



Volume I

Proposal Submittal

Letter of Submittal and Attachments

**Replacement of I-81 Structures 18942 & 18944
over Route 808**

Halls Bottom Road and Sinking Creek

From: 0.94 Miles Northeast of Route F310

To: 1.83 Miles Southwest of Rte. 611 Spring Creek Road



Washington County, Virginia

State Project No.: 0081-095-038, P101, RW201, C501, B675, B676

Contract ID Number: C00107116DB85

March 7, 2016



4.1

Letter of Submittal



General Construction | Heavy Civil | Geotechnical

March 7, 2016

Mr. Suril R. Shah
Alternate Project Delivery Office
Virginia Department of Transportation (VDOT)
1401 East Broad Street
Richmond, Virginia 23219

RE: **Request for Proposal (RFP)**
Replacement of I-81 Structures 18942 &
18944 over Route 808
Halls Bottom Road and Sinking Creek
Proj. No.: 0081-095-038, P101, RW201, C501,
B675, B676
Contract ID No: C00107116DB85

Dear Mr. Shah:

Wagman Heavy Civil, Inc. (Wagman) is pleased to submit our Letter of Submittal for this VDOT Design-Build Project for the Replacement of I-81 Structures 18942 & 18944 over Route 808 Halls Bottom Road and Sinking Creek project.

In accordance with the Section 4.1 requirements of the Request for Proposal, we offer the following information for review, with additional information provided in the attachments.

4.1.2 Offerors's Intent

Wagman intends to enter into a contract with VDOT for the Project in accordance with the terms of this RFP.

4.1.3 Declaration of Proposal

Wagman declares that the offer represented by the Technical and Price proposals will remain in full force and effect beginning on March 7, 2016 and for one hundred twenty (120) days thereafter.

4.1.4 Point of Contact

Mr. David W. Lyle, V.P., DB / Major Pursuits
Wagman Heavy Civil, Inc.
26000 Simpson Road, North Dinwiddie, VA 23803-8943
T 804-631-0003 / F 804-733-6281
M 804-731-3707 / dwlyle@wagman.com

4.1.5 Principal Officer for the Offeror

Mr. Greg M. Andricos, PE, President/COO
Wagman Heavy Civil, Inc.
3290 N. Susquehanna Trail, York, PA 17406
T 717-764-8521 x292 / F 717-764-2799
M 717-825-8688 / gmandricos@wagman.com

4.1.6 Final Completion Date

September 4, 2018

4.1.7 Proposal Payment Agreement

An executed Proposal Payment Agreement form (Attachment 9.3.1) is located in the Appendix portion of this proposal.

4.1.8 Debarment Forms

Team members have executed Certification Regarding Debarment Forms Attachment 11.8.6(a) and 11.8.6(b). All of these forms are in the Appendix portion of the proposal.

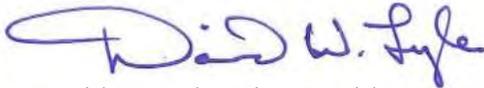
4.19 DBE Participation Goal

Wagman is committed to achieving a two percent (2%) DBE participation goal for the entire value of the contract.

We thank you for the opportunity to submit our Letter of Submittal. We are confident that our DBT will deliver this project for VDOT and project stakeholders in a high quality, timely, and economical manner.

Very truly yours,

WAGMAN HEAVY CIVIL, INC.



David W. Lyle, Vice President, Design-Build / Major Pursuits



4.2

Attachments to the Letter of Submittal

4.2 Attachments to the Letter of Submittal

4.2.1 Accuracy of SOQ Submittal

The organizational chart and Key Personnel contained in the Statement of Qualifications (SOQ), remains true and accurate. No changes have been made to the Offeror's organizational structure, Lead Contractor, Lead Designer, Key Personnel or other individuals identified in the SOQ.

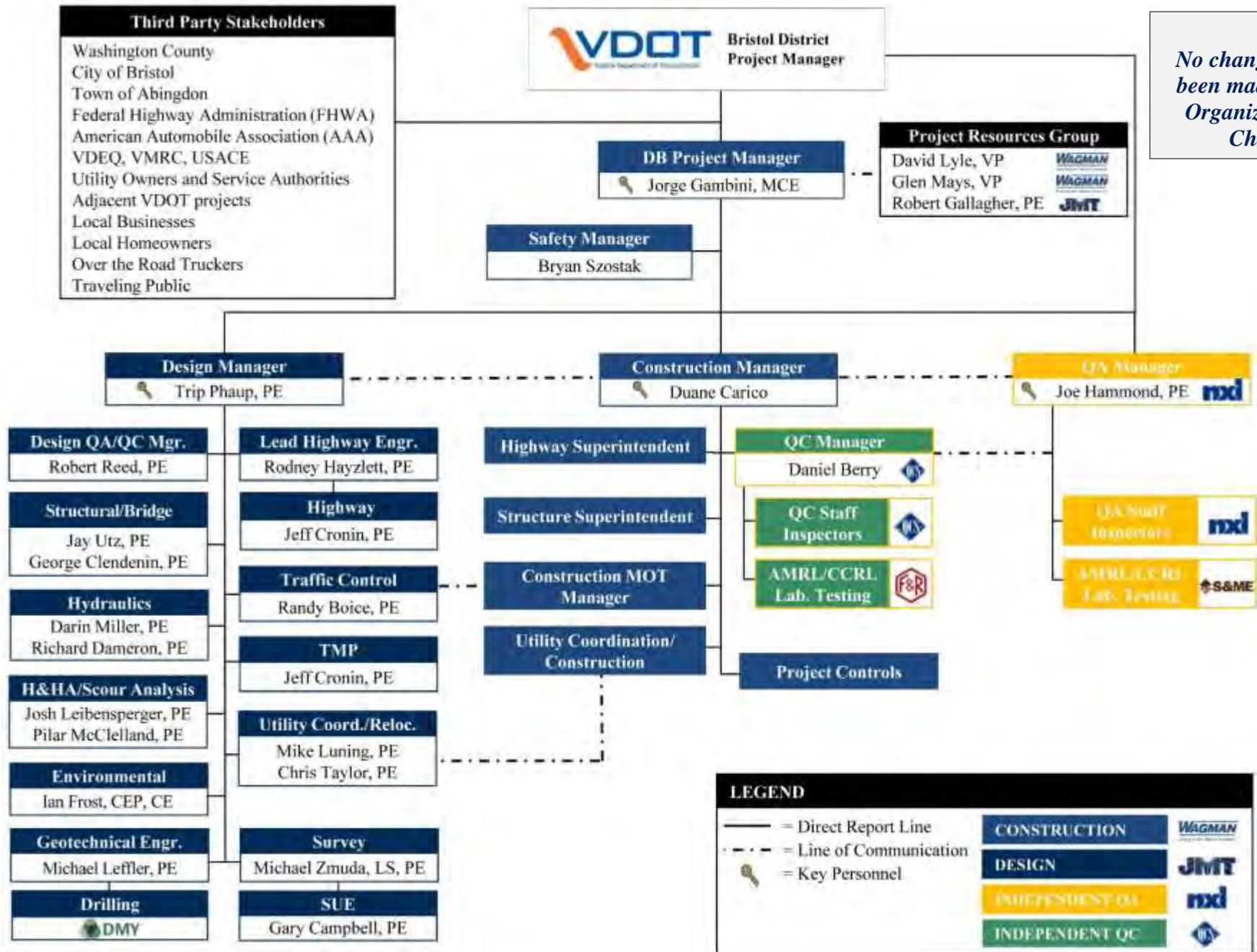
Organizational Chart and Narrative

Organizational Chart:

The organizational chart image provided on the next page shows the “chain of command” while identifying major functions to be performed by the DBT. The organizational chart also shows the reporting relationships of Key Personnel responsible for the management of design, construction, and QA/QC activities. The DBT has clearly defined roles and relationships.

No changes have been made to the organizational chart.

4.2 Attachments to the Letter of Submittal



No changes have been made to the Organizational Chart

Organizational Chart Narrative:

Reporting Relationships of Key Personnel - The DBT organization is optimized to present clear, logical, reporting relationships to manage the design and construction of the Replacement of I-81 Structures 18942 & 18944 over Route 808 Halls Bottom Road and Sinking Creek project (I-81 Bridge Replacement project), while maintaining distinct responsibilities and project controls. The project organization is structured to facilitate timely and effective communication among all personnel, regardless of position. Practical lines of communication running between design, construction, and the independent QA/QC support staff, along with direct reporting to the DBPM allows all levels to function as a team. Our organizational structure is a successful model implemented by Wagman and JMT on similar DB projects.

The organizational chart further depicts that the main production staff interfaces with the **Design-Build Project Manager (DBPM)** through the Key Personnel comprised of the **Independent Quality Assurance Manager (QAM)**, **Design Manager (DM)**, and **Construction Manager (CM)** allowing effective communication among all team members. The DM and the CM will support and report to the DBPM in their respective areas of expertise. The QAM will report directly to VDOT and shall be responsible for quality assurance, inspection and testing, plus monitoring the project QC program. The DBPM will rely on the DM, the CM, and the QAM to effectively coordinate their individual Team elements and will use these Key Personnel to communicate to all Team members during design and construction. Details of the roles of each of the Key Personnel and reporting relationships are listed below:

Design-Build Project Manager (DBPM) - The DBT organizational chart starts with VDOT at the pinnacle of the hierarchy. The DBT recognizes that all final decisions rest with VDOT. The DBT's primary interface with VDOT will be through the **DBPM, Mr. Jorge D. Gambini, MCE**. In accordance with sound management practices and VDOT guidance, the DBPM serves in the most crucial role, one that defines success for all aspects of the project. Mr. Gambini will be responsible for meeting DBT obligations under the Contract and avoiding and resolving disputes. He is the principal conduit for communication with VDOT, and exercises direct control over the design, construction, contract administration and other services required including public outreach functions. The DBPM will work closely with the QAM to coordinate all QA and QC efforts.

One feature of the DBT proposal is the independence of the key support staff and specialty professionals whose roles are to assure that the highest levels of quality and safety are maintained throughout design and construction phases of the project. DBT members have years of experience with integrated quality and safety programs that have been refined and incorporated in best management practices for delivering innovative and award-winning DB projects.

Independent Quality Assurance Manager (QAM) - NXL Construction Services, Inc. (NXL) is the Team's Independent Construction QA firm for this project. NXL commits **Mr. Joe Hamed, PE, CCM, PMP, DBIA to serve as the Independent QAM**. He will report directly to VDOT and will work closely with the DBPM on all quality issues. He will attend all project meetings. Mr. Hamed will be responsible for the quality assurance (QA) inspection and testing of all materials used and work performed on the Project, to include monitoring of the contractor's quality control (QC) program. Additionally, he will oversee the activities of the independent AMRL/CCRL certified off-site materials sampling and testing laboratory. The QAM will ensure that all work and materials, testing, and sampling are performed in conformance with the contract requirements, and the "approved for construction" plans and specifications.

Design Manager (DM) - The DBT organizational chart clearly defines that all design disciplines for the project will report to the **DM, Mr. Trip Phaup, 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

4.2 Attachments to the Letter of Submittal

fulfill these specific requirements. While the majority of the disciplines will be covered by JMT professionals, the Design Team does include one specialty subconsultant that will augment JMT and report directly to the DM. The DM will report directly to the DBPM. During the design phase of the project, the DM will interface directly with each of the discipline leaders, whether that individual is a JMT staff member or a subconsultant contracted with JMT. Mr. Phaup will also establish and oversee the QA/QC program for design. The responsibilities of the Design QA/QC Team will be separated between QA and QC.

Construction Manager (CM) - Mr. Duane Carico is the CM for the project who will oversee all major construction activities and will manage the Construction QC program, Construction MOT Manager, Field Superintendents, Subcontractors, Scheduler and Project Controls. His tasks will include CPM schedule development and updating, resource planning and allocation, budgetary and cost control, subcontractors scheduling, MOT, ESC, and shop drawing review. The CM will report directly to the DBPM. The Construction Quality Control Manager (QCM) will report directly to the CM.

Assisting the DBT is a hand-picked group of highly-qualified support personnel that are experts in their field of expertise. Please see the table below for a brief description of the qualifications and experience:

Project Role	Support Personnel	Reporting Role to:	Experience
Project Resource Group	David Lyle, VP (Wagman)	DB Project Manager	David Lyle, Wagman, Vice President, Design Build/Major Pursuits has 27 years of supervisory and management experience in highway construction with particular experience in bridge replacement and rehabilitation projects throughout Virginia. David has been a member of the VTCA Structure and Bridge Subcommittee since 1996 and currently serves as Vice Chairman. David also currently serves on the VTCA Design Build Subcommittee. Past service as a member of the VRTBA Board of Directors and VTCA Contractor Leadership Committee also add value and knowledge available to the DB Team.
	Glen Mays, VP (Wagman)		Glen Mays is Wagman's Vice President, VA General Manager. A 30-year veteran of the highway construction industry with a vast resume and experience with VDOT and other DOT's in both Hard Bid and Design Build Projects prove Glen to be an industry leader in operations, safety, and project management.
	Bob Gallagher, PE (JMT)		Mr. Gallagher has 29 years of extensive experience in Virginia transportation projects. He serves as JMT's Virginia Transportation Manager and is responsible for all major transportation disciplines of roadway and bridge design, construction inspection, and right-of-way acquisition within the Commonwealth. He is thoroughly familiar with the VDOT project development and delivery process for transportation projects. Mr. Gallagher has been instrumental in the successful design and administration of many VDOT and municipal, VDOT funded, highway projects including numerous D-B projects. He has served as the Project Manager or Principal-In-Charge on numerous VDOT "on-call" contracts and D-B projects throughout the Commonwealth. Mr. Gallagher is a current member of VTCA's Engineering Consultant Leadership Committee and previously served on VTCA's Joint Highway Cooperative Committee.

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Safety Manager	Bryan Szostak	Constr. Manager	<p>Bryan will provide Safety oversight for the project and be a resource for the entire DB Team throughout the project. He is familiar with VDOT projects and has been part of several VDOT DB projects as the Safety Manager. With a Bachelor's degree in safety management as well as ATSSA, NCCCO, OSHA, and other industry standard safety training Bryan will be able to help plan and execute all aspects of the projects. Recent DB experience includes:</p> <ul style="list-style-type: none"> • Elm Avenue over I-581, Roanoke, VA • Middleground Boulevard, Newport News, VA
Highway Engineer	Jeff Cronin, PE (JMT)	Design Manager	<p>Jeff has over 18 years of experience in roadway design and construction and will be preparing the road plans and maintenance of traffic plans for the project. Jeff has worked extensively in the Bristol District including serving in a similar role on the I-77 SB over New River Bridge Approach Roadway Improvements project and the Coalfields Expressway/Route 460 DB project both in the Bristol District.</p>
Structural Engineer	George Clendenin, PE (JMT)		<p>George has over 45 years of experience in all aspects of structure and bridge design having worked for a majority of his career with VDOT in the Structure and Bridge Division and retiring as State Structure and Bridge Engineer. George has served as lead bridge designer on two recent VDOT DB projects with Wagman – the Route 61 over the New River, Route 460, and Old Virginia Avenue DB Bridge Replacement project in the Salem District and the Odd Fellows Road over Route 460 DB Bridge project in the Lynchburg District.</p>
Hydraulics	Pilar McClelland, PE (JMT)		<p>Pilar has over 35 years of experience in hydraulic and hydrologic analysis for bridges over waterways including performing the river mechanics for the Old Airport Road over Beaver Creek Bridge Widening in the City of Bristol.</p>

All of JMT's Design Team members are registered professionals in their areas of expertise in Virginia and have decades of infrastructure experience including innovative project delivery methods.

4.2 Attachments to the Letter of Submittal

4.2.2 Conceptual Roadway Plans

The DBT has provided a general Project layout which includes the following as required by the Request for Proposal.

In **Volume II** of our Proposal, full size 11”x 17” copies of:

- a. Plan view indicating the number of lanes specified in the RFP Information Package;
- b. Typical sections of the proposed improvement to I-81

The Conceptual Roadway Plans have met the requirements of the Design Criteria Table (Attachment 2.2 of Part 2), indicated that the limits of construction are within the existing/proposed right-of-way limits shown in the RFP Conceptual Plans, and, as applicable identified:

1. Lane widths
2. Shoulder widths
3. Median widths
4. Minimum pavement sections
5. Cross slopes
6. Future third lane and associated Construction limits

4.2.3 Conceptual Bridge Plans

The DBT has provided plans showing the type, size and location for the proposed new bridge. Our bridge plans clearly identify specific design features that allow for future bridge widening (superstructure and substructure) within the existing right of way.

Full size 11”x 17” renderings of an elevation view, transverse section and abutment configurations for the proposed new bridge are located in **Volume II** of our Proposal.

4.2.4 Proposal Schedule and Narrative

The Design-Build Team (DBT) has provided a Proposal Schedule and Proposal Narrative demonstrating our understanding of the complexities and interrelationships of the technical elements of the Project.

PDF copies of the Proposal Schedule and narrative as well as a back-up copy of the Proposal Schedule’s source document have been provided on a CD-ROM.

4.2.4.1 Proposal Schedule

The DBT has developed a Proposal Schedule and it is located in **Volume II** of our Proposal. Our Proposal Schedule takes into account the internal plan reviews, VDOT plan reviews and approvals, environmental permitting and constraints, construction activities and QA/QC inspection and testing. The Substantial Completion and Final Completion Dates are shown to be no later than the dates listed in Section 2.3.1 of the Request for Proposal.

The Proposal Schedule depicts the DBT’s proposed overall sequence of work and durations for each work task and deliverable required to complete the Project. In addition, it is organized using a hierarchical Work Breakdown Structure (WBS), broken down into major phases of the Project.

4.2 Attachments to the Letter of Submittal

4.2.4.2 Proposal Narrative

The DBT has developed a proposal schedule narrative that demonstrates an understanding of the complexities and interrelationships of the technical elements of the Project. The narrative also describes the DBT’s plan to accomplish the Work including, but not limited to the overall sequencing, a description and explanation of the Critical Path, proposed means and methods, and other key assumptions on which the Proposal Schedule is based.

Schedule Development

The Wagman Team has reviewed in detail the scope and schedule requirements outlined in the RFP documents. Numerous site visits, team meetings, attendance of pre-proposal meetings, proprietary meeting discussions and the development of a schedule task force were performed to build a comprehensive schedule for the Replacement of Structures 18942 and 18944 over Halls Bottom Road and Sinking Creek project.

The Wagman Team is committed to providing the Department a completed Project by September 4, 2018.

Project Milestones

Project Milestones		833.9d	833.9d	24-May-16	04-Sep-18
A1000	Notice to Proceed	0.0d	0.0d	24-May-16	
A1010	Start Phase 1A Construction	0.0d	0.0d	13-Sep-16	
A6290	Traffic Switch Phase 1B	0.0d	0.0d		21-Nov-16
A1020	Substantial Completion of Design	0.0d	0.0d		27-Dec-16
A6350	Traffic Switch Phase 2	0.0d	0.0d		20-Jul-17
A6351	Traffic Switch Phase 3	0.0d	0.0d		28-Dec-17
A6352	Traffic Switch Phase 4	0.0d	0.0d		25-Jun-18
A1060	Final Completion (Contract = 04-SEP-2018)	0.0d	0.0d		04-Sep-18

Work Breakdown Structure

The following Work Breakdown Structure provided by The Wagman Team integrates all preconstruction activities as well as construction activities for the Replacement of Structures 18942 and 18944 over Halls Bottom Road and Sinking Creek project into the schedule. The following is a summary overview of the Phases of Construction succeeded by the complete WBS layout.

Milestones/General Conditions and Preconstruction activities: These sections contain all non-construction related activities that are pertinent to the project. The following ten categories represent these sections:

Milestones: These are major project dates to achieve project completion.

General Conditions: Project management and punch list required for the project are considered general conditions.

Scope Validation Period: This period is set aside for the discussion between VDOT and the Wagman Team for validation and approval of project scope.

Design: This period is set aside for the preliminary, right of way/roadway design, and final design of the project. The Wagman Team plans on working with VDOT during the design, using over the shoulder reviews, and providing comment resolution with all submissions to reduce the second review cycle, therefore shortening design. The design category also includes the following subsets:

Survey: This includes all surveying necessary for the design process.

Roadway: This covers preliminary and final design for the roadway approaches.

Geotechnical: This includes all borings and lab work required to prepare the Geotechnical Reports.

Bridge: This covers preliminary and final design of the bridge.

Permitting: This timeframe is set aside for environmental permitting.

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Construction Activities: This project has been designed and set up in four phases built around the bridge construction sequencing. Each phase is further subdivided into work areas.

Phase I: Phase I involves the construction of the new bridge structure between the existing bridges. This phase is further broken down into two steps:

Phase IA is a preparatory step to allow traffic on the existing bridges to be shifted to the right in order to allow room for Phase IB construction. The outside shoulder will be strengthened prior to shifting traffic onto it in Phase IB.

Phase IB includes construction of the new bridge substructure and superstructure located between the existing bridges. Bridge construction will require multiple crews in order to maintain the schedule. Work will be ongoing at both abutments simultaneously. Furthermore, the abutment foundations for all phases will be constructed in Phase IB.

A combination of permanent and temporary roadway will be constructed in the existing median in preparation of shifting traffic onto the Phase IB bridge.

Preliminary construction activities in Phase I will begin prior to having Final Plans. These preliminary activities include maintenance of traffic for Phase I as well as strengthening of the outside shoulders. This will allow new construction to begin immediately upon receiving approved for construction plans.

Phase II: Phase II involves the new construction in the existing NBL location. NBL traffic will be shifted onto the Phase I construction in order to allow the construction to occur. Sequencing of the bridge will be similar to Phase I.

Roadway work and widening in the existing NBL location will occur simultaneously with the bridge construction.

Phase III: Phase III involves the new construction in the existing SBL location. Traffic will be shifted onto the Phase I&II construction in order to allow the construction to occur. Sequencing of the bridge will be similar to previous phases.

Roadway work in the existing SBL location will occur simultaneously with the bridge construction.

Phase IV: Phase IV involves construction of the median between NBL and SBL. This work includes the median barrier on the bridge and approaches. Traffic will be shifted to the outside while this Phase is underway. Traffic will be installed in its final location at the end of this Phase.

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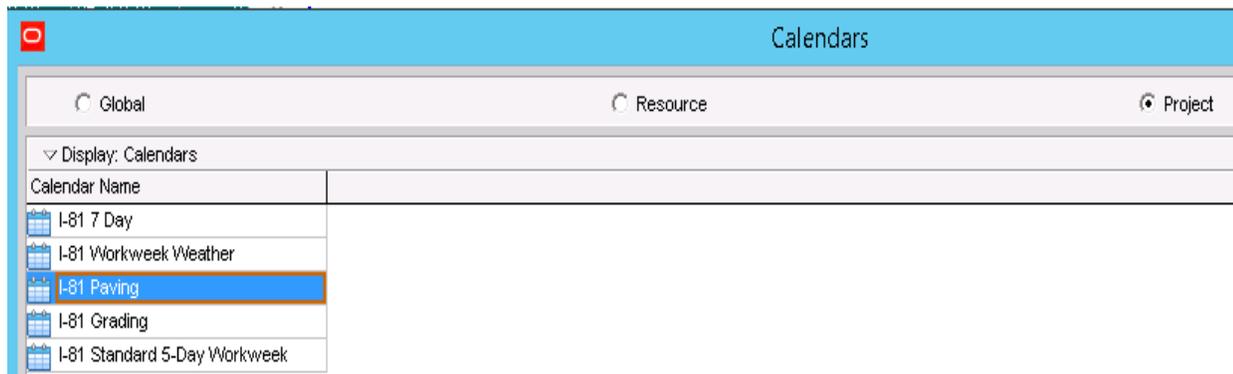
Project Work Breakdown Structure

WBS Code	WBS Name
 C001071160 B85	C001071160B85 I-81 Proposal Schedule
 C001071160 B85.1	Milestones and General Conditions
 C001071160 B85.1.1	Milestones
 C001071160 B85.1.1.1	Project Milestones
 C001071160 B85.1.2	General Conditions
 C001071160 B85.2	Preconstruction
 C001071160 B85.2.8	Scope Validation Period
 C001071160 B85.2.6	Design
 C001071160 B85.2.6.6	Survey
 C001071160 B85.2.6.2	Roadway
 C001071160 B85.2.6.4	Geotechnical
 C001071160 B85.2.6.1	Bridge
 C001071160 B85.2.5	Permitting
 C001071160 B85.2.7	Submittals
 C001071160 B85.2.7.1	Roadway
 C001071160 B85.2.7.2	Bridge
 C001071160 B85.2.3	Acquisition
 C001071160 B85.2.1	Quality Control
 C001071160 B85.2.1.1	Preparatory Meetings
 C001071160 B85.5	Construction
 C001071160 B85.5.9	Phase IA
 C001071160 B85.5.9.4	Project Signage
 C001071160 B85.5.9.1	Roadway
 C001071160 B85.5.7	Phase IB
 C001071160 B85.5.7.4	Roadway
 C001071160 B85.5.7.1	Bridge
 C001071160 B85.5.8	Phase II
 C001071160 B85.5.8.4	Roadway
 C001071160 B85.5.8.1	Bridge
 C001071160 B85.5.2	Phase III
 C001071160 B85.5.2.4	Roadway
 C001071160 B85.5.2.1	Bridge
 C001071160 B85.5.1	Phase IV
 C001071160 B85.5.1.2	Roadway
 C001071160 B85.5.1.1	Bridge

4.2 Attachments to the Letter of Submittal

Calendars

The Wagman Team has incorporated five calendars into the project schedule.



7 Day: This calendar holds every day as a working day. This calendar is only attached to non-production activities.

Workweek Weather: This calendar is the base calendar for construction activities. It incorporates a standard work week, including weather days.

Paving: This calendar is present for applications that are constrained by temperature restrictions by The Department (asphalt placement and pavement markings). Additionally, paving operations are further affected by asphalt lay down temperature restrictions and material availability interruptions due to subcontractor plant shut downs. This calendar allows for no work from January 1st to March 10th.

Grading: This calendar is present for construction activities related to earthwork. The end of December through the beginning of March are normally difficult months to perform any earthwork related activities. If weather allows, Wagman forces will continue during this calendar period with construction activities. The schedule will be adjusted as necessary during these months to reflect actual progress.

Standard 5-Day Workweek: This calendar is the base calendar for design activities. It incorporates a standard work week and does not include weather days.

Critical Path

The critical path for the project runs through the bridge design and bridge construction. The bridge design itself is dependent on the geotechnical investigation. The path runs through the bridge substructure and then into the bridge superstructure for each Phase. The path also includes the tie-ins and traffic switches between the different phases of construction. The path ends with the final road finishes.

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Critical Path Breakdown

C00107116DB85 I-81 Proposal Schedule		Classic WBS Layout		05-Mar-16 17:50	
Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish
C00107116DB85 I-81 Proposal Schedule		596.0d	596.0d	24-May-16	04-Sep-18
Milestones and General Conditions		596.0d	596.0d	24-May-16	04-Sep-18
Milestones		833.9d	833.9d	24-May-16	04-Sep-18
Project Milestones		833.9d	833.9d	24-May-16	04-Sep-18
A1000	Notice to Proceed	0.0d	0.0d	24-May-16	
A1010	Start Phase 1A Construction	0.0d	0.0d	13-Sep-16	
A6350	Traffic Switch Phase 2	0.0d	0.0d		20-Jul-17
A6351	Traffic Switch Phase 3	0.0d	0.0d		28-Dec-17
A6352	Traffic Switch Phase 4	0.0d	0.0d		25-Jun-18
A1060	Final Completion (Contract = 04-SEP-2018)	0.0d	0.0d		04-Sep-18
General Conditions		0.0d	0.0d		
Preconstruction		156.0d	156.0d	24-May-16	27-Dec-16
Scope Validation Period		0.0d	0.0d		
Design		156.0d	156.0d	24-May-16	27-Dec-16
Survey		0.0d	0.0d		
Roadway		58.0d	58.0d	24-May-16	11-Aug-16
DF2000	Prepare Preliminary Roadway Plans	40.0d	40.0d	24-May-16	20-Jul-16
A15020	SFC Preliminary Roadway Plans	1.0d	1.0d	21-Jul-16	21-Jul-16
A15040	VDOT Review Preliminary Roadway Plans	21.0d	21.0d	21-Jul-16	11-Aug-16
Geotechnical		80.0d	80.0d	24-May-16	15-Sep-16
A16460	Survey Boring Locations	10.0d	10.0d	24-May-16	07-Jun-16
A15000	Perform Borings	20.0d	20.0d	08-Jun-16	06-Jul-16
A15010	Perform Lab Testing and Analysis	20.0d	20.0d	07-Jul-16	03-Aug-16
DRW01063	Prepare Draft Geotech Report	30.0d	30.0d	04-Aug-16	15-Sep-16
Bridge		73.0d	73.0d	16-Sep-16	27-Dec-16
A14940	Stage II Design - Substructure	50.0d	50.0d	16-Sep-16	28-Nov-16
A14950	Stage II Design - Substructure (Wagman Review)	5.0d	5.0d	29-Nov-16	05-Dec-16
A14960	SFC Stage II Design - Substructure	1.0d	1.0d	06-Dec-16	06-Dec-16
A14970	VDOT Review Stage II Design - Substructure	21.0d	21.0d	06-Dec-16	27-Dec-16
Permitting		22.0d	22.0d	12-Aug-16	13-Sep-16
A16540	Submit VPDES Permit Application	1.0d	1.0d	12-Aug-16	12-Aug-16
A16550	Track VPDES Permit Application	20.0d	20.0d	15-Aug-16	12-Sep-16
A16560	Receive VPDES Permit	1.0d	1.0d	13-Sep-16	13-Sep-16
Submittals		0.0d	0.0d		
Roadway		0.0d	0.0d		
Bridge		0.0d	0.0d		
Acquisition		0.0d	0.0d		
Quality Control		0.0d	0.0d		
Preparatory Meetings		0.0d	0.0d		
Construction		440.0d	440.0d	28-Dec-16	04-Sep-18
Phase IA		0.0d	0.0d		
Project Signage		0.0d	0.0d		
Roadway		0.0d	0.0d		
Phase IB		147.0d	147.0d	28-Dec-16	20-Jul-17
Roadway		5.0d	5.0d	14-Jul-17	20-Jul-17
A12630	Switch Traffic to Phase II	5.0d	5.0d	14-Jul-17	20-Jul-17
Bridge		139.0d	139.0d	28-Dec-16	20-Jul-17
A15640	Abut. A Excavation (All Phases)	15.0d	15.0d	28-Dec-16	18-Jan-17



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C00107116DB85 I-81 Proposal Schedule		Classic WBS Layout		05-Mar-16 17:51		
Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	
A15710	Abut. B Excavation (All Phases)	18.0d	18.0d	12-Jan-17	07-Feb-17	
A15720	Abut. B Foundations (All Phases)	15.0d	15.0d	08-Feb-17	02-Mar-17	
A15730	F/P Abut. B Footing (All Phases)	10.0d	10.0d	03-Mar-17	17-Mar-17	
A15740	Cure Abut. B Footing (All Phases)	5.0d	5.0d	21-Mar-17	27-Mar-17	
A15750	F/P Abut. B Stem	8.0d	8.0d	28-Mar-17	06-Apr-17	
A15760	Cure Abut. B Stem	5.0d	5.0d	07-Apr-17	13-Apr-17	
A15960	Backfill Abut. B Stem	5.0d	5.0d	14-Apr-17	20-Apr-17	
A15770	F/P Abut. B Backwall	5.0d	5.0d	21-Apr-17	27-Apr-17	
A15780	Cure Abut. B Backwall	5.0d	5.0d	28-Apr-17	04-May-17	
A15800	Backfill Abut. B Backwall	3.0d	3.0d	05-May-17	09-May-17	
A15140	Erect Girders	5.0d	5.0d	10-May-17	16-May-17	
A15150	F/P Deck	20.0d	20.0d	17-May-17	14-Jun-17	
A16290	F/P Abut. A Approach Slab	5.0d	5.0d	15-Jun-17	21-Jun-17	
A16310	F/P Abut. B Approach Slab	5.0d	5.0d	22-Jun-17	28-Jun-17	
A16320	Cure Abut. B Approach Slab	5.0d	5.0d	29-Jun-17	06-Jul-17	
A15160	Install Barrier	5.0d	5.0d	07-Jul-17	13-Jul-17	
A15820	Strip Overhangs	5.0d	5.0d	14-Jul-17	20-Jul-17	
Phase II		115.0d	115.0d	21-Jul-17	28-Dec-17	
Roadway		5.0d	5.0d	15-Dec-17	28-Dec-17	
A15330	Switch Traffic to Phase III	5.0d	5.0d	15-Dec-17	28-Dec-17	
Bridge		102.0d	102.0d	21-Jul-17	14-Dec-17	
A15340	Demo SB Bridge	16.0d	16.0d	21-Jul-17	11-Aug-17	
A15830	F/P Abut. A Stem	8.0d	8.0d	14-Aug-17	23-Aug-17	
A15890	F/P Abut. B Stem	8.0d	8.0d	24-Aug-17	05-Sep-17	
A15900	Cure Abut. B Stem	5.0d	5.0d	06-Sep-17	12-Sep-17	
A15990	Erect Abut. B MSE Wall - Level 1	10.0d	10.0d	06-Sep-17	19-Sep-17	
A15940	Backfill Abut. B Stem	5.0d	5.0d	13-Sep-17	19-Sep-17	
A15910	F/P Abut. B Backwall	5.0d	5.0d	20-Sep-17	26-Sep-17	
A15920	Cure Abut. B Backwall	5.0d	5.0d	27-Sep-17	03-Oct-17	
A16000	Erect Abut. B MSE Wall - Level 2	5.0d	5.0d	04-Oct-17	10-Oct-17	
A16010	Backfill Abut. B Backwall	5.0d	5.0d	04-Oct-17	10-Oct-17	
A15370	Erect Girders	5.0d	5.0d	11-Oct-17	17-Oct-17	
A15380	F/P Deck	20.0d	20.0d	18-Oct-17	14-Nov-17	
A16020	Cure Deck	5.0d	5.0d	15-Nov-17	21-Nov-17	
A16350	F/P Abut. B Approach Slab	5.0d	5.0d	22-Nov-17	30-Nov-17	
A16360	Cure Abut. B Approach Slab	5.0d	5.0d	01-Dec-17	07-Dec-17	
A15390	Install Parapets	5.0d	5.0d	08-Dec-17	14-Dec-17	
Phase III		127.0d	127.0d	29-Dec-17	25-Jun-18	
Roadway		6.0d	6.0d	18-Jun-18	25-Jun-18	
A15600	Switch Traffic to Phase IV	6.0d	6.0d	18-Jun-18	25-Jun-18	
Bridge		114.0d	114.0d	29-Dec-17	15-Jun-18	
A15400	Demo NB Bridge	16.0d	16.0d	29-Dec-17	24-Jan-18	
A16050	F/P Abut. A Stem	8.0d	8.0d	25-Jan-18	06-Feb-18	
A16070	F/P Abut. B Stem	8.0d	8.0d	07-Feb-18	16-Feb-18	
A16110	Cure Abut. B Stem	5.0d	5.0d	20-Feb-18	26-Feb-18	
A16120	Erect Abut. B MSE Wall - Level 1	10.0d	10.0d	20-Feb-18	05-Mar-18	
A16130	Backfill Abut. B Stem	5.0d	5.0d	27-Feb-18	05-Mar-18	
A16150	F/P Abut. B Backwall	5.0d	5.0d	06-Mar-18	13-Mar-18	



4.2 Attachments to the Letter of Submittal

C00107116DB85 I-81 Proposal Schedule		Classic WBS Layout		05-Mar-16 17:52		
Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	
A16180	Cure Abut. B Backwall	5.0d	5.0d	14-Mar-18	20-Mar-18	
A16190	Erect Abut. B MSE Wall - Level 2	5.0d	5.0d	21-Mar-18	27-Mar-18	
A16200	Backfill Abut. B Backwall	5.0d	5.0d	21-Mar-18	27-Mar-18	
A16210	Erect Girders	5.0d	5.0d	28-Mar-18	03-Apr-18	
A16220	F/P Deck	22.0d	22.0d	04-Apr-18	03-May-18	
A16370	F/P Abut. A Approach Slab	5.0d	5.0d	04-May-18	10-May-18	
A16380	Cure Abut. A Approach Slab	5.0d	5.0d	11-May-18	17-May-18	
A16390	F/P Abut. B Approach Slab	5.0d	5.0d	18-May-18	24-May-18	
A16400	Cure Abut. B Approach Slab	5.0d	5.0d	25-May-18	01-Jun-18	
A16240	Install Parapets	5.0d	5.0d	04-Jun-18	08-Jun-18	
A16250	Strip Overhang	5.0d	5.0d	11-Jun-18	15-Jun-18	
Phase IV		51.0d	51.0d	26-Jun-18	04-Sep-18	
Roadway		11.0d	11.0d	21-Aug-18	04-Sep-18	
A6560	Guardrail Adjustments	5.0d	5.0d	21-Aug-18	27-Aug-18	
A6570	Final Pavement Markings	5.0d	5.0d	28-Aug-18	04-Sep-18	
Bridge		39.0d	39.0d	26-Jun-18	20-Aug-18	
A15610	Demo Portion Exist. Structure	14.0d	14.0d	26-Jun-18	16-Jul-18	
A15620	F/P Deck	12.0d	12.0d	17-Jul-18	01-Aug-18	
A16260	Cure Deck	5.0d	5.0d	02-Aug-18	08-Aug-18	
A15630	Install Parapets	8.0d	8.0d	09-Aug-18	20-Aug-18	

Design Activities

The Wagman Team will advance the design from the current RFP documents and incorporate new design elements into final design and construction documents. Design activities will include surveying, roadway design, bridge design, traffic control devices, maintenance of traffic plans, signs, guardrail, pavement markings, drainage design, design of stormwater management facilities, geotechnical investigation including borings and analysis, materials analysis, hydraulic design and pavement design. Design related activities to be performed are as follows:

Scope Validation

Scope Validation activities will begin immediately after receiving NTP from VDOT and will focus on confirming the Team's assumption in three main areas – survey, geotechnical, and environmental – as described below. The Team will work to obtain the necessary information in the field and will evaluate the results based on what was originally anticipated during the procurement. JMT will prepare a Scope Validation summary with backup information and any potential cost adjustments associated with items that differed from our original assumptions. JMT will submit the summary to VDOT for review and will meet with VDOT to discuss and work through questions for resolution.

Survey

JMT will begin survey activities immediately after receiving NTP from VDOT. Since all proposed work is within VDOT right-of-way, property owner notification letters should not be required. JMT will begin the survey work with confirming the location of the existing bridges and roadway pavement edges and elevations with the limits of the project. At the same time, JMT will perform subsurface utility engineering to confirm the location of underground utilities in the areas of project improvements. JMT will update topographic information within the existing right-of-way lines and confirm that critical features have been identified and located. After performing the field work, JMT will update the survey files and DTM in the office for use during final design.

Geotechnical

JMT will begin geotechnical investigations after receiving NTP from VDOT beginning with developing a proposed boring layout and reviewing with VDOT for concurrence. Since all proposed work is within VDOT right-of-way, property owner notification letters should not be required allowing work to begin immediately after confirming that boring locations do not conflict with existing utilities. JMT's survey crews will stake out the proposed boring locations and JMT will begin drilling. JMT will then perform borings in the field, perform laboratory testing and analysis of the samples, and prepare a draft geotechnical report including pavement recommendations and bridge foundation recommendations. JMT will submit the report to VDOT for review and comment. After reviewing and responding to comments and meeting with VDOT to resolve any outstanding items, JMT will prepare and submit the final geotechnical report.

Environmental

JMT will begin environmental activities immediately after receiving NTP from VDOT beginning with delineating wetlands and working through the jurisdictional determination confirmation process with the USACE. After receiving confirmation, JMT will prepare the Joint Permit Application (JPA) and will submit to the regulatory agencies after receiving VDOT approval of the preliminary road and bridge plans. JMT anticipates receiving the permits approximately 2 months after submission of the application.

JMT will prepare the VPDES permit application and will submit after VDOT approval of the Erosion and Sediment Control and SWPPP sheets contained in the final plans. JMT anticipates receiving the permit approximately 1 month after submission of the application.

Roadway

Using survey information provided in the RFP documents, JMT will begin preparing preliminary road plans immediately after receiving NTP from VDOT. Preliminary plans will include horizontal and vertical geometry, super elevation transition locations, drainage and stormwater management facility details, cross sections, and the transportation management plan details – temporary traffic control, public communications, and transportation operation strategies. JMT will assemble the preliminary road plans and will submit to VDOT for review and comment. As updated survey information is received from the field, JMT will evaluate and incorporate into the survey files for the project. In addition, as pavement and slope recommendations are received from the geotechnical engineers, plan details will be updated. After reviewing and responding to comments and meeting with VDOT to resolve any outstanding items, JMT will prepare and submit final road plans.

Bridge

Using survey information provided in the RFP documents and preliminary road plans, JMT will begin preparing preliminary bridge plans immediately after receiving NTP from VDOT. Preliminary plans will include a title sheet – plan, developed section, and general notes, transverse section, sequence of construction, and abutment details – plan, elevation, and sections. JMT will assemble the preliminary bridge plans and will submit to VDOT for review and comment. As updated survey information is received from the field, JMT will evaluate and incorporate into the survey files for the project. In addition, as bridge foundation and slope recommendations are received from the geotechnical engineers, plan details will be updated. After reviewing and responding to comments and meeting with VDOT to resolve any outstanding items, JMT will prepare and submit final bridge plans.

Schedule & Project Management

The schedule is the most important tool in the construction process. It is the way to communicate the intended sequence and progress of the project to the construction team as well as the project stakeholders. The schedule is used to monitor the progress of the project and help identify potential deficiencies and problem areas before they develop into a critical impact.

The project management team will continually review and monitor the schedule and use the information gathered to develop mitigation strategies for any activities that are identified as potential impacts. This proactive approach will ensure that the project continues to move forward and that any potential delays are addressed immediately. A number of different tools will be put in place to assist with this process and some are as follows:

- Weekly schedule and task force meetings between the engineering and construction team members during the design phase
- Weekly construction scheduling meetings throughout the duration of the construction process with the construction team (including management)
- Monthly progress meetings to include all project stakeholders, project team members, and subcontractors
- Three week look ahead schedules
- RFI logs
- Submittal logs
- Subcontract/purchase order logs
- Shop drawing tracking logs
- Weekly manpower & equipment reviews

4.2 Attachments to the Letter of Submittal

All of the above referenced tools will be utilized simultaneously to provide a current and realistic picture of the progress and status at any given time. Information will be presented at meetings to all who are involved for the opportunity to discuss and address any concerns in front of all that are affected. This keeps the line of communication open and allows resolutions and recovery strategies to be developed at an early stage, therefore preventing any further conflict.

Schedule Recovery

Unexpected issues and unforeseen conditions may occur throughout the construction process. The Wagman Team includes a number of experienced and well respected members in the design-build field who have the ability to recognize and react to these unforeseen issues. The Wagman Team will aggressively manage the project and mitigate any issues that affect the construction schedule. A schedule recovery strategy will be developed in these cases and immediately implemented. These recovery strategies will be closely monitored and followed until the situation has been successfully resolved.

Subcontractor Scheduling

Subcontractors are a critical part of the project schedule. The Wagman Team will closely evaluate each subcontractor based on quality, performance, and reputation. Starting with the initial subcontract paperwork, each subcontractor will be intimately involved with every aspect of the project schedule and their input will be vital. This includes progress meetings, weekly look-ahead schedules, material submittals, and recovery strategies if needed. Accountability is the key to effective subcontractor management and it will be perfectly clear that they will be accountable for all aspects of their work from quality to schedule. Should a situation occur where subcontractor performance is deemed unacceptable, measures will already be in place to remedy the situation and prevent any schedule impacts.

Preliminary and Baseline Schedule

The Wagman Team will develop and submit a Preliminary Schedule and Baseline Schedule in accordance with Part 3, Section 11.1 if we are awarded this contract.



Appendices



ATTACHMENT 4.0.1.1

Replacement of Structures 18942 and 18944 over Rte. 808 Halls Bottom Rd. and Sinking Creek

LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST

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

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
Letter of Submittal and Attachments Checklist	Attachment 4.0.1.1	Section 4.0.1.1	Appendices
Acknowledgement of RFP, Revisions, and/or Addenda	Attachment 3.6 (Form C-78-RFP)	Sections 3.6, 4.0.1.1	Appendices Tab Attachment 3.6
Letter of Submittal	NA	Sections 4.1	1-2
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	1
Offeror's official representative information	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	yes	Section 4.1.3	1
Point of Contact information	yes	Section 4.1.4	1
Principal Officer information	NA	Section 4.1.5	1
Final Completion Date	NA	Section 4.1.6	1
Proposal Payment Agreement or Waiver of Proposal Payment	Attachment 9.3.1 or 9.3.2	Section 4.1.7	1; Appendices Tab Attachment 9.3.1
Certification Regarding Debarment Forms	Attachment 11.8.6(a) Attachment 11.8.6(b)	Section 4.1.8	2; Appendices Tab

ATTACHMENT 4.0.1.1

Replacement of Structures 18942 and 18944 over Rte. 808 Halls Bottom Rd. and Sinking Creek

LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
			Attachment 11.8.6
Written statement of percent DBE participation	NA	Section 4.1.9	2
Attachments to the Letter of Submittal	NA	Section 4.2	3-18
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	3
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1	3-4
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.1	5-15
Conceptual Roadway Plans – Plan View	NA	Section 4.2.2	8; Volume II R1-12; Tab Section 4.2.2
Conceptual Roadway Plans – Typical Sections	NA	Section 4.2.2	8; Volume II R1-12; Tab Section 4.2.2
Conceptual Bridge Plans – Plan View	NA	Section 4.2.3	8; Volume II B1-4; Section 4.2.3
Conceptual Bridge Plans – Transverse Section	NA	Section 4.2.3	8; Volume II B1-4; Section 4.2.3
Conceptual Bridge Plans – Abutment/Pier Configuration	NA	Section 4.2.3	8; Volume II B1-4;

ATTACHMENT 4.0.1.1

Replacement of Structures 18942 and 18944 over Rte. 808 Halls Bottom Rd. and Sinking Creek

LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
			Section 4.2.3
Proposal Schedule	NA	Section 4.2.4	8-18
Proposal Schedule	NA	Section 4.2.4.1	8; Volume II S-16; Tab Section 4.2.4.1
Proposal Schedule Narrative	NA	Section 4.2.4.2	9-18
Proposal Schedule in electronic format (CD-ROM)	NA	Section 4.2.4	CD Enclosed with proposal



Attachment 3.6

Form C-78-RFP

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

RFP NO. C00107116DB85
 PROJECT NO.: 0081-095-038, P101, RW201, C501, B675, B676

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 December 21, 2015 - RFP
(Date)
2. Cover letter of February 4, 2016 – Addendum No. 1
(Date)
3. Cover letter of February 29, 2016 – Addendum No. 2
(Date)
4. Cover letter of March 1, 2016 – Addendum No. 3
(Date)



 SIGNATURE

3/07/2016

 DATE

David W. Lyle

PRINTED NAME

Vice President,
 Design-Build/Major Pursuits

TITLE



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 7th day of March, 2016, by and between the Virginia Department of Transportation ("VDOT"), and Wagman Heavy Civil, Inc. ("Offeror").

WITNESSETH:

WHEREAS, Offeror is one of the entities who submitted Statements of Qualifications ("SOQs") pursuant to VDOT's *September 25, 2015* Request for Qualifications ("RFQ") and was invited to submit proposals in response to a Request for Proposals ("RFP") for the **Replacement of I-81 Structure 18942 and 18944 over Rte. 808 Halls Bottom Rd. and Sinking Creek, Project No. 0081-095-038** ("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: _____

WAGMAN HEAVY CIVIL, INC.

By: David W. Lyle

Name: 

Title: Vice President, Design-Build/Major Pursuits

Attachment 11.8.6

Debarment Forms

(Primary and Lower Tier)

ATTACHMENT 11.8.6(a)
CERTIFICATION REGARDING DEBARMENT
PRIMARY COVERED TRANSACTIONS

Project No.: 0081-095-038

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.

	<u>3/07/2016</u>	Vice President, Design-Build/Major Pursuits
Signature	Date	Title

Wagman Heavy Civil, Inc.
Name of Firm

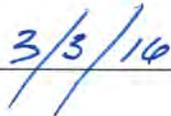
ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0081-095-038

- 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	 Date	<u>Senior Vice President</u> Title
<hr/>		
Johnson, Mirmiran & Thompson, Inc.		
<hr/>		
Name of Firm		

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

Project No.: 0081-095-038

- 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.

	February 25, 2016	Vice President
Signature	Date	Title

DMY Engineering Consultants Inc.

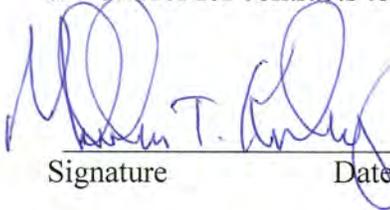
Name of Firm

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

Project No.: 0081-095-038

- 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.

 2/26/16 President
Signature Date Title

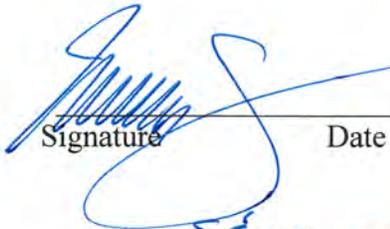
NXL Construction Services, Inc.
Name of Firm

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

Project No.: 0081-095-038

- 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.

 _____ Signature	Date	2-26-16		Title
				<u>Vice President</u>
_____ Name of Firm				
S&ME, Inc.				

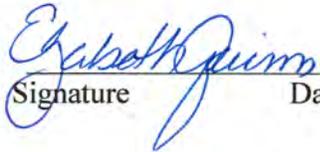
ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0081-095-038

- 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.

	March 2, 2016	President
Signature	Date	Title

Quinn Consulting Services, Inc.
Name of Firm

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

Project No.: 0081-095-038

- 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.

	3/1/2016	President
Signature	Date	Title

Froehling & Robertson, Inc.

Name of Firm



3290 N. Susquehanna Trail
York, PA 17406
T 717-764-8521
F 717-764-2799

Volume II

Roadway Conceptual Plans
Bridge Conceptual Plans
Proposal Schedule

Proposal Submittal

Letter of Submittal and Attachments

**Replacement of I-81 Structures 18942 & 18944 over Route 808
Halls Bottom Road and Sinking Creek**

From: 0.94 Miles Northeast of Route F310

To: 1.83 Miles Southwest of Rte. 611 Spring Creek Road

March 7, 2016

State Project No.: RW201, C501, B675, B676,0081-095-038, P101

Contract ID Number: C00107116DB85

Washington County, Virginia



4.2.2

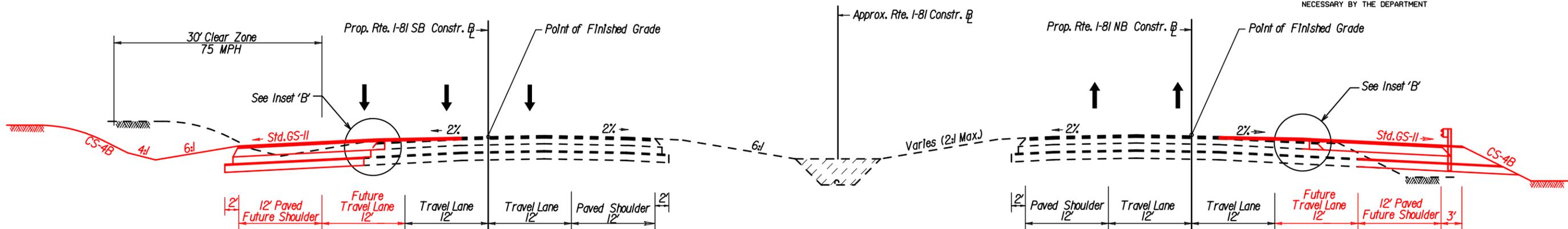
Conceptual Roadway Plans

PROJECT MANAGER <Project Mgr. Name (000) 000-0000 (District)>
SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
DESIGN BY <Designer Name (000) 000-0000 (District)>
SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 C-501	2A(1)

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

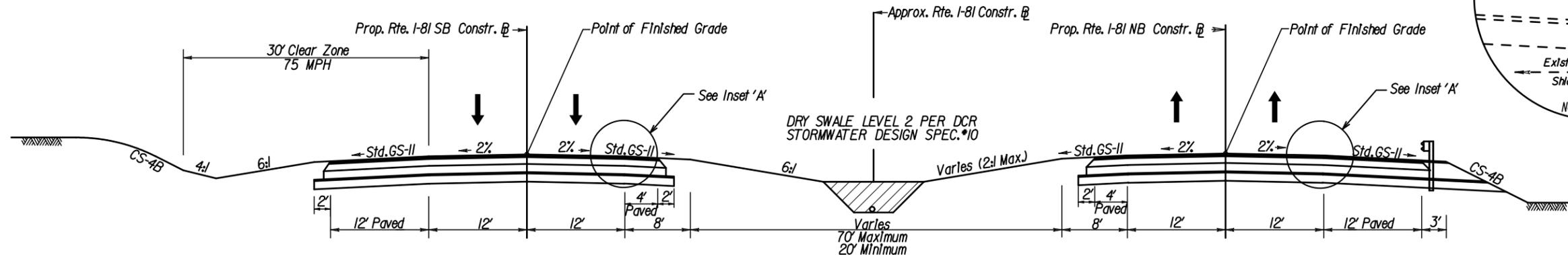
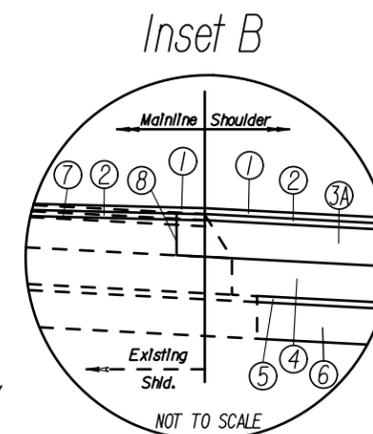
TYPICAL SECTIONS (I-81 DESIGN BUILD)



SBL
Station 301+74.64 to Station 309+88.06
Station 328+99.94 to Station 332+59.47

**FUTURE I-81 EXPANSION
I-81 over Halls Bottom Road**
Rural Principal Arterial (Freeway)
75 MPH Design Speed - VDOT Standard GS-1

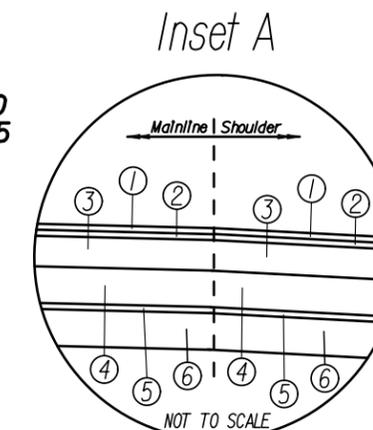
NBL
Station 193+78.57 to Station 210+00.00
Station 229+00.00 to Station 234+31.15



SBL
Station 301+74.64 to Station 309+88.06
Station 328+99.94 to Station 332+59.47

I-81 over Halls Bottom Road
Rural Principal Arterial (Freeway)
75 MPH Design Speed - VDOT Standard GS-1

NBL
Station 193+78.57 to Station 210+00.00
Station 229+00.00 to Station 234+31.15



Pavement Legend

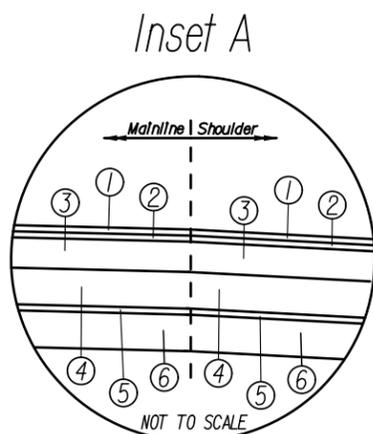
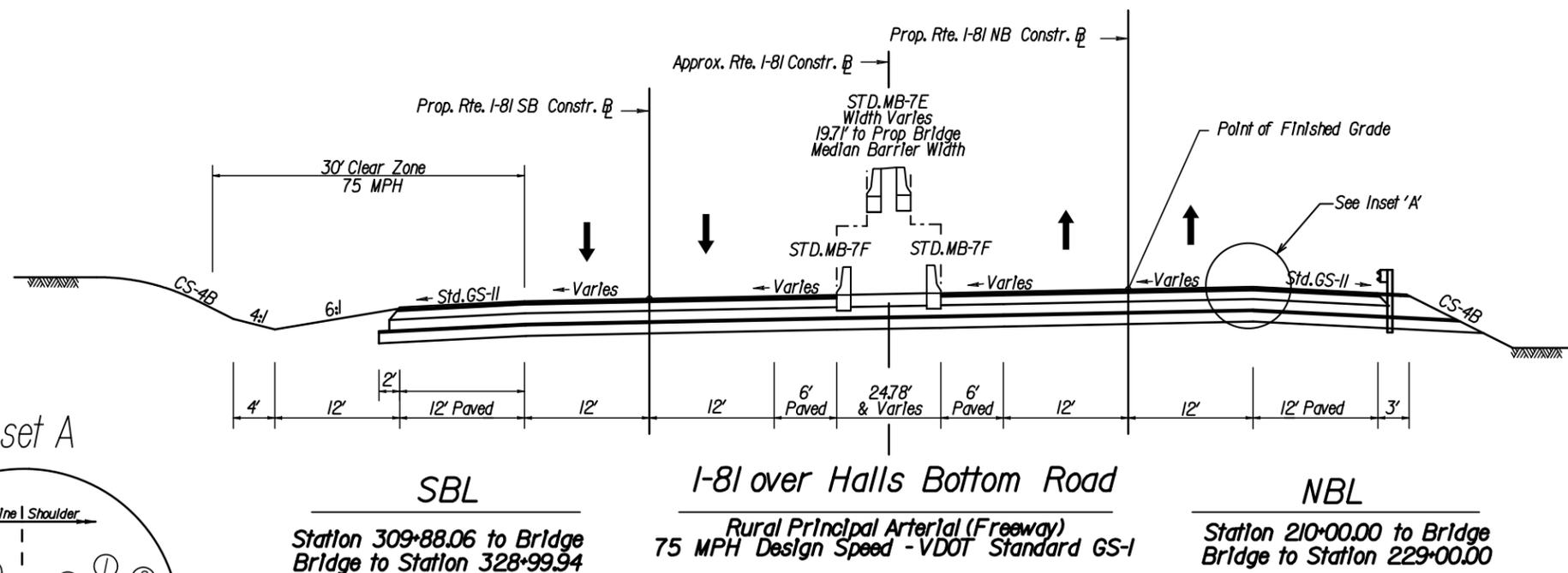
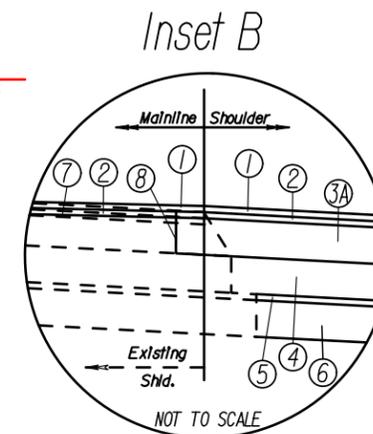
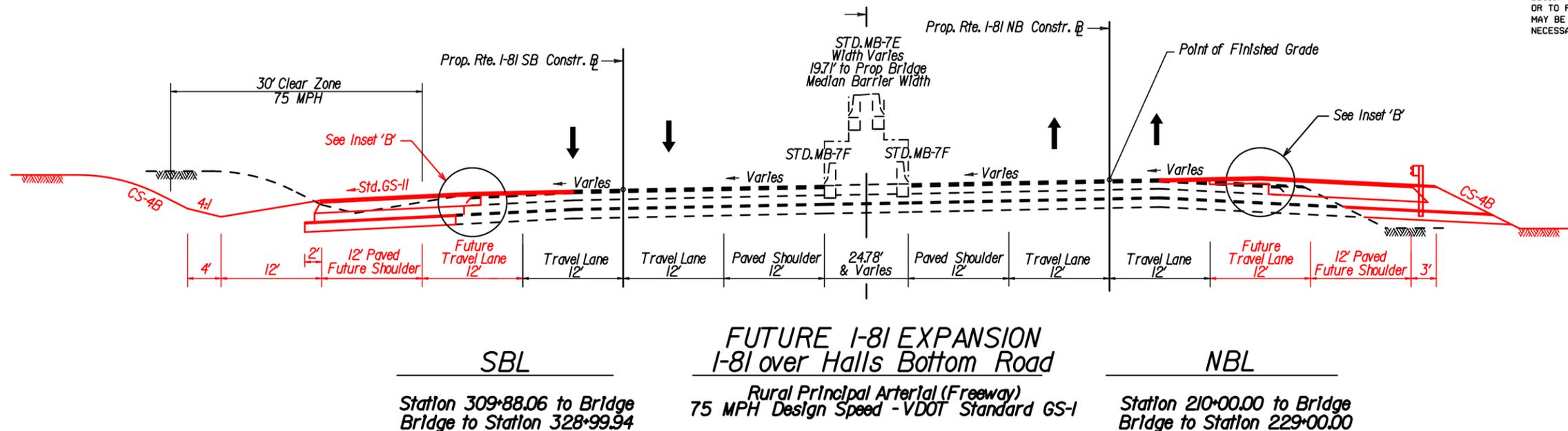
- | | | | | | |
|----|---|---|--|---|--|
| 1 | 2.0" Asphalt Concrete Surface Course, Type SM-12.5E @ 220 LBS/SY | 4 | 12.0" Aggregate Base Material, Type 1, No. 21B | 8 | Full Depth Asphalt Saw Cut (per VDOT Std.WP-2) |
| 2 | 2.0" Asphalt Concrete Intermediate Course, Type IM-19.0E @ 230 LBS/SY | 5 | 2.0" Aggregate Base Material, Type 1, No. 21B (Used as a Levelling Course) | | |
| 3 | 10.0" Asphalt Concrete Base Course, Type BM-25.0A | 6 | 12.0" Aggregate Material No. 1. | | |
| 3A | Variable Asphalt Concrete Base Course, Type BM-25.0A | 7 | Flexible Pavement Planning (Varies 0"-4.5") | | |
- Note: The subbase course(s) shall extend through the shoulders to "daylight" where feasible. Underdrain to be utilized where needed.

PROJECT MANAGER <Project Mgr. Name (000) 000-0000 (District)>
SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
DESIGN BY <Designer Name (000) 000-0000 (District)>
SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

TYPICAL SECTIONS (I-81 DESIGN BUILD)

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 C-501	2A(2)

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



Pavement Legend

- 1 2.0" Asphalt Concrete Surface Course, Type SM-12.5E @ 220 LBS/SY
- 2 2.0" Asphalt Concrete Intermediate Course, Type IM-19.0E @ 230 LBS/SY
- 3 10.0" Asphalt Concrete Base Course, Type BM-25.0A
- 3A Variable Asphalt Concrete Base Course, Type BM-25.0A
- 4 12.0" Aggregate Base Material, Type I, No. 21B
- 5 2.0" Aggregate Base Material, Type I, No. 21B (Used as a Levelling Course)
- 6 12.0" Aggregate Material No. 1.
- 7 Flexible Pavement Planning - (Varies 0'-4.5')
- 8 Full Depth Asphalt Saw Cut (per VDOT Std. WP-2)

Note: The subbase course(s) shall extend through the shoulders to "daylight" where feasible. Underdrain to be utilized where needed.

PROJECT MANAGER <Project Mgr. Name (000) 000-0000 (District)>
SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
DESIGN BY <Designer Name (000) 000-0000 (District)>
SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

Utility owners

Appalachian Power Company
13563 Owens Drive
Glade Spring, VA 24340
Ms. Scarlet Collier, Engineering Technician
(276) 429-4117

BVU Authority-Fiber optic
P.O. Box 8100, 15022 Lee Highway
Bristol, VA 24202
Mr. Richard Adkins, P.E.
(276) 645-8730

COMCAST Communications
P.O. Box 38
Glade Spring, VA 24340
Mr. Earl Combs, Technician
(276) 235-1611

Washington County Service Authority
25122 Regal Drive
Ablington, VA 24211
Mr. Mark Osborne, Technical Manager
(276) 628-7151

CenturyLink
2 Spruce Street
Bristol, TN 37620
Ms. Marla Buckles, Engineering Technician
(423) 989-2243

Curve SBL-1
PI = 297+35.30
DELTA = 6° 34' 34.05" (LT)
D = 0' 44" 51"
T = 440.30'
L = 879.64'
R = 7,664.00'
PC = 292+95.00
PCC = 301+74.64
Lr = 147'
V = 75 MPH
E = 3.1%

Curve BLI-1
PI = 111+38.61
DELTA = 18° 21' 38.79" (LT)
D = 0' 44" 51"
T = 1,238.61'
L = 2,455.97'
R = 7,664.00'
PC = 99+00.00
PT = 123+55.97
Lr = NA
V = 75 MPH
E = NA

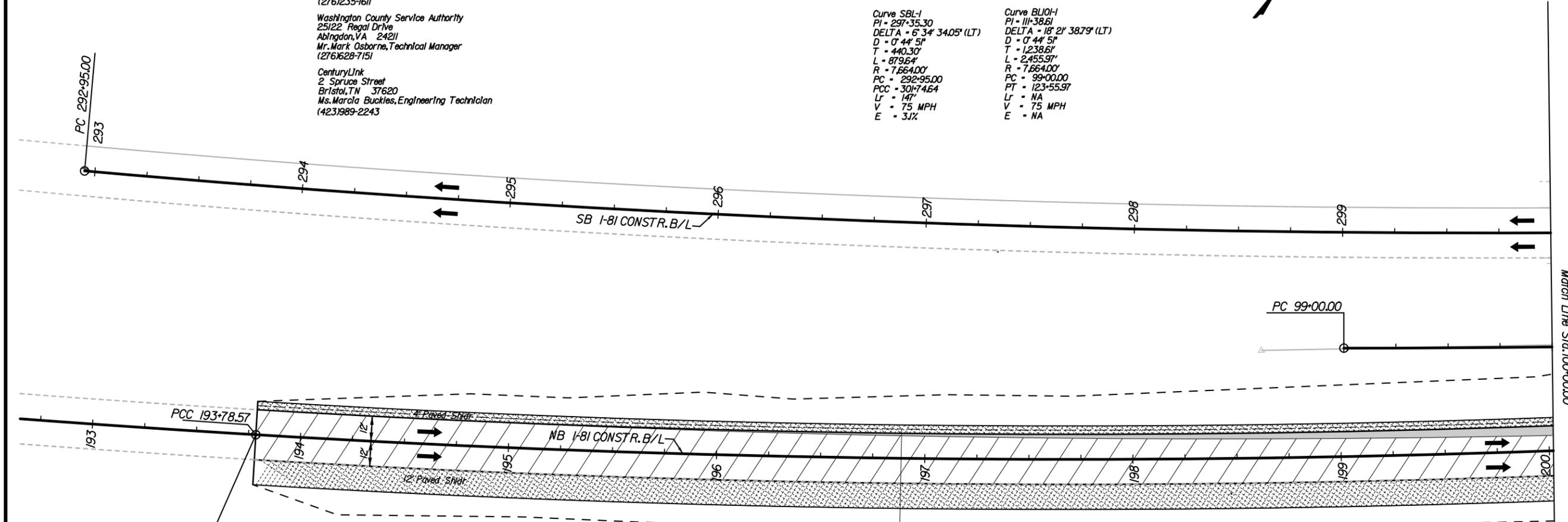
Curve NBL-2
PI = 198+47.86
DELTA = 8° 15' 32.36" (LT)
D = 0' 52" 53"
T = 469.29'
L = 936.95'
R = 6,500.00'
PCC = 193+78.57
PCC = 203+15.52
Lr = 171'
V = 75 MPH
E = 3.6%

PC 292+95.00
293



REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 C-501	1

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



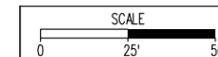
Begin Construction
NB I-81 Sta. 193+78.57

Curve NBL-1
PI = 190+39.51
DELTA = 5° 04' 22.59" (LT)
D = 0' 44" 51"
T = 339.51'
L = 678.57'
R = 7,664.00'
PC = 187+00.00
PCC = 193+78.57
Lr = 147'
V = 75 MPH
E = 3.1%

Construction Baseline	Maximum Profile Grade
I-81 NB	3.16%
I-81 SB	2.86%

PLAN LEGEND

- Denotes Construction Limits In Cuts
- Denotes Construction Limits In Fills
- Denotes Pavement Resurfacing
- Denotes Proposed Pavement
- Denotes Proposed Shoulder Pavement



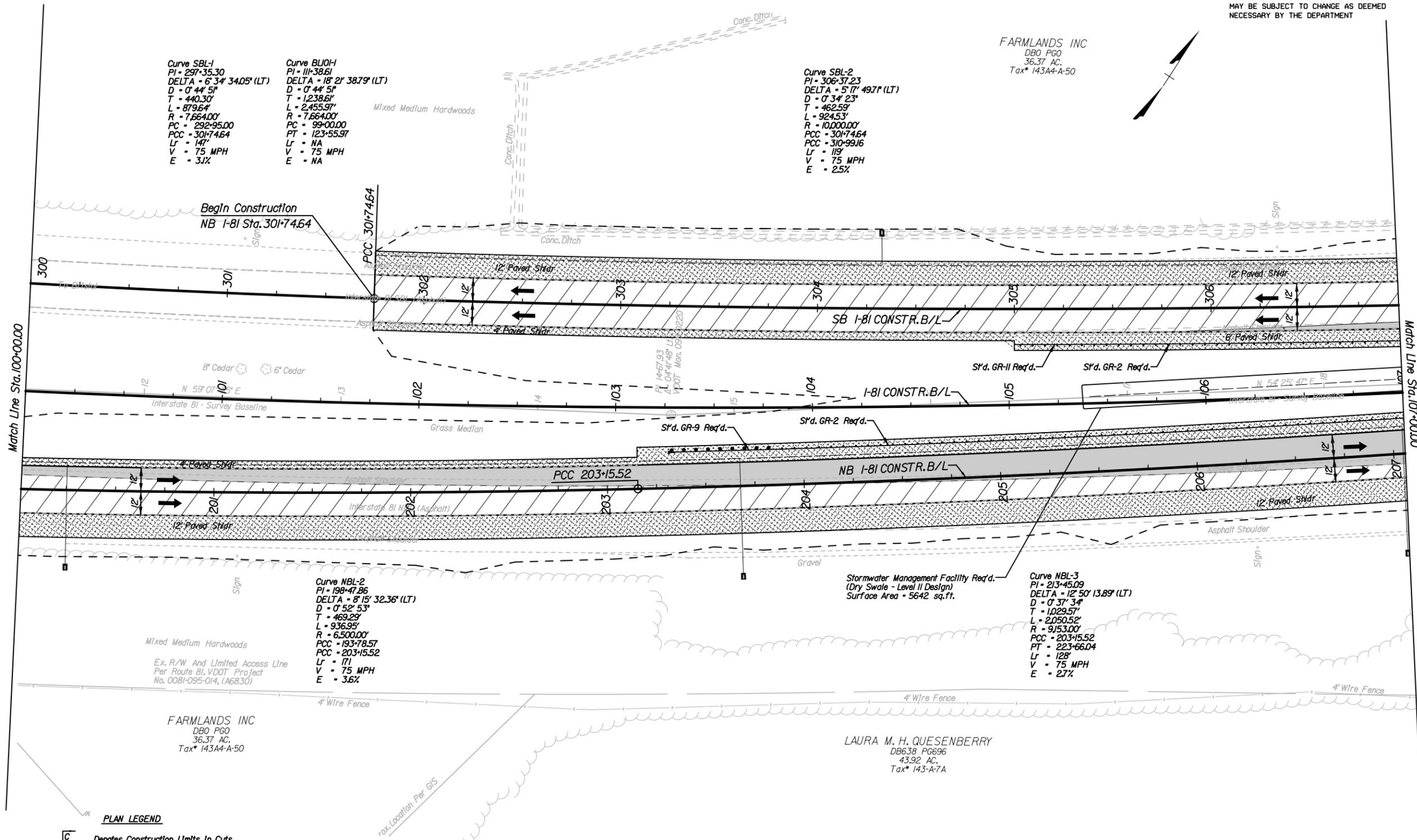
PROJECT
0081-095-038

SHEET NO.
1

PROJECT MANAGER <Project Mgr. Name (000) 000-0000 (District)>
 SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
 DESIGN BY <Designer Name (000) 000-0000 (District)>
 SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 C-501	2

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



PLAN LEGEND

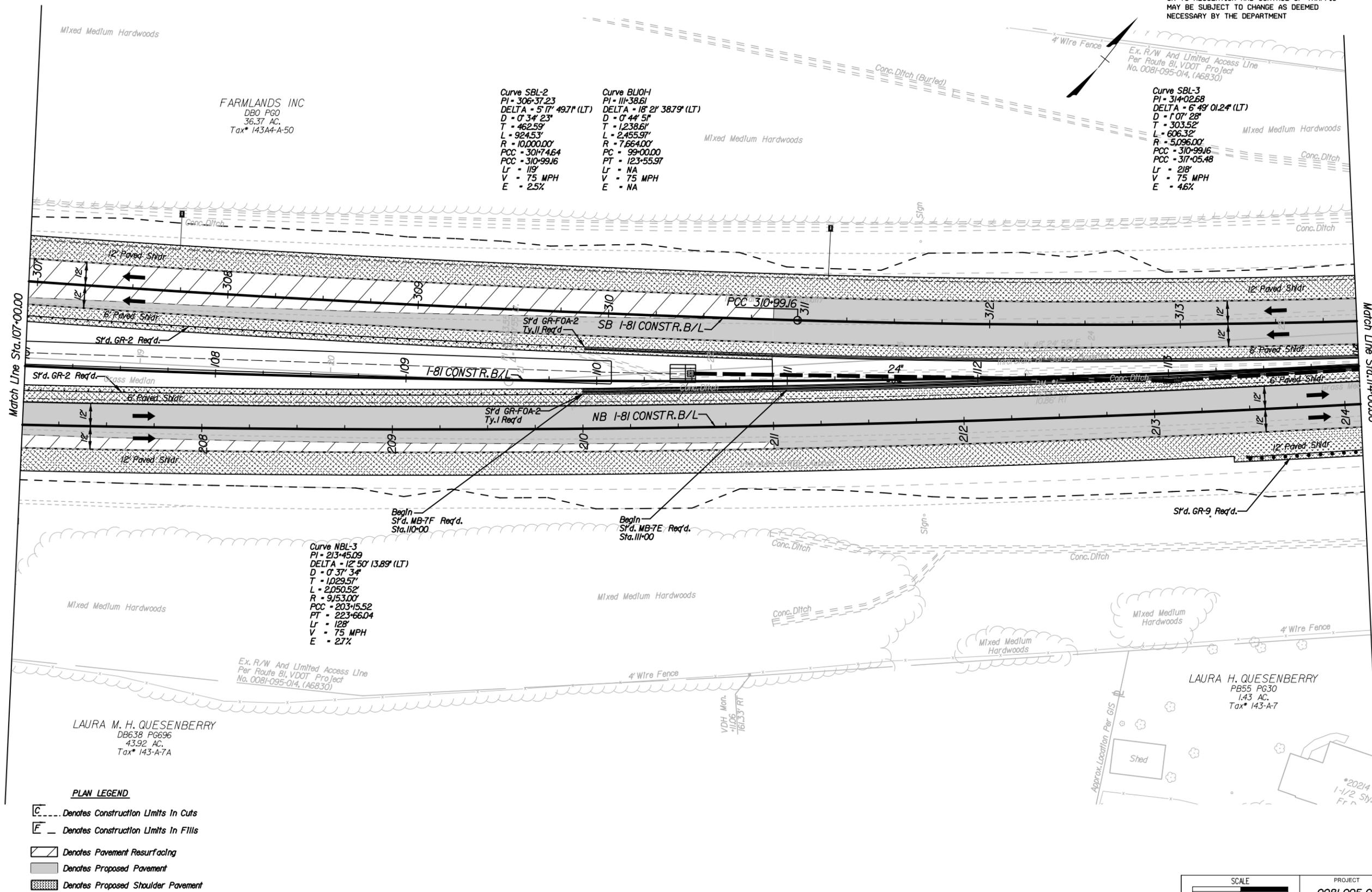
- Denotes Construction Limits In Cuts
- Denotes Construction Limits In Fills
- Denotes Pavement Resurfacing
- Denotes Proposed Pavement
- Denotes Proposed Shoulder Pavement

SCALE 0 25' 50'	PROJECT 0081-095-038	SHEET NO. 2
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PROJECT MANAGER <Project Mgr. Name (000) 000-0000 (District)>
SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
DESIGN BY <Designer Name (000) 000-0000 (District)>
SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 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



FARMLANDS INC
DB0 P60
36.37 AC.
Tax* 143A4-A-50

Curve SBL-2
PI = 306+37.23
DELTA = 5° 17' 49.7" (LT)
D = 0° 34' 23"
T = 462.59'
L = 924.53'
R = 10,000.00'
PCC = 301+74.64
PCC = 310+99.16
Lr = 119'
V = 75 MPH
E = 2.5%

Curve BL10H
PI = 111+38.61
DELTA = 18° 21' 38.7" (LT)
D = 0° 44' 51"
T = 1,238.61'
L = 2,455.97'
R = 7,664.00'
PCC = 99+00.00
PT = 123+55.97
Lr = NA
V = 75 MPH
E = NA

Curve SBL-3
PI = 314+02.68
DELTA = 6° 49' 01.24" (LT)
D = 1° 07' 28"
T = 303.52'
L = 606.32'
R = 5,096.00'
PCC = 310+99.16
PCC = 317+05.48
Lr = 218'
V = 75 MPH
E = 4.6%

Curve NBL-3
PI = 213+45.09
DELTA = 12° 50' 13.89" (LT)
D = 0° 37' 34"
T = 1,029.57'
L = 2,050.52'
R = 9,153.00'
PCC = 203+15.52
PT = 223+66.04
Lr = 128'
V = 75 MPH
E = 2.7%

LAURA M. H. QUESENBERRY
DB638 P6696
43.92 AC.
Tax* 143-A-7A

LAURA H. QUESENBERRY
PB55 P630
1.43 AC.
Tax* 143-A-7

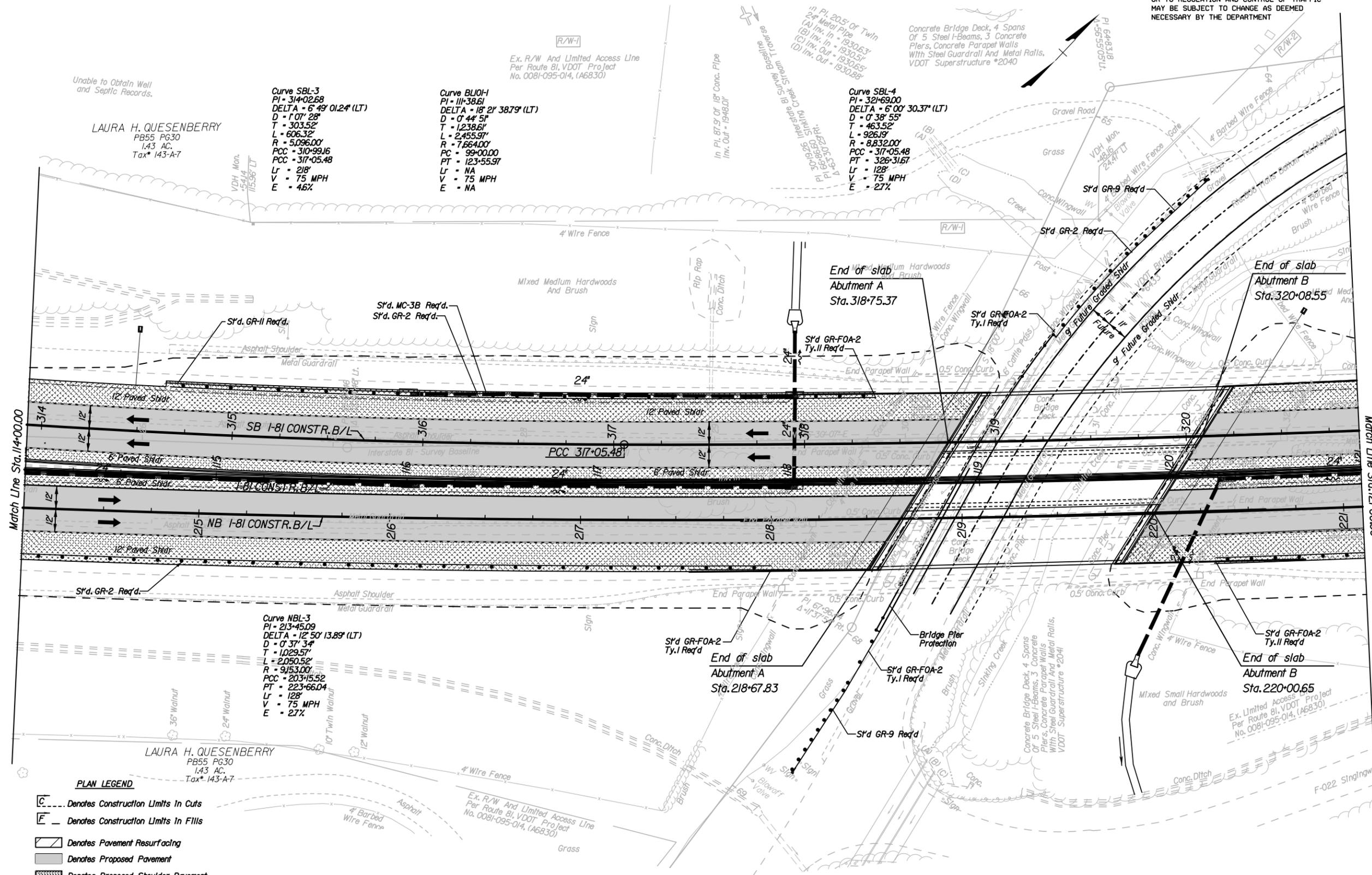
- PLAN LEGEND**
- Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills
 - Denotes Pavement Resurfacing
 - Denotes Proposed Pavement
 - Denotes Proposed Shoulder Pavement

SCALE	PROJECT	SHEET NO.
0 25 50'	0081-095-038	3

PROJECT MANAGER <ProJect Mgr. Name (000) 000-0000 (District)>
 SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
 DESIGN BY <Designer Name (000) 000-0000 (District)>
 SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 C-501	4

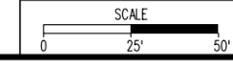
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Match Line Sta. 114+00.00

Match Line Sta. 121+00.00

- PLAN LEGEND**
- Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills
 - Denotes Pavement Resurfacing
 - Denotes Proposed Pavement
 - Denotes Proposed Shoulder Pavement

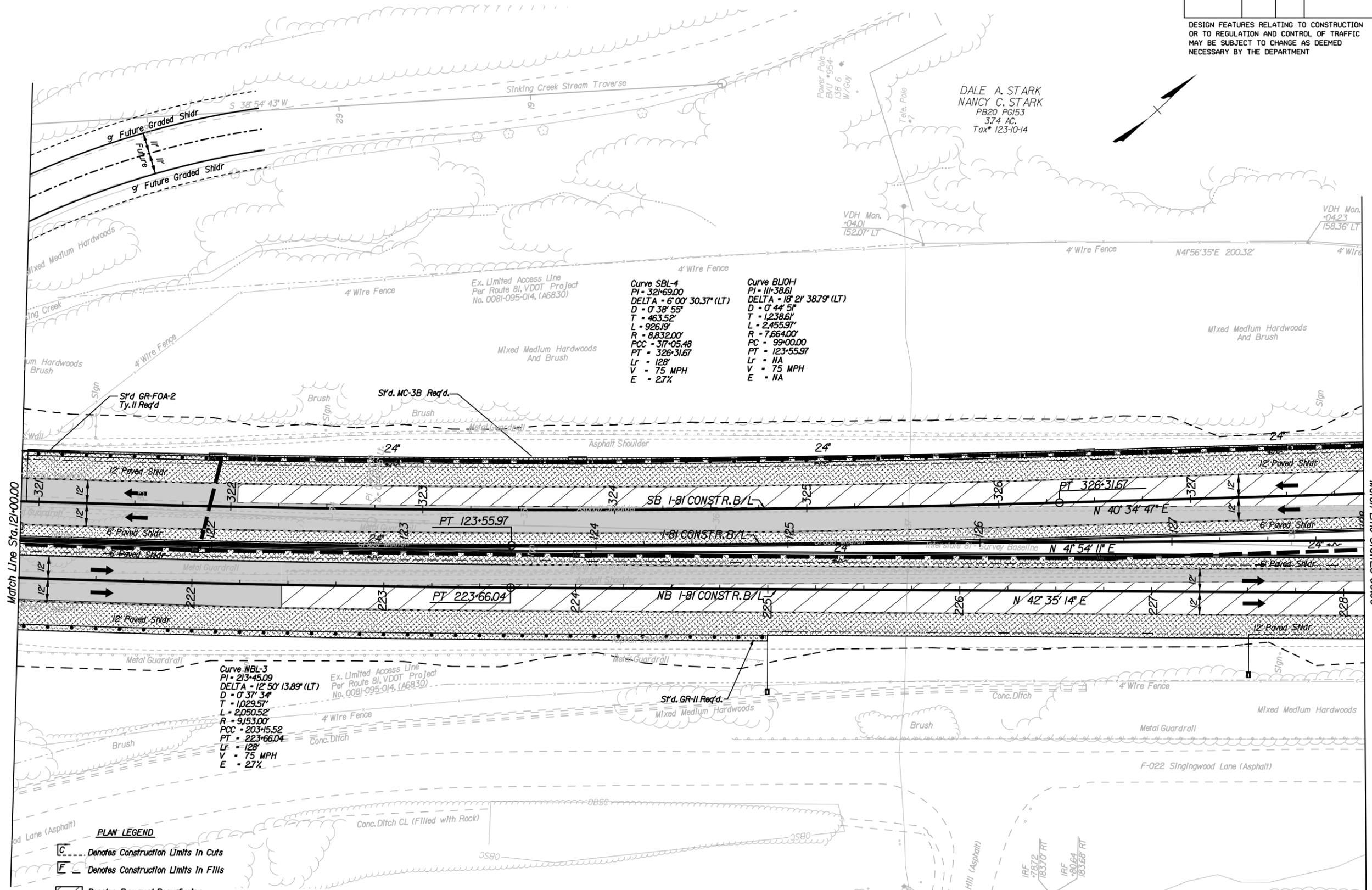


PROJECT	SHEET NO.
0081-095-038	4

PROJECT MANAGER <Project Mgr. Name (000) 000-0000 (District)>
 SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
 DESIGN BY <Designer Name (000) 000-0000 (District)>
 SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 C-501	5

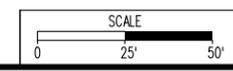
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



Match Line Sta. 121+00.00

Match Line Sta. 128+00.00

- PLAN LEGEND**
- Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills
 - Denotes Pavement Resurfacing
 - Denotes Proposed Pavement
 - Denotes Proposed Shoulder Pavement

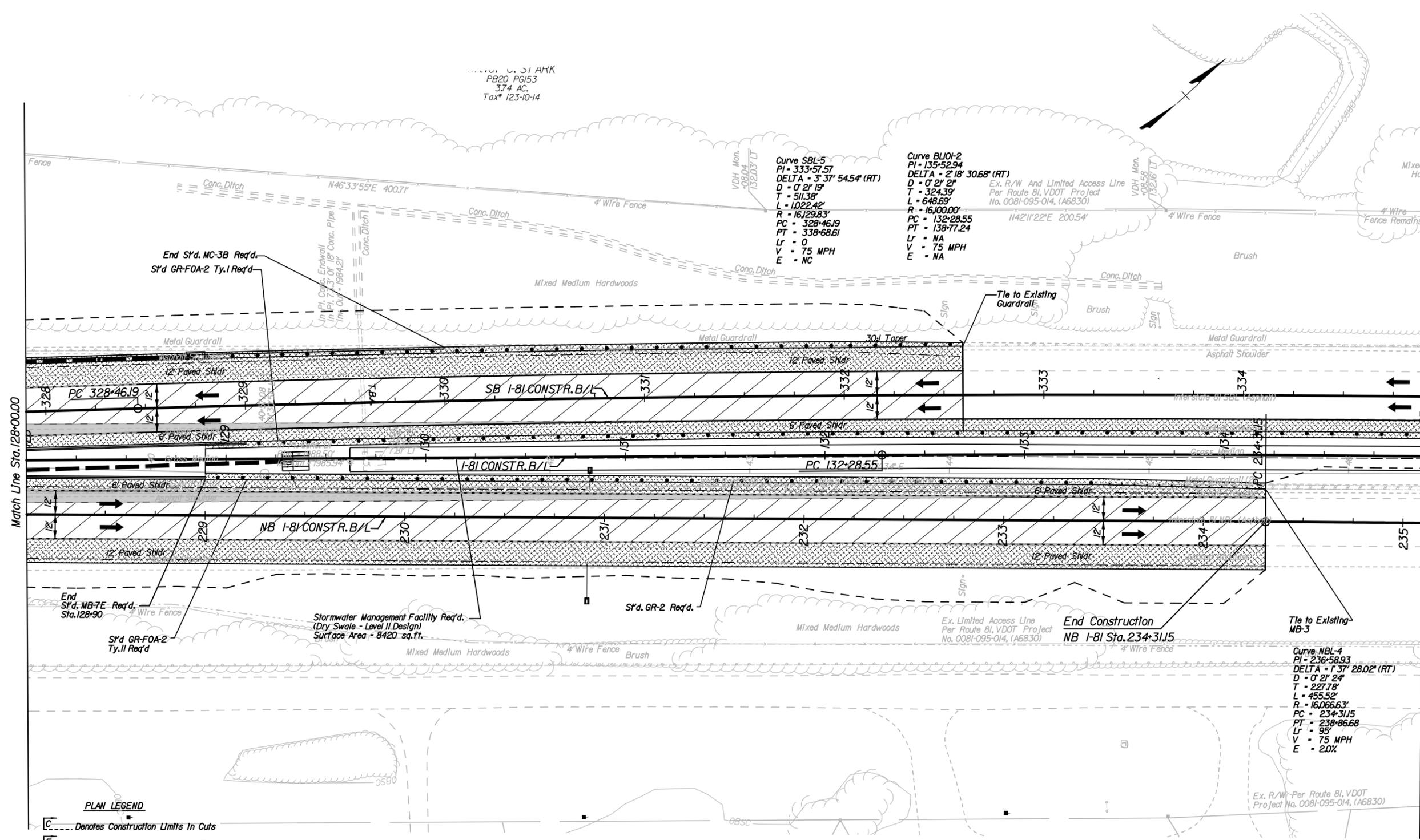


PROJECT	SHEET NO.
0081-095-038	5

PROJECT MANAGER <Project Mgr. Name (000) 000-0000 (District)>
 SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
 DESIGN BY <Designer Name (000) 000-0000 (District)>
 SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 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 Sta. 128+00.00

Match Line Sta. 135+00.00

PLAN LEGEND

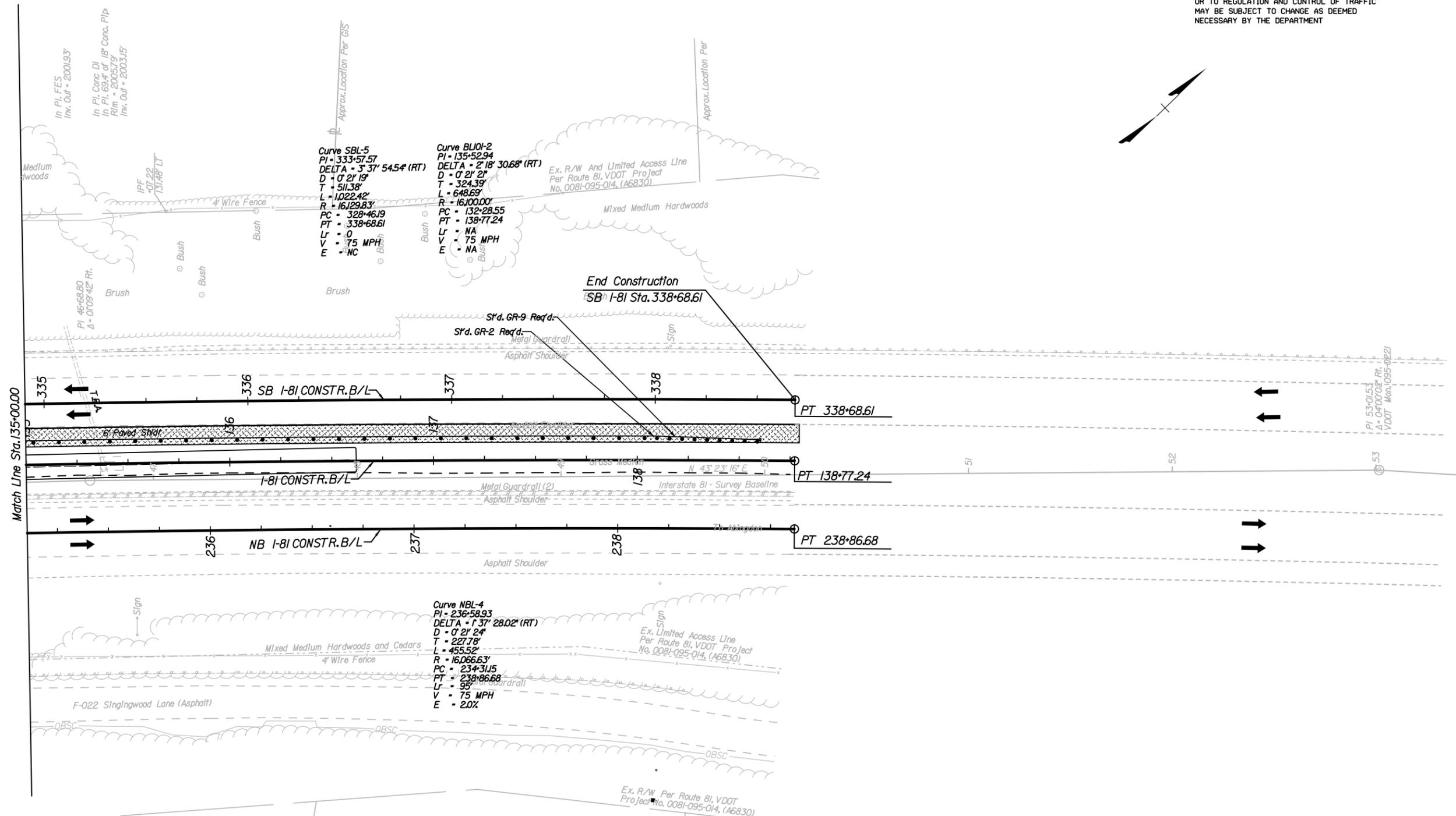
	Denotes Construction Limits In Cuts
	Denotes Construction Limits In Fills
	Denotes Pavement Resurfacing
	Denotes Proposed Pavement
	Denotes Proposed Shoulder Pavement

SCALE 0 25 50'	PROJECT 0081-095-038	SHEET NO. 6
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PROJECT MANAGER <Project Mgr. Name (000) 000-0000 (District)>
 SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
 DESIGN BY <Designer Name (000) 000-0000 (District)>
 SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 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



PLAN LEGEND

- Denotes Construction Limits In Cuts
- Denotes Construction Limits In Fills
- Denotes Pavement Resurfacing
- Denotes Proposed Pavement
- Denotes Proposed Shoulder Pavement



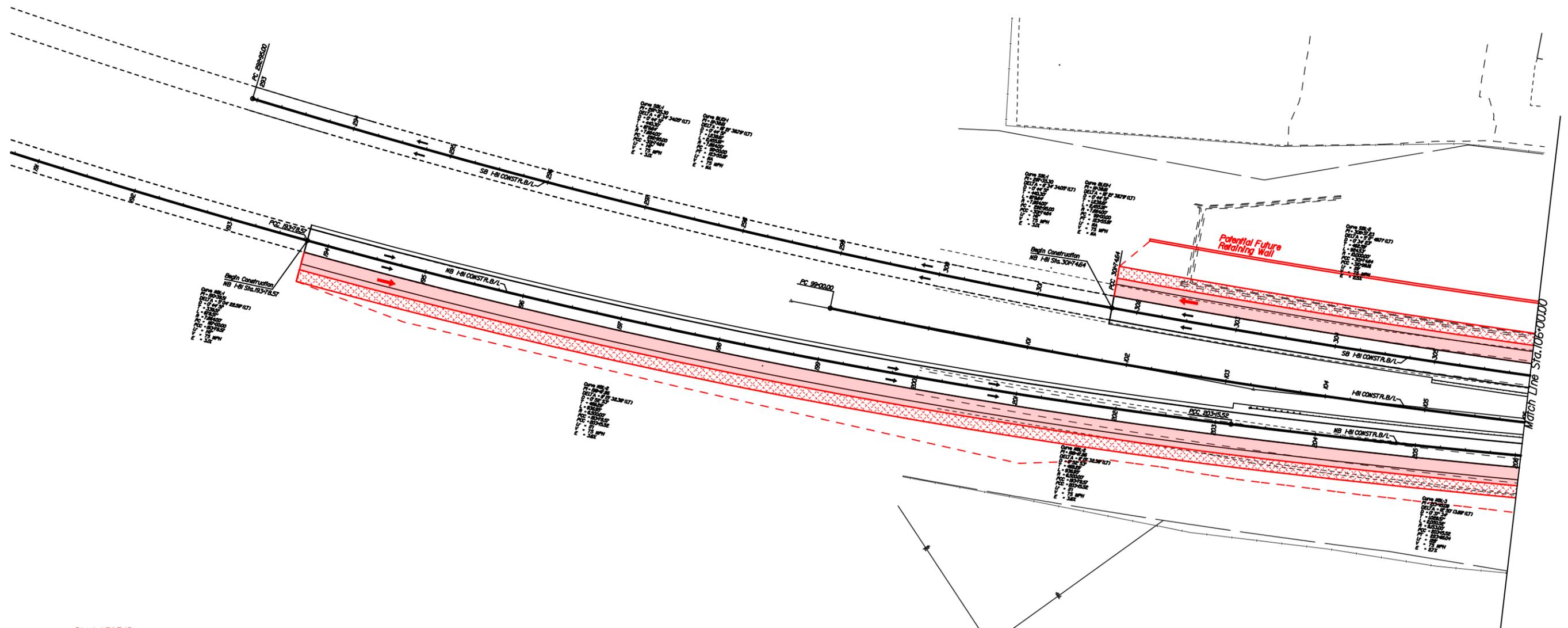
PROJECT	SHEET NO.
0081-095-038	7

PROJECT MANAGER <Project Mgr. Name (000) 000-0000 (District)>
 SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
 DESIGN BY <Designer Name (000) 000-0000 (District)>
 SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

Future Third Lane Widening

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 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



- PLAN LEGEND**
- Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills
 - Denotes Future Proposed Pavement
 - Denotes Future Shoulder Pavement

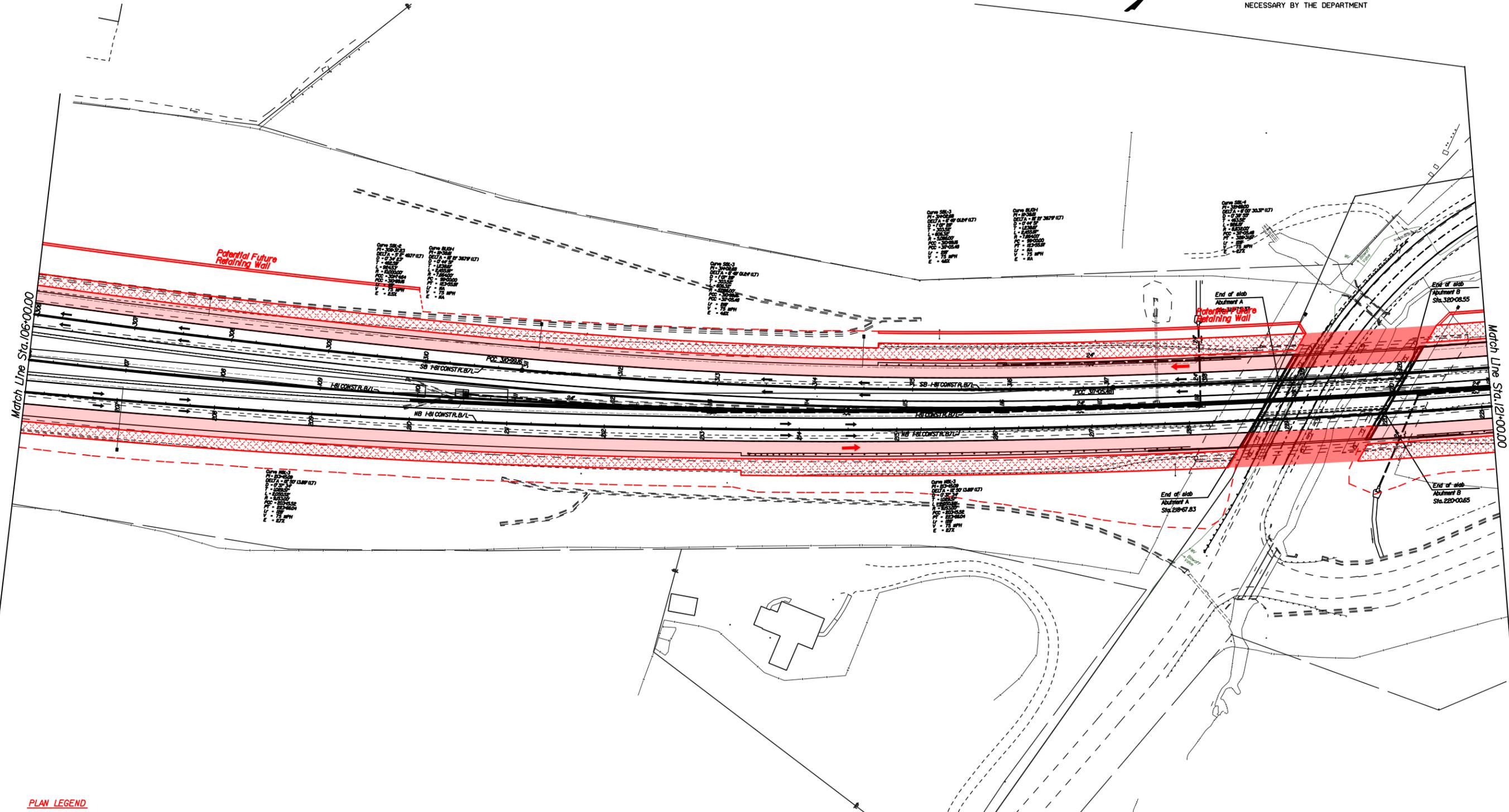
SCALE 0 50' 100'	PROJECT 0081-095-038	SHEET NO. 8
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PROJECT MANAGER <Project Mgr. Name (000) 000-0000 (District)>
SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
DESIGN BY <Designer Name (000) 000-0000 (District)>
SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

Future Third Lane Widening

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 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



- PLAN LEGEND**
- Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills
 - Denotes Future Proposed Pavement
 - Denotes Future Shoulder Pavement

SCALE 0 50' 100'

PROJECT 0081-095-038

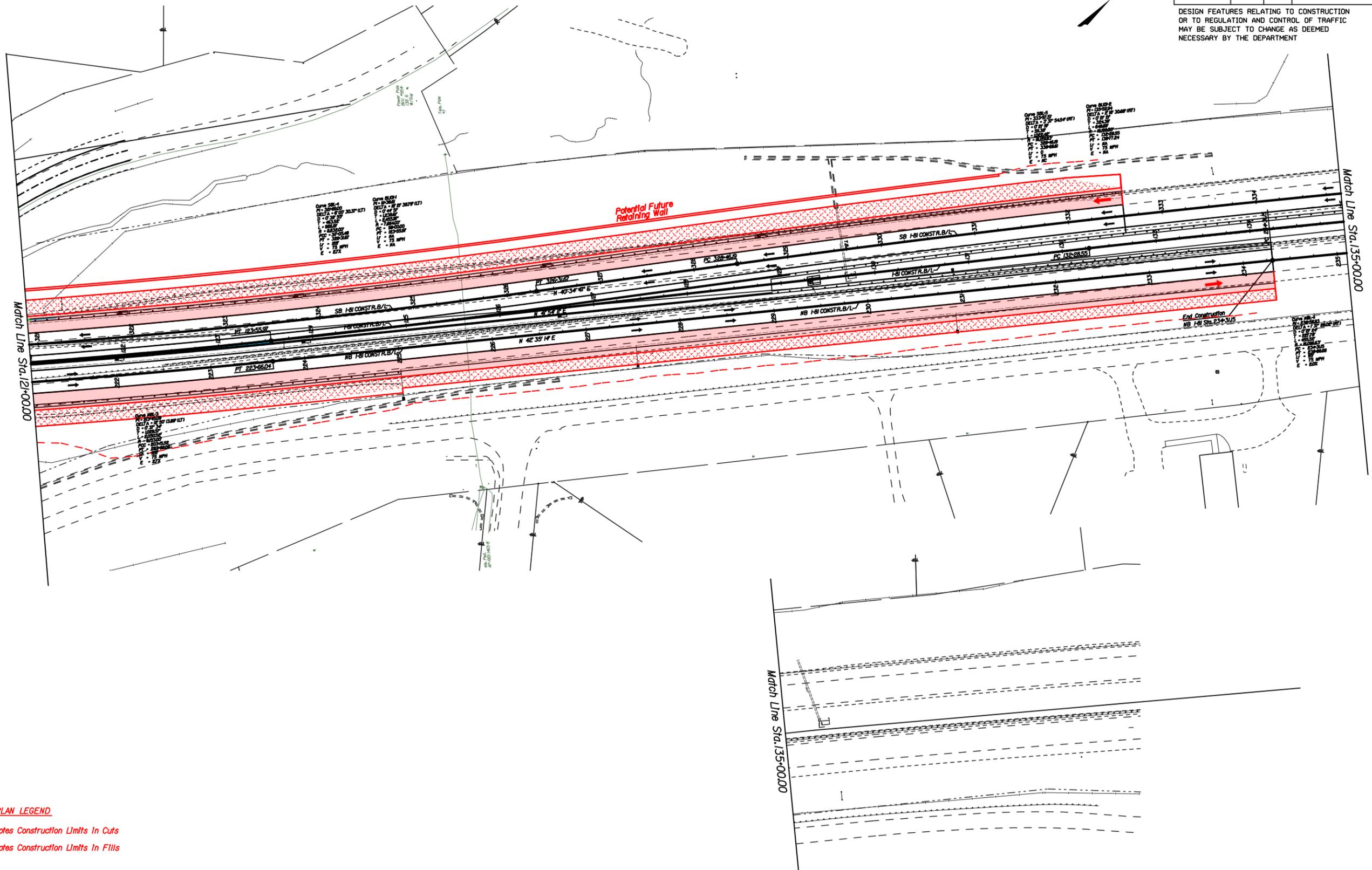
SHEET NO. 9

PROJECT MANAGER <Project Mgr. Name (000) 000-0000 (District)>
 SURVEYED BY, DATE <Surveyor Name (000) 000-0000 (District)>
 DESIGN BY <Designer Name (000) 000-0000 (District)>
 SUBSURFACE UTILITY BY, DATE <Surveyor Name (000) 000-0000 (District)>

Future Third Lane Widening

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038, PE-101 C-501	10

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



PLAN LEGEND

- Denotes Construction Limits In Cuts
- Denotes Construction Limits In Fills
- Denotes Future Proposed Pavement
- Denotes Future Shoulder Pavement



PROJECT	SHEET NO.
0081-095-038	10



4.2.3

Conceptual Bridge Plans

STATE	FEDERAL AID	STATE	SHEET NO.
VA.	PROJECT	ROUTE	PROJECT
	IM-081-1(342)	81	0081-095-038, B675, B676
NBIS Number:	000000000XXXXX	UPC No.	107116
Federal Oversight Code:	NFO	FHWA Construction and Scour Code:	X471-S8

DESIGN EXCEPTION(S):

Reduced outside shoulder width from 14'-0" to 12'-0". Approved by State Structure and Bridge Engineer on September 21, 2015.

GENERAL NOTES:

The original approved sheet, including original signatures, is filed in the VDOT Central Office. Any misuse of electronic files, including scanned signatures, is illegal. Violators will be prosecuted to the full extent of the applicable laws.

Width: 42'-0" min. SB and 42'-0" min. NB, face-to-face of curbs.

Span layout: 133'-2 1/8" SB and 132'-9 7/8" NB steel plate girder span.

Capacity: HL-93 loading.

Drainage area: 1.7 sq. mi.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2007.

Design: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2008.

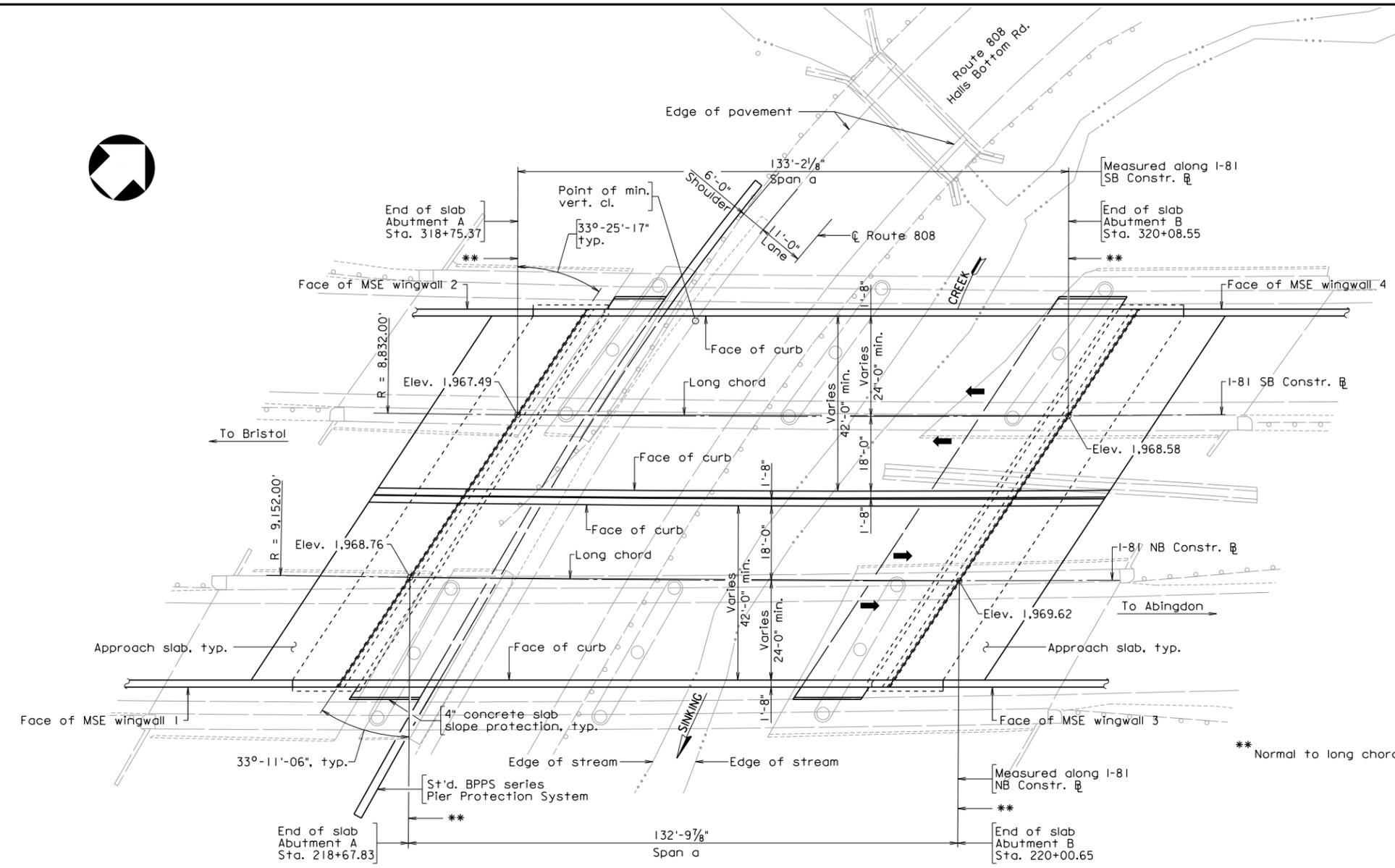
These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

All structural steel, including bearings, shall be ASTM A709 Grade 50W and shall be unpainted.

Bridge No. of existing bridge in southbound lane is 2040. Plan No. is 140-21; 140-21A; 140-21B.

Bridge No. of existing bridge in northbound lane is 2041. Plan No. is 140-21; 140-21A; 140-21B.

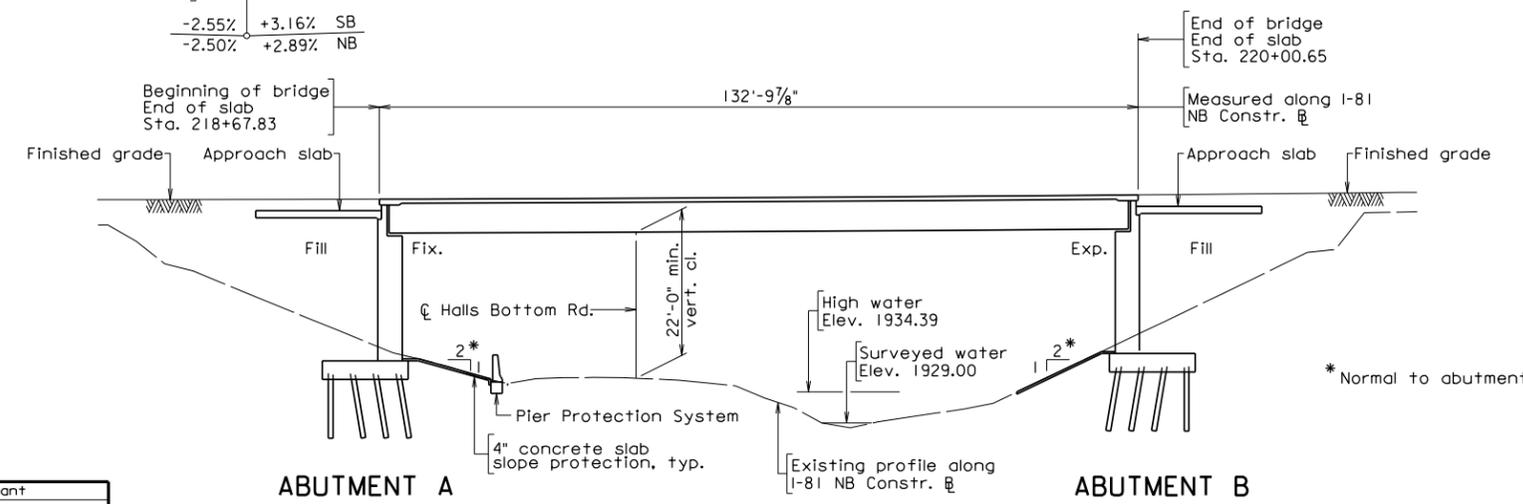
The existing structure is designated a Type B structure in accordance with Sec. 411.



PLAN

SB	C.G. Sta. 318+33.00
	C.G. Elev. 1,958.75
	V.C. = 1,200'
NB	C.G. Sta. 218+33.00
	C.G. Elev. 1,960.56
	V.C. = 1,202.69'

-2.55%	+3.16% SB
-2.50%	+2.89% NB



DEVELOPED SECTION ALONG I-81 NBL CONSTR. B
Developed section for southbound lane is similar.

Scale: 1/16" = 1'-0"

TitleSheet.dgn

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION
VDOT PROJECT MANAGER
DISTRICT CONSTRUCTION MANAGER
JOHNSON, MIRMIRAN & THOMPSON RICHMOND, VA STRUCTURAL ENGINEER

PLANS BY:	Consultant
COORDINATED:	
SUPERVISED:	Arthellus A. Phaup, III
DESIGNED:	Jay A. Utz
DRAWN:	Spencer R. Sloan
CHECKED:	Arthellus A. Phaup, III

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION

No.	Description	Date
REVISIONS		
For Table of Revisions, see Sheet 2.		



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
PROPOSED BRIDGE ON
NB AND SB I-81 OVER RTE. 808
(HALLS BOTTOM RD.)
WASHINGTON CO. - 1.9 MI. W. RTE. 611
PROJ. 0081-095-038, B675, B676

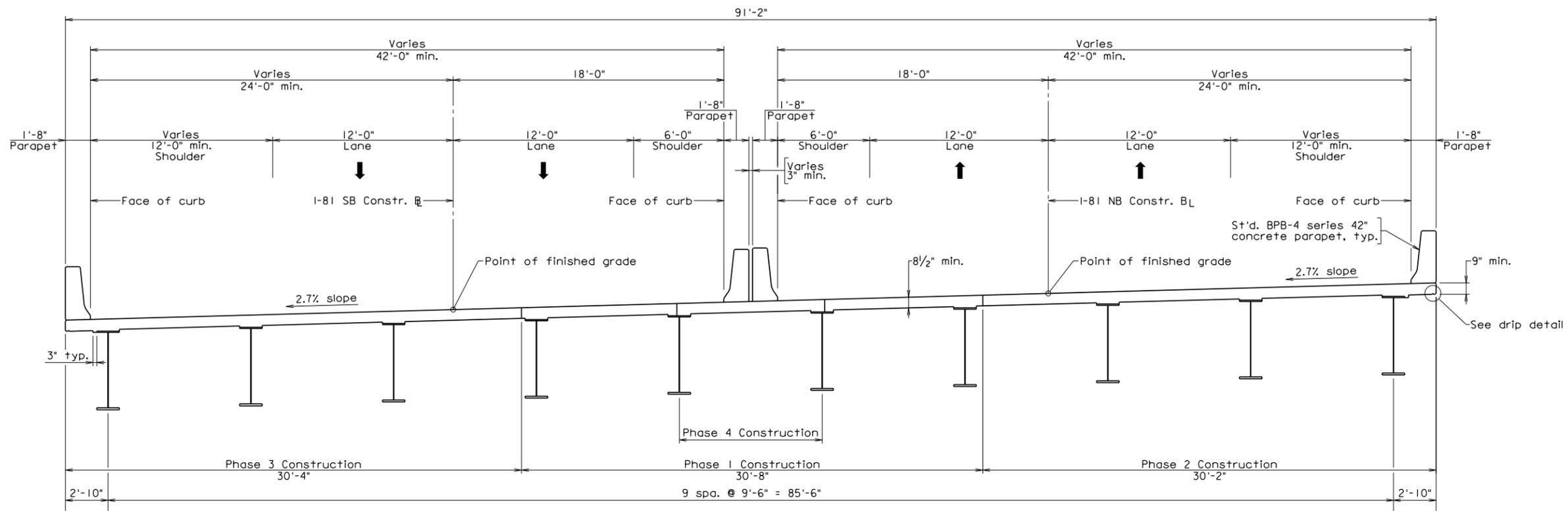
Recommended for Approval: _____ Date _____
G.A. & F.C. Wagman, Inc.

Approved: _____ Date _____
Chief Engineer

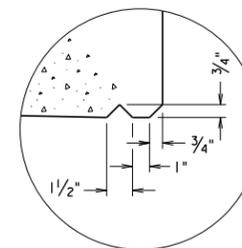
Date: March 7, 2016 © 2016, Commonwealth of Virginia Sheet 1 of 4

140-21C

STATE	FEDERAL AID	STATE	SHEET NO.
VA.	PROJECT	ROUTE	PROJECT
		81	0081-095-038, B675, B676
			2



TRANSVERSE SECTION



DRIP DETAIL

PRELIMINARY PLANS
 THESE PLANS NOT TO BE USED
 FOR CONSTRUCTION

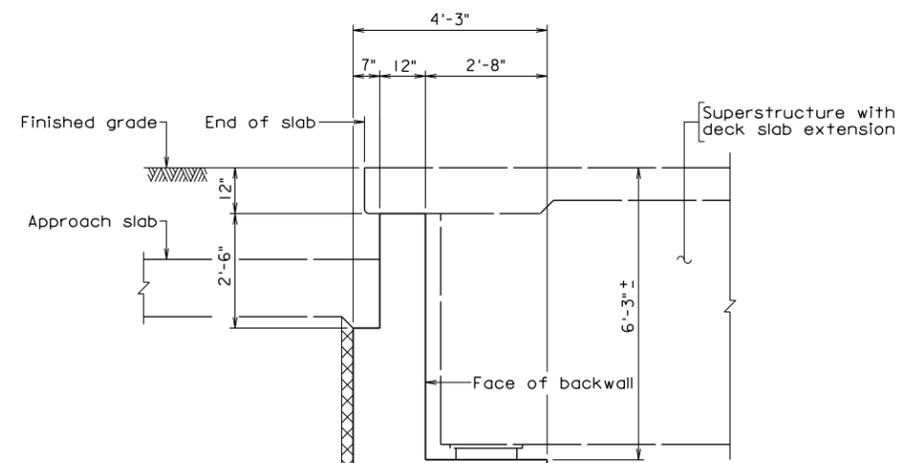
COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION						
STRUCTURE AND BRIDGE DIVISION						
TRANSVERSE SECTION						
No.	Description	Date	Designed: JAU	Date	Plan No.	Sheet No.
			Drawn: SRS	March 2016	140-21C	2 of 4
Revisions			Checked: JAP			

JOHNSON, MIRMIRAN & THOMPSON
 RICHMOND, VA
 STRUCTURAL ENGINEER

Scale: 1/4" = 1'-0" Unless otherwise noted.

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STATE	FEDERAL AID		STATE		SHEET NO.
ROUTE	PROJECT		ROUTE	PROJECT	
VA.			81	0081-095-038, B675, B676	3



Select backfill material

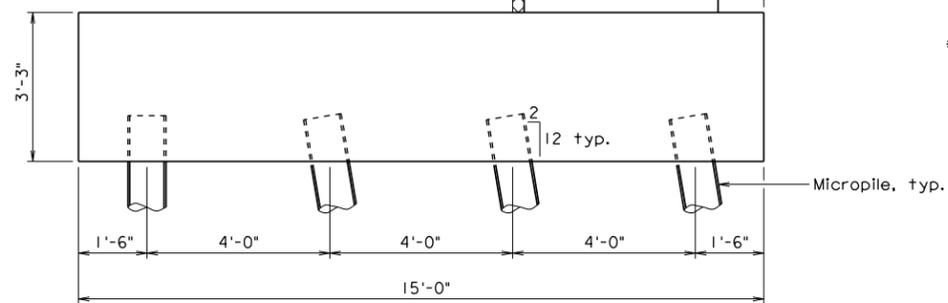
Geocomposite wall drain

Weephole formed with 6" dia. non-rigid tubing

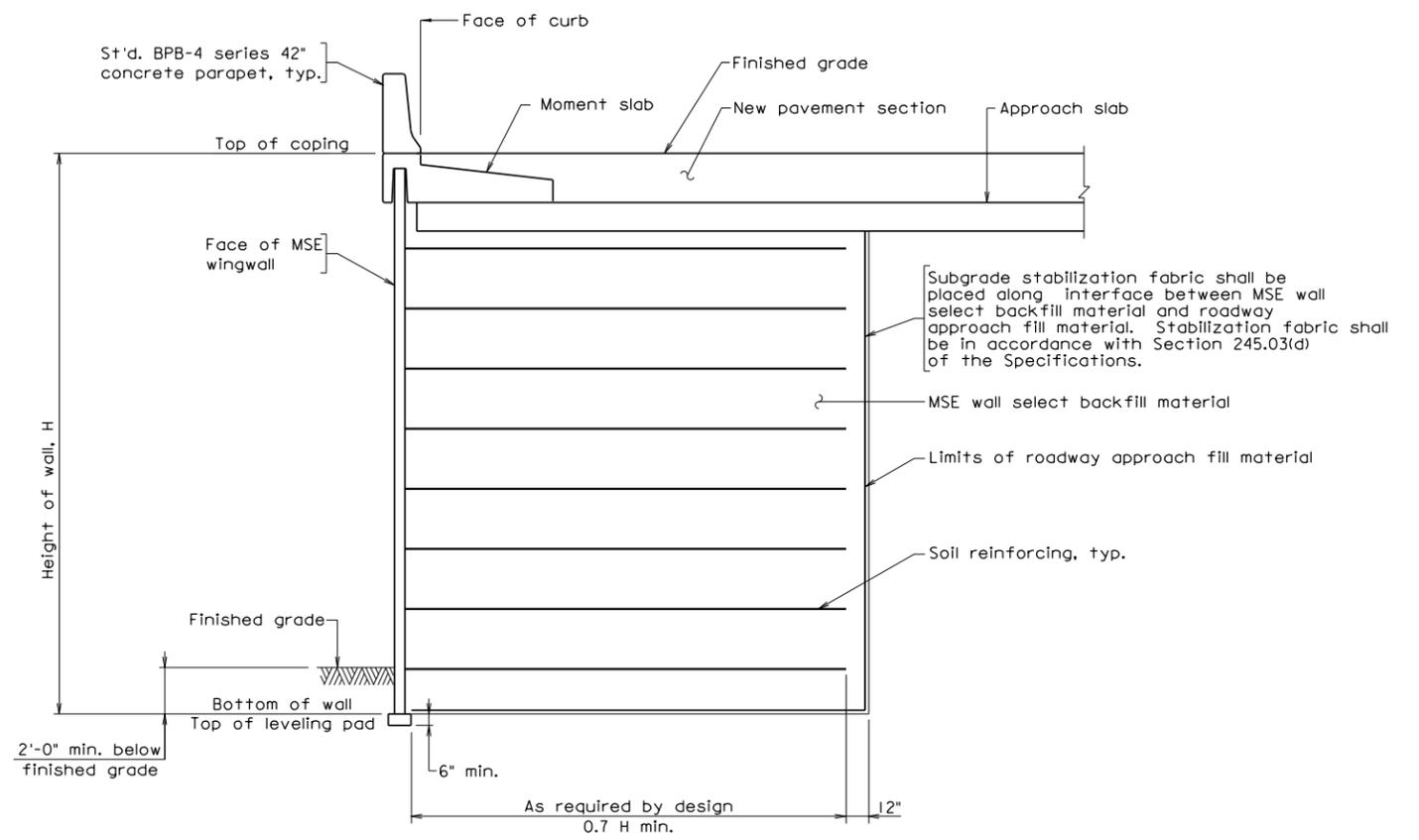
Lowest point feasible for free drainage away from abutment

4" concrete slab slope protection

*Normal to abutment.



ABUTMENT SECTION
Abutment A shown. Abutment B similar.
Scale: 1/2" = 1'-0"

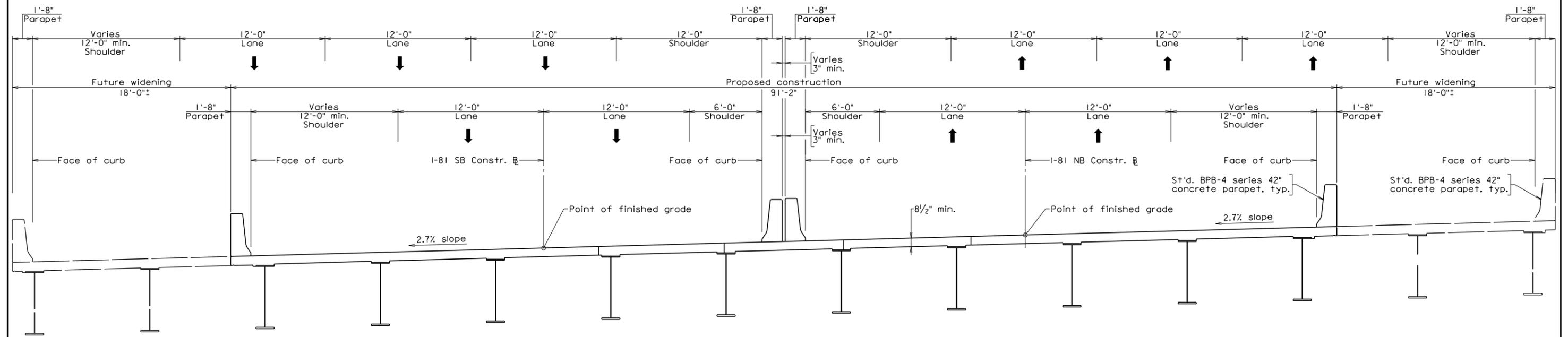


TYPICAL WINGWALL SECTION
Scale: 1/4" = 1'-0"

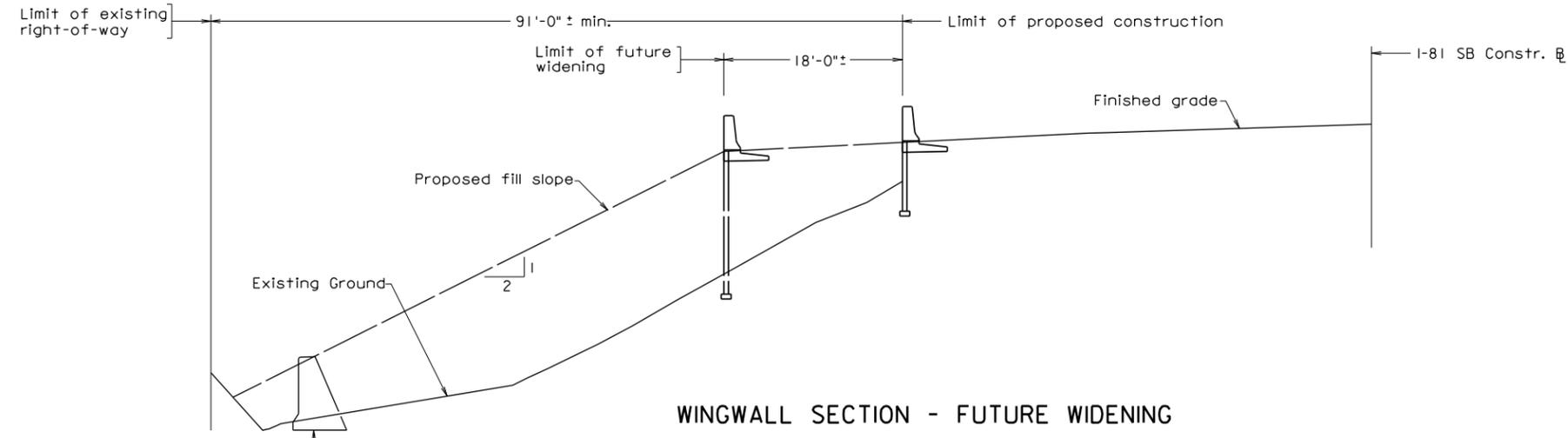
PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION						
STRUCTURE AND BRIDGE DIVISION						
ABUTMENT AND WINGWALL SECTIONS						
No.	Description	Date	Designed: JAU	Date	Plan No.	Sheet No.
			Drawn: SRS	March 2016	140-21C	3 of 4
Revisions			Checked: JAP			

STATE	FEDERAL AID	STATE	SHEET NO.
VA.	PROJECT	ROUTE PROJECT	NO.
		81 0081-095-038, B675, B676	4



TRANSVERSE SECTION - FUTURE WIDENING



WINGWALL SECTION - FUTURE WIDENING

Limits of future widening shown at the end of the MSE wingwall in the controlling corner (southwest). A retaining wall could be employed to keep the fill slope out of the existing ditch.

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION			
STRUCTURE AND BRIDGE DIVISION			
FUTURE WIDENING			
No.	Description	Date	Designed: JAU Drawn: SRS Checked: AAP
			Date: March 2016
			Plan No. 140-21C
			Sheet No. 4 of 4

JOHNSON, MIRMIRAN & THOMPSON
RICHMOND, VA
STRUCTURAL ENGINEER

4.2.4.1

Proposal Schedule

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float	2016												2017												2018					
							May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
C00107116DB85 I-81 Proposal Schedule							04-Sep-18																													
Milestones and General Conditions							04-Sep-18																													
Milestones							04-Sep-18																													
Project Milestones							04-Sep-18																													
A1000	Notice to Proceed	0.0d	0.0d	24-May-16		0.0d	Notice to Proceed																													
A1010	Start Phase 1A Construction	0.0d	0.0d	13-Sep-16		37.1d	Start Phase 1A Construction																													
A6290	Traffic Switch Phase 1B	0.0d	0.0d		21-Nov-16	78.1d	Traffic Switch Phase 1B																													
A1020	Substantial Completion of Design	0.0d	0.0d	27-Dec-16		42.1d	Substantial Completion of Design																													
A6350	Traffic Switch Phase 2	0.0d	0.0d		20-Jul-17	0.1d	Traffic Switch Phase 2																													
A6351	Traffic Switch Phase 3	0.0d	0.0d		28-Dec-17	0.1d	Traffic Switch Phase 3																													
A6352	Traffic Switch Phase 4	0.0d	0.0d		25-Jun-18	0.1d	Traffic Switch Phase 4																													
A1060	Final Completion (Contract = 04-SEP-2018)	0.0d	0.0d	04-Sep-18		0.0d	Final Completion																													
General Conditions							04-Sep-18																													
A16420	General Conditions: Project Management through Final Cc	833.9d	833.9d	24-May-16	04-Sep-18	0.0d	General Conditions: Project Management through Final Cc																													
A16440	General Conditions: QA/QC through Final Completion	833.9d	833.9d	24-May-16	04-Sep-18	0.0d	General Conditions: QA/QC through Final Completion																													
A16430	General Conditions: Survey through Final Completion	721.0d	721.0d	13-Sep-16	04-Sep-18	0.0d	General Conditions: Survey through Final Completion																													
A16450	Final Punchlist/Demobilization	5.0d	5.0d	21-Aug-18	26-Aug-18	9.0d	Final Punchlist/Demobilization																													
Preconstruction							12-Apr-17, Preconstruction																													
Scope Validation Period							20-Sep-16, Scope Validation Period																													
SV100	Scope Validation Investigations	90.0d	90.0d	24-May-16	21-Aug-16	125.0d	Scope Validation Investigations																													
SV110	Scope Validation Submission	0.0d	0.0d	22-Aug-16	22-Aug-16	125.0d	Scope Validation Submission																													
SV120	Scope Validation Discussions	30.0d	30.0d	22-Aug-16	20-Sep-16	125.0d	Scope Validation Discussions																													
Design							27-Dec-16, Design																													
Survey							20-Oct-16, Survey																													
A8700	Survey Notification Letters	5.0d	5.0d	24-May-16	31-May-16	63.0d	Survey Notification Letters																													
A8690	Survey Control	10.0d	10.0d	01-Jun-16	14-Jun-16	63.0d	Survey Control																													
A8691	Existing Bridge Location	10.0d	10.0d	15-Jun-16	28-Jun-16	63.0d	Existing Bridge Location																													
A8710	Field Survey	30.0d	30.0d	29-Jun-16	10-Aug-16	527.0d	Field Survey																													
A8720	Utility Survey	30.0d	30.0d	29-Jun-16	10-Aug-16	63.0d	Utility Survey																													
A8730	Topo Verification	30.0d	30.0d	11-Aug-16	22-Sep-16	63.0d	Topo Verification																													
A8740	Update Survey File and DTM	20.0d	20.0d	23-Sep-16	20-Oct-16	63.0d	Update Survey File and DTM																													
Roadway							21-Nov-16, Roadway																													
DF2000	Prepare Preliminary Roadway Plans	40.0d	40.0d	24-May-16	20-Jul-16	28.0d	Prepare Preliminary Roadway Plans																													
A15020	SFC Preliminary Roadway Plans	1.0d	1.0d	21-Jul-16	21-Jul-16	28.0d	SFC Preliminary Roadway Plans																													
A15040	VDOT Review Preliminary Roadway Plans	21.0d	21.0d	21-Jul-16	11-Aug-16	40.1d	VDOT Review Preliminary Roadway Plans																													
A15060	Final Design Roadway Plans	60.0d	60.0d	22-Jul-16	14-Oct-16	51.0d	Final Design Roadway Plans																													
A15070	SFC Final Roadway Plans	1.0d	1.0d	17-Oct-16	17-Oct-16	51.0d	SFC Final Roadway Plans																													
A15080	VDOT Review Final Roadway Plans	21.0d	21.0d	17-Oct-16	07-Nov-16	77.1d	VDOT Review Final Roadway Plans																													
DRFC3010	Roadway Final Revisions	10.0d	10.0d	08-Nov-16	21-Nov-16	51.0d	Roadway Final Revisions																													
Geotechnical							28-Oct-16, Geotechnical																													
A16460	Survey Boring Locations	10.0d	10.0d	24-May-16	07-Jun-16	0.0d	Survey Boring Locations																													
A15000	Perform Borings	20.0d	20.0d	08-Jun-16	06-Jul-16	0.0d	Perform Borings																													
A15010	Perform Lab Testing and Analysis	20.0d	20.0d	07-Jul-16	03-Aug-16	0.0d	Perform Lab Testing and Analysis																													
DRW1063	Prepare Draft Geotech Report	30.0d	30.0d	04-Aug-16	15-Sep-16	0.0d	Prepare Draft Geotech Report																													
A16470	Submit Draft Geotech Report	1.0d	1.0d	16-Sep-16	16-Sep-16	60.0d	Submit Draft Geotech Report																													
DRW1064	VDOT Review Draft Geotech Report	21.0d	21.0d	16-Sep-16	07-Oct-16	88.1d	VDOT Review Draft Geotech Report																													
DRW1065	Prepare Final Geotech Report	14.0d	14.0d	10-Oct-16	27-Oct-16	58.0d	Prepare Final Geotech Report																													





3290 N.
Susquehanna Trail
York, PA 17406
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F 717-764-2799