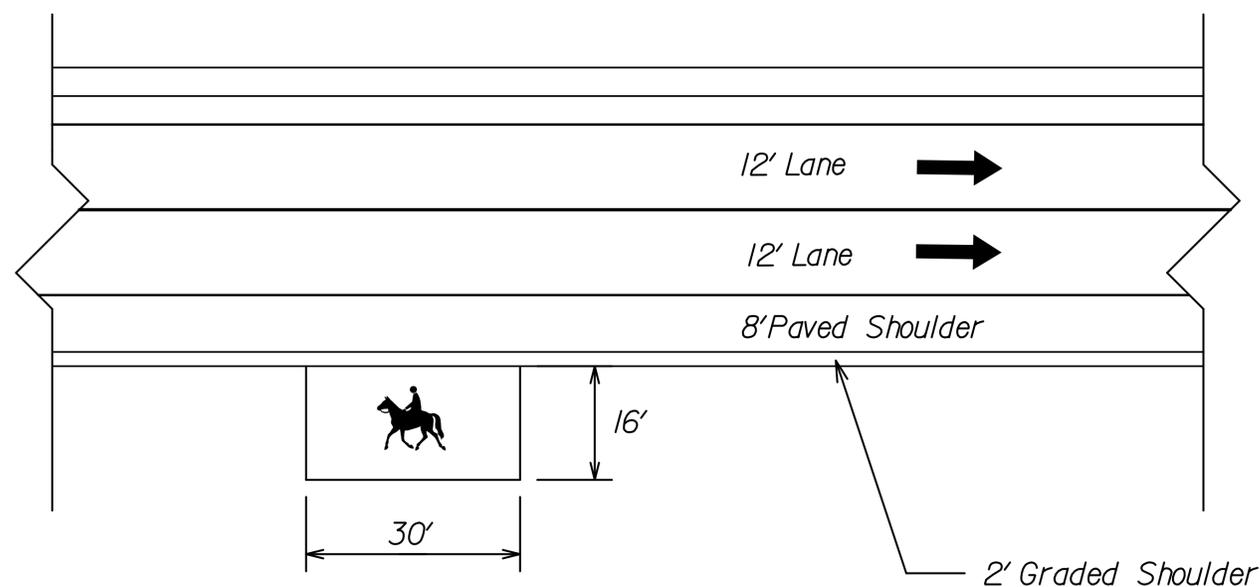
Not To Scale PROJECT 0003-023-107 SHEET NO. 2H

PROJECT MANAGER *Harold Jones (540) 829-7320*
 SURVEYED BY *Michael Mauro, L.S. (540) 829-7551*
 DESIGN SUPERVISED BY
 DESIGNED BY

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	2T

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

EQUINE REFUGE AREA



EQUINE REFUGE AREA IS AN OPEN AREA, GRADED WITH A FLAT SLOPE, ADJACENT TO THE ROADWAY SHOULDER. REFUGE AREA GRADING TO TIE TO SURROUNDING PROPOSED GROUND ELEVATIONS WITH 6:1 SLOPES.



NOT TO SCALE PROJECT 0003-023-107 SHEET NO. 2T

PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	3

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

UTILITY OWNERS

Dominion Virginia Power, (Distribution)
1719 Hydraulic Road
Charlottesville, Va. 22901
Contact: Mr. Dan Bateman, Supervisor Customer Solutions
Office: (434) 972-6734
Cell: (434) 996-5514
Email: daniel.bateman@dom.com

AT&T Communications, Local Network Services (LNS)
7777 Leesburg Pike, Suite 100N
Falls Church, VA 22043
Contact: Ms. Deborah Tullipano, OSP Manager
Office: (703) 251-9977
Mobile: (202) 258-1195
Email: dt2394@att.com

Dominion Virginia Power, (Transmission)
Dominion Technical Solutions, Inc.
701 East Cary Street
Richmond, Va. 23219

Level 3 Communications
1755 Old Meadow Road
McLean, Va. 22102
Contact: Mr. Chris Baker, Culpeper Area Representative
Cell: (540) 222-6598
Email: chrishb.baker@level3.com

Mailing Address:
P.O. Box 26666
Richmond, VA 23261

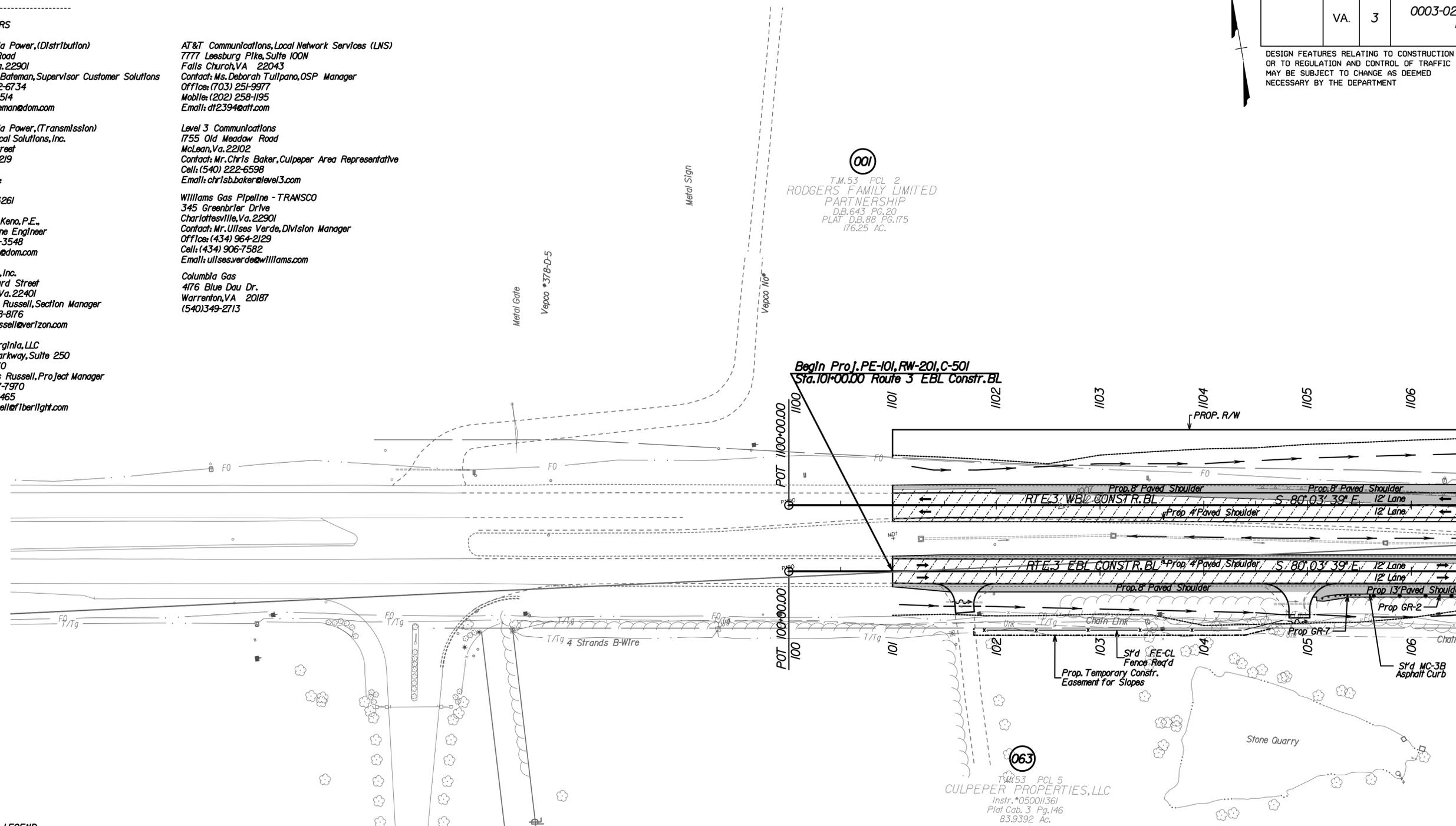
Williams Gas Pipeline - TRANSCO
345 Greenbrier Drive
Charlottesville, Va. 22901
Contact: Mr. Ulises Verde, Division Manager
Office: (434) 964-2129
Cell: (434) 906-7582
Email: ulises.verde@williams.com

Contact: Mr. Kyle Keno, P.E.,
Transmission Line Engineer
Office: (804) 771-3548
Email: kylea.keno@dom.com

Columbia Gas
4176 Blue Dan Dr.
Warrenton, VA 20187
(540) 349-2713

Verizon Virginia, Inc.
901 Prince Edward Street
Fredericksburg, Va. 22401
Contact: Mr. Dave Russell, Section Manager
Office: (540) 368-8176
Email: david.a.russell@verizon.com

FiberLight of Virginia, LLC
950 Herndon Parkway, Suite 250
Herndon, Va. 20170
Contact: Mr. Chris Russell, Project Manager
Office: (703) 787-7970
Cell: (703) 650-8465
Email: chris.russell@fiberlight.com



001
T.M. 53 PCL 2
RODGERS FAMILY LIMITED PARTNERSHIP
D.B. 643 PG. 20
PLAT D.B. 88 PG. 175
176.25 AC.

063
T.M. 53 PCL 5
CULPEPER PROPERTIES, LLC
Instr. #050011361
Plat Cdb. 3 Pg. 146
83.9392 Ac.

Match Line E.B.L. Sta. 106+50 See Sheet No. 4

LEGEND

- S'td Radial CG-7, Combination Curb and Gutter
- S'td CG-7, Combination Curb and Gutter
- Denotes Proposed Full Depth Pavement
- Denotes Proposed Resurfaced Pavement
- Denotes Graded V-Ditch
- Denotes Construction Limits In Cuts
- Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Rte. 3 EBL Profile	3A
Rte. 3 WBL Profile	3A

Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dashed lines denote Temporary Easements.

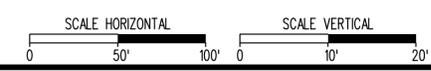
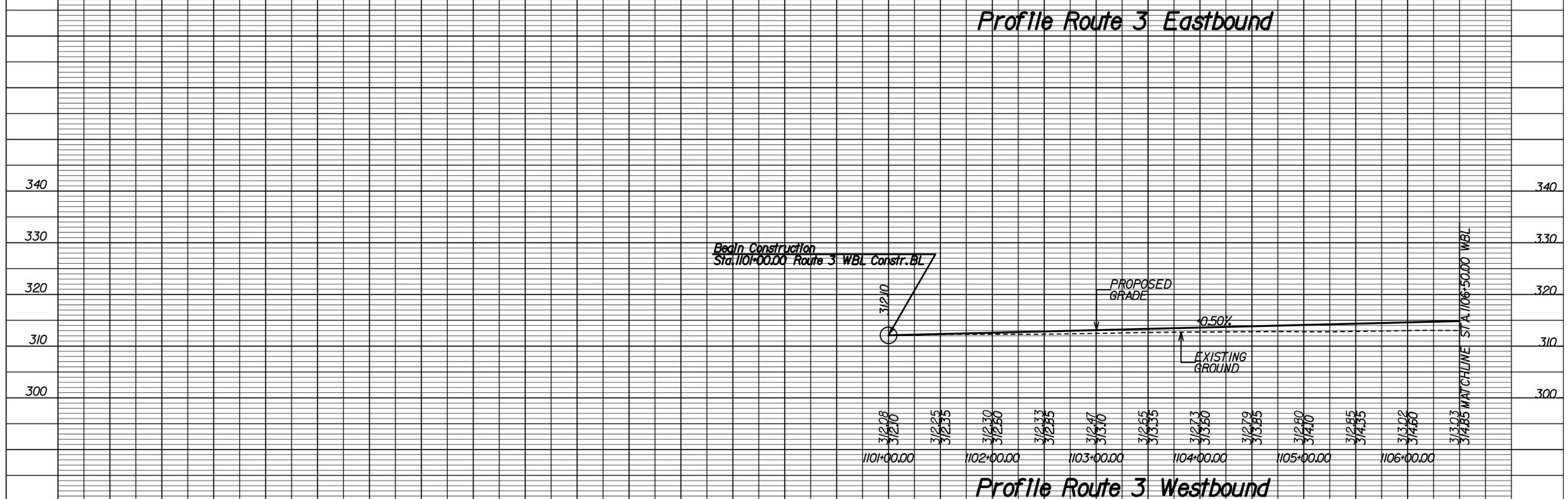
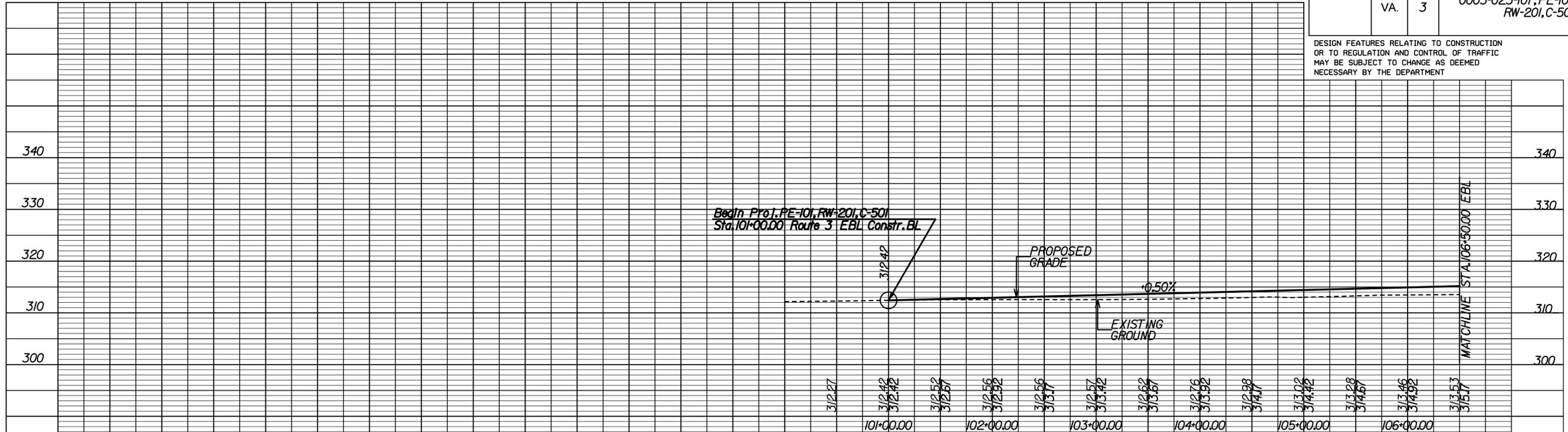


SCALE 0 50' 100'	PROJECT 0003-023-107	SHEET NO. 3
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PROJECT MANAGER: Harold Jones (540) 829-7320
 SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY: _____
 DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	3A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

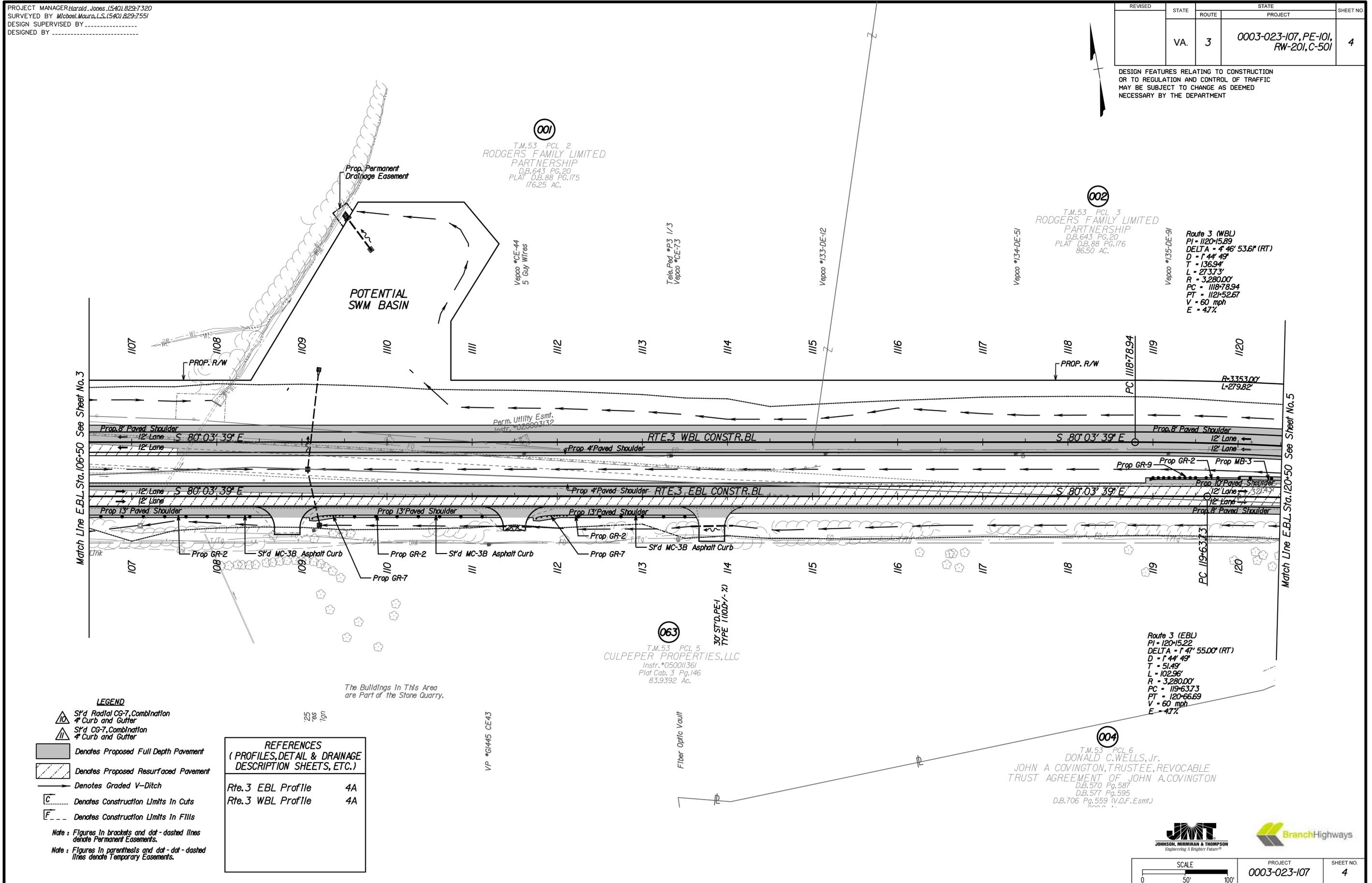


PROJECT: 0003-023-107
 SHEET NO.: 3A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	4

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



001
T.M. 53 PCL 2
RODGERS FAMILY LIMITED PARTNERSHIP
D.B. 643 Pg. 20
PLAT D.B. 88 Pg. 175
176.25 AC.

002
T.M. 53 PCL 3
RODGERS FAMILY LIMITED PARTNERSHIP
D.B. 643 Pg. 20
PLAT D.B. 88 Pg. 176
86.50 AC.

Route 3 (WBL)
PI = 1120+5.89
DELTA = 4' 46" 53.6' (RT)
D = 1' 44" 49"
T = 136.94'
L = 273.73'
R = 3,280.00'
PC = 1118+78.94
PT = 1121+52.67
V = 60 mph
E = 4.7%

063
T.M. 53 PCL 5
CULPEPER PROPERTIES, LLC
Instr. #050011361
Plat Cab. 3 Pg. 146
83.9392 AC.

004
T.M. 53 PCL 6
DONALD C. WELLS, JR.
JOHN A. COVINGTON, TRUSTEE, REVOCABLE TRUST AGREEMENT OF JOHN A. COVINGTON
D.B. 570 Pg. 587
D.B. 571 Pg. 595
D.B. 706 Pg. 559 (V.O.F. Esmt.)

The Buildings In This Area are Part of the Stone Quarry.

LEGEND

- S'd Radial CG-7, Combination # Curb and Gutter
 - S'd CG-7, Combination # Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills
- Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parentheses and dot-dot-dashed lines denote Temporary Easements.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Rte. 3 EBL Profile	4A
Rte. 3 WBL Profile	4A

SCALE: 0 50' 100'

PROJECT: 0003-023-107

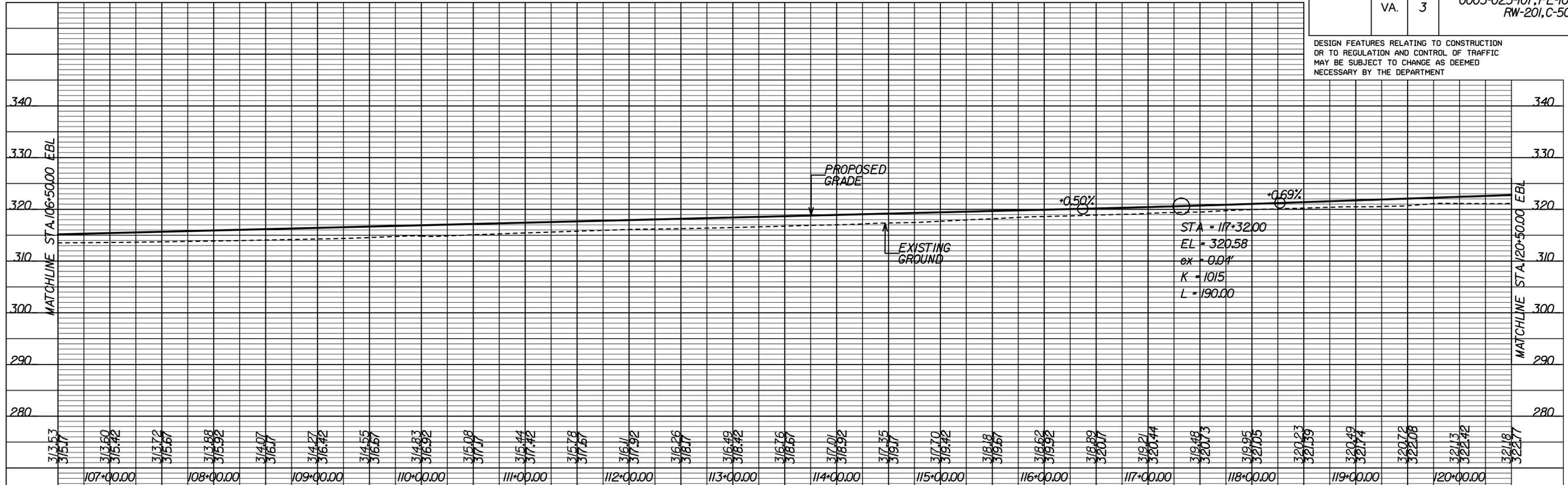
SHEET NO.: 4



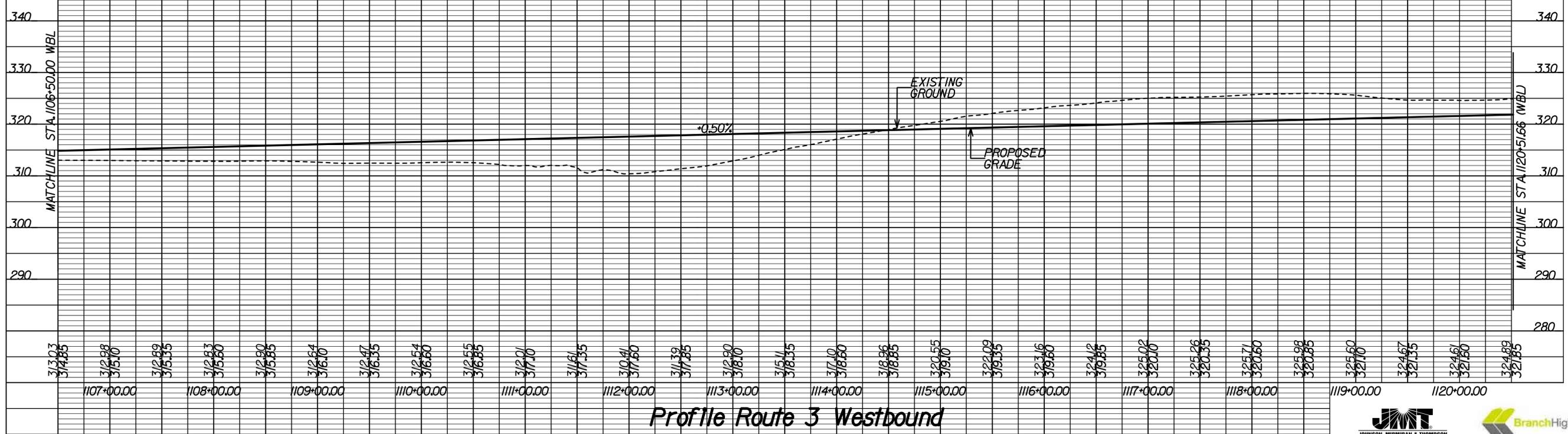
PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	4A

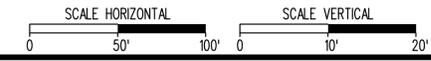
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Profile Route 3 Eastbound



Profile Route 3 Westbound



PROJECT 0003-023-107
SHEET NO. 4A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

FUNCTIONAL CLASSIFICATION	
RTE 600	
Rural Local Road - Rolling	
V (MPH)	30 MPH (+)

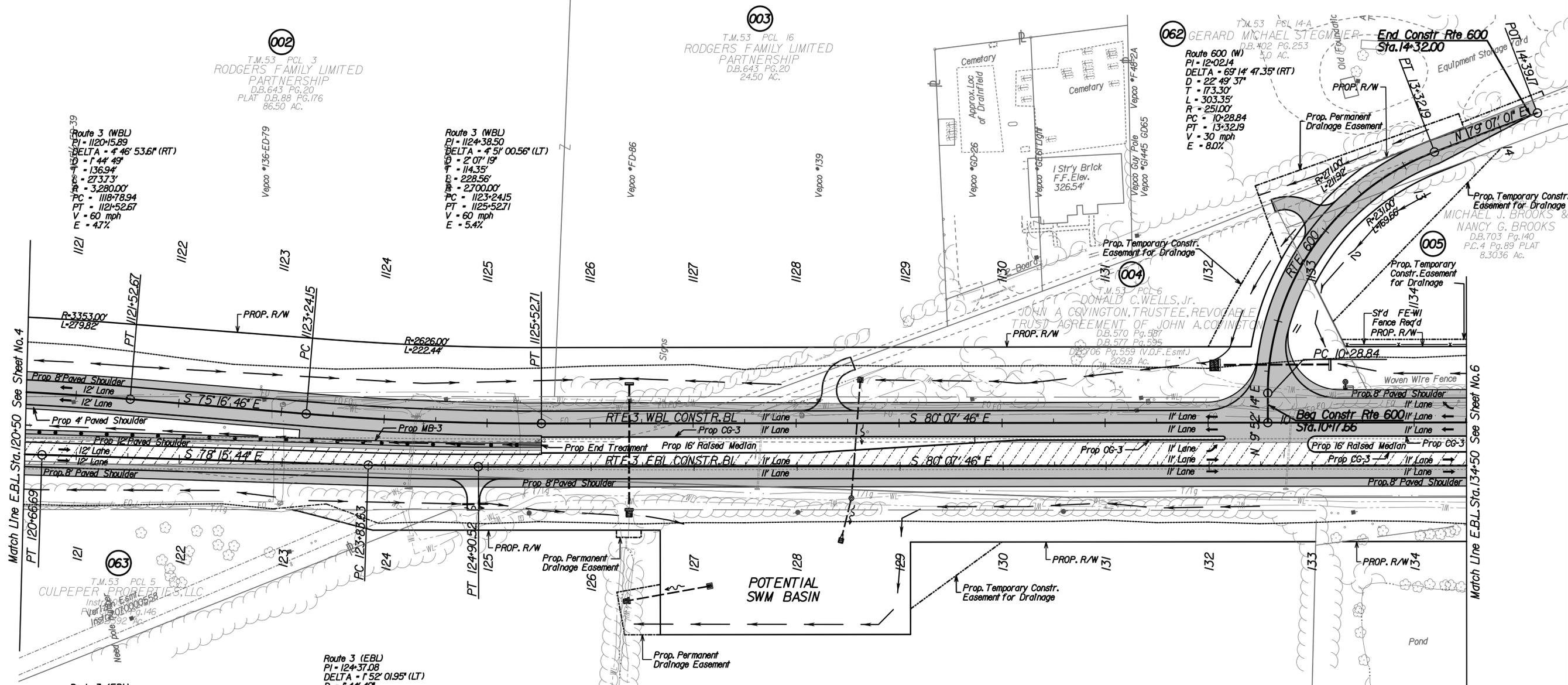
* See plan and profile sheets for horizontal and vertical curve design speeds.

T.M.53 PCL 16A
TRUSTEES OF
ST. STEPHENS BAPTIST CHURCH
D.B. 308 PG. 595
PLAT D.B. 308 PG. 597
0.500 AC.

T.M.53 PCL 15
TRUSTEES OF
ST. STEPHENS BAPTIST CHURCH
D.B. 22 PG. 181
0.25 AC.

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	5

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Route 3 (WBL)
PI = 1120+5.89
DELTA = 4° 46' 53.6" (RT)
D = 1' 44' 49"
T = 136.94'
L = 273.73'
R = 3,280.00'
PC = 1118+78.94
PT = 1121+52.67
V = 60 mph
E = 4.7%

Route 3 (WBL)
PI = 1124+38.50
DELTA = 4° 51' 00.56" (LT)
D = 2' 07' 19"
T = 114.35'
L = 228.56'
R = 2,700.00'
PC = 1123+24.15
PT = 1125+52.71
V = 60 mph
E = 5.4%

Route 600 (W)
PI = 12+02.14
DELTA = 69° 14' 47.35" (RT)
D = 22' 49' 37"
T = 173.30'
L = 303.35'
R = 251.00'
PC = 10+28.84
PT = 13+32.19
V = 30 mph
E = 8.0%

Route 3 (EBL)
PI = 120+5.22
DELTA = 1° 47' 55.00" (RT)
D = 1' 44' 49"
T = 51.49'
L = 102.96'
R = 3,280.00'
PC = 119+63.73
PT = 120+66.69
V = 60 mph
E = 4.7%

Route 3 (EBL)
PI = 124+37.08
DELTA = 1° 52' 01.95" (LT)
D = 1' 44' 49"
T = 53.45'
L = 106.89'
R = 3,280.00'
PC = 123+83.63
PT = 124+90.52
V = 60 mph
E = 4.7%

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Rte.3 EBL Profile	5A
Rte.3 WBL Profile	5A
Rte.600 Profile	5B

LEGEND

- S'd Radial CG-7, Combination # Curb and Gutter
- S'd CG-7, Combination # Curb and Gutter
- Denotes Proposed Full Depth Pavement
- Denotes Proposed Resurfaced Pavement
- Denotes Graded V-Ditch
- Denotes Construction Limits In Cuts
- Denotes Construction Limits In Fills

Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dashed lines denote Temporary Easements.

SCALE: 0 50' 100'

PROJECT: 0003-023-107

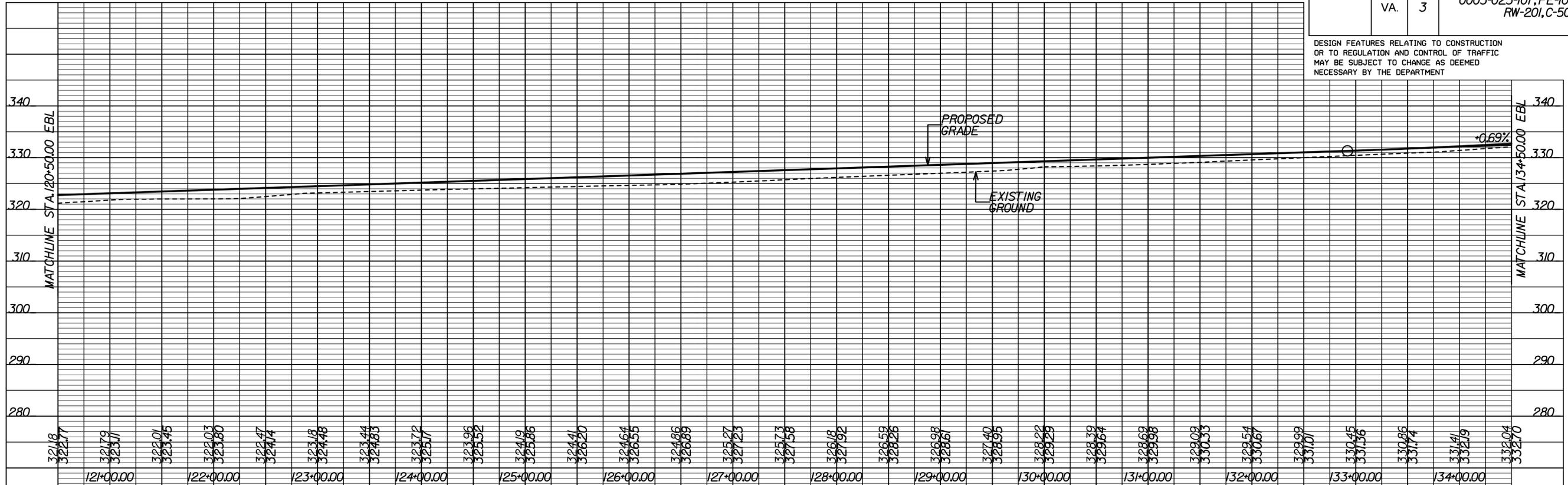
SHEET NO.: 5



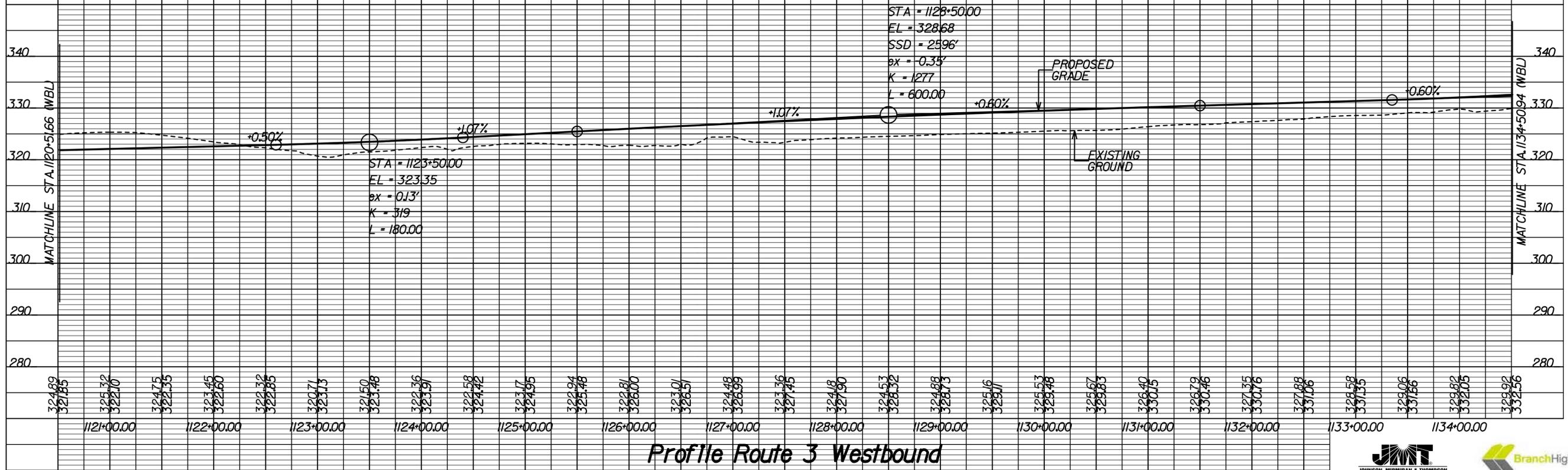
PROJECT MANAGER: Harold Jones (540) 829-7320
 SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY: _____
 DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	5A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



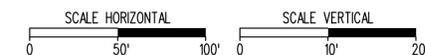
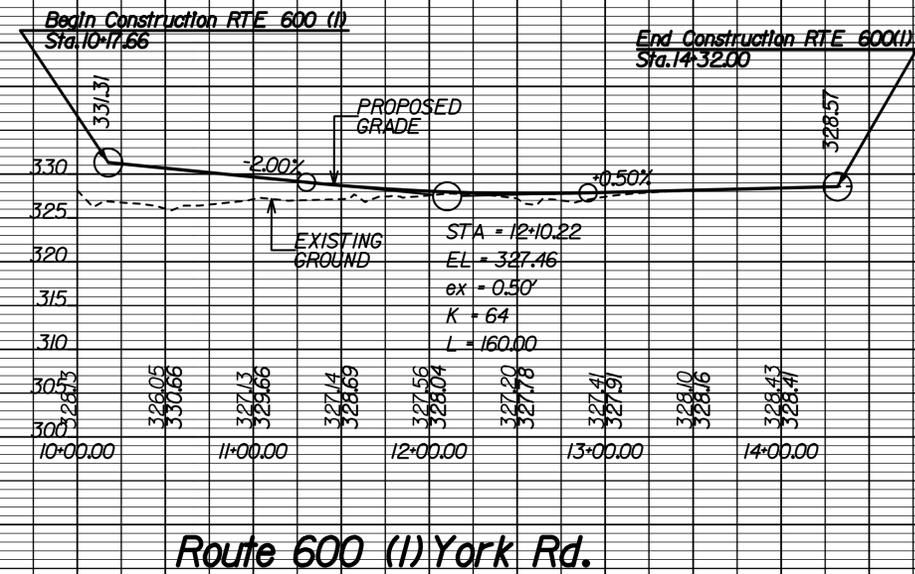
Profile Route 3 Eastbound



PROJECT MANAGER: Harold Jones (540) 829-7320
 SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY: _____
 DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	5B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



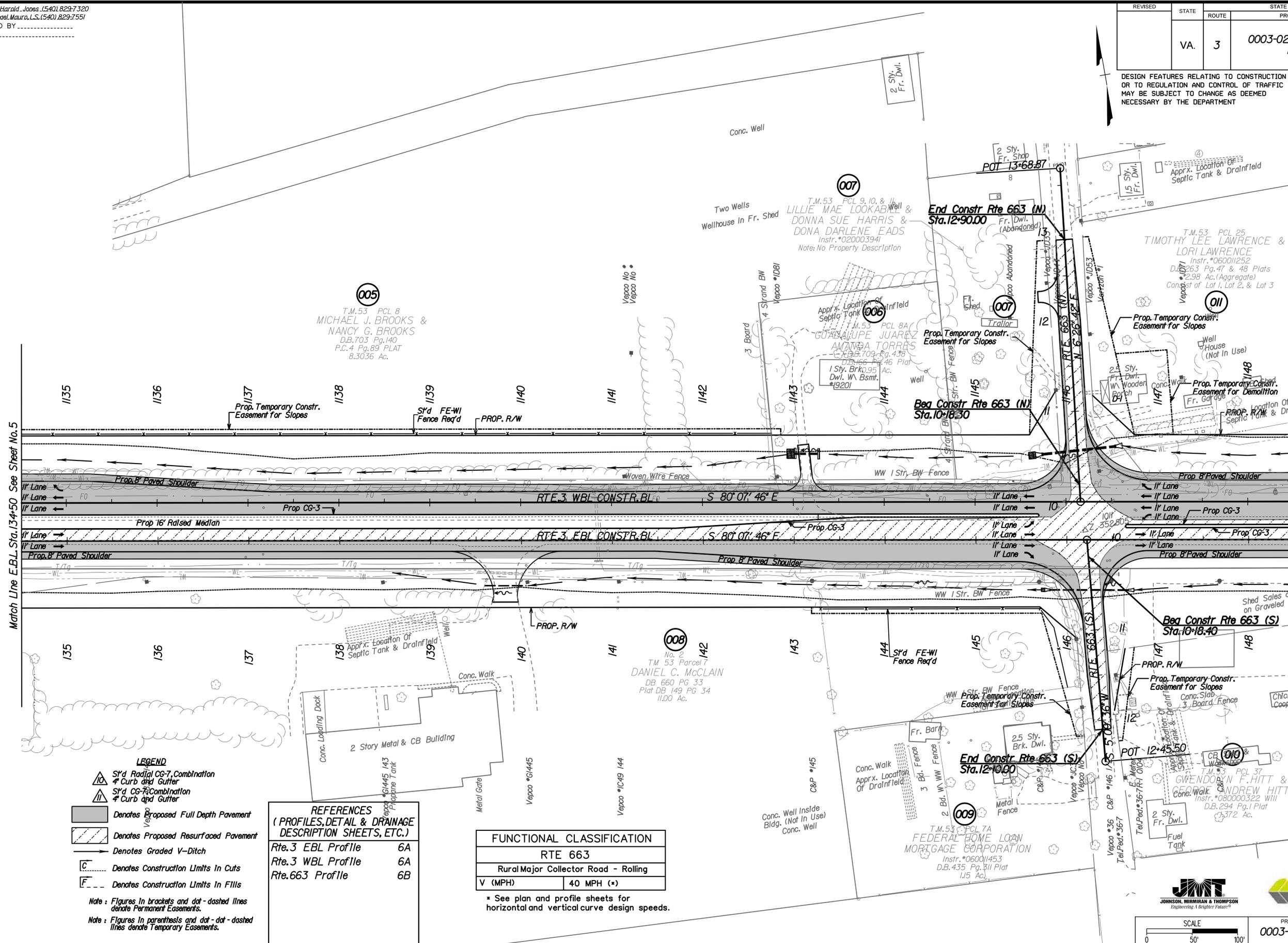
PROJECT
0003-023-107

SHEET NO.
5B

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	6

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Match Line E.B.L. Sta. 134+50 See Sheet No. 5

Match Line E.B.L. Sta. 148+50 See Sheet No. 7

- LEGEND**
- S'd Radial CG-7, Combination # Curb and Gutter
 - S'd CG-7, Combination # Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits in Cuts
 - Denotes Construction Limits in Fills

Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dot-dashed lines denote Temporary Easements.

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte.3 EBL Profile	6A
Rte.3 WBL Profile	6A
Rte.663 Profile	6B

FUNCTIONAL CLASSIFICATION

RTE 663	
Rural Major Collector Road - Rolling	
V (MPH)	40 MPH (+)

* See plan and profile sheets for horizontal and vertical curve design speeds.

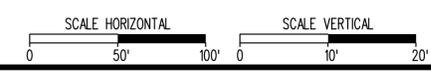
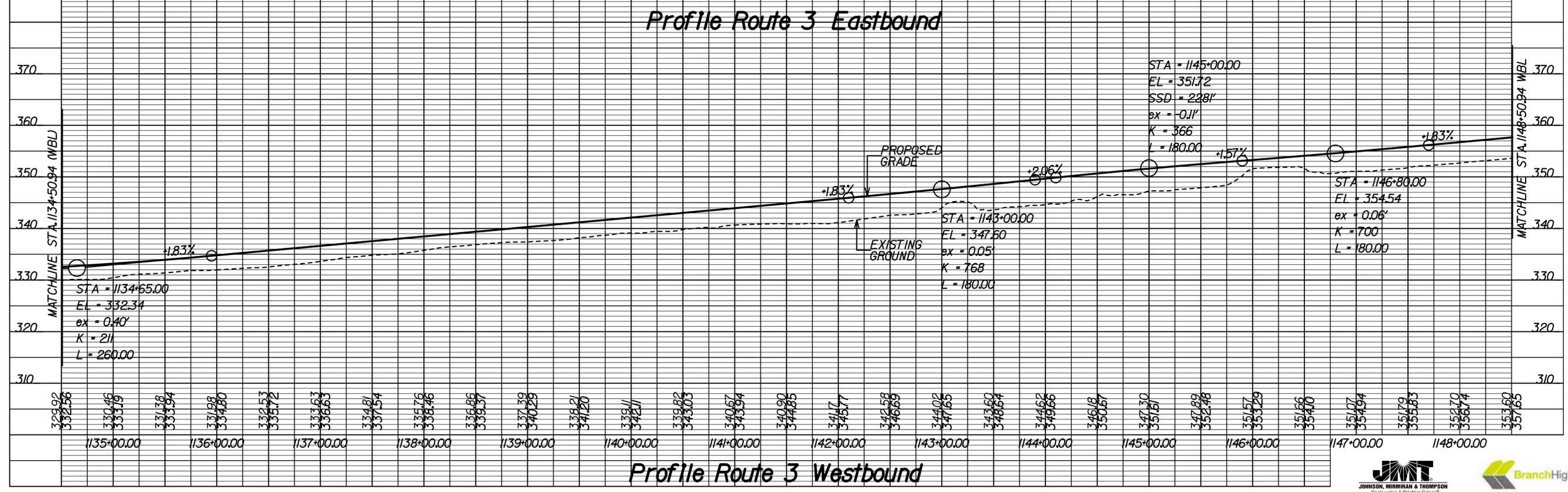
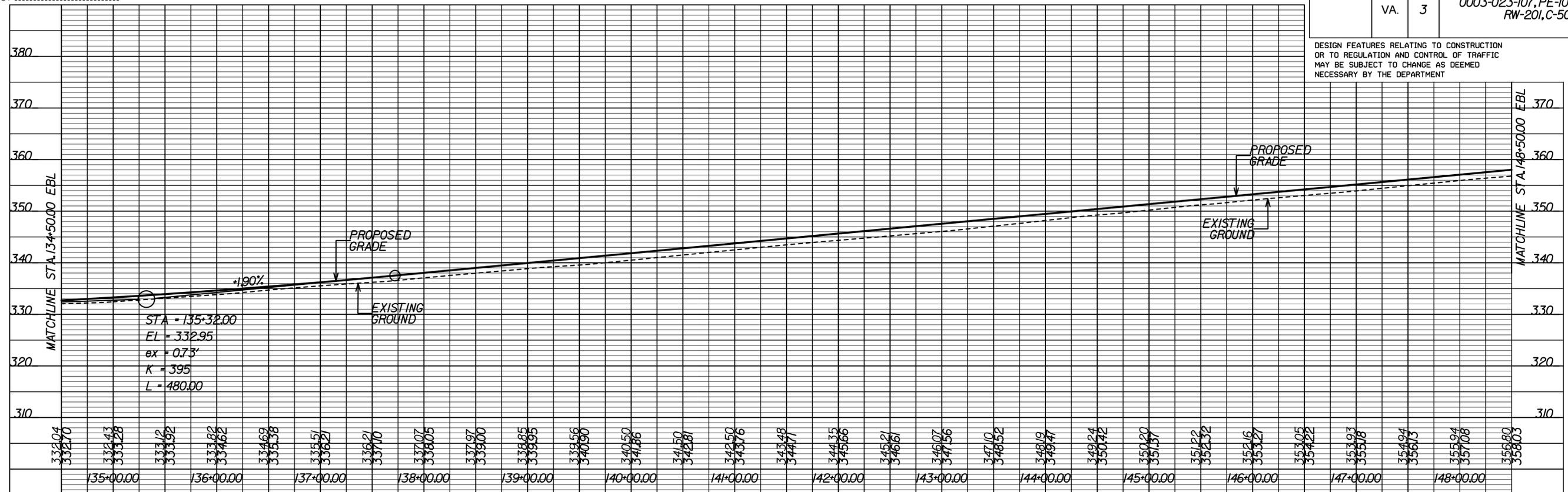


SCALE	PROJECT	SHEET NO.
0 50' 100'	0003-023-107	6

PROJECT MANAGER: Harold Jones (540) 829-7320
 SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY: _____
 DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	6A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

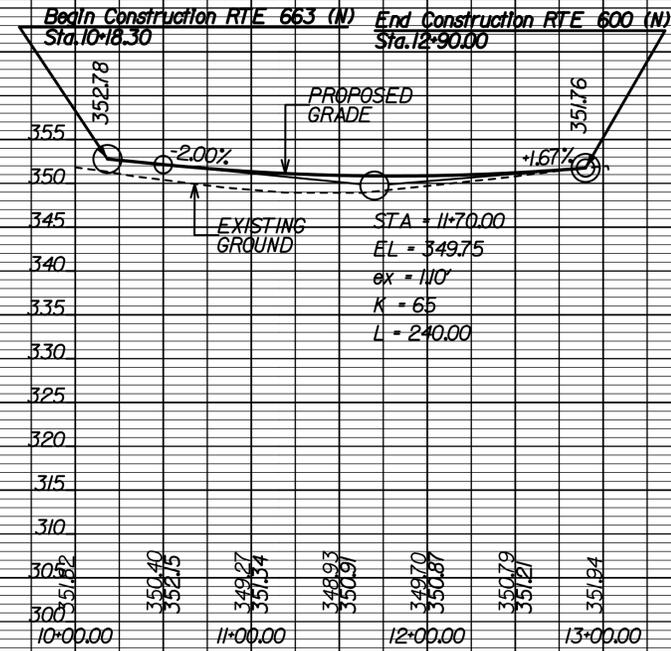


PROJECT: 0003-023-107
 SHEET NO.: 6A

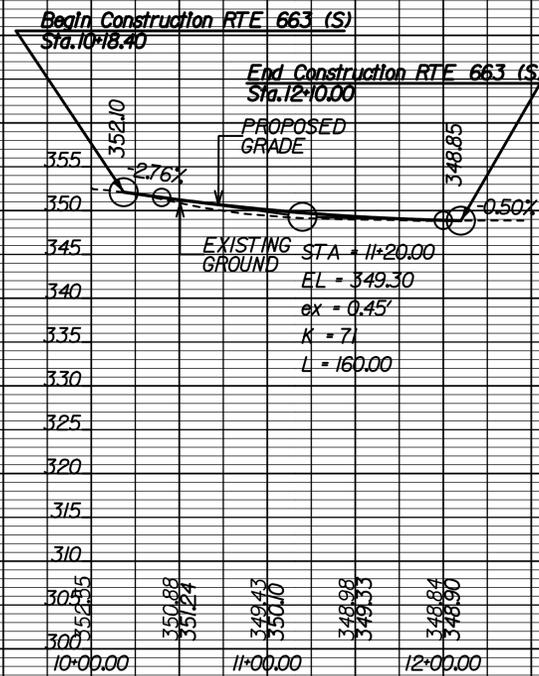
PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY
DESIGNED BY

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	6B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Route 663 Stevensburg Rd. (North)



Route 663 Stevensburg Rd. (South)



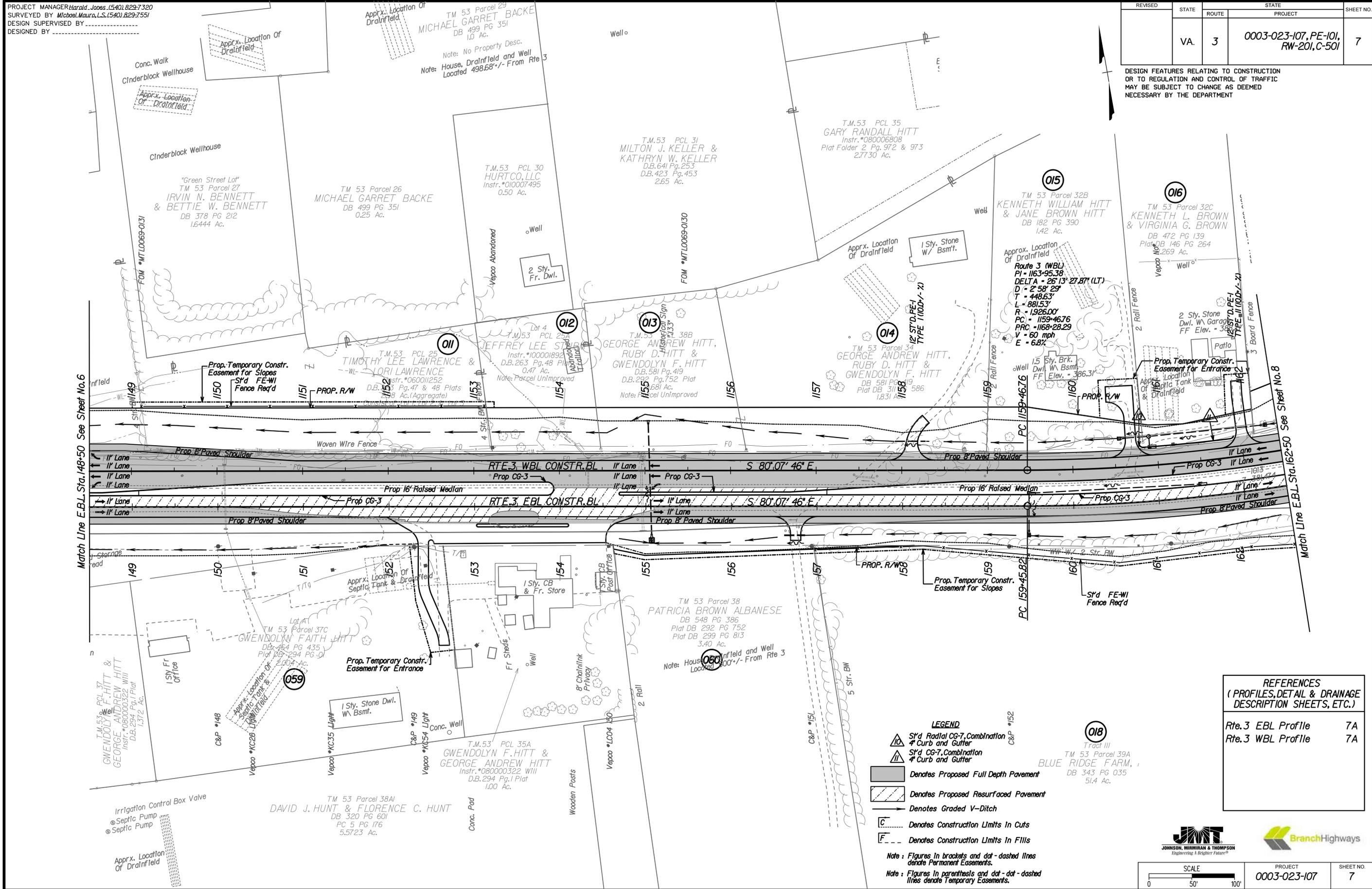
PROJECT
0003-023-107

SHEET NO.
6B

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	7

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Match Line E.B.L. Sta. 148+50 See Sheet No. 6

Match Line E.B.L. Sta. 162+50 See Sheet No. 8

**REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)**

Rte. 3 EBL Profile	7A
Rte. 3 WBL Profile	7A

- LEGEND**
- S'd Radial CG-7, Combination # Curb and Gutter
 - S'd CG-7, Combination # Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills

Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parentheses and dot-dot-dashed lines denote Temporary Easements.

SCALE
0 50' 100'

PROJECT
0003-023-107

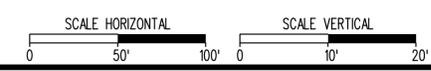
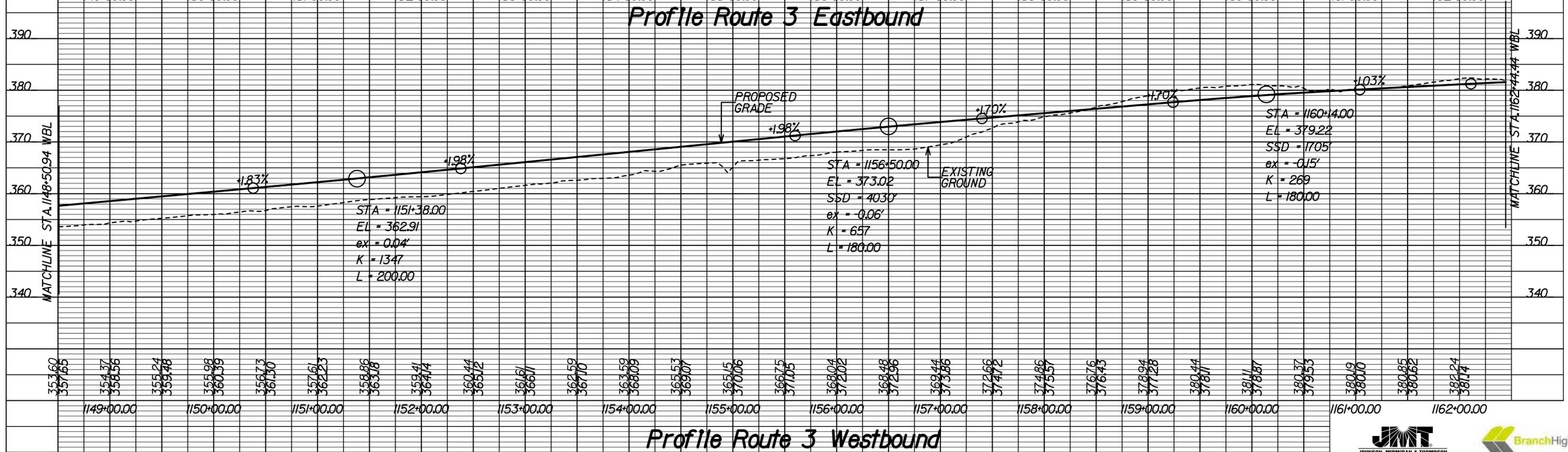
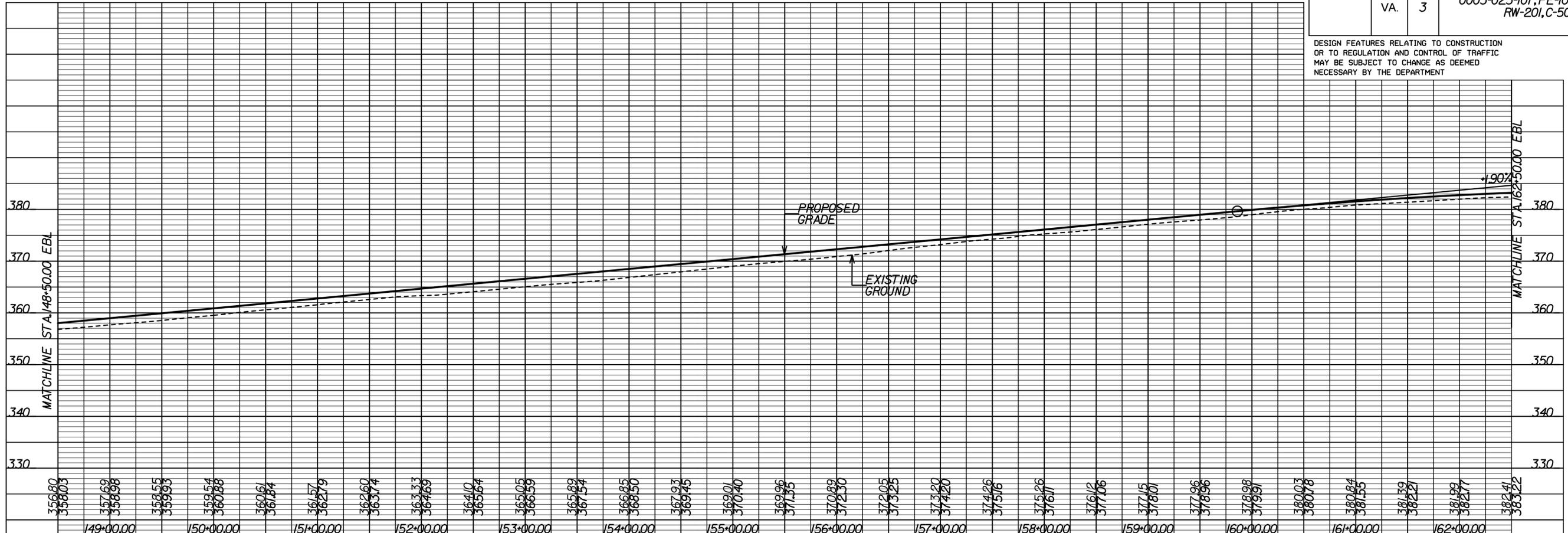
SHEET NO.
7

Logos: JMT Johnson, Mirman & Thompson Engineering A Brighter Future®; BranchHighways

PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	7A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



PROJECT: 0003-023-107
SHEET NO.: 7A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

FUNCTIONAL CLASSIFICATION	
RTE 600	
Rural Local Road - Rolling	
V (MPH)	20 MPH (+)

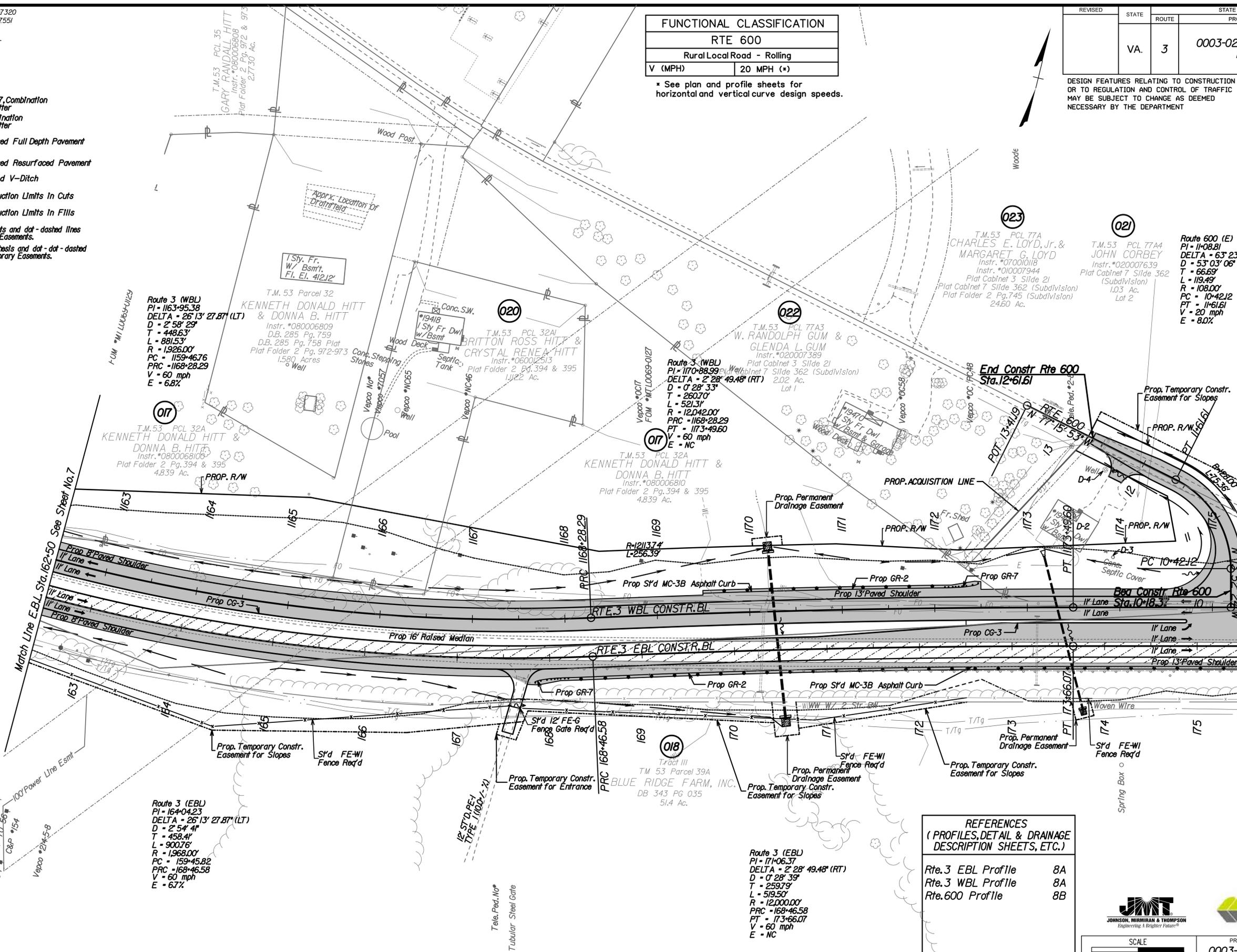
* See plan and profile sheets for horizontal and vertical curve design speeds.

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	8

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

- LEGEND**
- S'td Radial CG-7, Combination Curb and Gutter
 - S'td CG-7, Combination Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills

Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dot-dashed lines denote Temporary Easements.



Route 3 (WBL)
PI = 1163.9538
DELTA = 26°13' 27.87" (LT)
D = 2' 58" 29"
T = 448.63'
L = 881.53'
R = 1926.00'
PC = 1159+46.76
PRC = 1168+28.29
V = 60 mph
E = 6.8%

T.M. 53 PCL 32A
KENNETH DONALD HITT & DONNA B. HITT
Instr. *0800068106
Plat Folder 2 Pg. 394 & 395
4.839 Ac.

T.M. 53 Parcel 32
KENNETH DONALD HITT & DONNA B. HITT
Instr. *080006809
D.B. 285 Pg. 759
D.B. 285 Pg. 758 Plat
Plat Folder 2 Pg. 972-973
1.580 Acres

T.M. 53 PCL 32A1
BRITTON ROSS HITT & CRYSTAL RENE HITT
Instr. *060002513
Plat Folder 2 Pg. 394 & 395
1.122 Ac.

Route 3 (WBL)
PI = 1170.8899
DELTA = 2° 28' 49.48" (RT)
D = 0' 28' 33"
T = 260.70'
L = 521.31'
R = 12042.00'
PC = 1168+28.29
PT = 1173+49.60
V = 60 mph
E = NC

T.M. 53 PCL 32A
KENNETH DONALD HITT & DONNA B. HITT
Instr. *080006810
Plat Folder 2 Pg. 394 & 395
4.839 Ac.

T.M. 53 PCL 77A3
W. RANDOLPH GUM & GLENDA L. GUM
Instr. *020007389
Plat Cabinet 3 Slide 21
Plat Cabinet 7 Slide 362 (Subdivision)
2.02 Ac. Lot 1

T.M. 53 PCL 77A
CHARLES E. LOYD, Jr. & MARGARET G. LOYD
Instr. *070001018
Instr. *010007944
Plat Cabinet 3 Slide 21
Plat Cabinet 7 Slide 362 (Subdivision)
Plat Folder 2 Pg. 745 (Subdivision)
24.60 Ac.

T.M. 53 PCL 77A4
JOHN CORBEY
Instr. *020007639
Plat Cabinet 7 Slide 362 (Subdivision)
10.3 Ac. Lot 2

Route 600 (E)
PI = 11+08.81
DELTA = 63° 23' 28.79" (LT)
D = 53' 03' 06"
T = 66.69'
L = 119.49'
R = 108.00'
PC = 10+42.12
PT = 11+61.61
V = 20 mph
E = 8.0%

Route 3 (EBL)
PI = 164+04.23
DELTA = 26°13' 27.87" (LT)
D = 2' 54' 41"
T = 458.41'
L = 900.76'
R = 1968.00'
PC = 159+45.82
PRC = 168+46.58
V = 60 mph
E = 6.7%

Route 3 (EBL)
PI = 171+06.37
DELTA = 2° 28' 49.48" (RT)
D = 0' 28' 39"
T = 259.79'
L = 519.50'
R = 12000.00'
PC = 168+46.58
PT = 173+66.07
V = 60 mph
E = NC

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte. 3 EBL Profile	8A
Rte. 3 WBL Profile	8A
Rte. 600 Profile	8B

JMT
JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future®

BranchHighways

SCALE: 0 50' 100'

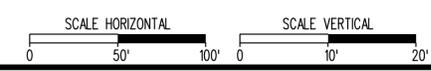
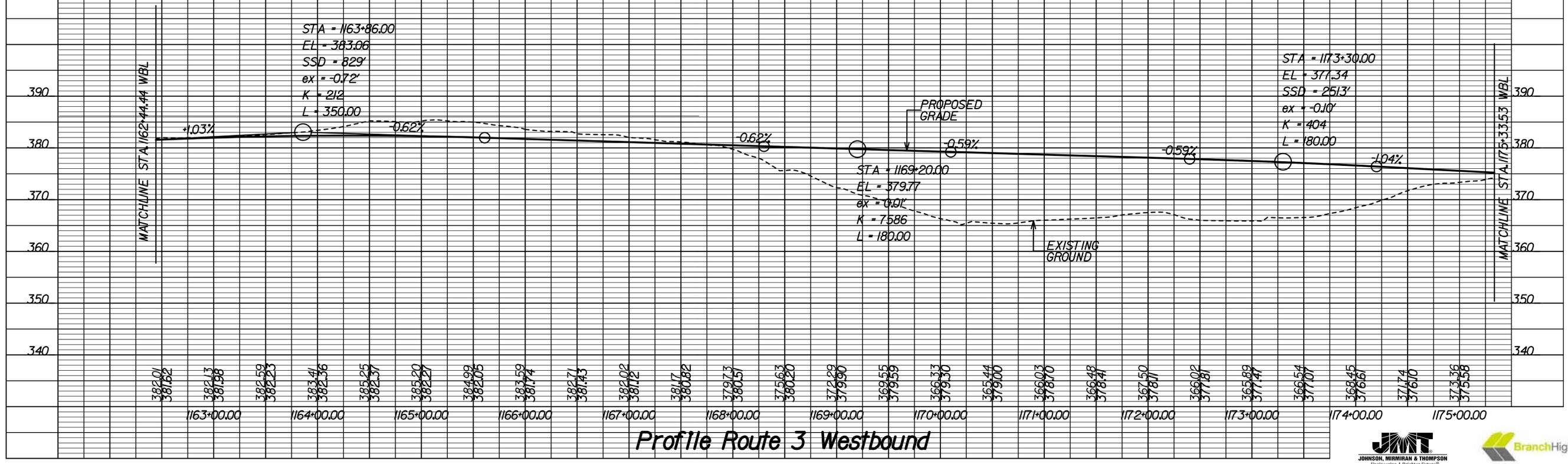
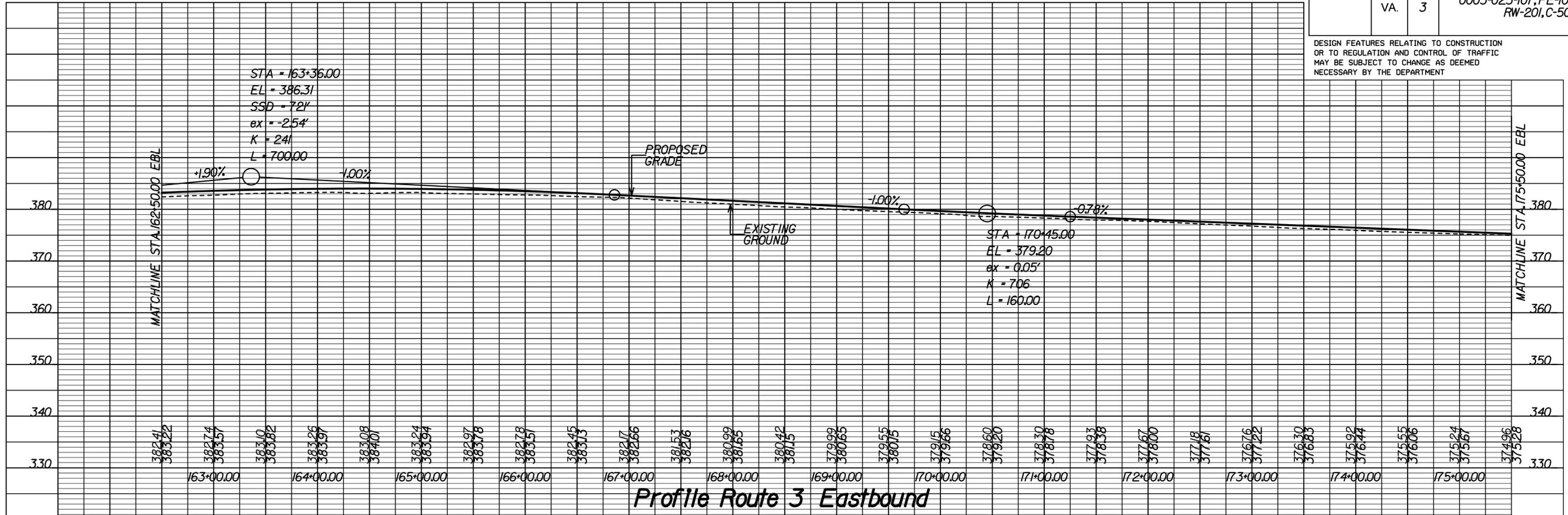
PROJECT: 0003-023-107

SHEET NO.: 8

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	8A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

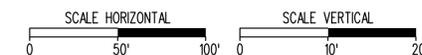
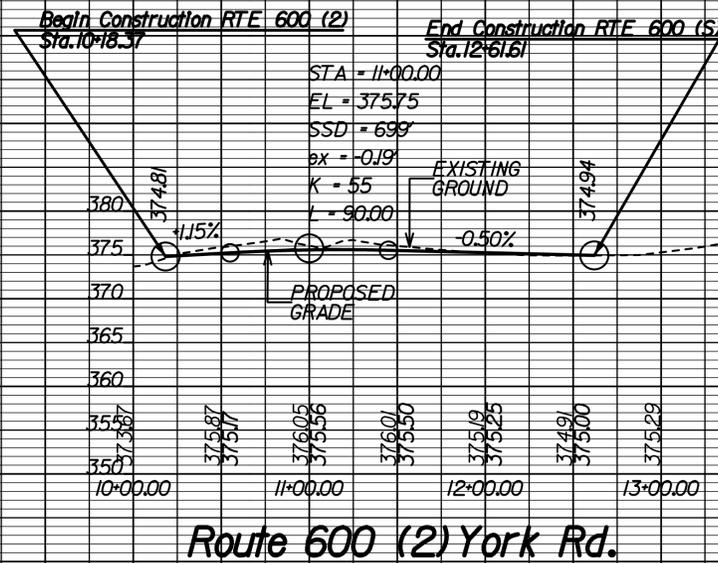


PROJECT 0003-023-107
SHEET NO. 8A

PROJECT MANAGER: Harold Jones (540) 829-7320
 SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY: _____
 DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	8B

DESIGN FEATURES RELATING TO CONSTRUCTION
 OR TO REGULATION AND CONTROL OF TRAFFIC
 MAY BE SUBJECT TO CHANGE AS DEEMED
 NECESSARY BY THE DEPARTMENT



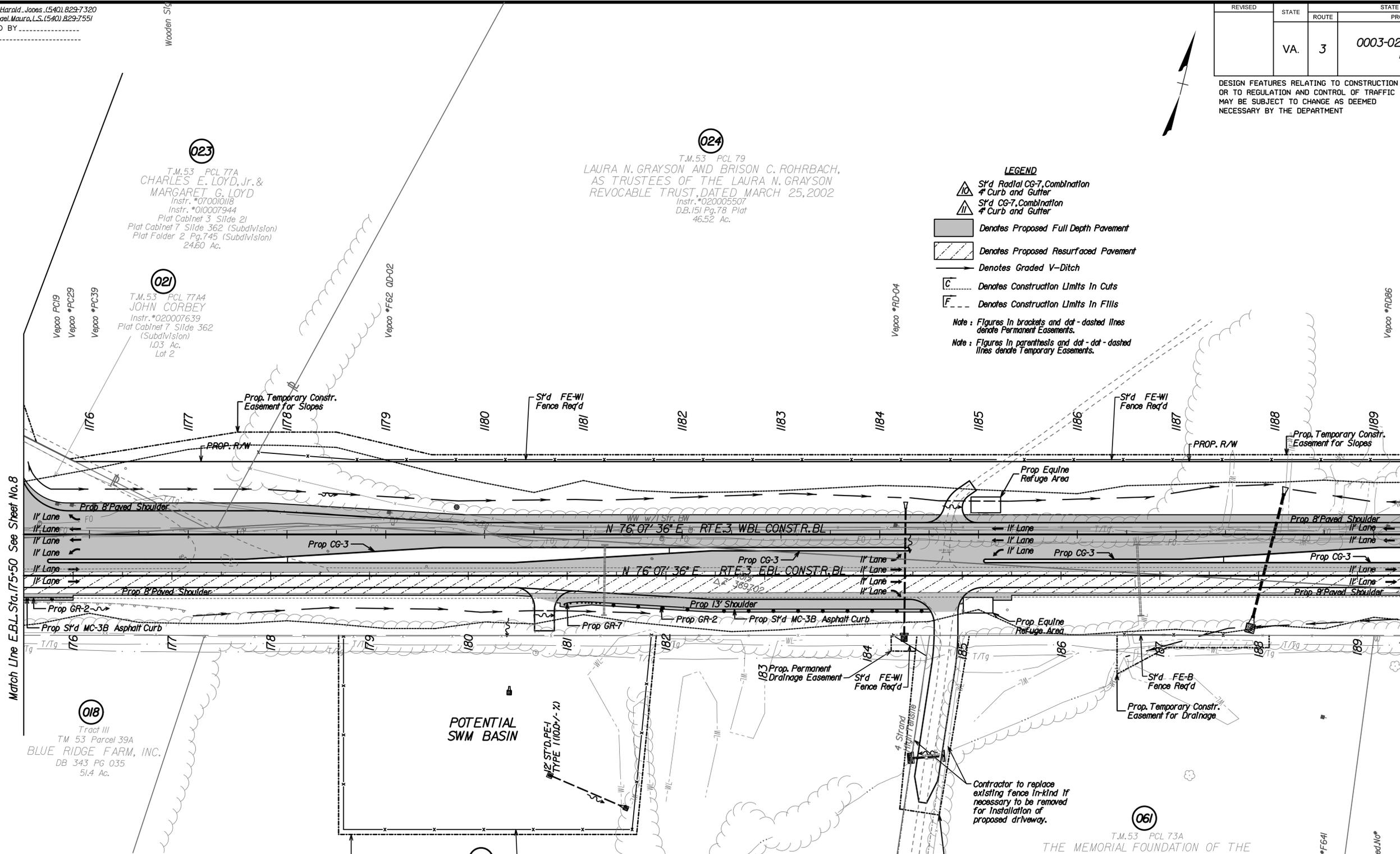
PROJECT
0003-023-107

SHEET NO.
8B

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	9

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



LEGEND

- S'd Radial CG-7, Combination # Curb and Gutter
- S'd CG-7, Combination # Curb and Gutter
- Denotes Proposed Full Depth Pavement
- Denotes Proposed Resurfaced Pavement
- Denotes Graded V-Ditch
- Denotes Construction Limits In Cuts
- Denotes Construction Limits In Fills

Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parentheses and dot-dot-dashed lines denote Temporary Easements.

Match Line E.B.L. Sta. 175+50 See Sheet No. 8

Match Line E.B.L. Sta. 189+50 See Sheet No. 10

018
Tract III
T.M. 53 Parcel 39A
BLUE RIDGE FARM, INC.
DB 343 PG 035
51.4 Ac.

023
T.M. 53 PCL 77A
CHARLES E. LOYD, JR. &
MARGARET G. LOYD
Instr. *010001018
Instr. *010007944
Plat Cabinet 3 Slide 21
Plat Cabinet 7 Slide 362 (Subdivision)
Plat Folder 2 Pg. 745 (Subdivision)
24.60 Ac.

021
T.M. 53 PCL 77A4
JOHN CORBEY
Instr. *020007639
Plat Cabinet 7 Slide 362 (Subdivision)
11.03 Ac.
Lot 2

024
T.M. 53 PCL 79
LAURA N. GRAYSON AND BRISON C. ROHRBACH,
AS TRUSTEES OF THE LAURA N. GRAYSON
REVOCABLE TRUST, DATED MARCH 25, 2002
Instr. *020005507
D.B. 151 Pg. 78 Plat
46.52 Ac.

019
T.M. 53 PCL 73
BLUE RIDGE FARM, INCORPORATED
D.B. 343 PG. 25
PLAT D.B. 106 PG. 331
D.B. 561 PG. 316 V.O.F. Esmt.
181.19 Acres (Assessed)

061
T.M. 53 PCL 73A
THE MEMORIAL FOUNDATION OF THE
GERMANNA COLONIES IN VIRGINIA, INC.
Instr. *000005289
Plat Cabinet 4 Slides 159 & 160
D.B. 556 Page 302 D.H.R. Esmt.
19.5567 Acres

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte. 3 EBL Profile	9A
Rte. 3 WBL Profile	9A



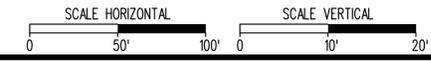
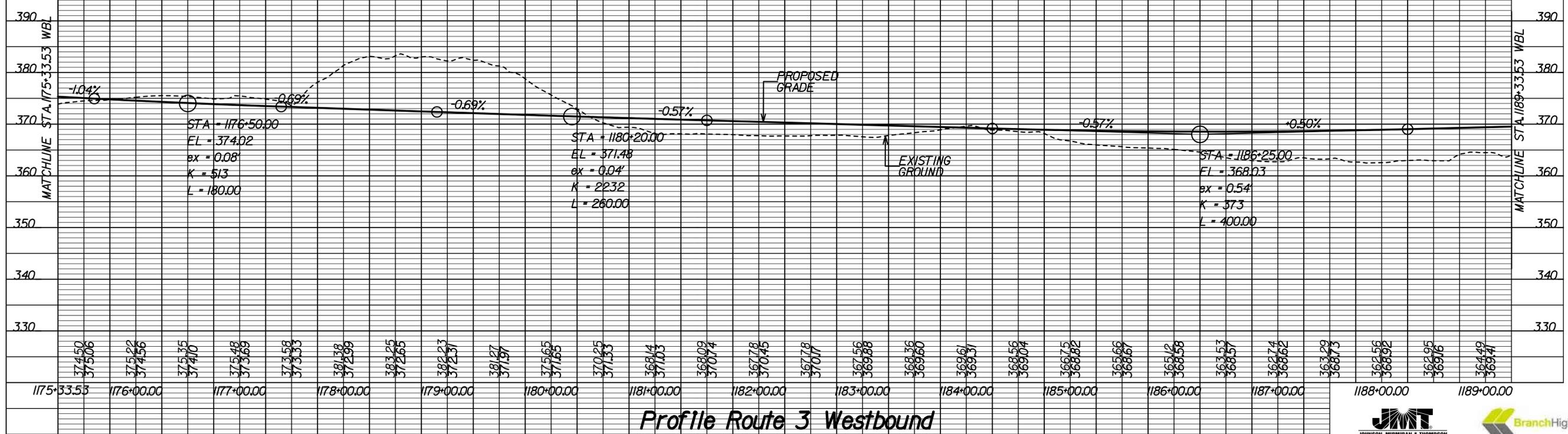
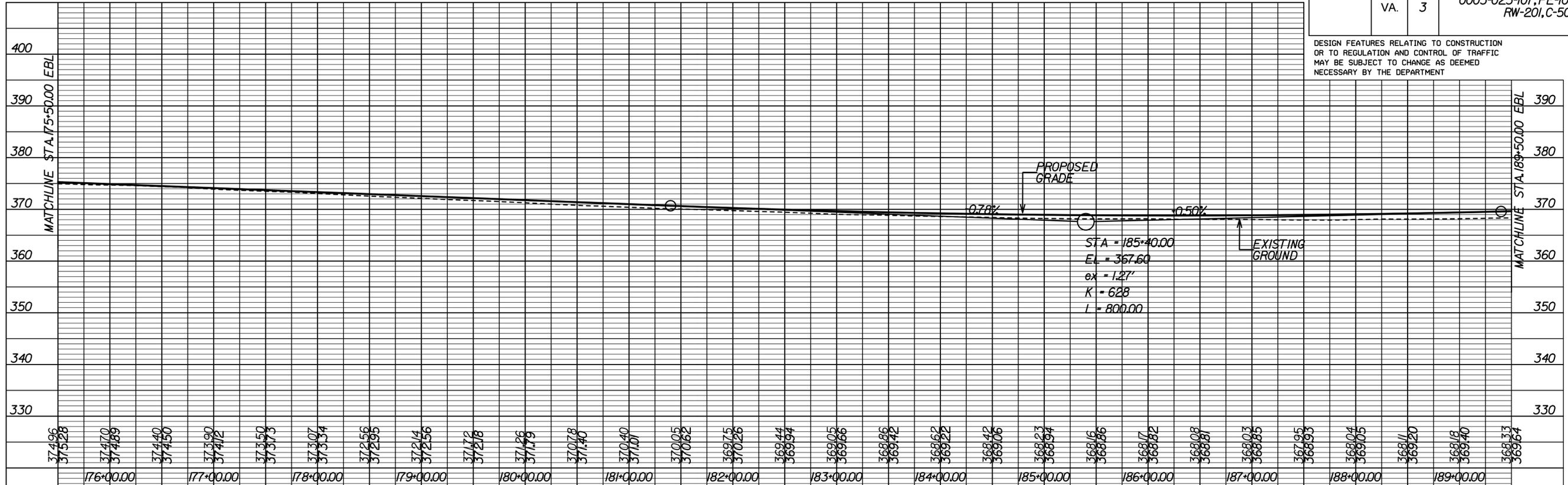
SCALE 0 50' 100'

PROJECT 0003-023-107 SHEET NO. 9

PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	9A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



PROJECT: 0003-023-107
SHEET NO.: 9A

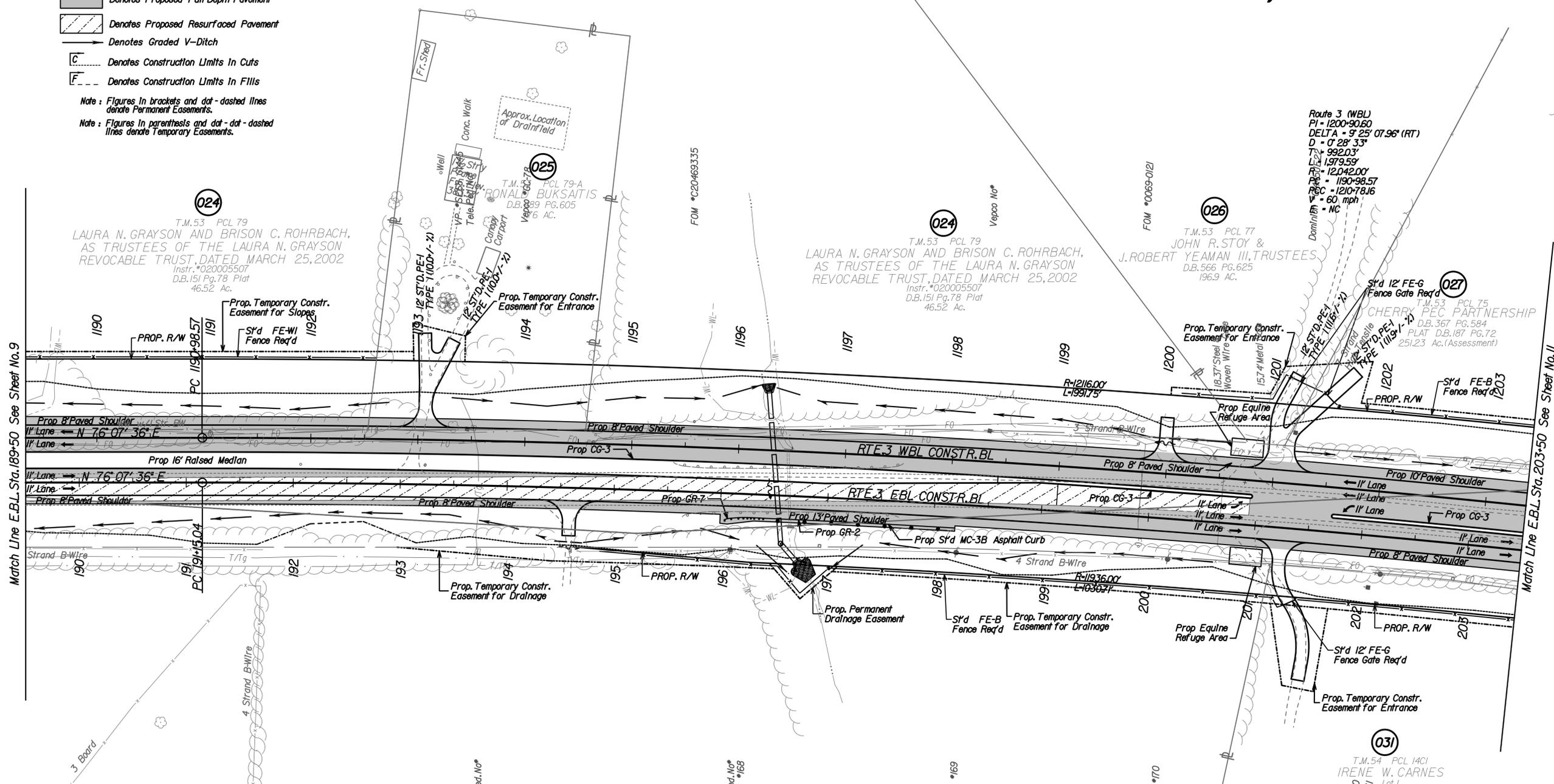
PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	10

- LEGEND**
- Std Radial CG-7, Combination 4' Curb and Gutter
 - Std CG-7, Combination 4' Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills

Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dot-dashed lines denote Temporary Easements.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Match Line E.B.L. Sta. 189+50 See Sheet No. 9

Match Line E.B.L. Sta. 203+50 See Sheet No. 11

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte. 3 EBL Profile	10A
Rte. 3 WBL Profile	10A

T.M. 53 PCL 73
BLUE RIDGE FARM, INCORPORATED
D.B. 343 PG. 25
PLAT D.B. 106 PG. 331
D.B. 561 PG. 316 V.D.F. Esmf.
181.9 Acres (Assessed)

Route 3 (EBL)
PI - 200+89.45
DELTA - 9° 17' 04.69" (RT)
D - 0' 28' 39"
T - 974.42'
L - 1944.37'
R - 12,000.00'
PC - 191+15.04
PCC - 210+59.61
V = 60 mph
E = NC

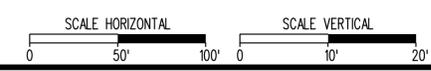
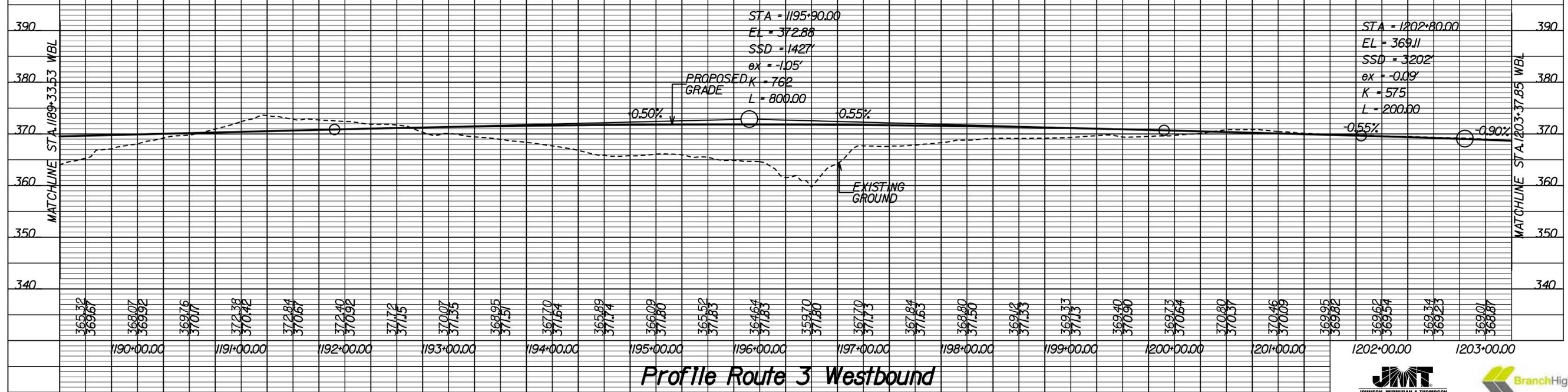
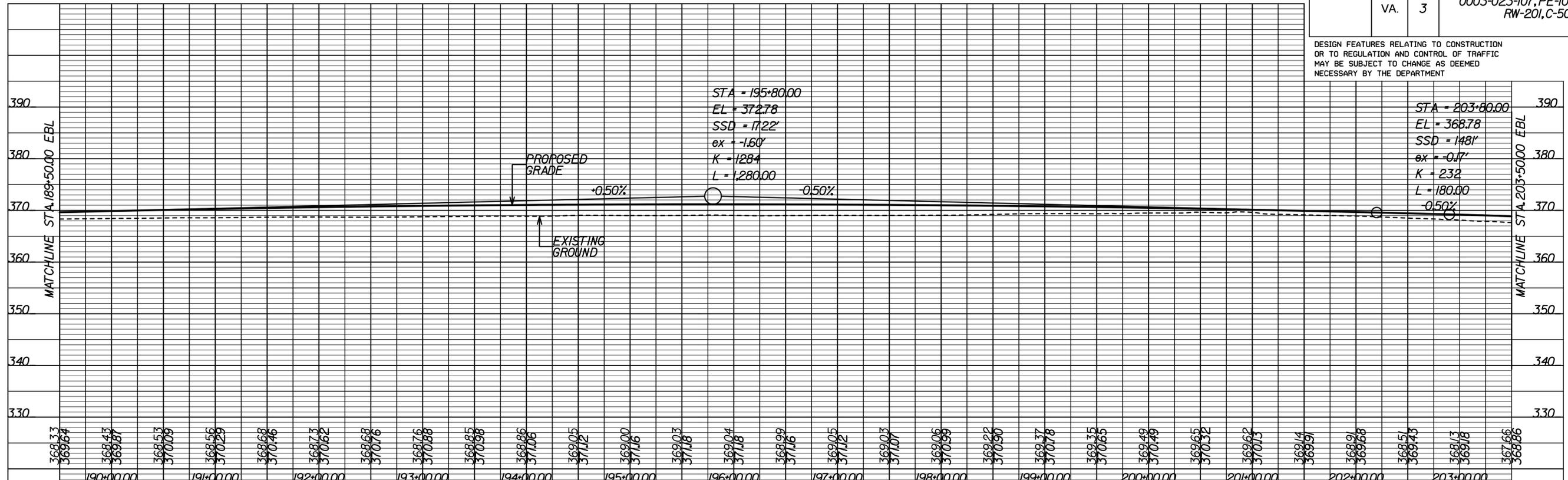


SCALE 0 50' 100'	PROJECT 0003-023-107	SHEET NO. 10
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PROJECT MANAGER: Harold Jones (540) 829-7320
 SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY: _____
 DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	10A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

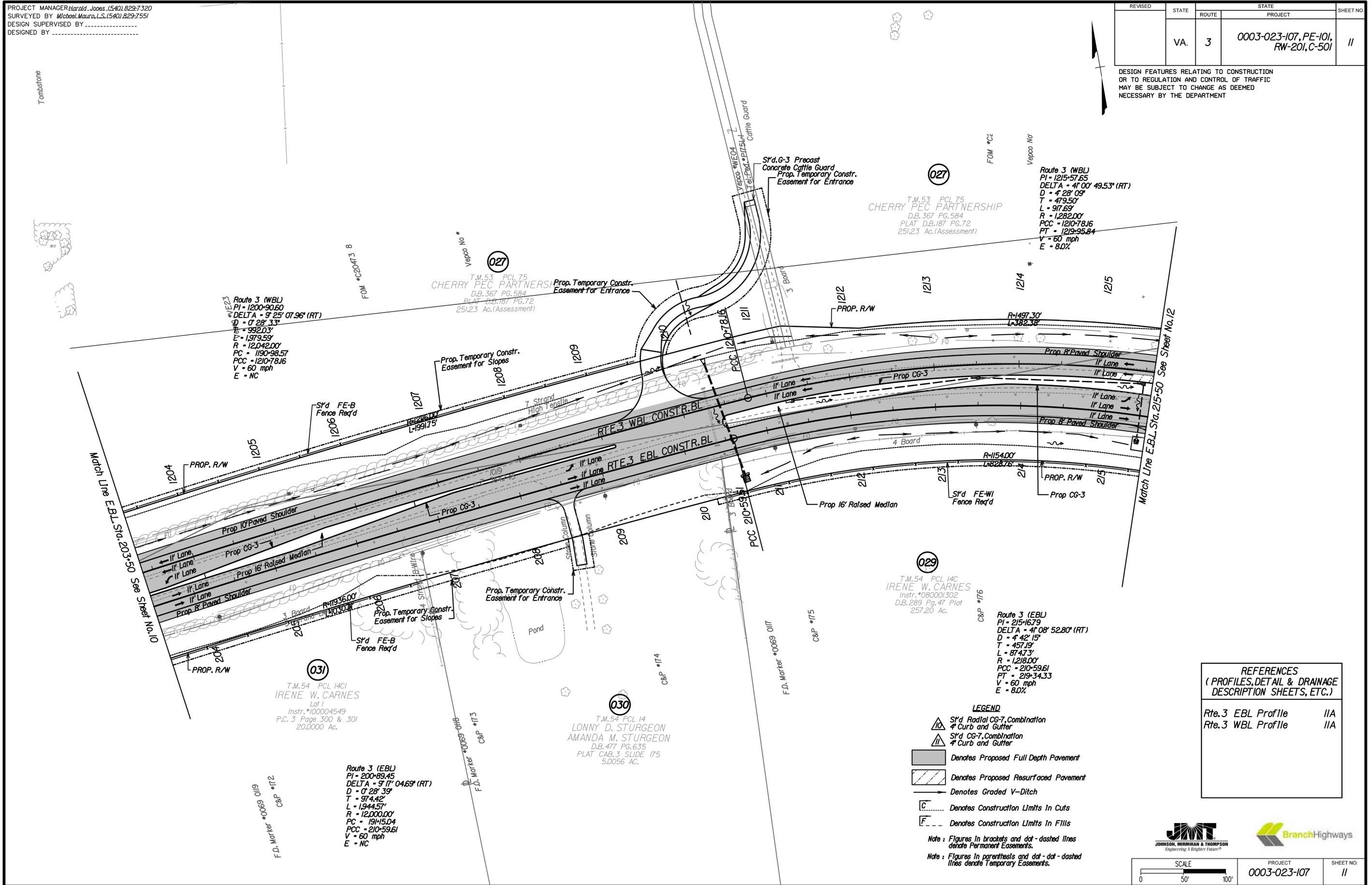


PROJECT: 0003-023-107
 SHEET NO.: 10A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	11

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Route 3 (WBL)
PI = 1200+90.60
DELTA = 9° 25' 07.96" (RT)
D = 0' 28' 33"
L = 992.03'
E = 1979.59'
R = 12042.00'
PC = 1190+98.57
PCC = 1210+78.16
V = 60 mph
E = NC

T.M. 53 PCL 75
CHERRY PEC PARTNERSHIP
D.B. 367 PG. 584
PLAT D.B. 187 PG. 72
251.23 Ac. (Assessment)

T.M. 53 PCL 75
CHERRY PEC PARTNERSHIP
D.B. 367 PG. 584
PLAT D.B. 187 PG. 72
251.23 Ac. (Assessment)

Route 3 (WBL)
PI = 1215+57.65
DELTA = 41° 00' 49.53" (RT)
D = 4' 28' 09"
T = 479.50'
L = 917.69'
R = 1282.00'
PC = 1210+78.16
PT = 1219+95.84
V = 60 mph
E = 8.0%

T.M. 54 PCL 1401
IRENE W. CARNES
Lot 1
Instr. #100004549
P.C. 3 Page 300 & 301
20.0000 Ac.

T.M. 54 PCL 14
LONNY D. STURGEON
AMANDA M. STURGEON
D.B. 477 PG. 635
PLAT CAB. 3 SLIDE 175
5.0056 AC.

Route 3 (EBL)
PI = 200+89.45
DELTA = 9° 17' 04.69" (RT)
D = 0' 28' 39"
T = 974.42'
L = 1944.57'
R = 12000.00'
PC = 1915.04
PCC = 210+59.61
V = 60 mph
E = NC

T.M. 54 PCL 14C
IRENE W. CARNES
Instr. #080001302
D.B. 289 Pg. 47 Plat
257.20 Ac.

Route 3 (EBL)
PI = 215+167.9
DELTA = 41° 08' 52.80" (RT)
D = 4' 42' 15"
T = 457.19'
L = 8747.3'
R = 1218.00'
PC = 210+59.61
PT = 219+34.33
V = 60 mph
E = 8.0%

LEGEND

- S'd Radial CG-7, Combination # Curb and Gutter
- S'd CG-7, Combination # Curb and Gutter
- Denotes Proposed Full Depth Pavement
- Denotes Proposed Resurfaced Pavement
- Denotes Graded V-Ditch
- Denotes Construction Limits In Cuts
- Denotes Construction Limits In Fills

Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dot-dashed lines denote Temporary Easements.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

- Rte. 3 EBL Profile IIA
- Rte. 3 WBL Profile IIA

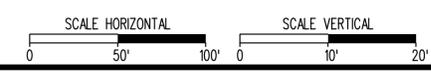
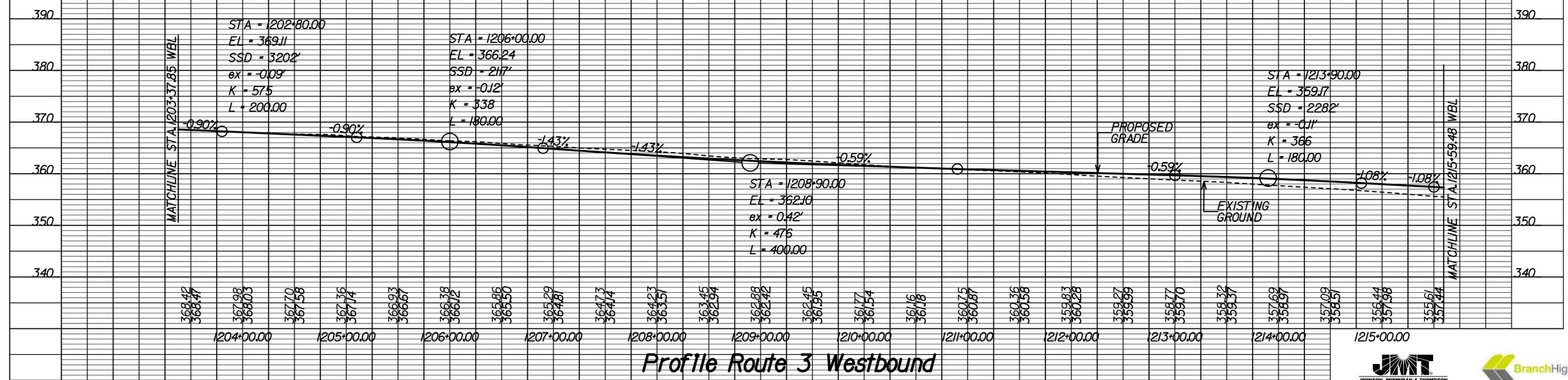
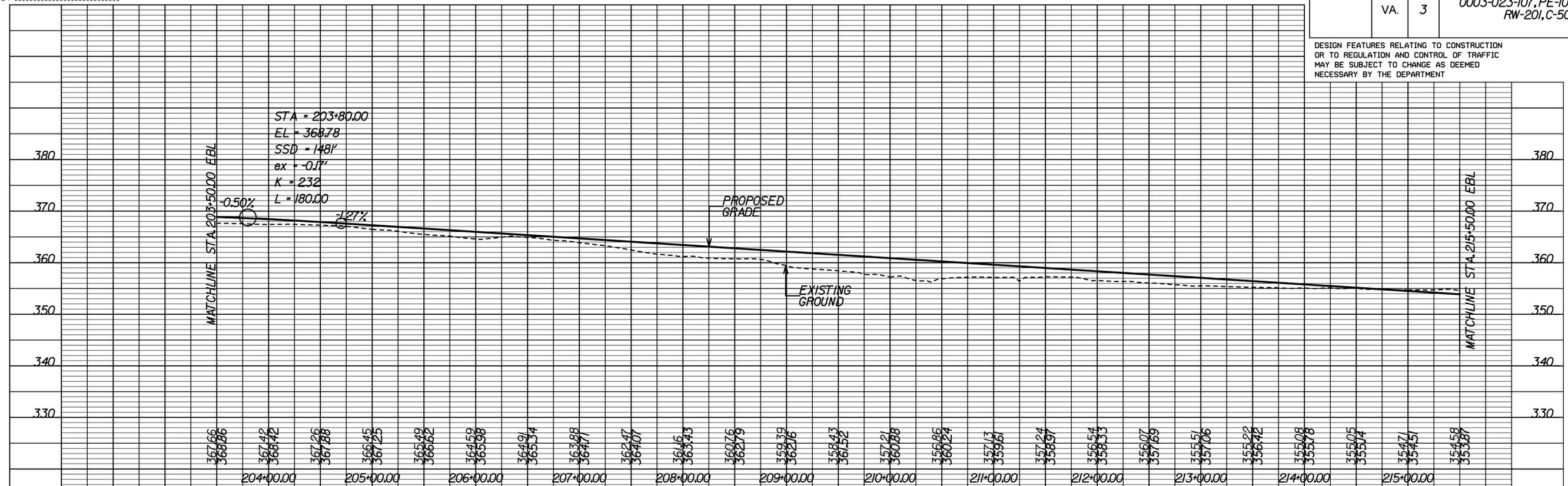


SCALE 0 50' 100'	PROJECT 0003-023-107	SHEET NO. 11
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PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	11A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



PROJECT 0003-023-107 SHEET NO. 11A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

FUNCTIONAL CLASSIFICATION	
RTE 739	
Rural Local Road - Rolling	
V (MPH)	30 MPH (*)

* See plan and profile sheets for horizontal and vertical curve design speeds.

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	12

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

027
T.M. 53 PCL 75
CHERRY PEC PARTNERSHIP
D.B. 367 PG. 584
PLAT D.B. 187 PG. 72
251.23 Ac. (Assessment)

Route 3 (WBL)
PI = 1215+57.65
DELTA = 41° 00' 49.53" (RT)
D = 4' 28' 09"
T = 479.50'
L = 917.69'
R = 1282.00'
PCC = 1210+78.16
PT = 1219+95.84
V = 60 mph
E = 8.0%

Route 739
PI = 13+75.83
DELTA = 75° 50' 49.49" (LT)
D = 71' 37" 11"
T = 62.33'
L = 105.90'
R = 80.00'
PCC = 13+13.49
PT = 14+19.40

Route 739
PI = 11+56.80
DELTA = 63° 44' 06.76" (RT)
D = 29' 13' 57"
T = 121.85'
L = 218.03'
R = 196.00'
PCC = 10+34.95
PT = 12+52.98
V = 25 mph
E = 7.9%

033
T.M. 54 PCL 13
EVANGELOS P. CARAFIDES
MARIA CARAFIDES
D.B. 286 PG. 627
PLAT D.B. 286 PG. 629
20.8697 AC.

028
T.M. 53 PCL 74
HURT CO, LLC
Instr. *010007495
Plat Cabinet 5 Slide 100
6.960 Ac.

032
T.M. 54 PCL 14-B
WILLIAM A. SPILLMAN III
D.B. 416 PG. 577
DESC. D.B. 416 PG. 578
3.00 AC.

Route 3 (EBL)
PI = 215+16.79
DELTA = 41° 08' 52.80" (RT)
D = 4' 42' 15"
T = 457.19'
L = 874.73'
R = 1218.00'
PCC = 210+59.61
PT = 219+34.33
V = 60 mph
E = 8.0%

029
T.M. 54 PCL 14C
IRENE W. CARNES
Instr. *080001302
D.B. 289 Pg. 47 Plat
257.20 Ac.

- LEGEND**
- SY'd Radial CG-7, Combination # Curb and Gutter
 - SY'd CG-7, Combination # Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills

Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dashed lines denote Temporary Easements.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte. 3 EBL Profile	12A
Rte. 3 WBL Profile	12A
Rte. 739 Profile	12B



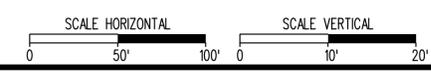
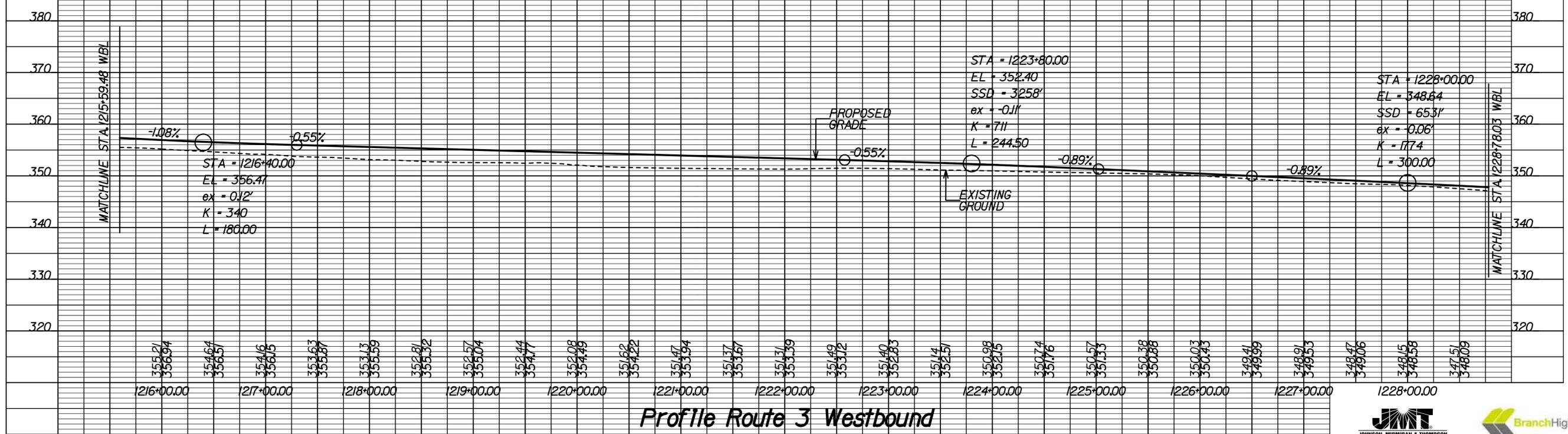
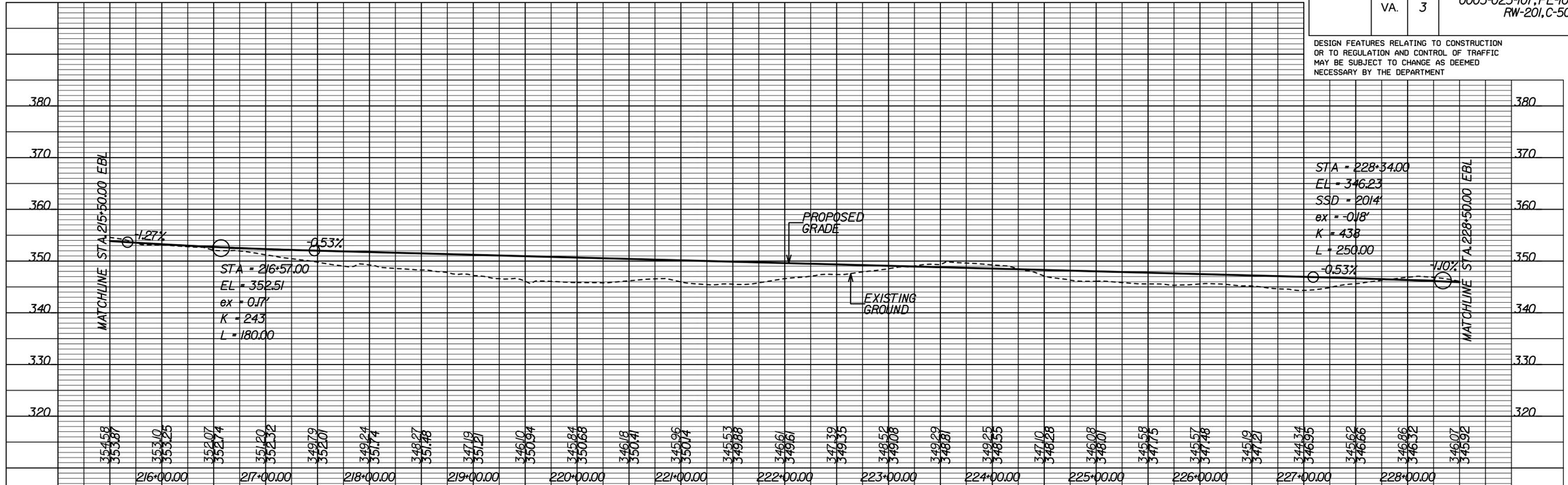
SCALE	PROJECT	SHEET NO.
0 50' 100'	0003-023-107	12

Match Line E.B.L. Sta. 215+50 See Sheet No. 11
Match Line E.B.L. Sta. 228+50 See Sheet No. 13

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	12A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

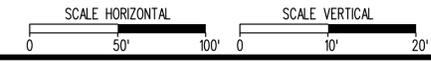
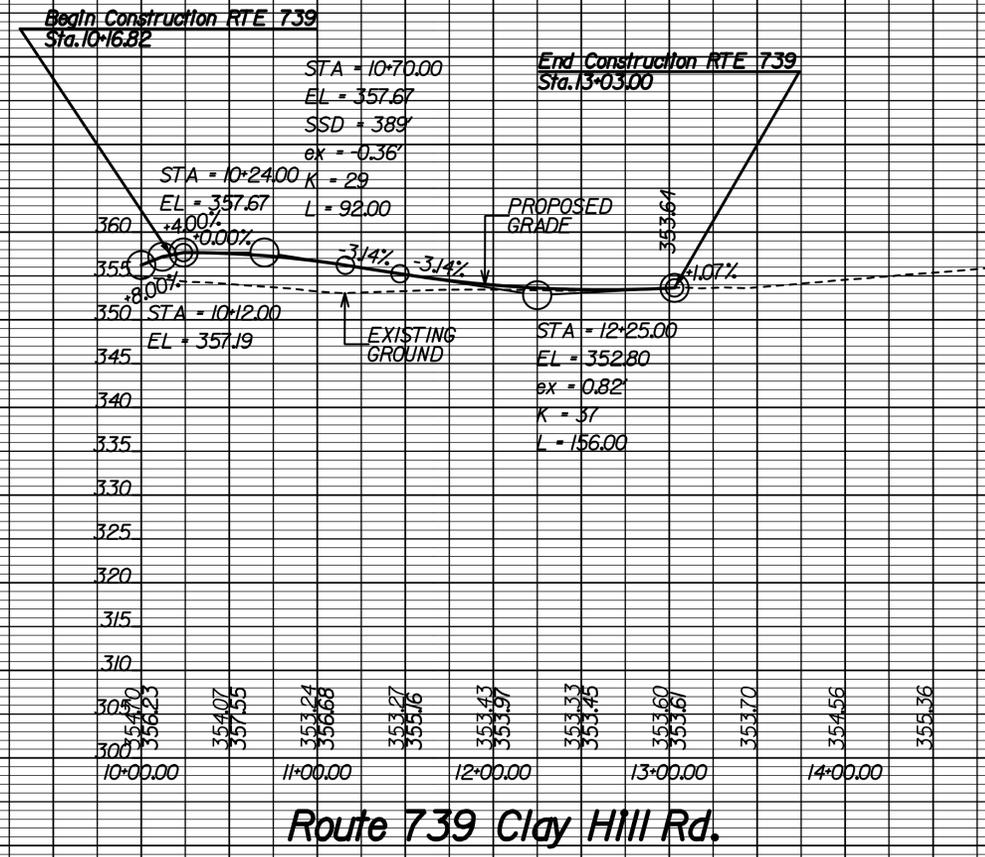


PROJECT 0003-023-107
SHEET NO. 12A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY
DESIGNED BY

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	12B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

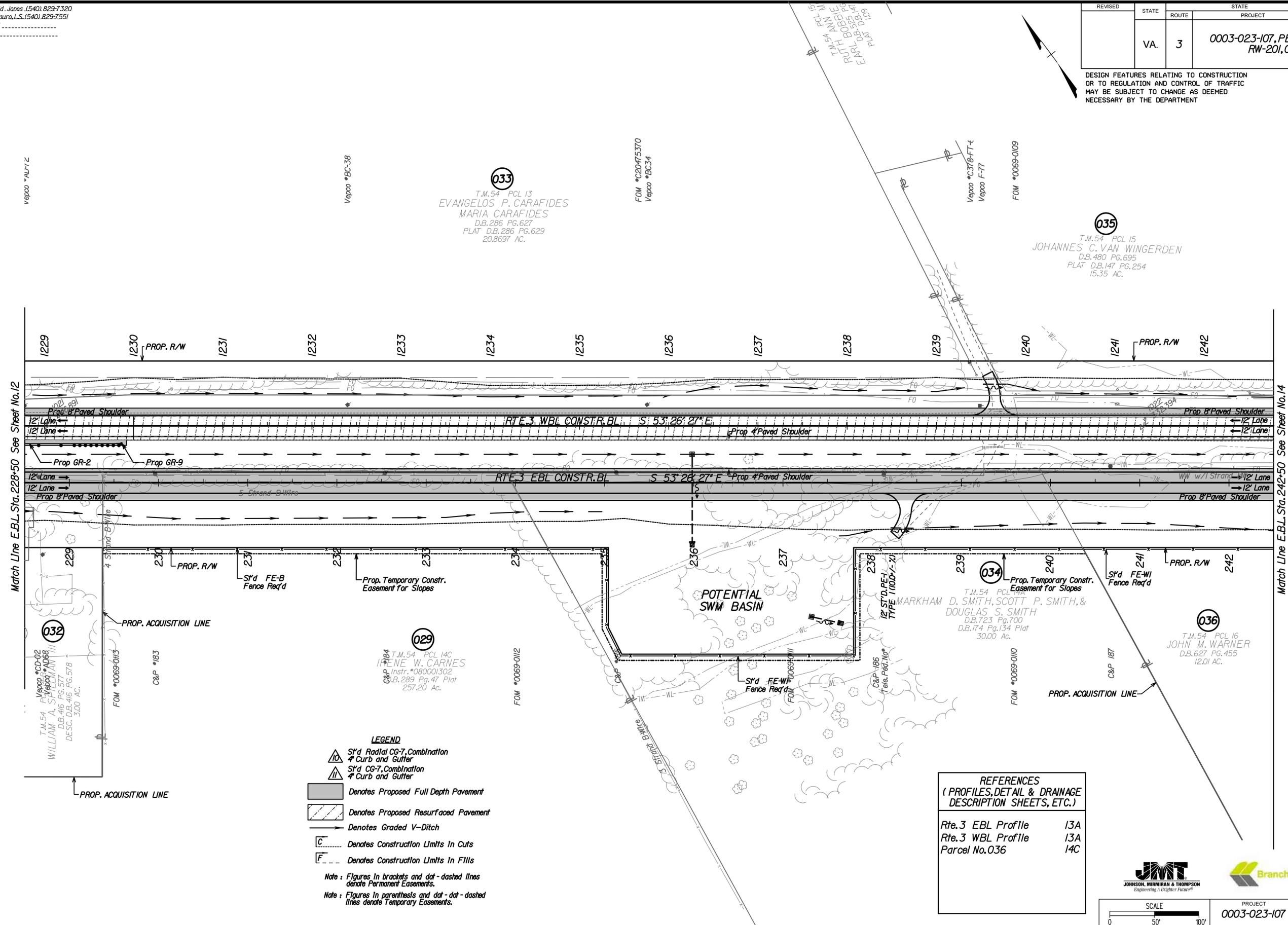


PROJECT 0003-023-107
SHEET NO. 12B

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	13

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



- LEGEND**
- S'd Radial CG-7, Combination # Curb and Gutter
 - S'd CG-7, Combination # Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills
- Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dashed lines denote Temporary Easements.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte. 3 EBL Profile	13A
Rte. 3 WBL Profile	13A
Parcel No. 036	14C

JMT
JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future®

BranchHighways

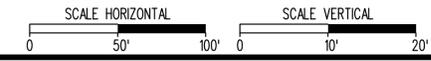
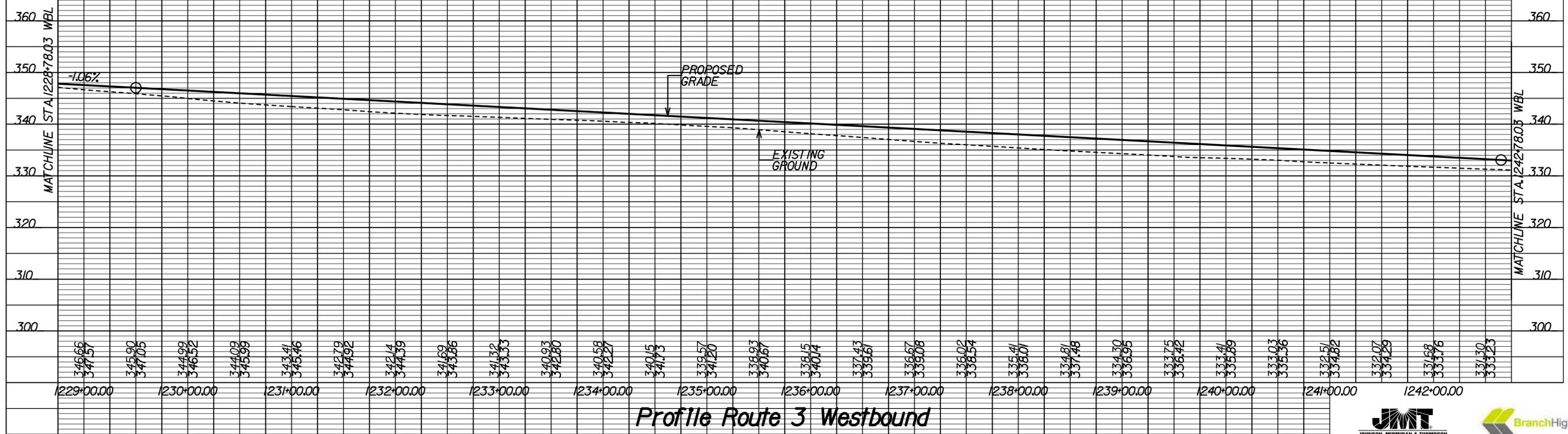
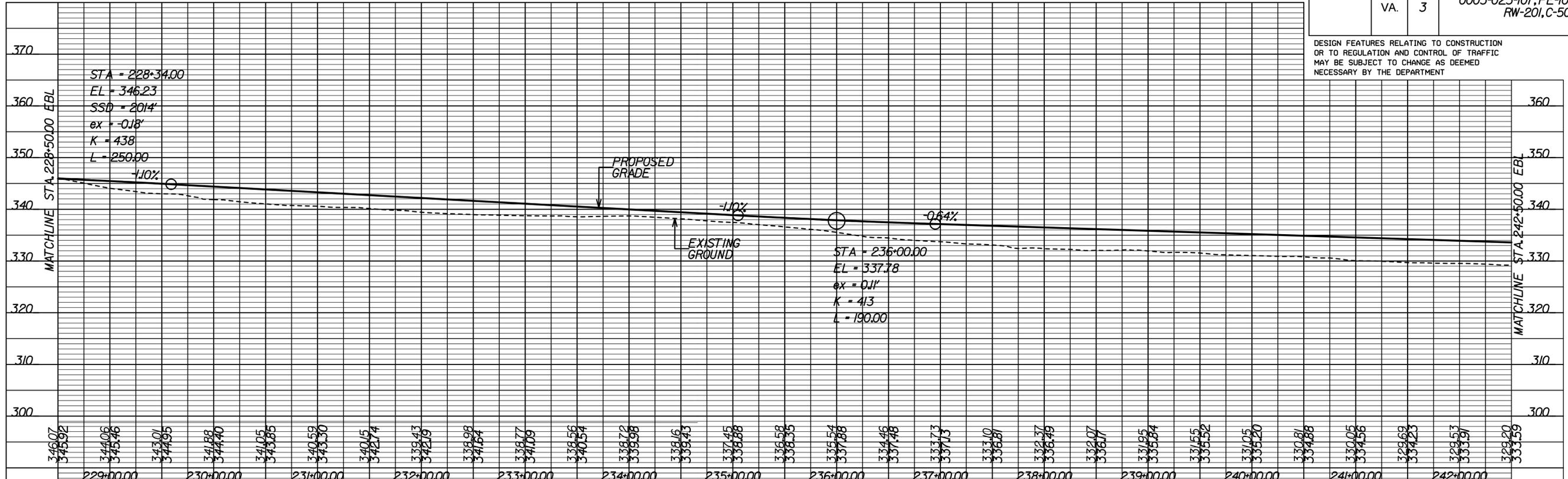
SCALE: 0 50' 100'

PROJECT: 0003-023-107
SHEET NO.: 13

PROJECT MANAGER Harold Jones (540) 829-7320
 SURVEYED BY Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY _____
 DESIGNED BY _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	13A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

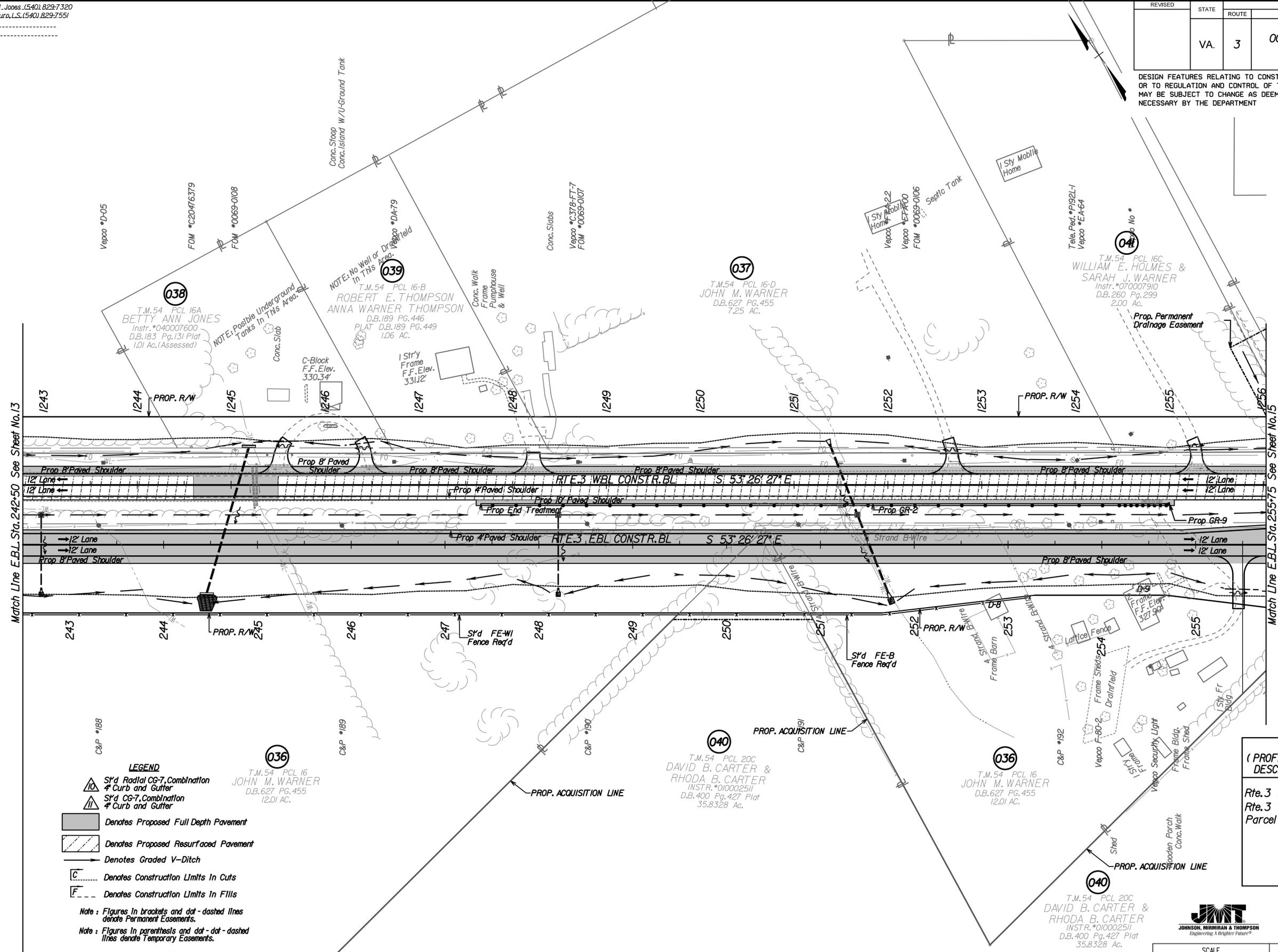


PROJECT 0003-023-107
 SHEET NO. 13A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	14

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Match Line E.B.L. Sta. 242+50 See Sheet No.13

Match Line E.B.L. Sta. 255+75 See Sheet No.15

- LEGEND**
- 4' Radial CG-7, Combination Curb and Gutter
 - 4' CG-7, Combination Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits in Cuts
 - Denotes Construction Limits in Fills
- Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parentheses and dot-dot-dashed lines denote Temporary Easements.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte.3 EBL Profile	14A
Rte.3 WBL Profile	14A
Parcel No.036	14C

Match Line See Sheet No.14C

SCALE 0 50' 100'

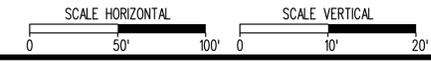
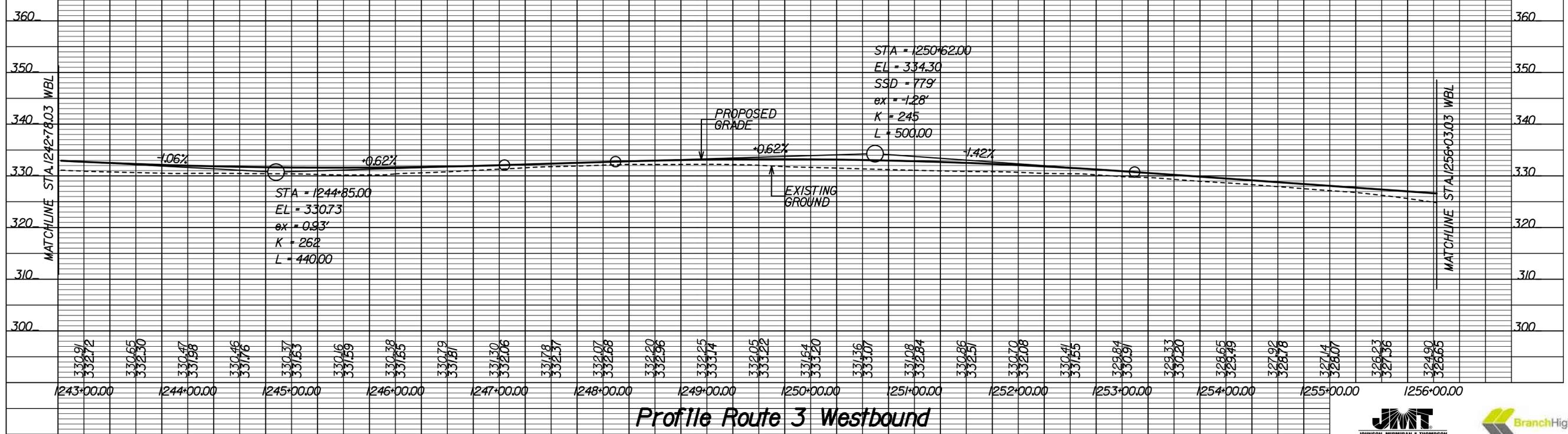
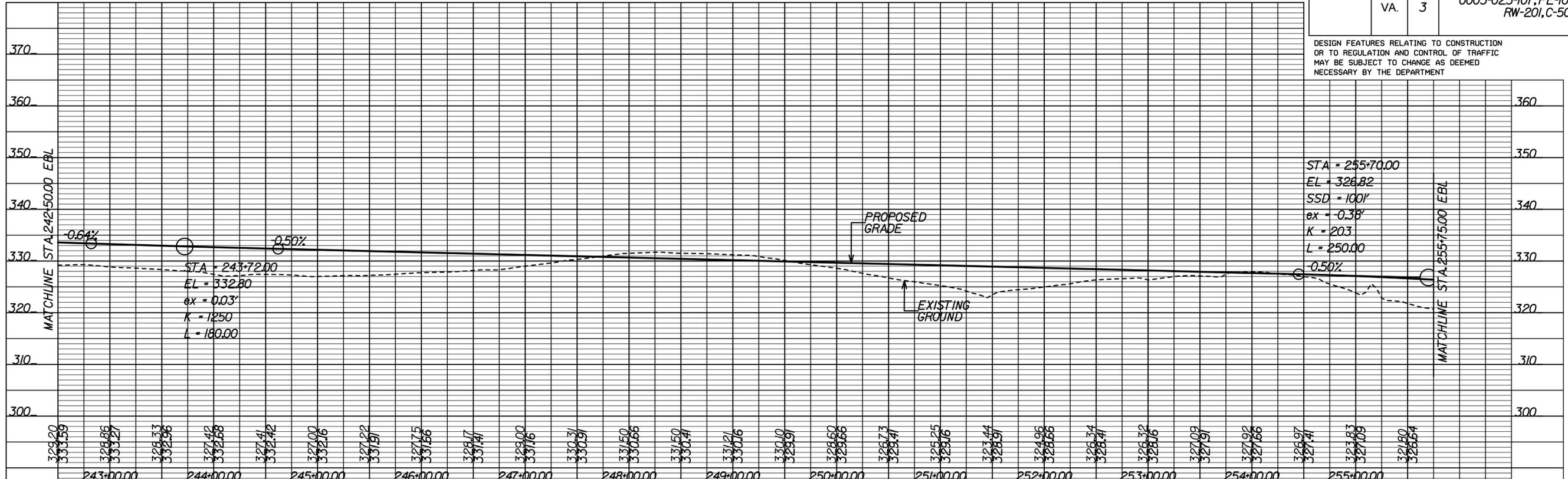
PROJECT 0003-023-107 SHEET NO. 14



PROJECT MANAGER: Harold Jones (540) 829-7320
 SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY: _____
 DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	14A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



PROJECT: 0003-023-107
 SHEET NO.: 14A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	14C



DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Match Line E.B.L. Sta. 242+50 See Sheet No. 13

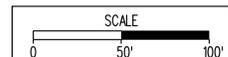
Match Line See Sheet No. 14


 T.M. 54 PCL 16
JOHN M. WARNER
 D.B. 627 Pg. 455
 12.01 Ac.
 PROP. ACQUISITION LINE

PROP. ACQUISITION LINE


 T.M. 54 PCL 20C
**DAVID B. CARTER &
RHODA B. CARTER**
 INSTR. #010002511
 D.B. 400 Pg. 427 Plat
 35.8328 Ac.


 T.M. 54 PCL 14A
**MARKHAM D. SMITH, SCOTT P. SMITH, &
DOUGLAS S. SMITH**
 D.B. 723 Pg. 700
 D.B. 174 Pg. 134 Plat
 30.00 Ac.



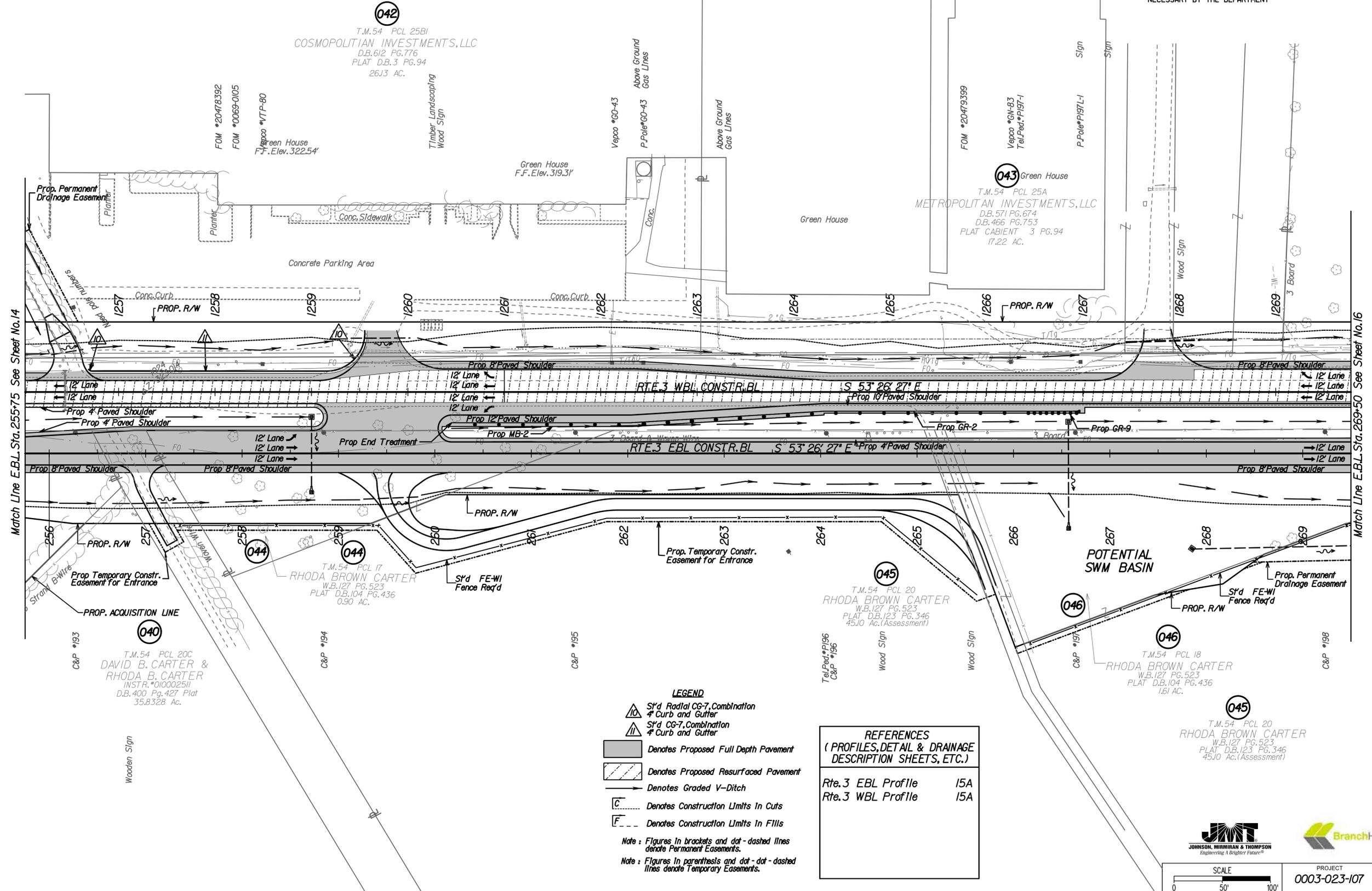
PROJECT
0003-023-107

SHEET NO.
14C

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	15

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Match Line E.B.L. Sta. 255+75 See Sheet No. 14

Match Line E.B.L. Sta. 269+50 See Sheet No. 16

- LEGEND**
- S'd Radial CG-7, Combination Curb and Gutter
 - S'd CG-7, Combination Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills
- Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dot-dashed lines denote Temporary Easements.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte.3 EBL Profile	15A
Rte.3 WBL Profile	15A

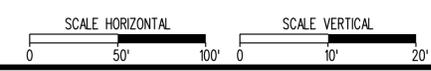
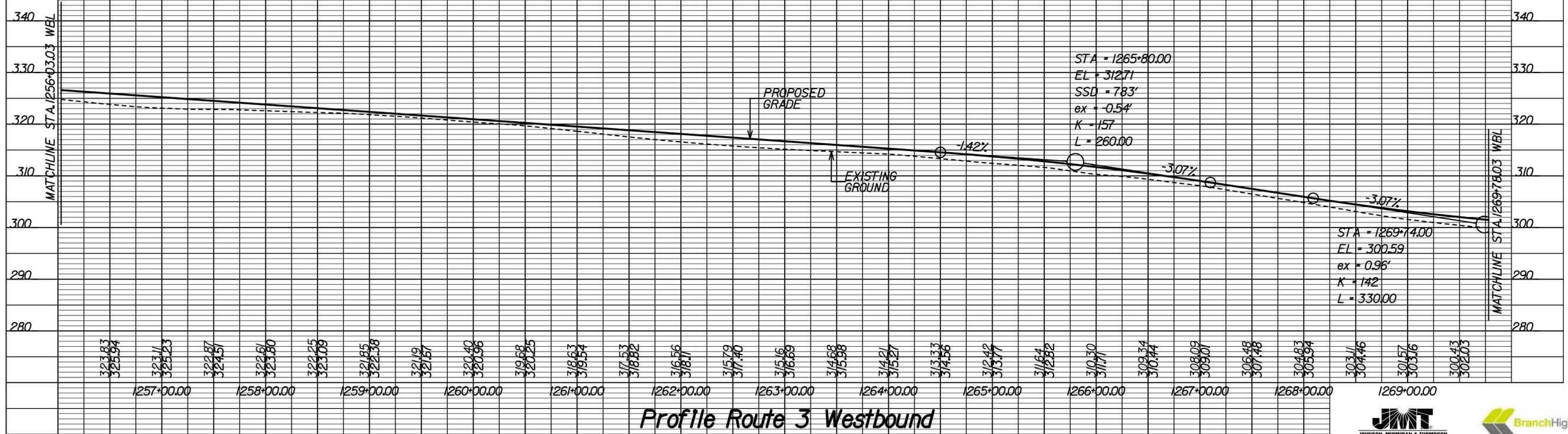
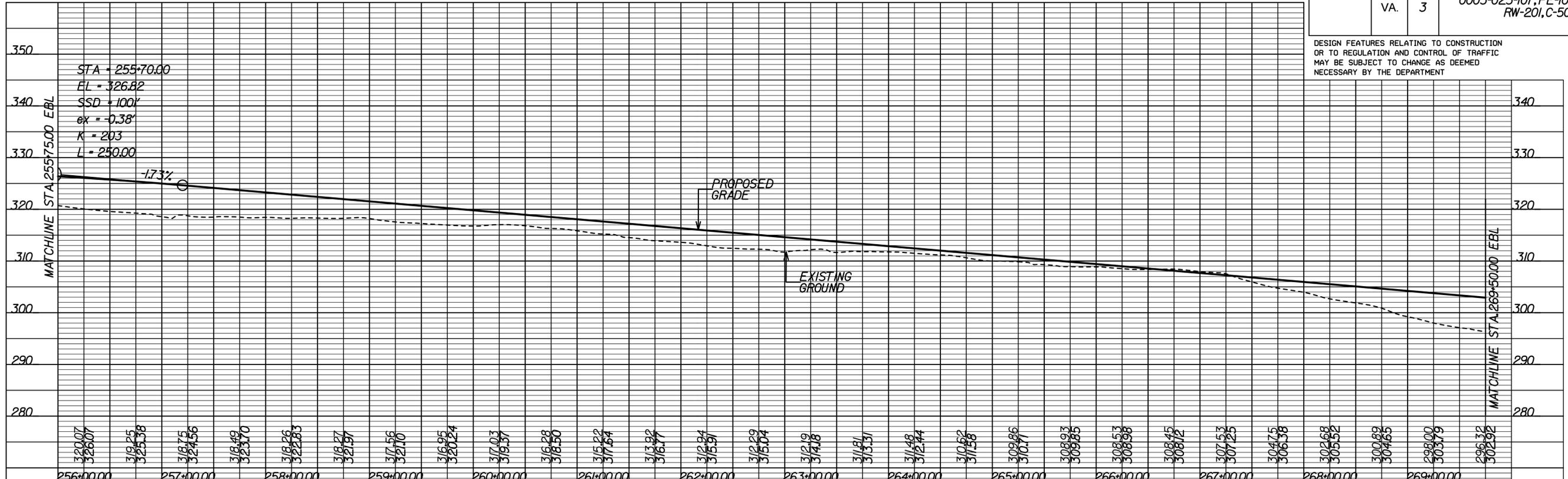


SCALE 0 50' 100'	PROJECT 0003-023-107	SHEET NO. 15
---------------------	-------------------------	-----------------

PROJECT MANAGER: Harold Jones (540) 829-7320
 SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY: _____
 DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	15A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

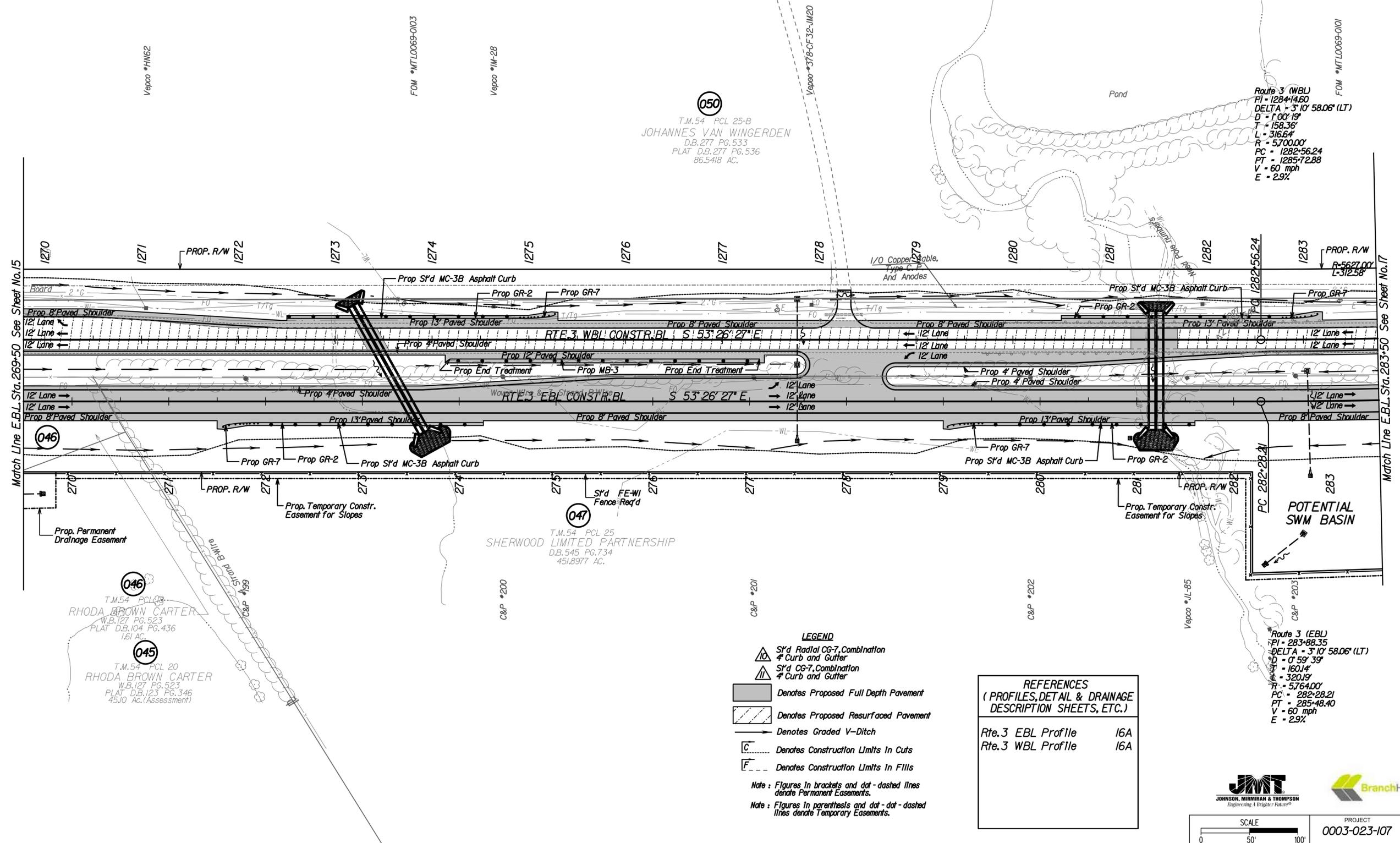


PROJECT: 0003-023-107
 SHEET NO.: 15A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	16

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



050
T.M. 54 PCL 25-B
JOHANNES VAN WINGERDEN
D.B. 277 PG. 533
PLAT D.B. 277 PG. 536
86.5418 AC.

Route 3 (WBL)
PI = 1284+14.60
DELTA = 3° 10' 58.06" (LT)
D = 100' 19"
T = 158.36'
L = 316.64'
R = 5700.00'
PC = 1282+56.24
PT = 1285+72.88
V = 60 mph
E = 2.9%

Match Line E.B.L. Sta. 269+50 See Sheet No. 15

Match Line E.B.L. Sta. 283+50 See Sheet No. 17

046
T.M. 54 PCL 08
RHODA BROWN CARTER
W.B. 127 PG. 523
PLAT D.B. 104 PG. 436
1.61 AC.

045
T.M. 54 PCL 20
RHODA BROWN CARTER
W.B. 127 PG. 523
PLAT D.B. 123 PG. 346
45.10 AC. (Assessment)

047
T.M. 54 PCL 25
SHERWOOD LIMITED PARTNERSHIP
D.B. 545 PG. 734
451.8977 AC.

Route 3 (EBL)
PI = 283+88.35
DELTA = 3° 10' 58.06" (LT)
D = 0' 59' 39"
T = 160.14'
L = 320.19'
R = 5764.00'
PC = 282+28.21
PT = 285+48.40
V = 60 mph
E = 2.9%

- LEGEND**
- S/d Radial CG-7, Combination # Curb and Gutter
 - S/d CG-7, Combination # Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits in Cuts
 - Denotes Construction Limits in Fills

Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dot-dashed lines denote Temporary Easements.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte. 3 EBL Profile	16A
Rte. 3 WBL Profile	16A

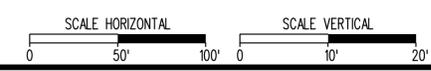
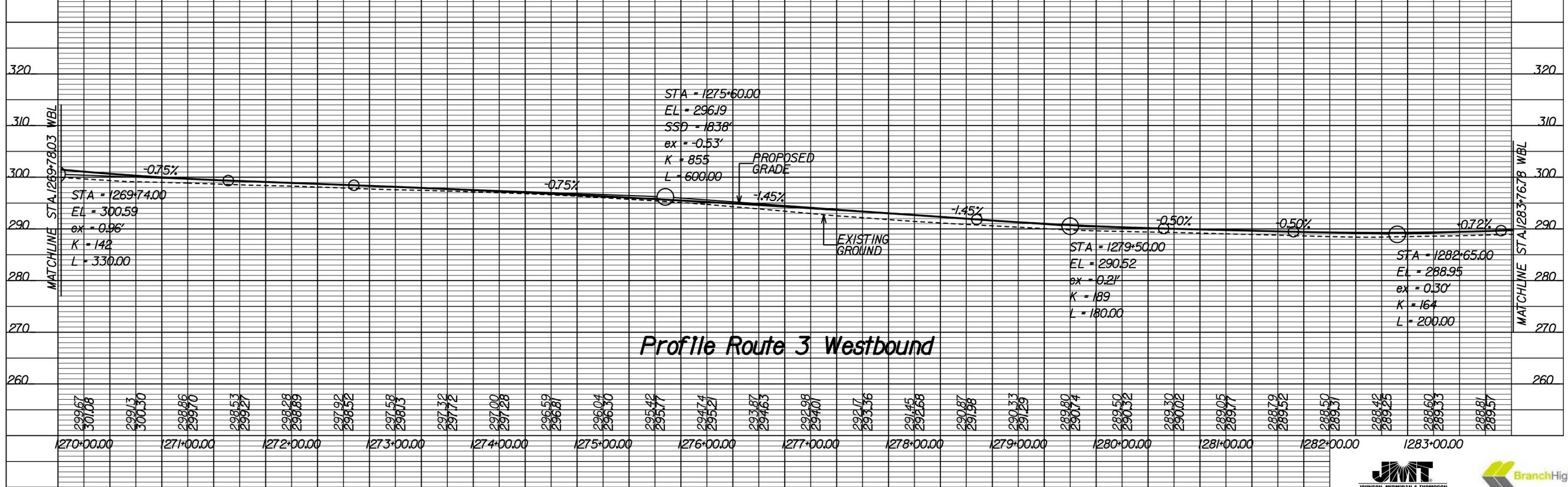
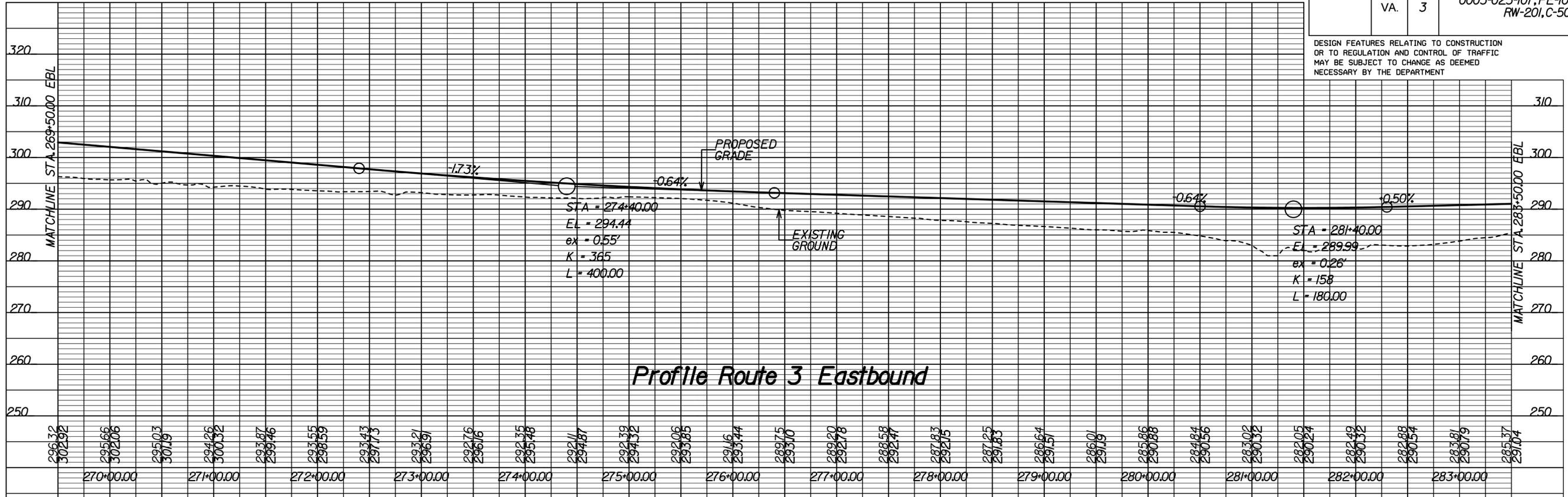


SCALE 0 50' 100'	PROJECT 0003-023-107	SHEET NO. 16
---------------------	-------------------------	-----------------

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY
DESIGNED BY

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	16A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

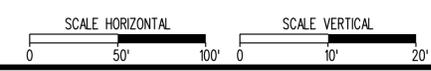
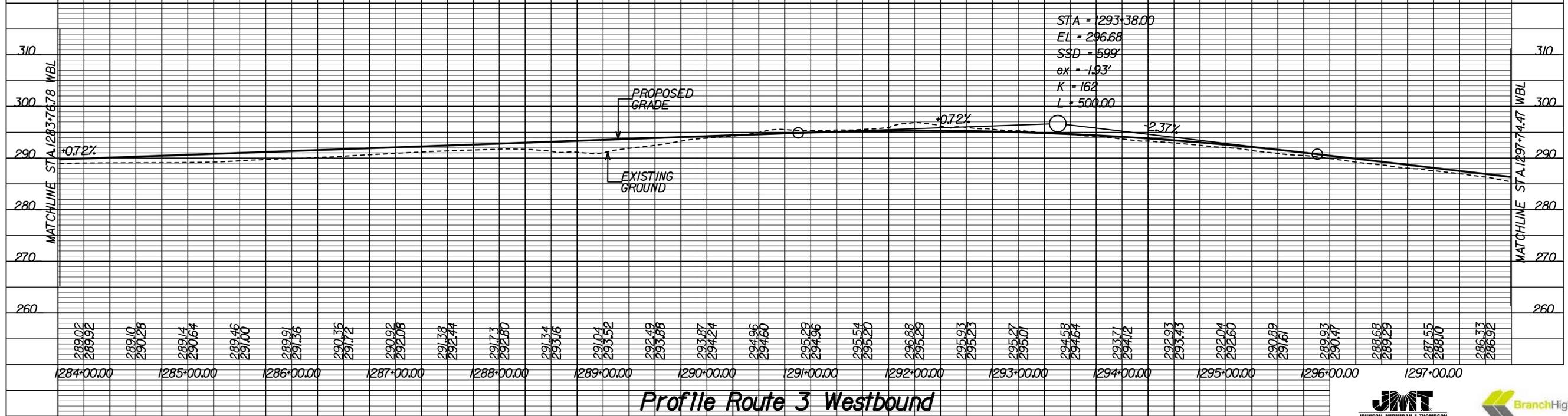
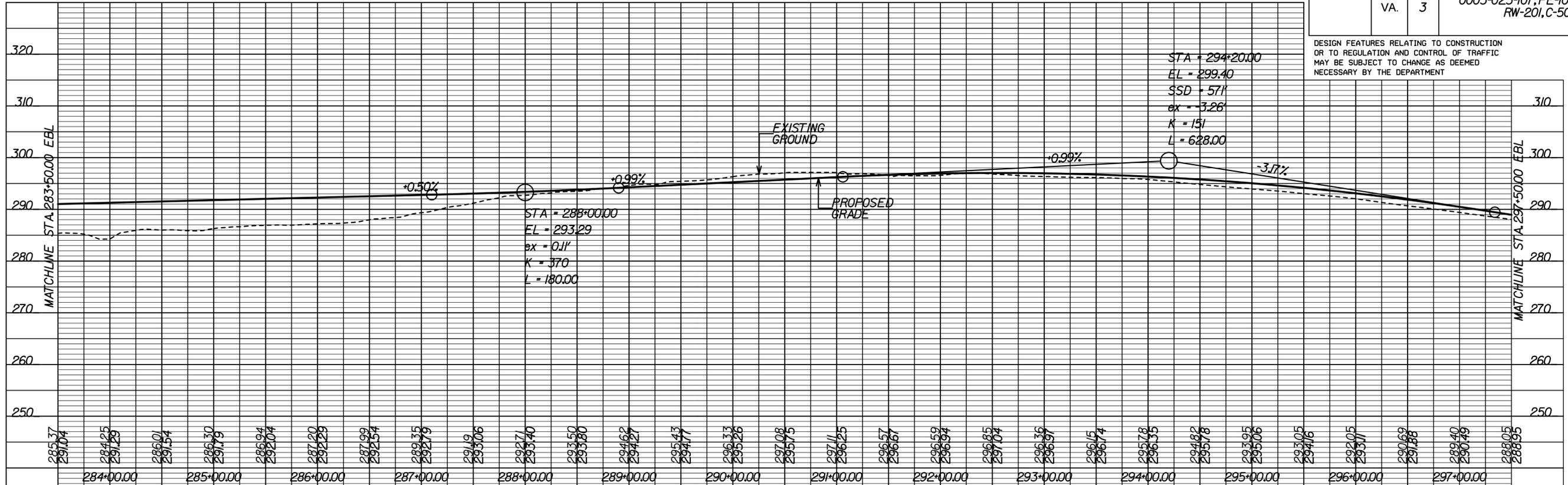


PROJECT 0003-023-107
SHEET NO. 16A

PROJECT MANAGER: Harold Jones (540) 829-7320
 SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY: _____
 DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	17A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

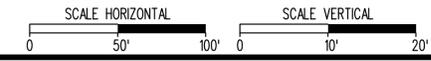
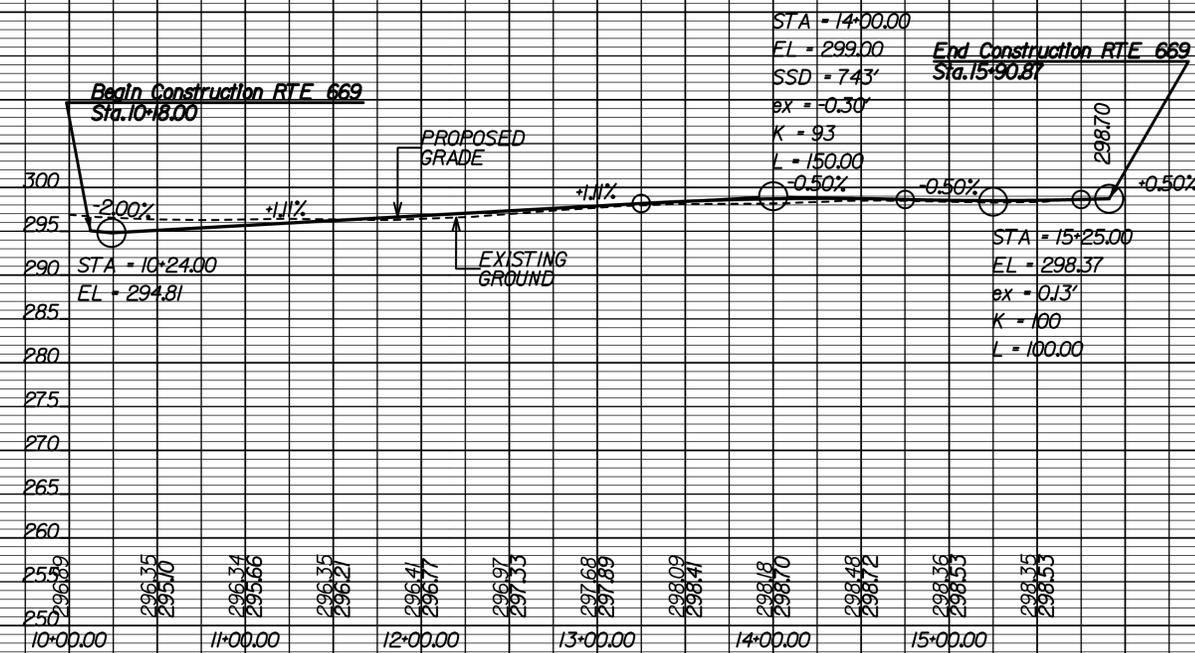


PROJECT: 0003-023-107
 SHEET NO.: 17A

PROJECT MANAGER: Harold Jones (540) 829-7320
 SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY: _____
 DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	17B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

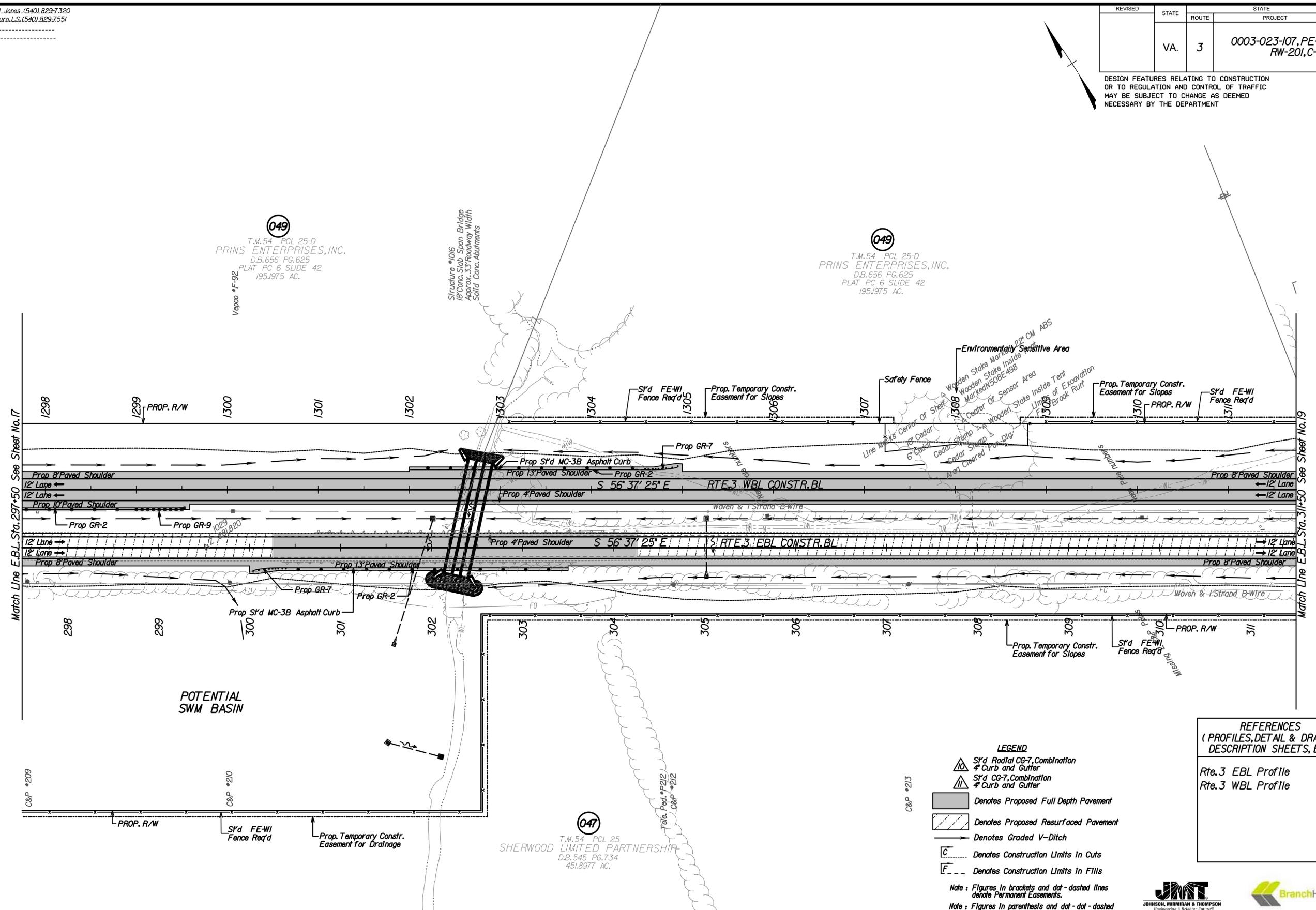


PROJECT: 0003-023-107
 SHEET NO.: 17B

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	18

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



049
T.M. 54 PCL 25-D
PRINS ENTERPRISES, INC.
D.B. 656 PG. 625
PLAT PC 6 SLIDE 42
195.1975 AC.

049
T.M. 54 PCL 25-D
PRINS ENTERPRISES, INC.
D.B. 656 PG. 625
PLAT PC 6 SLIDE 42
195.1975 AC.

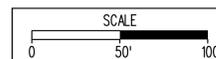
047
T.M. 54 PCL 25
SHERWOOD LIMITED PARTNERSHIP
D.B. 545 PG. 734
451.8977 AC.

- LEGEND**
- S'd Radial CG-7, Combination # Curb and Gutter
 - S'd CG-7, Combination # Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits in Cuts
 - Denotes Construction Limits in Fills

Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dot-dashed lines denote Temporary Easements.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte. 3 EBL Profile	18A
Rte. 3 WBL Profile	18A



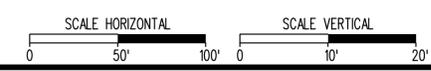
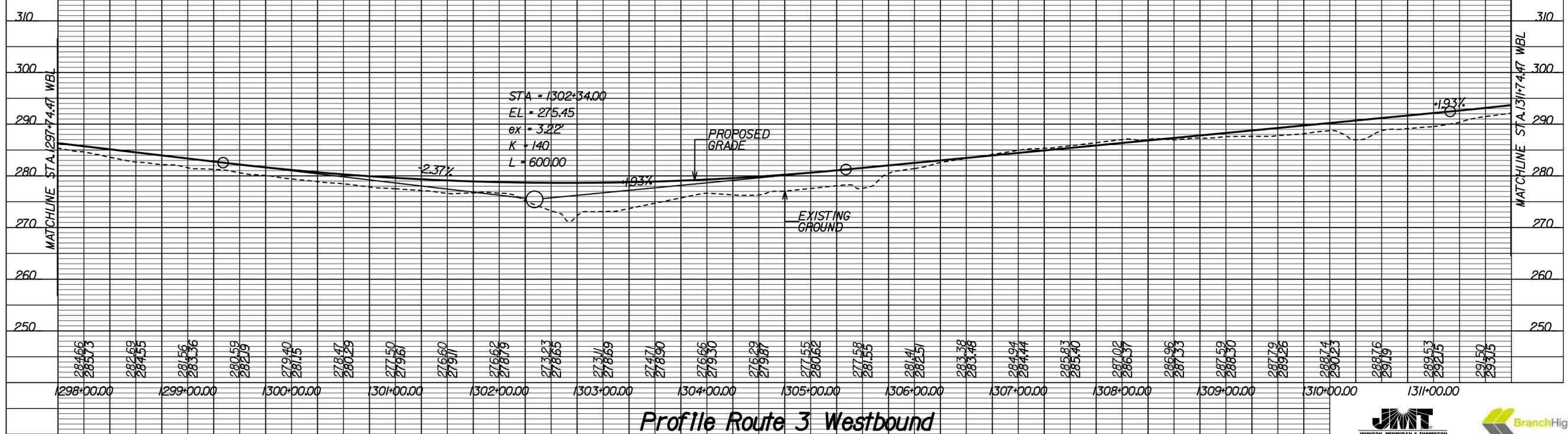
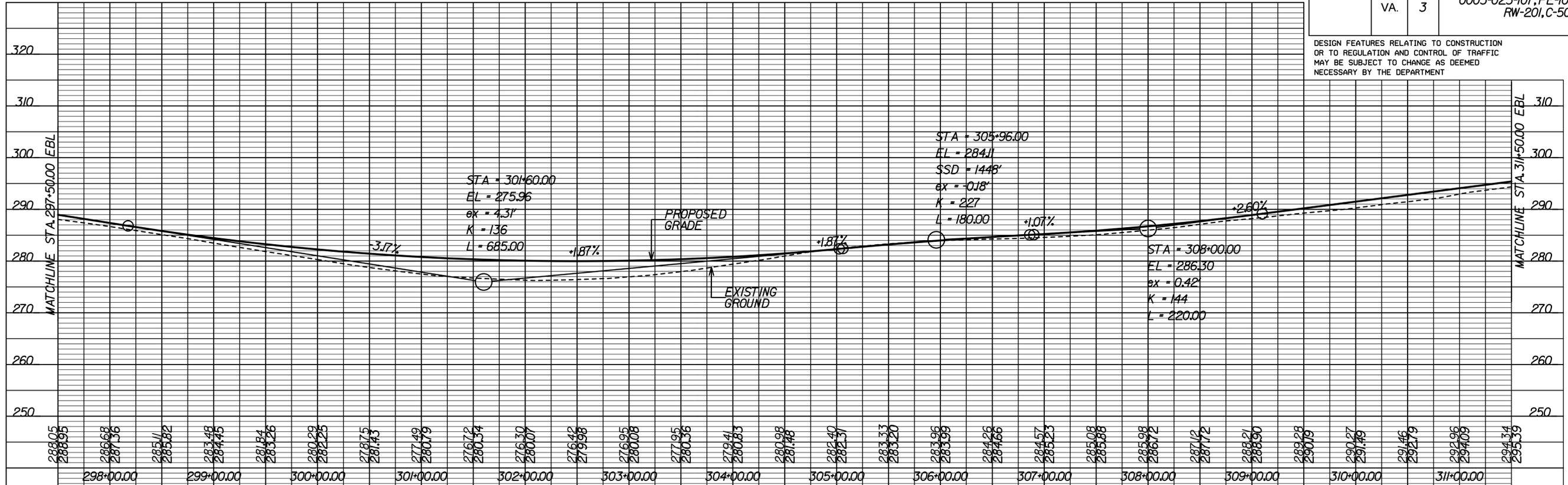
PROJECT
0003-023-107

SHEET NO.
18

PROJECT MANAGER: Harold Jones (540) 829-7320
 SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
 DESIGN SUPERVISED BY: _____
 DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	18A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

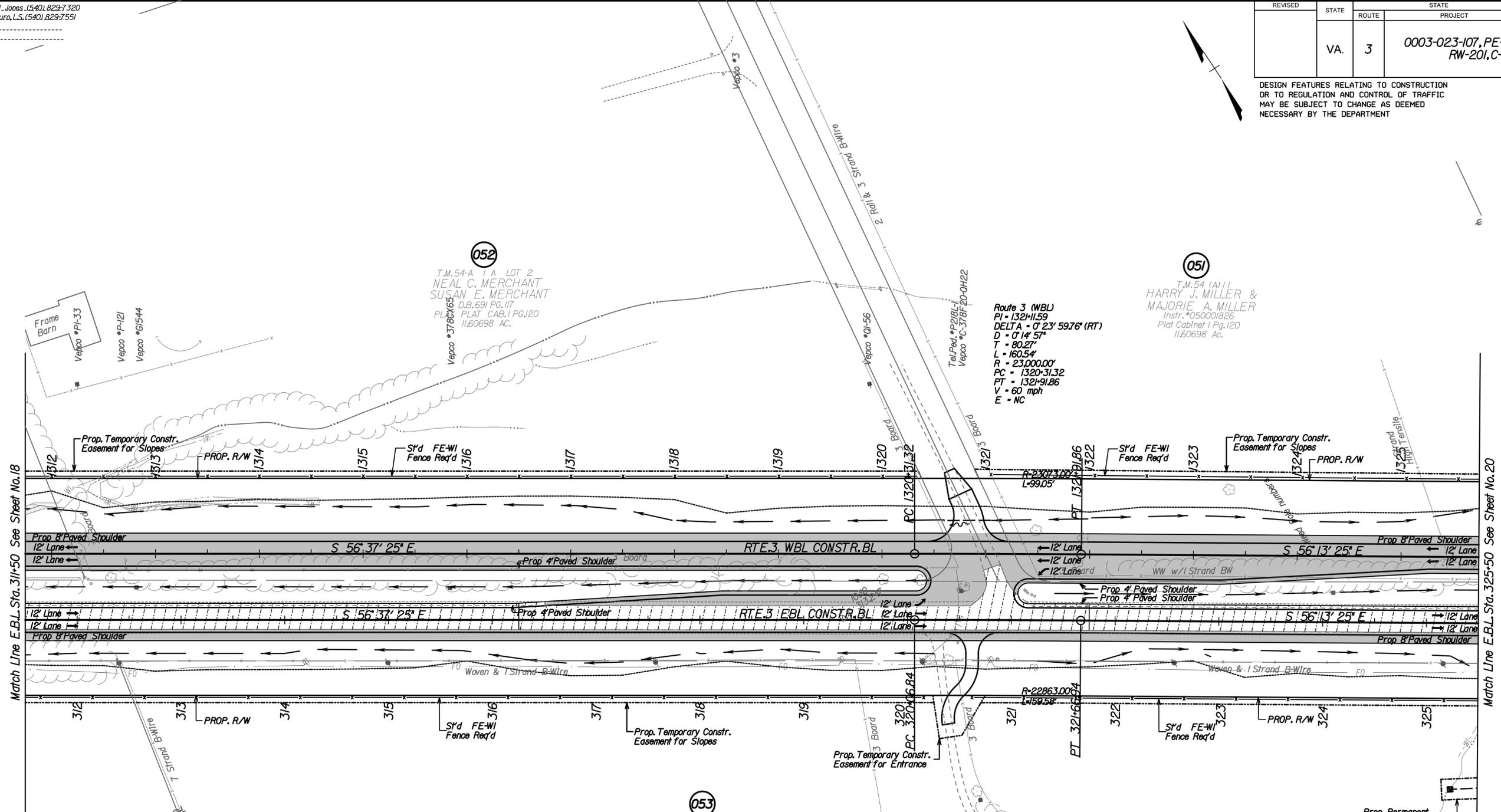


PROJECT: 0003-023-107
 SHEET NO.: 18A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	19

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



052
T.M.54-A I.A LOT 2
NEAL C. MERCHANT
SUSAN E. MERCHANT
D.B.691 PG.117
PLAT CAB.1 PG.120
11.60698 AC.

051
T.M.54 (A) 11
HARRY J. MILLER &
MAJORIE A. MILLER
Instr.*050001826
Plat Cabinet 1 Pg.120
11.60698 Ac.

Route 3 (WBL)
PI = 1321+11.59
DELTA = 0° 23' 59.76" (RT)
D = 0' 14' 57"
T = 80.27'
L = 160.54'
R = 23,000.00'
PC = 1320+31.32
PT = 1321+91.86
V = 60 mph
E = NC

053
T.M.54 PCL 27
WALTER E. JOHNSTON, Jr.
INST.R.*100000218 W/II
69.7228 AC.

047
T.M.54 PCL 25
SHERWOOD LIMITED PARTNERSHIP
D.B.545 PG.734
451.8977 AC.

- LEGEND**
- S'd Radial CG-7, Combination 4' Curb and Gutter
 - S'd CG-7, Combination 4' Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits in Cuts
 - Denotes Construction Limits in Fills
- Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dashed lines denote Temporary Easements.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte.3 EBL Profile	19A
Rte.3 WBL Profile	19A

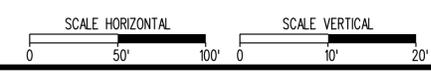
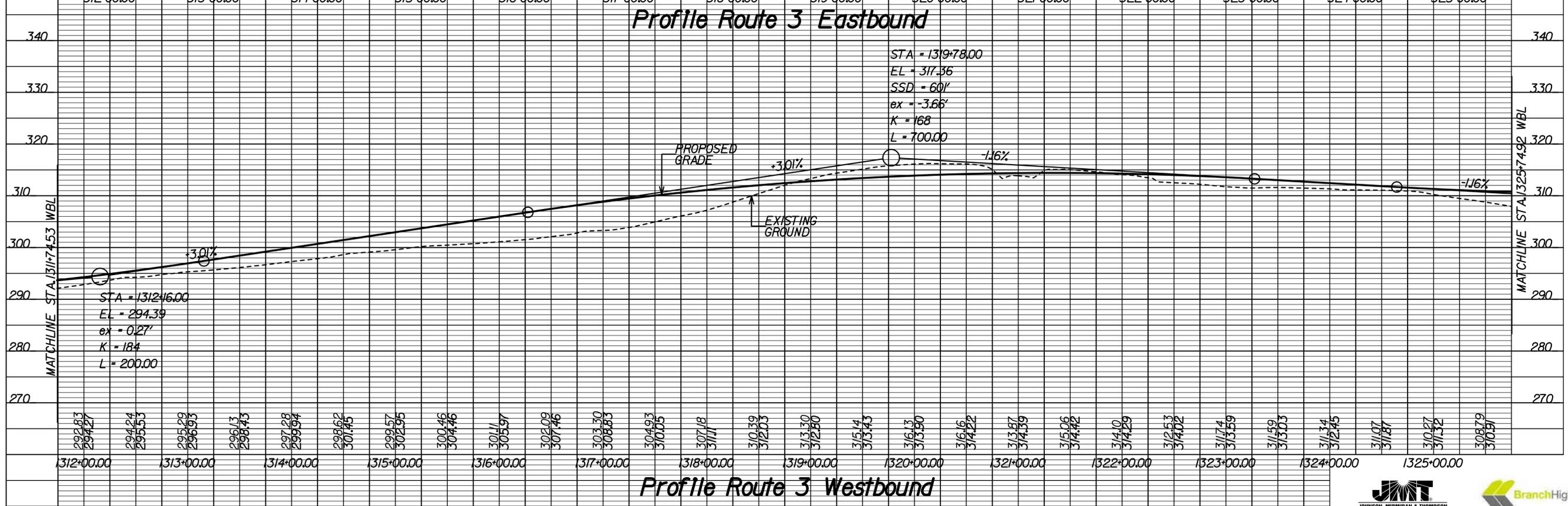
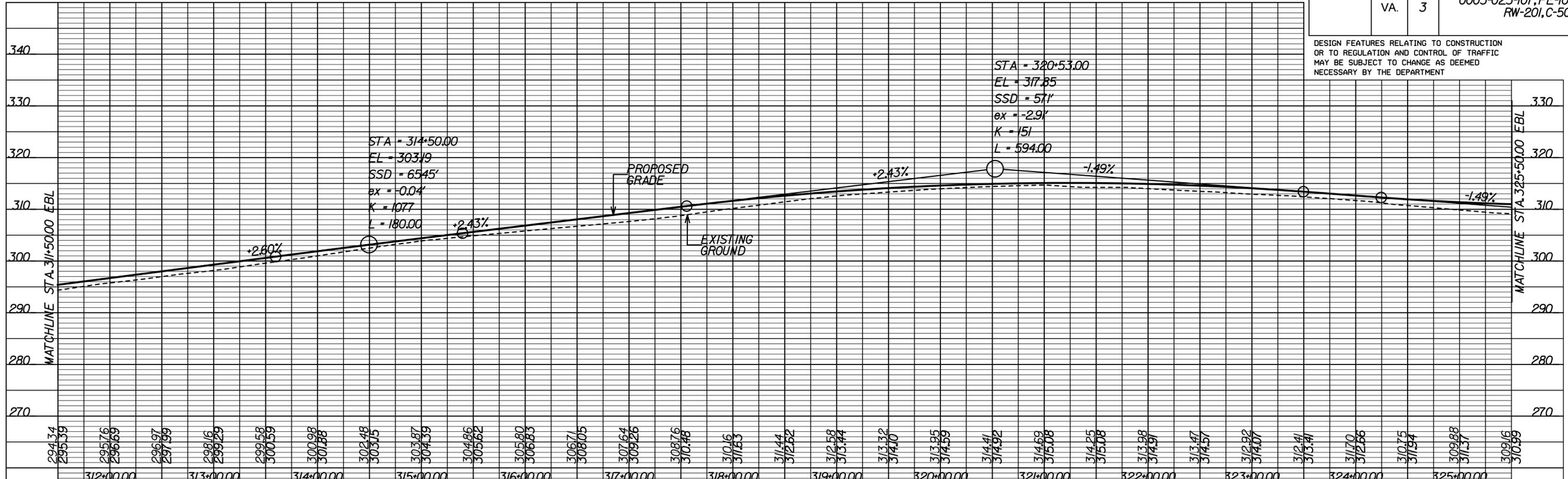


SCALE 0 50' 100'	PROJECT 0003-023-107	SHEET NO. 19
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PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	19A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



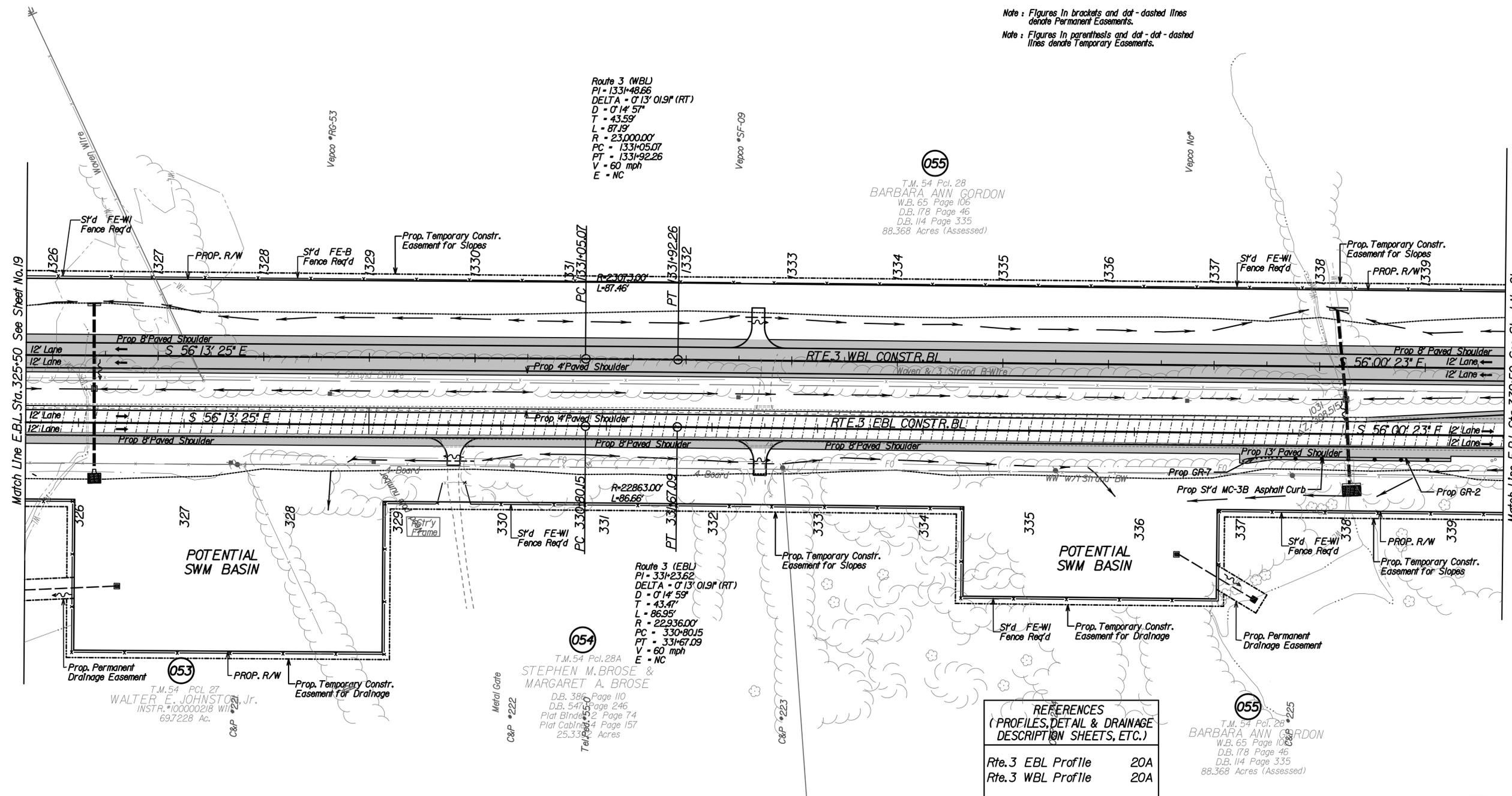
PROJECT: 0003-023-107
SHEET NO.: 19A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	20

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

- LEGEND**
- S'd Radial CG-7, Combination 4' Curb and Gutter
 - S'd CG-7, Combination 4' Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits in Cuts
 - Denotes Construction Limits in Fills
- Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parentheses and dot-dashed lines denote Temporary Easements.



REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte.3 EBL Profile	20A
Rte.3 WBL Profile	20A

JMT
JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future®

BranchHighways

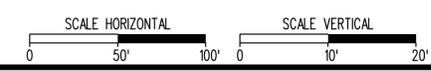
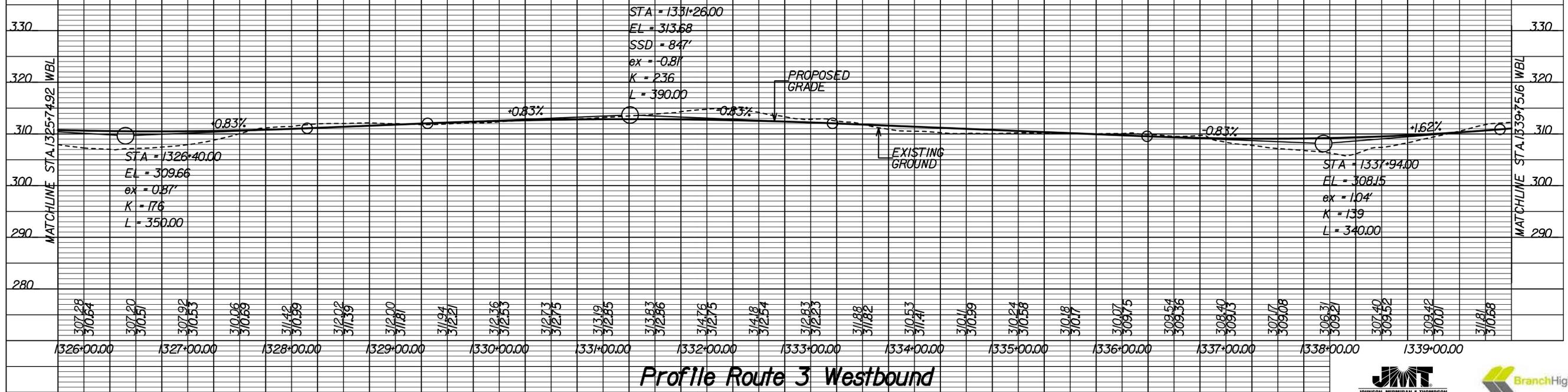
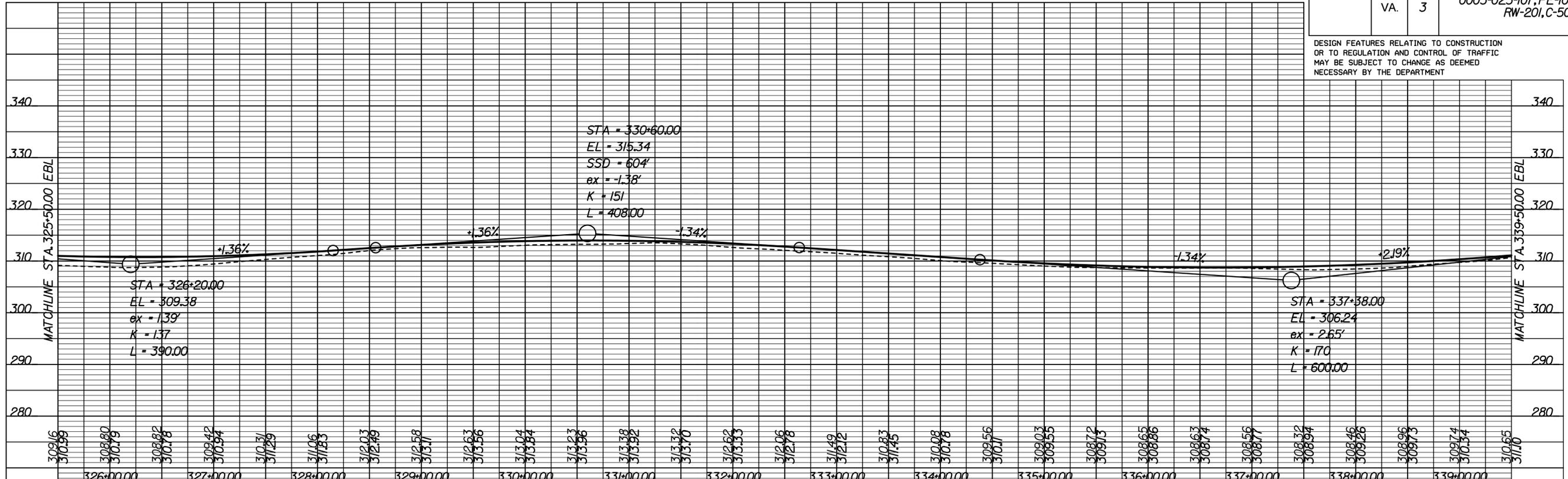
SCALE: 0 50' 100'

PROJECT: 0003-023-107
SHEET NO.: 20

PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	20A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



PROJECT: 0003-023-107
SHEET NO.: 20A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY
DESIGNED BY

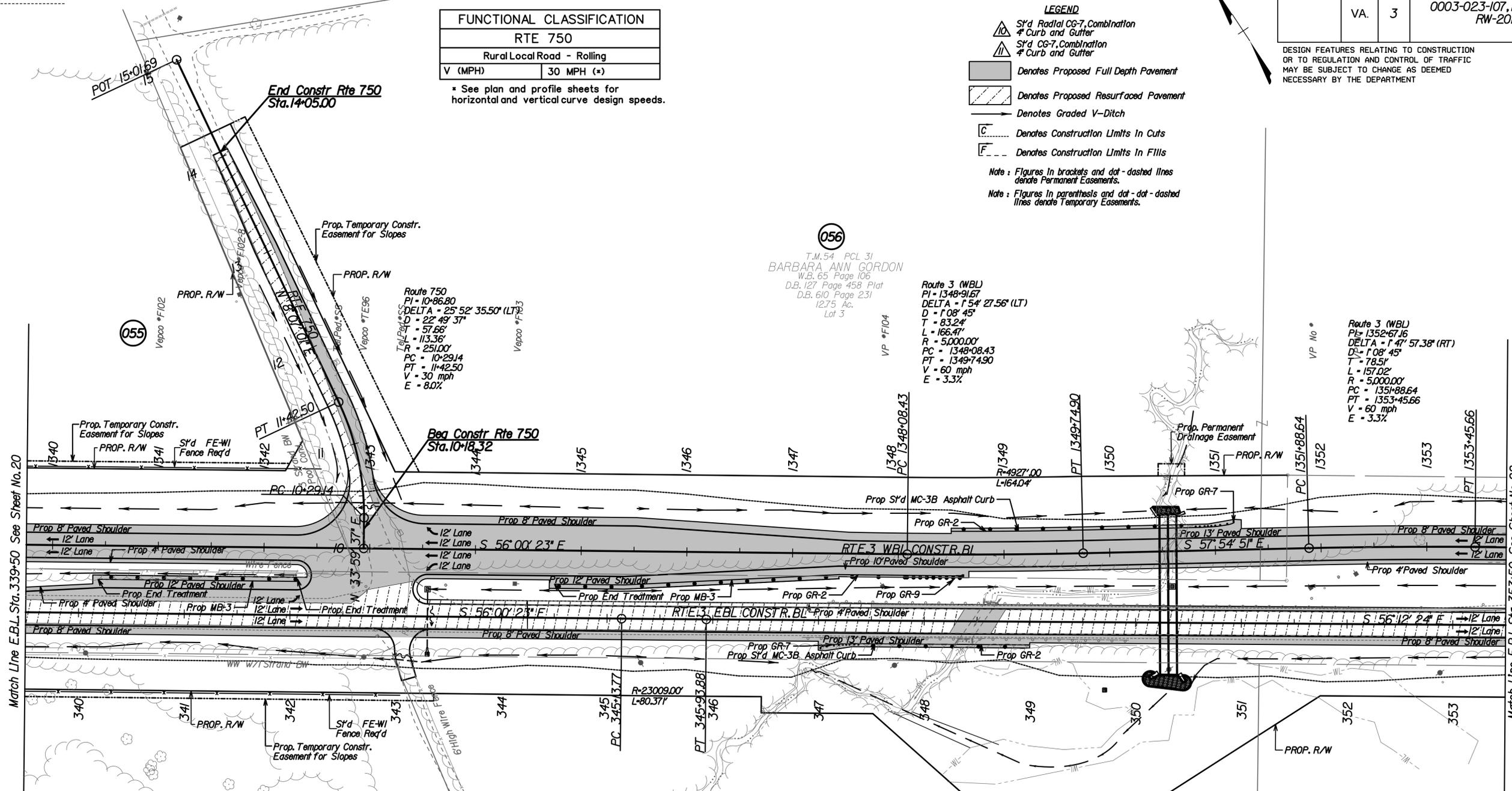
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	21

FUNCTIONAL CLASSIFICATION	
RTE 750	
Rural Local Road - Rolling	
V (MPH)	30 MPH (*)

* See plan and profile sheets for horizontal and vertical curve design speeds.

- LEGEND**
- S'd Radial CG-7, Combination # Curb and Gutter
 - S'd CG-7, Combination # Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills
- Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dot-dashed lines denote Temporary Easements.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



056
T.M. 54 PCL 31
BARBARA ANN GORDON
W.B. 65 Page 106
D.B. 127 Page 458 Plat
D.B. 610 Page 231
12.75 Ac.
Lot 3

Route 3 (WBL)
PI = 1348+91.67
DELTA = 1° 54' 27.56" (LT)
D = 1' 08' 45"
T = 83.24'
L = 166.47'
R = 5,000.00'
PC = 1348+08.43
PT = 1349+74.90
V = 60 mph
E = 3.3%

Route 3 (WBL)
PI = 1352+67.16
DELTA = 1° 47' 57.38" (RT)
D = 1' 08' 45"
T = 78.51'
L = 157.02'
R = 5,000.00'
PC = 1351+88.64
PT = 1353+45.66
V = 60 mph
E = 3.3%

057
T.M. 54 PCL 31A
BARBARA ANN GORDON
Instr. #050013157
10.4 Ac.
Lot 1

055
T.M. 54 PCL 28
BARBARA ANN GORDON
W.B. 65 Page 106
D.B. 178 Page 46
D.B. 114 Page 335
88.368 Acres (Assess)

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte. 3 EBL Profile	21A
Rte. 3 WBL Profile	21A
Rte. 750 Profile	21B

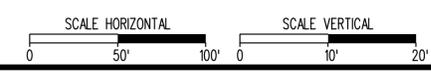
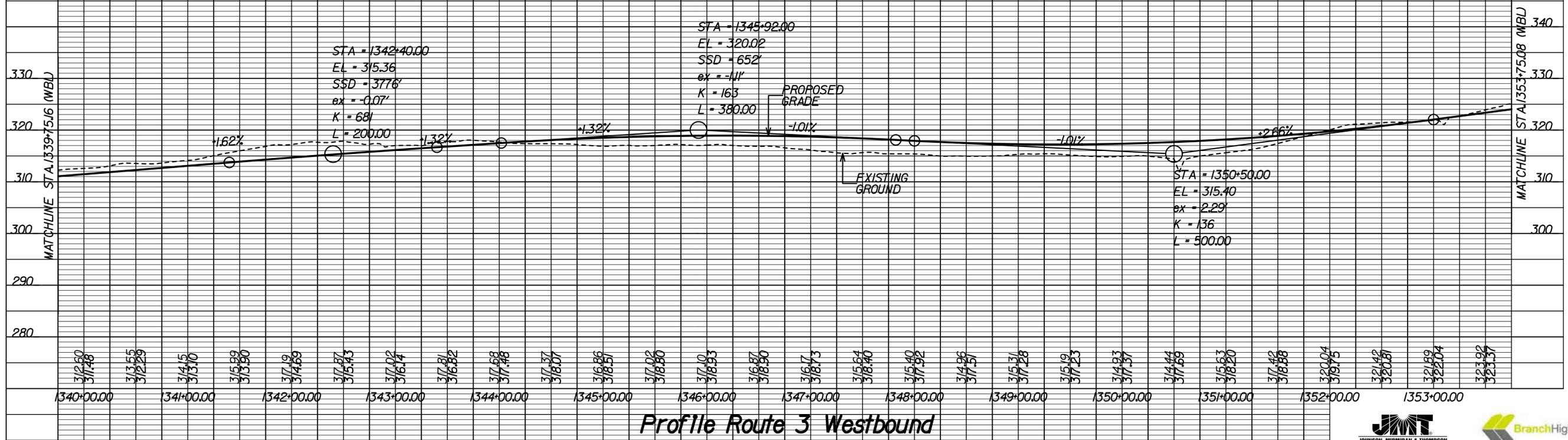
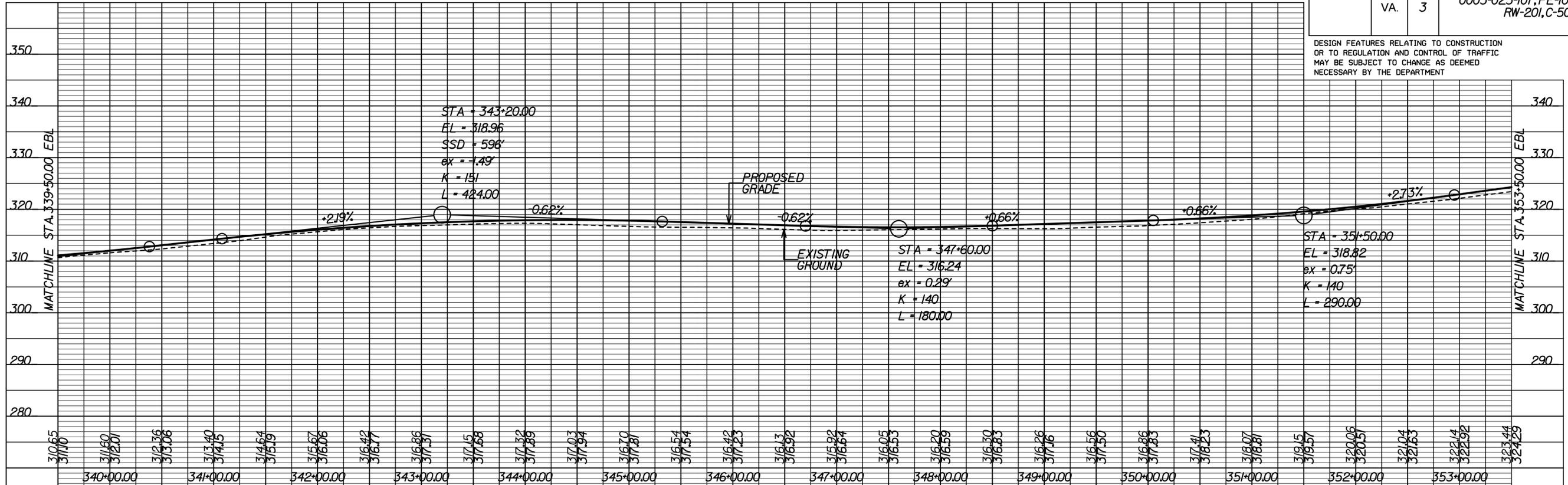


SCALE	PROJECT	SHEET NO.
0 50' 100'	0003-023-107	21

PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	21A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

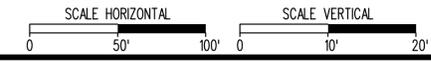
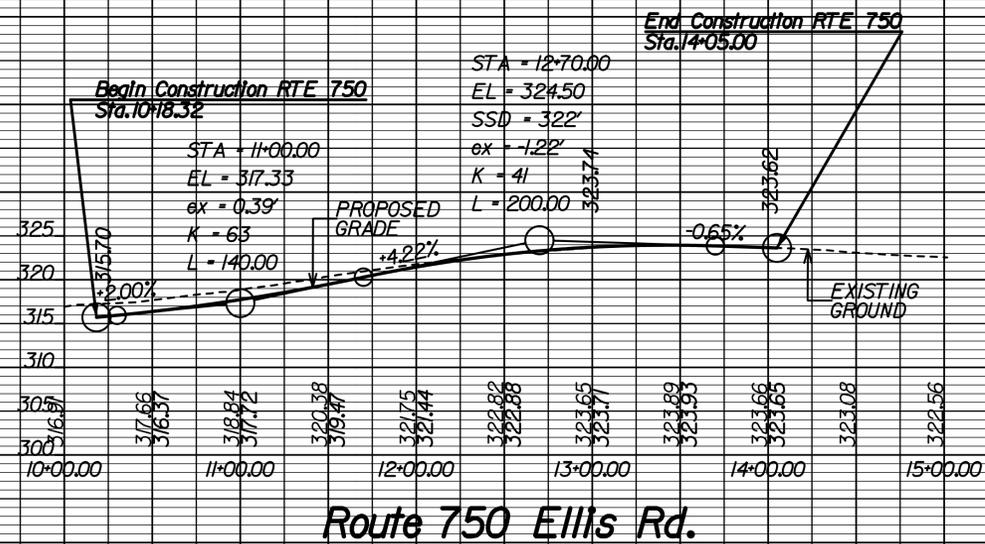


PROJECT: 0003-023-107
SHEET NO.: 21A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	21B

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

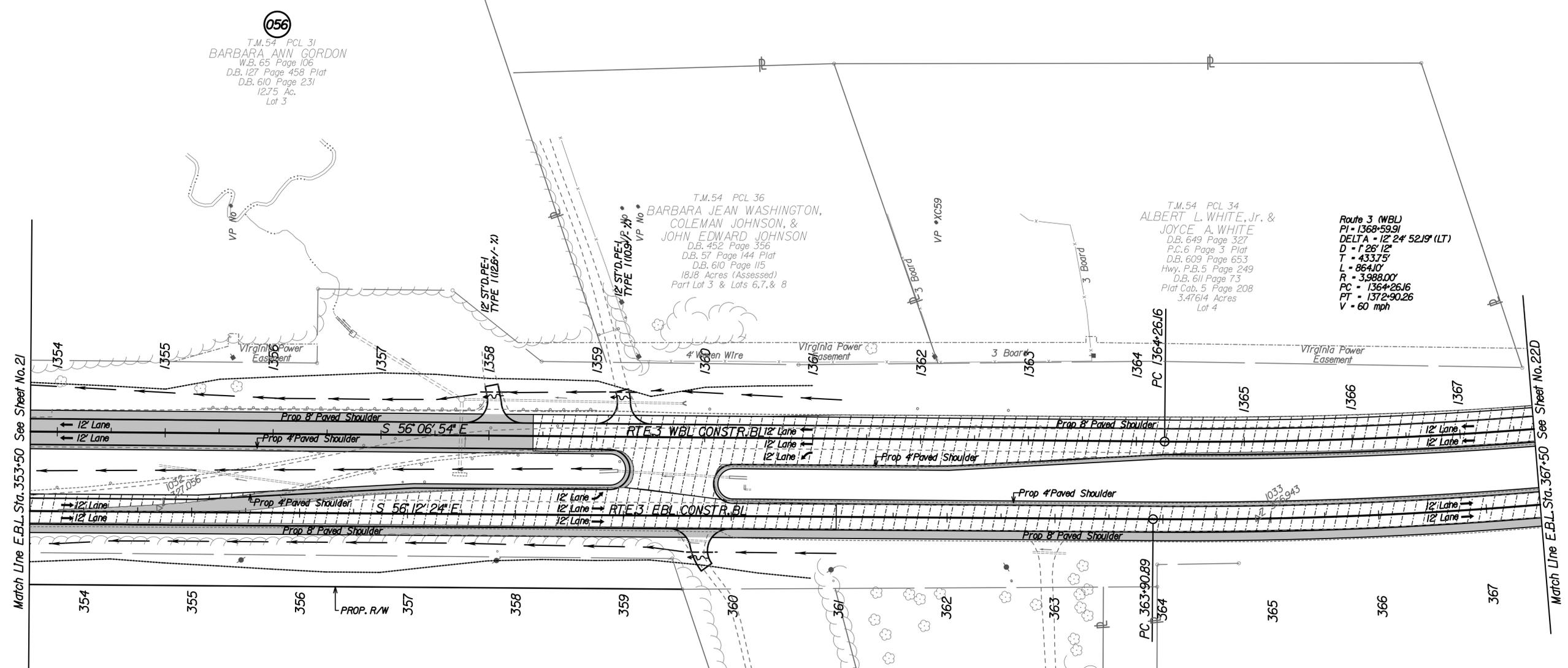


PROJECT 0003-023-107
SHEET NO. 21B

PROJECT MANAGER: Harold Jones (540) 829-7320
SURVEYED BY: Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY: _____
DESIGNED BY: _____

REVISED	STATE	ROUTE	PROJECT	STATE	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501		22

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Match Line E.B.L. Sta. 353+50 See Sheet No. 21

Match Line E.B.L. Sta. 367+50 See Sheet No. 22D

056
T.M. 54 PCL 31
BARBARA ANN GORDON
W.B. 65 Page 106
D.B. 127 Page 458 Plat
D.B. 610 Page 231
12.75 Ac.
Lot 3

T.M. 54 PCL 36
BARBARA JEAN WASHINGTON,
COLEMAN JOHNSON, &
JOHN EDWARD JOHNSON
D.B. 452 Page 356
D.B. 57 Page 144 Plat
D.B. 610 Page 115
18.8 Acres (Assessed)
Part Lot 3 & Lots 6, 7, & 8

T.M. 54 PCL 34
ALBERT L. WHITE, JR. &
JOYCE A. WHITE
D.B. 649 Page 327
P.C. 6 Page 3 Plat
D.B. 609 Page 653
Hwy. P.B. 5 Page 249
D.B. 611 Page 73
Plat Cdb. 5 Page 208
3.47614 Acres
Lot 4

Route 3 (WBL)
PI = 1368+59.91
DELTA = 12' 24" 52.19' (LT)
D = 1' 26" 12"
T = 433.75'
L = 864.10'
R = 3,988.00'
PC = 1364+26.16
PT = 1372+90.26
V = 60 mph

058
T.M. 54 PCL 31A
BARBARA ANN GORDON
Instr. *050013157
14.3 Ac.
Lot 2

T.M. 54 PCL 32
RAY M. BENNETT
D.B. 297 Page 289
Plat Binder 6 Page 80
D.B. 617 Page 751
Hwy. P.B. 6 Page 39 & 40
3.9140 Acres

T.M. 54 PCL 36A
BARBARA JEAN WASHINGTON,
COLEMAN JOHNSON, &
JOHN EDWARD JOHNSON
D.B. 452 Page 356
D.B. 57 Page 144 Plat
D.B. 610 Page 115
18.8 Acres (Assessed)
Part Lot 3 & Lots 6, 7, & 8

- LEGEND**
- S't'd Radial CG-7, Combination Curb and Gutter
 - S't'd CG-7, Combination Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills
- Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dot-dashed lines denote Temporary Easements.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte. 3 EBL Profile	22A
Rte. 3 WBL Profile	22A

JMT JOHNSON, MIRMIRAN & THOMPSON
Engineering A Brighter Future[®]

BranchHighways

SCALE: 0 50' 100'

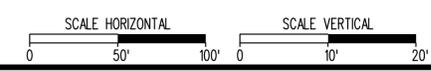
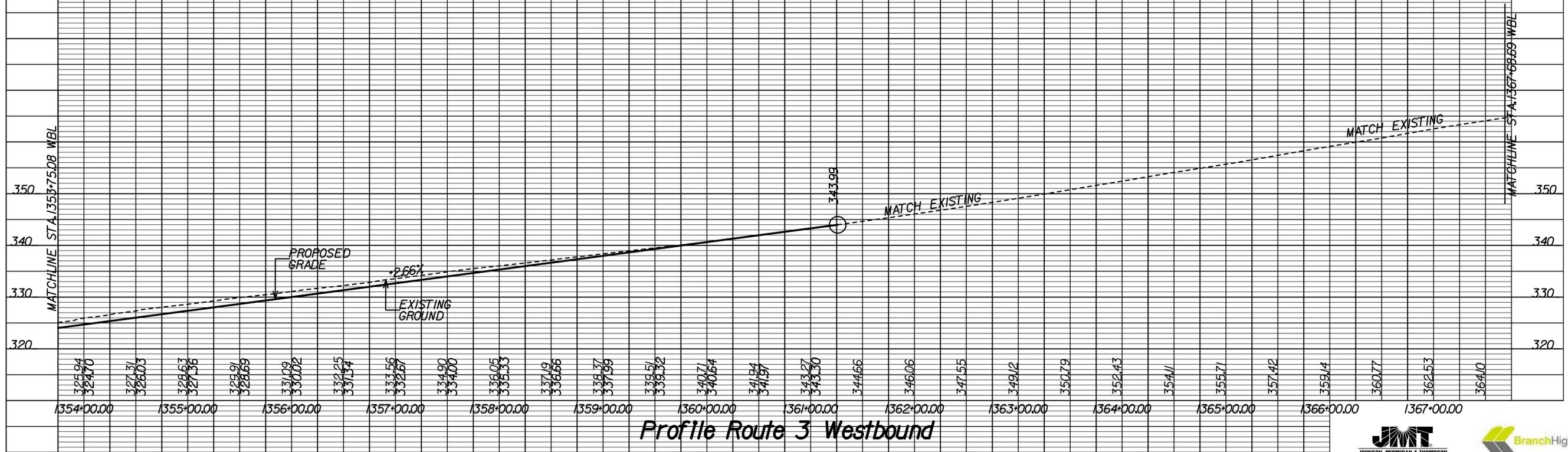
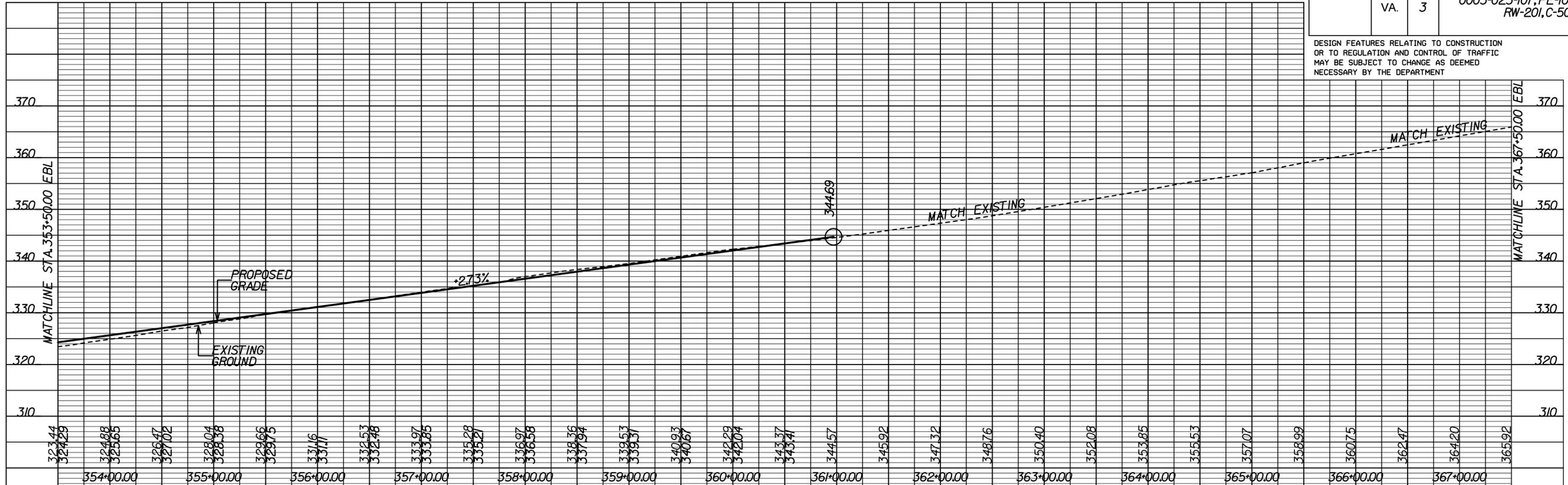
PROJECT: 0003-023-107

SHEET NO.: 22

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY
DESIGNED BY

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	22A

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

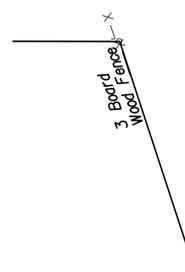
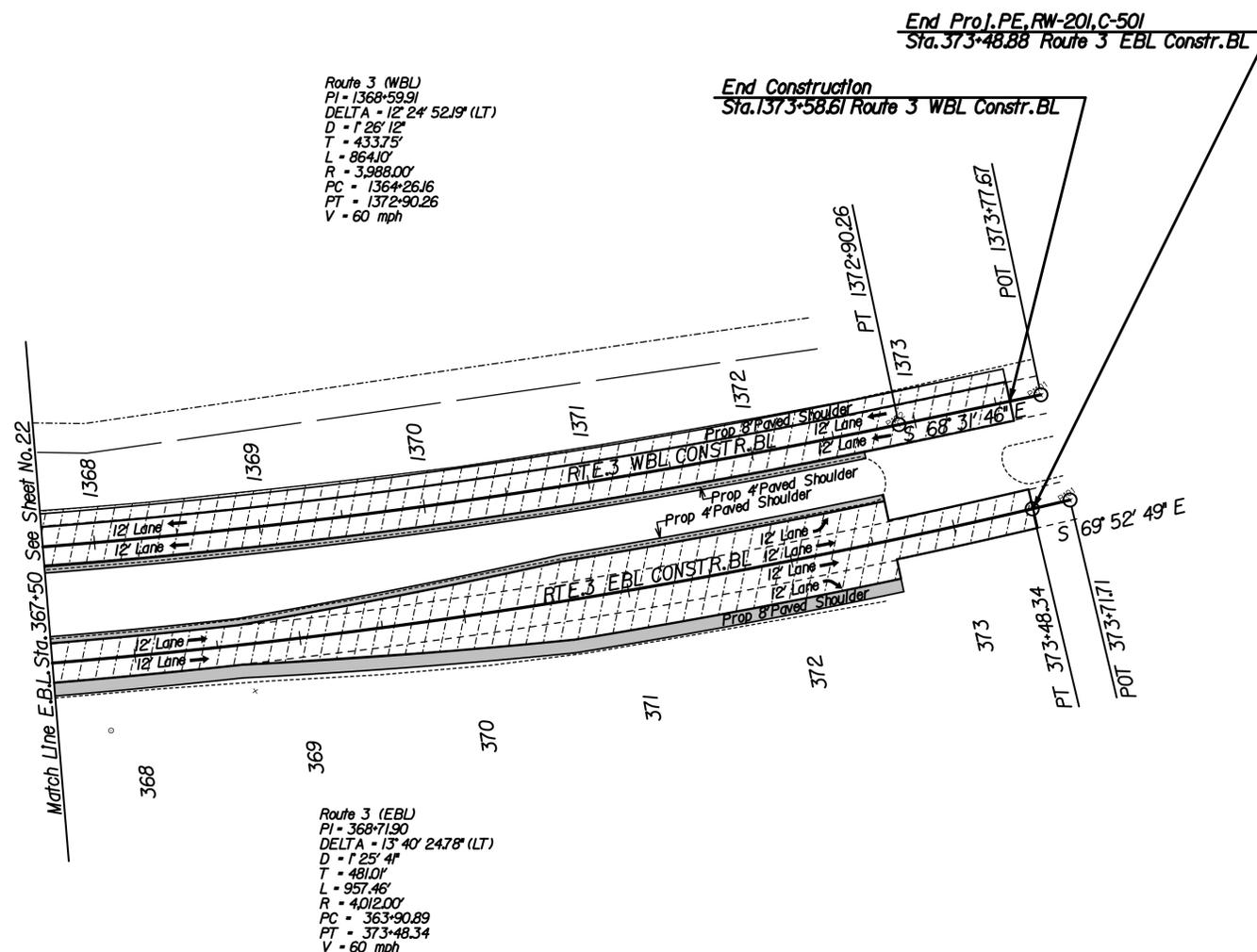


PROJECT 0003-023-107
SHEET NO. 22A

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	3	0003-023-107, PE-101, RW-201, C-501	22D

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



- LEGEND**
- 10' Radial CG-7, Combination # Curb and Gutter
 - 11' CG-7, Combination # Curb and Gutter
 - Denotes Proposed Full Depth Pavement
 - Denotes Proposed Resurfaced Pavement
 - Denotes Graded V-Ditch
 - Denotes Construction Limits in Cuts
 - Denotes Construction Limits in Fills
- Note: Figures in brackets and dot-dashed lines denote Permanent Easements.
Note: Figures in parenthesis and dot-dashed lines denote Temporary Easements.

REFERENCES
(PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Rte. 3 WBL Profile	22E
Rte. 3 EBL Profile	22E

SCALE: 0 50' 100'

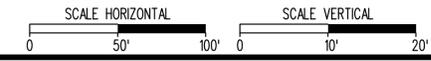
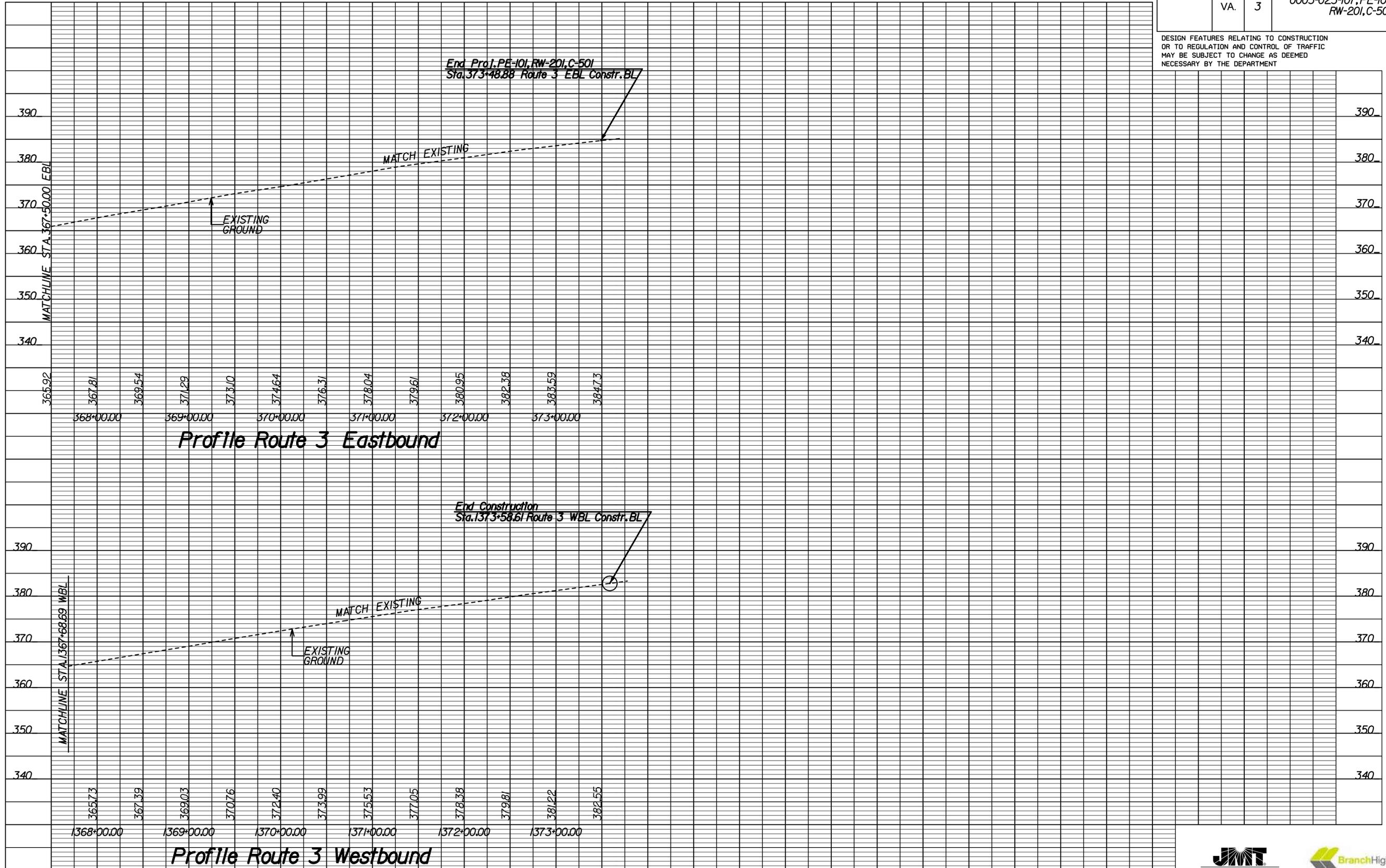
PROJECT: 0003-023-107

SHEET NO.: 22D

PROJECT MANAGER Harold Jones (540) 829-7320
SURVEYED BY Michael Mauro, L.S. (540) 829-7551
DESIGN SUPERVISED BY _____
DESIGNED BY _____

REVISED	STATE	ROUTE	STATE	PROJECT	SHEET NO.
	VA.	3		0003-023-107, PE-101, RW-201, C-501	22E

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



PROJECT 0003-023-107
SHEET NO. 22E

SECTION 4.2.1.3.1 PROPOSAL SCHEDULE



ID	Task Name	Duration	Start	Finish	3rd Quarter			1st Quarter			3rd Quarter			1st Quarter			3rd Quarter			1st Quarter			3rd Quarter			1st Quarter					
					Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May			
					Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May			
0	Route 3 Widening	903 days	Mon 11/18/13	Thu 5/4/17	[Gantt bar from 11/18 to 5/4/17]																										
1	1 Contract NTP	0 days	Mon 11/18/13	Mon 11/18/13	11/18 [Milestone diamond]																										
2	2 Design, Right-of-Way & Permitting	817 days	Mon 11/18/13	Tue 1/3/17	[Gantt bar from 11/18 to 1/3/17]																										
3	2.1 QA/QC Plan for Design	26 days	Mon 11/18/13	Mon 12/23/13	[Gantt bar from 11/18 to 12/23/13]																										
4	2.1.1 Prepare Quality Assurance and Quality Control (QA/QC) Plan	10 days	Mon 11/18/13	Fri 11/29/13	11/18 [Task bar]																										
5	2.1.2 Submit QA/QC Plan - Present to VDOT	1 day	Mon 12/2/13	Mon 12/2/13	12/2 [Task bar]																										
6	2.1.3 QA/QC Plan Approval	21 edays	Mon 12/2/13	Mon 12/23/13	12/2 [Task bar]																										
7	2.2 Scope Validation Period	90 days	Mon 11/18/13	Fri 3/21/14	[Gantt bar from 11/18 to 3/21/14]																										
8	2.2.1 Scope Validation Investigations and Findings Report Submittal	90 days	Mon 11/18/13	Fri 3/21/14	11/18 [Task bar]																										
9	2.3 Develop & Submit Field Inspection/Right-of-Way (FI/RW), Line & Grade, LOD	50 days	Tue 12/3/13	Mon 2/10/14	[Gantt bar from 12/3 to 2/10/14]																										
10	2.3.1 Develop FI/RW Plans-30% Plans	35 days	Tue 12/3/13	Mon 1/20/14	12/3 [Task bar]																										
11	2.3.2 VDOT Review and Approved FI/RW	21 edays	Mon 1/20/14	Mon 2/10/14	1/20 [Task bar]																										
12	2.3.3 RI/RW Plans Approved	0 days	Mon 2/10/14	Mon 2/10/14	2/10 [Milestone diamond]																										
13	2.4 Supplemental Field Surveys	812 days	Mon 11/25/13	Tue 1/3/17	[Gantt bar from 11/25 to 1/3/17]																										
14	2.4.1 Prepare Property Owner Notification Letters for Survey	1 day	Mon 11/25/13	Mon 11/25/13	11/25 [Task bar]																										
15	2.4.2 Supplemental Field Surveys	45 days	Tue 12/17/13	Mon 2/17/14	12/17 [Task bar]																										
16	2.4.3 Stake Geotechnical Boring Locations	20 days	Tue 12/17/13	Mon 1/13/14	12/17 [Task bar]																										
17	2.4.4 Prepare Updated Survey File	30 days	Tue 12/17/13	Mon 1/27/14	12/17 [Task bar]																										
18	2.4.5 Set ROW Monumentation after Substantial Completion	30 days	Wed 11/23/16	Tue 1/3/17	11/23 [Task bar]																										
19	2.5 Utilities-Delineation, SUE	130 days	Mon 11/25/13	Fri 5/23/14	[Gantt bar from 11/25 to 5/23/14]																										
20	2.5.1 Prepare Property Owner Notification Letters for Subsurface Utility Engineering (SUE)	1 day	Mon 11/25/13	Mon 11/25/13	11/25 [Task bar]																										
21	2.5.2 Perform SUE Designations and Test Holes	45 days	Tue 12/17/13	Mon 2/17/14	12/17 [Task bar]																										
22	2.5.3 Prepare Test Hole Data Sheets	30 days	Tue 12/24/13	Mon 2/3/14	12/24 [Task bar]																										
23	2.5.4 Meet with VDOT Regional Utility Manager 45 days after NTP	1 day	Mon 1/20/14	Mon 1/20/14	1/20 [Task bar]																										
24	2.5.5 Meet with Utility Owners	5 days	Tue 2/4/14	Mon 2/10/14	2/4 [Task bar]																										
25	2.5.6 Determine Prior Rights	15 days	Tue 2/18/14	Mon 3/10/14	2/18 [Task bar]																										
26	2.5.7 Prepare Preliminary Utility Status Report due 120 days after NTP	15 days	Mon 5/5/14	Fri 5/23/14	5/5 [Task bar]																										
27	2.5.8 Prepare and Submit Updated Subsurface Utility Information	15 days	Mon 5/5/14	Fri 5/23/14	5/5 [Task bar]																										
28	2.6 Utility Design (By Others)	80 days	Mon 3/10/14	Mon 6/30/14	[Gantt bar from 3/10 to 6/30/14]																										
29	2.6.1 Utility Design Starts	0 days	Mon 3/10/14	Mon 3/10/14	3/10 [Milestone diamond]																										
30	2.6.2 Columbia Gas Plan and Estimate	60 days	Tue 3/11/14	Mon 6/2/14	3/11 [Task bar]																										
31	2.6.3 Williams Gas Plan and Estimate	60 days	Tue 3/11/14	Mon 6/2/14	3/11 [Task bar]																										
32	2.6.4 Dominion Power Plan and Estimate (Distribution)	60 days	Tue 3/11/14	Mon 6/2/14	3/11 [Task bar]																										
33	2.6.5 Dominion Power Plan and Estimate (Transmission)	60 days	Tue 3/11/14	Mon 6/2/14	3/11 [Task bar]																										
34	2.6.6 Verizon Plan and Estimate	60 days	Tue 3/11/14	Mon 6/2/14	3/11 [Task bar]																										
35	2.6.7 Level 3 Plan and Estimate	60 days	Tue 3/11/14	Mon 6/2/14	3/11 [Task bar]																										
36	2.6.8 Fiberlight Plan and Estimate	60 days	Tue 3/11/14	Mon 6/2/14	3/11 [Task bar]																										
37	2.6.9 AT&T Plan and Estimate	60 days	Tue 3/11/14	Mon 6/2/14	3/11 [Task bar]																										
38	2.6.10 Review Utility P & E and Issue Letter of No Conflict with Proposed Design	5 days	Tue 6/3/14	Mon 6/9/14	6/3 [Task bar]																										
39	2.6.11 DB Team Received Written Approval from VDOT to Commence Relocations	21 edays	Mon 6/9/14	Mon 6/30/14	6/9 [Task bar]																										
40	2.7 Geotechnical Engineering and Subsurface Investigations	75 days	Mon 11/25/13	Fri 3/7/14	[Gantt bar from 11/25 to 3/7/14]																										
41	2.7.1 Complete Boring Location Plan	10 days	Mon 11/25/13	Fri 12/6/13	11/25 [Task bar]																										
42	2.7.2 Prepare Property Owner Notification Letters for Geotechnical Investigations	1 day	Mon 11/25/13	Mon 11/25/13	11/25 [Task bar]																										

ID	Task Name	Duration	Start	Finish	3rd Quarter			1st Quarter			3rd Quarter			1st Quarter			3rd Quarter			1st Quarter			3rd Quarter			1st Quarter								
					Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May
43	2.7.3 Secure Permits and Clear Utilities as Required	15 days	Mon 12/9/13	Fri 12/27/13			12/9																											
44	2.7.4 Boring Logs and Lab Work for Scope Validation	25 days	Mon 12/16/13	Fri 1/17/14			12/16																											
45	2.7.5 Subsurface Investigations	45 days	Mon 12/30/13	Fri 2/28/14			12/30																											
46	2.7.6 Boring Logs and Lab Work	45 days	Mon 1/6/14	Fri 3/7/14			1/6																											
47	2.8 Geotechnical Engineering and Analysis and Reports	75 days	Mon 1/27/14	Fri 5/9/14																														
48	2.8.1 Geotech Design & Submit-Pavement Report	30 days	Mon 1/27/14	Fri 3/7/14			1/27																											
49	2.8.2 Geotech Design & Submit-Structure Reports (Culverts)	45 days	Mon 1/27/14	Fri 3/28/14			1/27																											
50	2.8.3 Geotech Design & Submit-Roadway and Slopes Report	45 days	Mon 1/27/14	Fri 3/28/14			1/27																											
51	2.8.4 Geotech Design & Submit-Storm Water Reports	45 days	Mon 1/27/14	Fri 3/28/14			1/27																											
52	2.8.5 Agency Review -Pavement Report	21 edays	Fri 3/7/14	Fri 3/28/14			3/7																											
53	2.8.6 Agency Review -Structure Reports (Culverts)	21 edays	Fri 3/28/14	Fri 4/18/14			3/28																											
54	2.8.7 Agency Review -Roadway and Slopes Report	21 edays	Fri 3/28/14	Fri 4/18/14			3/28																											
55	2.8.8 Agency Review -Storm Water Reports	21 edays	Fri 3/28/14	Fri 4/18/14			3/28																											
56	2.8.9 Resolve Review Comments and Submit Final - Pavement Report	30 days	Mon 3/10/14	Fri 4/18/14			3/10																											
57	2.8.10 Resolve Review Comments and Submit Final - Structure Reports (Culverts)	30 days	Mon 3/31/14	Fri 5/9/14			3/31																											
58	2.8.11 Resolve Review Comments and Submit Final - Roadway and Slopes Report	30 days	Mon 3/31/14	Fri 5/9/14			3/31																											
59	2.8.12 Resolve Review Comments and Submit Final - Storm Water Reports	30 days	Mon 3/31/14	Fri 5/9/14			3/31																											
60	2.9 Environmental and Permits	270 days	Mon 11/18/13	Sat 11/29/14																														
61	2.9.1 Prepare Property Owner Letters (POL) for Environmental Surveys	1 day	Mon 11/25/13	Mon 11/25/13			11/25																											
62	2.9.2 Endangered Species	50 days	Tue 11/26/13	Mon 2/3/14																														
63	2.9.2.1 Conduct survey and prepare Threatened and Endangered Species Evaluation Report	20 days	Tue 11/26/13	Mon 12/23/13			11/26																											
64	2.9.2.2 DCR, DGIF, USFWS Review and Approval of Threatened and Endangered Species Report	30 days	Tue 12/24/13	Mon 2/3/14			12/24																											
65	2.9.3 Hazardous Materials Investigations	75 days	Tue 12/17/13	Mon 3/31/14																														
66	2.9.3.1 Asbestos Inventory Report (Project Wide)	60 days	Tue 12/17/13	Mon 3/10/14			12/17																											
67	2.9.3.2 VDOT Review and Approval of Hazardous Materials Reports	21 edays	Mon 3/10/14	Mon 3/31/14			3/10																											
68	2.9.4 Water Quality Permitting and Stormwater Monitoring	195 days	Tue 1/21/14	Mon 10/20/14																														
69	2.9.4.1 Prepare and Submit Joint Permit Application	60 days	Tue 2/11/14	Mon 5/5/14			2/11																											
70	2.9.4.2 USACE Issue Section 404 Permit	120 days	Tue 5/6/14	Mon 10/20/14			5/6																											
71	2.9.4.3 VA Dept of Env Quality (DEQ) Issue VA Water Protection Permit (VWPP)	120 days	Tue 5/6/14	Mon 10/20/14			5/6																											
72	2.9.4.4 VA Marine Resource Commision (VMRC) Issues Sub-Aqueous Bed (SBP) Permit-Brook Run	90 days	Tue 5/6/14	Mon 9/8/14			5/6																											
73	2.9.4.5 Develop SWPPP and Submit VA Storm Water Management Permit Application (VSMP)-30 days prior to construction	30 days	Tue 5/6/14	Mon 6/16/14			5/6																											
74	2.9.4.6 VDOT Review & DCR Issues VSMP Hold Point- Constr. Begins	21 edays	Mon 6/16/14	Mon 7/7/14			6/16																											
75	2.9.4.7 VSMP Permit Issued	0 days	Mon 7/7/14	Mon 7/7/14			7/7																											
76	2.9.4.8 FAA Notice of Construction-As required	30 days	Tue 1/21/14	Mon 3/3/14			1/21																											
77	2.9.5 Roadway	201 days	Tue 1/21/14	Tue 10/28/14																														
78	2.9.5.1 Address FI/RW Review Comments	45 days	Tue 1/21/14	Mon 3/24/14			1/21																											
79	2.9.5.2 Horizontal and Vertical Geometry, SE, Typical Secti	90 days	Tue 1/28/14	Mon 6/2/14			1/28																											
80	2.9.5.3 Cross Sections and Limits of Disturbance	60 days	Tue 3/11/14	Mon 6/2/14			3/11																											
81	2.9.5.4 Submit 60% Roadway Plans	1 day	Tue 6/3/14	Tue 6/3/14			6/3																											
82	2.9.5.5 VDOT Review	21 edays	Tue 6/3/14	Tue 6/24/14			6/3																											

ID	Task Name	Duration	Start	Finish	3rd Quarter			1st Quarter			3rd Quarter			1st Quarter			3rd Quarter			1st Quarter			3rd Quarter			1st Quarter								
					Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May
					Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May
83	2.9.5.6 Address 60% Review Comments and Submit 100% Roadway Plans	60 days	Wed 6/4/14	Tue 8/26/14						6/4																								
84	2.9.5.7 VDOT Review	21 edays	Tue 8/26/14	Tue 9/16/14									8/26																					
85	2.9.5.8 Address 100% Review Comments and Receive VDOT Approval on RFC Roadway Plans	45 days	Wed 8/27/14	Tue 10/28/14									8/27																					
86	2.9.5.9 RFC Plans Approved	0 days	Tue 10/28/14	Tue 10/28/14												10/28																		
87	2.9.6 Hydraulics	146 days	Tue 1/21/14	Tue 8/12/14																														
88	2.9.6.1 30% H & HA Analysis for Culverts, incl Scour Analysis and Culvert Locations	30 days	Tue 1/21/14	Mon 3/3/14						1/21																								
89	2.9.6.2 VDOT Review of 30% H & HA	21 edays	Mon 3/3/14	Mon 3/24/14									3/3																					
90	2.9.6.3 50% H & HA Analysis, incl Scour Analysis and Culvert Locations	45 days	Tue 3/4/14	Mon 5/5/14									3/4																					
91	2.9.6.4 VDOT Review of 50% H & HA	21 edays	Mon 5/5/14	Mon 5/26/14									5/5																					
92	2.9.6.5 100% H & HA Analysis, incl Scour Analysis and Culvert Locations	50 days	Tue 5/6/14	Mon 7/14/14									5/6																					
93	2.9.6.6 VDOT Review and Approval of 100% H & HA-Hold Point	21 edays	Mon 7/14/14	Mon 8/4/14												7/14																		
94	2.9.6.7 Drainage Design	75 days	Tue 1/21/14	Mon 5/5/14						1/21																								
95	2.9.6.8 SWM Design & Post Construction SWM Plan	75 days	Tue 2/4/14	Mon 5/19/14						2/4																								
96	2.9.6.9 Multi-Phased ESC Plans & Narrative & SWPPP	60 days	Tue 2/18/14	Mon 5/12/14						2/18																								
97	2.9.6.10 Preliminary Drainage, SWM and ESC Plans and Submittal	1 day	Tue 5/20/14	Tue 5/20/14									5/20																					
98	2.9.6.11 VDOT Review of Preliminary Drainage, SWM & ESC	21 edays	Tue 5/20/14	Tue 6/10/14									5/20																					
99	2.9.6.12 Final Drainage, SWM and ESC Plans and Modification VSMP/SWPPP Permit	45 days	Wed 5/21/14	Tue 7/22/14									5/21																					
100	2.9.6.13 VDOT Review & Approval Final SWM, Drainage, DCR VSMP/SWPPP Permit Mod-Hold Point	21 edays	Tue 7/22/14	Tue 8/12/14												7/22																		
101	2.9.7 Traffic Engineering	222 days	Mon 11/18/13	Tue 9/23/14																														
102	2.9.7.1 Develop Existing Sign Inventory Plan	10 days	Mon 11/18/13	Fri 11/29/13						11/18																								
103	2.9.7.2 Develop Lighting Warrant Analysis and Report	50 days	Tue 1/21/14	Mon 3/31/14						1/21																								
104	2.9.7.3 Signing (including PMSD), Pavement Marking, Lighting (if warranted), Signal Conduit Design, MOT Plans and Draft TMP-60% Submittal	20 days	Tue 3/4/14	Mon 3/31/14						3/4																								
105	2.9.7.4 VDOT Review	21 edays	Tue 6/3/14	Tue 6/24/14									6/3																					
106	2.9.7.5 Address 60% Review Comments, Submit 100% MOT, Signing, Pavement Marking, Lighting (if warranted), Signal Conduit Design and Final TMP	45 days	Wed 6/4/14	Tue 8/5/14									6/4																					
107	2.9.7.6 VDOT Review	21 edays	Tue 8/5/14	Tue 8/26/14												8/5																		
108	2.9.7.7 Address 100% Review Comments and Receive VDOT Approval on RFC MOT, Signing, Pavement Marking, Lighting (if warranted), Signal Conduit Plans and TMP	20 days	Wed 8/27/14	Tue 9/23/14												8/27																		
109	2.9.7.8 TMP Plan Approved	0 days	Tue 9/23/14	Tue 9/23/14												9/23																		
110	2.9.8 VDOT Right of Way Work	260 days	Mon 12/2/13	Sat 11/29/14																														
111	2.9.8.1 Complete ROW Plan and Profile, D#'s, Right of Way Data Sheet Per form RW-301 Checklist, Plats and Metes & Bounds	20 days	Tue 2/11/14	Mon 3/10/14									2/11																					
112	2.9.8.2 Receive ROW Plan Approval for Perm & Temp Easements, Utility Easements from VDOT	21 edays	Mon 3/10/14	Mon 3/31/14												3/10																		
113	2.9.8.3 Prepare and Submit Acquisition and Relocation Plan including Proposed Appraisers & Reviewers	20 days	Mon 12/2/13	Fri 12/27/13						12/2																								
114	2.9.8.4 VDOT Review and Approve Acquisition and Relocation Plan - Hold Point	21 edays	Fri 12/27/13	Fri 1/17/14									12/27																					
115	2.9.8.5 VDOT Issue Notice to Proceed for ROW Acquisitions- Hold Point	0 days	Mon 3/31/14	Mon 3/31/14												3/31																		

ID	Task Name	Duration	Start	Finish	3rd Quarter			1st Quarter			3rd Quarter			1st Quarter			3rd Quarter			1st Quarter			3rd Quarter			1st Quarter		
					Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May
116	2.9.8.6 Title Exam, Appraisals, Appraisal Reviews, Titles, Report	120 days	Tue 4/1/14	Mon 9/15/14				4/1																				
117	2.9.8.7 Post Appraisal & Appraisal Reviews to RUMS	100 days	Tue 4/29/14	Mon 9/15/14				4/29																				
118	2.9.8.8 VDOT Review & Approval Appraisal Packages, Just Compensation, Relocation Benefits and Administrative Settlements-Acquisitions	100 days	Wed 5/28/14	Tue 10/14/14				5/28																				
119	2.9.8.9 Initiate ROW/Easements Negotiations, Acquisition incl. RW24's	80 days	Wed 6/4/14	Tue 9/23/14				6/4																				
120	2.9.8.10 Make Offers to Property Owners	80 days	Thu 7/3/14	Wed 10/22/14				7/3																				
121	2.9.8.11 Property Owner Accepts Offer	80 days	Fri 8/1/14	Thu 11/20/14				8/1																				
122	2.9.8.12 Request Right of Entry-As Necessary	20 days	Thu 7/10/14	Wed 8/6/14				7/10																				
123	2.9.8.13 Property Owner Accepts ROE	10 edays	Wed 8/6/14	Sat 8/16/14				8/6																				
124	2.9.8.14 ROE Granted	0 days	Sat 8/16/14	Sat 8/16/14				8/16																				
125	2.9.8.15 VDOT Concurrence on ROE-As Necessary	21 edays	Sat 8/16/14	Sat 9/6/14				8/16																				
126	2.9.8.16 VDOT Issue Certificate of Take and Files in Court, if Impass is Reached	65 days	Fri 8/1/14	Thu 10/30/14				8/1																				
127	2.9.8.17 VDOT Process Vouchers and Issue State Warrants for Payments to Contractor for Acquisitions	21 edays	Fri 8/1/14	Fri 8/22/14				8/1																				
128	2.9.8.18 VDOT Process Vouchers and Issue State Warrants for Payments to Contractor for Relocations	21 edays	Fri 8/1/14	Fri 8/22/14				8/1																				
129	2.9.8.19 Closing and Settlement Payment Disbursement and Indefensible Title to VDOT-Acquisitions	60 days	Fri 8/15/14	Thu 11/6/14				8/15																				
130	2.9.8.20 Closing and Settlement Payment Disbursement and Indefensible Title to VDOT-Relocations	60 days	Fri 8/15/14	Thu 11/6/14				8/15																				
131	2.9.8.21 VDOT/FHWA Issue Clearance for Construction - Acquisitions-Hold Point	21 edays	Sat 11/8/14	Sat 11/29/14							11/8																	
132	2.9.8.22 VDOT/FHWA Issue Clearance for Construction - Relocations-Hold Point	21 edays	Sat 11/8/14	Sat 11/29/14							11/8																	
133	3 CONSTRUCTION	903 days	Mon 11/18/13	Thu 5/4/17																								
134	3.1 Mobilization (6/2/2014)	10 days	Mon 12/1/14	Fri 12/12/14							12/1																	
135	3.2 Submit QA/QC for Construction	5 days	Mon 11/18/13	Fri 11/22/13				11/18																				
136	3.3 Submit QA/QC Plan - Present to VDOT	1 day	Mon 11/25/13	Mon 11/25/13				11/25																				
137	3.4 VDOT Review	21 edays	Mon 11/25/13	Mon 12/16/13				11/25																				
138	3.5 Revise and Resubmit QA/QC Plan	5 days	Tue 12/17/13	Mon 12/23/13				12/17																				
139	3.6 Submit Final QA/QC for Design and Construction	21 edays	Mon 12/23/13	Mon 1/13/14				12/23																				
140	3.7 Citizens Information Meeting	1 day	Mon 12/8/14	Mon 12/8/14				12/8																				
141	3.8 Construction Survey	30 days	Mon 12/15/14	Fri 1/23/15				12/15																				
142	3.9 Project management / QA & QC	200 days	Mon 12/15/14	Fri 9/18/15				12/15																				
143	3.10 Utility Relocation	80 days	Mon 9/8/14	Fri 12/26/14																								
144	3.10.1 Columbia Gas Relocation	80 days	Mon 9/8/14	Fri 12/26/14				9/8																				
145	3.10.2 Williams Gas Relocation	80 days	Mon 9/8/14	Fri 12/26/14				9/8																				
146	3.10.3 Dominion Power Relocation (Distribution)	70 days	Mon 9/8/14	Fri 12/12/14				9/8																				
147	3.10.4 Dominion Power Relocation (Transmission)	70 days	Mon 9/8/14	Fri 12/12/14				9/8																				
148	3.10.5 Verizon Relocation	70 days	Mon 9/8/14	Fri 12/12/14				9/8																				
149	3.10.6 Level 3 Relocation	70 days	Mon 9/8/14	Fri 12/12/14				9/8																				
150	3.10.7 Fiberlight Relocation	70 days	Mon 9/8/14	Fri 12/12/14				9/8																				
151	3.10.8 AT&T Relocation	70 days	Mon 9/8/14	Fri 12/12/14				9/8																				
152	3.11 Phase 1	229 days	Mon 3/16/15	Thu 1/28/16																								
153	3.11.1 Area 1 Sta. 1101 - 1203 WBL	209 days	Mon 3/16/15	Thu 12/31/15																								
154	3.11.1.1 Maintenance of Traffic	10 days	Mon 3/16/15	Fri 3/27/15				3/16																				
155	3.11.1.2 R/W Fence	20 days	Mon 3/30/15	Fri 5/22/15				3/30																				
156	3.11.1.3 Erosion Control	20 days	Mon 3/30/15	Fri 4/24/15				3/30																				
157	3.11.1.4 Earthwork	40 days	Mon 4/27/15	Fri 6/19/15				4/27																				



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