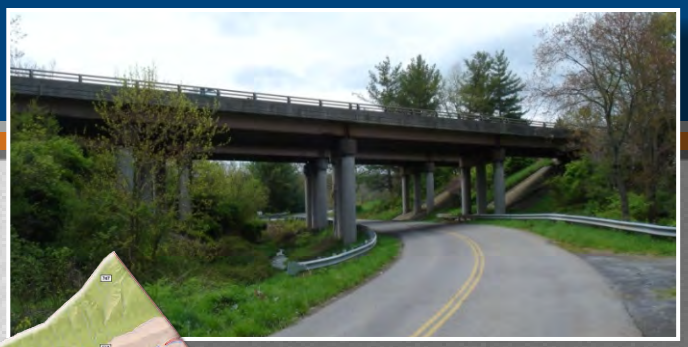
VDOT
Virginia Department of Transportation

Letter of Submittal and Attachments - Volume I

A Design-Build Project
Replacement of I-81 Structures 18942 & 18944 over Rte. 808
Halls Bottom Rd and Sinking Creek

From: 0.94 Miles Northeast of Rte F310
To: 1.83 Miles Southwest of Rte 611 Spring Creek Rd
Washington County, Virginia

State Project No.: 0081-095-038
Contract ID Number: C00107116DB85



Submitted by: Blythe *In association with:* RK&K

March 7, 2016

Section 4.1
Letter of Submittal

In association with:

BLYTHE DEVELOPMENT CO.

1415 EAST WESTINGHOUSE BOULEVARD • CHARLOTTE, NORTH CAROLINA 28273 • TEL (704) 588-0023 • FAX (704) 588-9935

March 7, 2016

Ms. Brenda L. Williams
Commonwealth of Virginia
Department of Transportation (VDOT)
Central Office Mail Center
1401 E. Broad Street (Loading Dock Entrance)
Richmond, Virginia 23219

Re: Request for Proposal
Design-Build Project - Replacement of I-81 Structures 18942 & 18944 over Rte. 808 Halls Bottom Road & Sinking Creek
State Project No. 0081-095-038, P101, RW201, C501, B675, B676
Contract ID No. C00107116DB85
Letter of Submittal

Dear Ms. Williams:

In response to the above referenced RFP, Blythe Development Company (Blythe) is pleased to submit one original Letter of Submittal and Attachments to the Letter of Submittal and one CD-ROM containing the proposal in a single cohesive Adobe PDF file.

4.1.1 **Offeror:** Blythe Development Co., 1415 East Westinghouse Blvd., Charlotte, NC 28273

4.1.2 Blythe declares that, if selected, we will enter into a contract with VDOT for the Project in accordance with the terms of this RFP.

4.1.3 Pursuant to Part 1, Section 8.2, Blythe declares that the offer represent by our Proposal will remain in full force and effect for 120 days after the date the Letter of Submittal and Attachments are submitted to VDOT.

4.1.4 **Point of Contact**: Richard Kirkman, Design-Build Project Manager, will serve as the Point of Contact for the Offeror: 1415 East Westinghouse Boulevard, Charlotte, NC 28273; Telephone: 704.588.0023, Fax: 704.588.9935, rkirkman@blythedevelopment.com

4.1.5 **Principal Officer:** Luther J. Blythe, Vice President of Operations, Blythe Development Company, 1415 East Westinghouse Boulevard, Charlotte, NC 28273; Telephone: 704.588.0023

4.1.6 **Final Completion Date**: September 4, 2018

4.1.7 **Proposal Payment Agreement:** An executed Proposal Payment Agreement (Attachment 9.3.1) is included in Volume I of this proposal.

4.1.8 **Debarment Forms**: Certification Regarding Debarment Forms (Attachments 11.8.6 (a) and 11.8.6 (b)) are signed and included in Volume I of this proposal.

4.1.9 **DBE Requirements:** Blythe is committed to achieving a 2% DBE participation goal for the entire value of the contract.

4.2.1 We have revised our organizational chart and narrative by replacing Jason Hoyle (Design-Build Project Manager) with Richard Kirkman. This change has been approved by Suril Shah, per email correspondence dated March 1, 2016.

Sincerely,
BLYTHE DEVELOPMENT CO.

Luther J. Blythe
Vice President of Operations

VDOT
Virginia Department of Transportation

Section 4.2

Attachments to Letter of Submittal

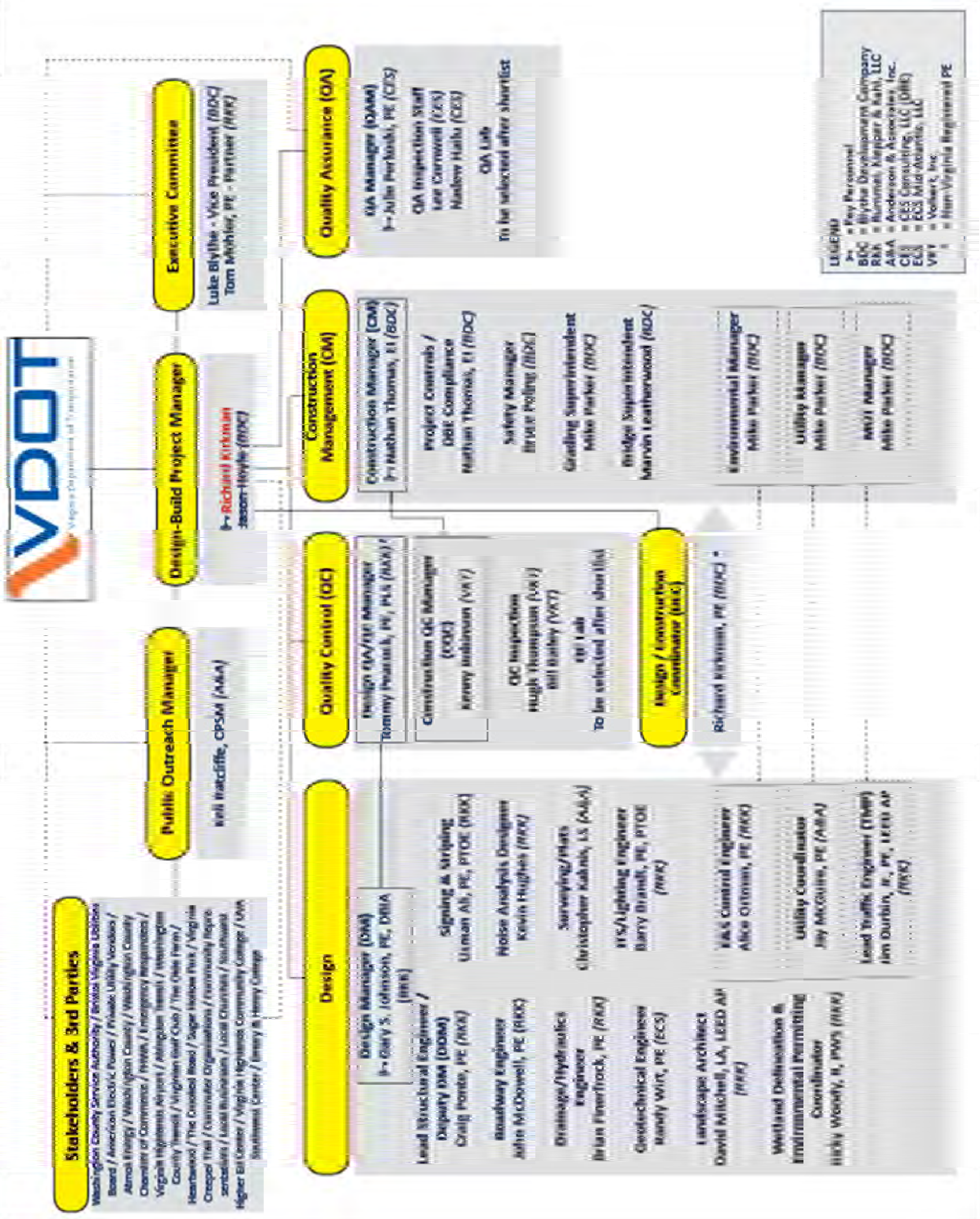
Blythe

In association with: RK&K

4.2 ATTACHMENTS TO THE LETTER OF SUBMITTAL

4.2.1 Organizational Chart and Team Personnel

The Blythe DB Team has requested and received VDOT approval to replace our proposed Design Build Project Manager (DBPM), Jason Hoyle with Richard Kirkman. The revised organization chart below reflects these changes. The Blythe DB Team organizational chart illustrates our "*chain of command*" and notes key personnel team members. The organizational chart also identifies major functions to be performed and our reporting relationships in managing, designing and construction the project, including quality control and/quality assurance.



Following is a revised narrative describing the functional relationships among participants for the organizational chart. Changes in red note revisions from the original included in the SOQ.

The Blythe DB Team has assembled a Team of highly-qualified and experienced individuals and structured them accordingly for optimal performance. These key staff and design firms come together with a shared history on successful projects, have established working relationships, and are ready to hit the ground running. Though our task leaders and technical staff are responsible for items such as design, public involvement and/or construction, everyone is ultimately responsible for the total success of the project. The chart below introduces our Key Personnel:

Design-Build Project Manager (DBPM)	Richard Kirkman – Blythe
Quality Assurance Manager (QAM)	Julie Perkoski, PE – CES
Design Manager (DM)	Gary S. Johnson, PE, DBIA – RK&K
Construction Manager (CM)	Nathan Thomas – Blythe

DB **Design-Build Project Manager (DBPM), Richard Kirkman** has full and complete authority of all design and construction matters for the Blythe DB Team. Richard is responsible for all contract management and is VDOT's primary point of contact throughout the project. As DBPM, he has full responsibility for coordination, integration and direction of the entire design-build team, including design, construction, quality assurance, MOT, safety, utilities and environmental permitting/protection. He will supervise the Design Manager, Public Outreach Manager, Construction Manager, and Quality Assurance Manager throughout the project. He will also fulfill the role of the Design/Construction Coordinator. Richard will be involved with the project starting with preconstruction, through design, construction, and punch out; assist with constructability reviews and safety audits; oversee the quality management program, purchasing and all construction operations; and be responsible for third-party communication for the Blythe DB Team, in conjunction with the Public Outreach Manager.

DB **Quality Assurance Manager (QAM), Julie Perkoski, PE,** reports directly to the DBPM and will have direct, independent access to VDOT. She will ensure work is performed in conformance with contract requirements and "*approved for construction*" plans and specifications. She will be responsible for development and adherence to the QA Plan, QA inspection and testing of all materials used and work performed. As an independent entity, Julie will audit and monitor Blythe's Construction Quality Control Program. She will have the authority to stop construction, enforce compliance with all specifications, and issue/require resolution of all Non-Conformance Reports (NCRs). The QA Team will conduct independent and concurrent tests and analysis of the work with the construction Quality Control Team. She will maintain project quality records and approve and submit pay estimates. In addition, Julie will submit monthly written reports to the VDOT project manager and the Executive Committee.

DB **Design Manager (DM) Gary S. Johnson, PE, DBIA,** will also report directly to the DBPM. He will be responsible for providing a quality product and input into the project schedule, meeting all design milestones and interfaces, and ensuring the Design QA/QC Manager's involvement. Gary is responsible for assuring all design work is performed in accordance with current policies, procedures, and guidelines. He will manage all aspects of design. He will assign resources as needed, oversee design sub-consultants, coordinate design and review schedules, develop and implement corrective measures, if necessary, and ensure environmental compliance measures are integrated into the design. Gary will maintain his involvement in the project once construction begins to oversee any plan modifications and shop drawings, and review construction activities with the CM as work progresses.

DB **Construction Manager (CM), Nathan Thomas** will report directly to the DBPM. He will manage the efforts of the on-site construction team including the Construction Quality Control Manager, Safety Manager, Project Manager, superintendents, and project scheduling team. He will also manage project controls and oversee DBE compliance. He will be assigned to this project and be onsite full-time for the duration of construction. He will play a key role in conjunction with the Design/Construction Coordinator in constructability reviews for all aspects of the design and work with him to oversee the coordination between the design and construction forces with regard to utilities and MOT. Along with his staff, Nathan will focus on ensuring that construction is performed safely, and all materials and work are in accordance with the approved plans and contract documents. He will also coordinate with the DM during construction for the proper and timely issuance and review of any RFI's and shop drawings, as well as preparation of as-builts and plan revisions. Nathan will hold responsibility for managing the construction quality control activities.

Additional Design and Construction Support

We have assembled a highly skilled team of professionals that have been selected because of their proven competencies in engineering, construction and design-build. Each member was hand-selected based on their

experience relative to this project's scope and complexities, as well as their familiarity working together as a team. A DB icon has been placed next to the names of the individuals with design-build experience.

DB **Lead Structural Engineer/Deputy DM, Craig Ponte, PE**, will be involved in all aspects of bridge design for this project. He has over 12 years of progressive Virginia design experience with new and rehabilitated structures. Craig was one of the lead designers of the VDOT Huguenot Bridge replacement project in Richmond, Virginia. This 3000' long bridge spans the James River and included a complex maintenance of traffic plan that drove the structural design. Craig is also working on a bridge replacement project for VDOT along Route 360 in Amelia County were advanced chloride degradation complicated the design process. He leaned on his extensive knowledge to arrive at the correct and most cost-effective solution. Craig will report to the DM.

DB **Roadway Design Engineer, John McDowell, PE,** brings more than 35 years of experience in the design and management of complex roadway design projects and will focus on roadway and intersection design for this contract. He has been responsible for leading and directing the geometric design and plans production for the roadway design, preparation of the Traffic Control Plans, as well as interfacing with the various elements of the project design including structures, drainage, signals and lighting design. Previous VDOT project experience includes I-64 Widening and Route 623 Interchange Improvements DB Project where John performed various design activities including roadway quality control in close coordination with Gary Johnson, our proposed Design Manager for this project. John will report to the DM.

DB **Drainage/Hydraulics Design Engineer, Brian Finerfrock, PE,** offers more than 13 years of advanced technical roadway and drainage experience, as well as, rural and urban design project experience. He provided similar services for the VDOT I-64 Widening and Route 623 Interchange Improvements DB Project. Brian has extensive experience in design, and consultant management oversight of general drainage, hydrologic studies, hydraulic bridge studies, and bridge scour analysis for many of VDOT's largest projects. His project experience includes various types of municipal and roadway design projects on new location, reconstruction and widening as well as major VDOT drainage improvements for 12 of RK&K's contracts since 2009. This experience includes serving as lead Hydraulics Engineer for **several task orders in the Bristol District** via RK&K's statewide VDOT On-Call Drainage and River Mechanics contract. Brian will report to the DM.

DB **Geotechnical Engineer, Randy Wirt, PE,** will be in charge of all aspects of geotechnical engineering and evaluation for the project. With 15 years of experience, Randy has served as the lead geotechnical engineer for multiple VDOT projects in the region with varying project delivery systems including I-81 over Route 11 and Middle Fork Holston River Bridge Replacement in Smyth County, Route 83 over Cranes Nest River in Dickenson County, I-581/Elm Avenue Interchange Improvements in Roanoke, Route 220 over Back Creek Bridge Replacements in Roanoke County, and the Route 460/Southgate Drive Connector project in Blacksburg, Virginia. Randy also has considerable experience in VDOT Design-Build projects throughout the Commonwealth and is currently the Geotechnical Engineer of Record on the VDOT I-64 Widening and Route 623 Interchange Improvements DB Project with RK&K. Randy will report to the DM.

DB **Landscape Architect, David Mitchell, LA, LEED AP,** has 20 years of experience as a site designer specializing in site grading, planting plans, conceptual site planning and preparation of construction documents. His experience includes all aspects of site design and environmental design, as well as all facets of landscape architectural services. His ability to integrate elements with minimal disturbance and financial impact has gained the respect from clients and consultants. David will report to the DM.

DB **Wetland Delineation & Environmental Permitting Coordinator, Ricky Woody, II, PWS,** has more than 27 years of experience providing project management leading and supporting the preparation of various NEPA documents, securing wetlands and water quality permits and promoting compliance with environmental clearances for both large and small transportation projects. He has a strong foundation in environmental resource studies which is required for successful document/permit approvals including; wetland delineation, Unified Stream Methodology, rare, threatened and endangered species studies, water quality monitoring, habitat assessments, and mitigation design. Ricky has experience in performing project reviews and providing corrective action recommendations to remain compliant with project specific environmental commitments. Ricky has been involved in numerous VDOT projects providing environmental engineering and services and has managed all environmental aspects of several major and minor infrastructure projects, including the I-64 Widening and Route 623 Interchange Improvements DB Project, Woodrow Wilson Bridge, Manassas Bypass, and Fairfax County Parkway. Ricky will report to the DM.

DB **Signing & Striping Engineer, Usman Ali, PE, PTOE,** has more than 8 years of experience specializing in the design of traffic control devices for VDOT and local counties and municipalities. He is a skilled traffic engineer with strong credentials in design, analysis and modeling and knowledge of MUTCD, FHWA, AASHTO, and ITE best practices. Usman's expertise encompasses traffic signal design, signing and marking plans, lighting analysis and design. Usman has performed similar services on two previous VDOT design-build projects, the I-

64 Widening and Route 623 Interchange Improvements DB Project and the Route 29 Solutions DB Project. Usman will report to the DM.

DB **Noise Analysis Designer, Kevin Hughes,** is RK&K's lead Noise Analyst and Sound Barrier Design Project Coordinator and brings more than 28 years of experience to this project. His specific noise analysis experience includes identification of noise sensitive areas, evaluating existing noise environments through field reconnaissance and monitoring, determining community impacts and need for noise abatement, predicting future traffic noise levels using the FHWA Traffic Noise Model, determining reasonableness and feasibility, evaluating cost-effective mitigation measures, preparing technical reports, and participating in community meetings. Furthermore, he has prepared contract plans for many noise abatement projects. Kevin will report to the DM.

DB **Surveying/Plats, Christopher Kaknis, LS** offers more than 27 years of survey experience that includes all aspects of surveying. This experience has included miles of design surveys, bridge situation surveys and aerial mapping control surveys. His knowledge of right-of-way surveys is supplemented by extensive boundary surveying experience outside of VDOT assignments. Christopher has overseen the completion of 25+ survey projects within the Bristol District through Anderson & Associates (A&A) Survey Term Contract with VDOT. In addition to conventional surveys he has also led A&A's work in data collection for highway asset maintenance. This has involved managing A&A's crews and also subcontractors which can have as many as 13 crews at one time. He offers complete mastery of VDOT rules and methodology and his ability to manage teams. Christopher will report to the DM.

DB **ITS/Lighting Engineer, Barry Brandt, PE, PTOE,** is responsible for providing the design of traffic signals, roadway lighting, ITS devices, and other traffic control devices such as highway signing and pavement markings. Barry brings more than 25 years of experience to the team and is familiar with the MUTCD, the IES RP-8 Standard Recommended Practice for Roadway Lighting, the National Electrical Code, the AASHTO Roadside Design Guide, and other applicable guidelines pertaining to traffic signal, roadway lighting and ITS design. In recognition of his service, he was awarded the "Outstanding Public Service Award" presented by Maryland SHA for his performance of signal, lighting and ITS design as well as development of the electrical and lighting design training programs. Barry has been the project manager for 14 traffic engineering and ITS contracts. Barry will report to the DM.

DB **Erosion and Sediment Control Engineer, Alice Ortman, PE,** has more than 10 years of experience in erosion and sediment control design and other water resources engineering services for transportation projects. **Alice served over 8 years at VDOT as an Associate Hydraulic and River Mechanic Engineer**. Her experience includes the design of roadway drainage systems, stormwater management design, storm water pollution and prevention plans, and erosion and sediment control plans for both rural and urban projects, as well as Hydrologic and Hydraulic Analyses (H&HA's) and scour computations. Computer skills include Microstation, GEOPAK Drainage and Road, HEC-RAS, HY-8, Ensoft Hydro Suite, Visual Urban, TerrainPro, and other hydraulics programs used by VDOT. Alice was the Hydraulic Engineer for the VDOT I-64 Widening and Project 623 Interchange Improvements DB Project. She will report to the DM.

DB **Utility Coordinator, Jay McGuire, PE,** offers over 20 years of experience in coordinating utility installations and relocations. He has served as a key design engineer for Anderson & Associates on many significant VDOT projects. These included preliminary studies on widening I-81, planning and final design on several segments of US 58 and design on US 250 west of Staunton. He has worked with numerous localities, on multifaceted utility projects. Many of these projects have included the need to coordinate work within VDOT rights-of-way. His portfolio includes the installation of numerous miles of water and wastewater infrastructure which routinely requires coordination between natural gas, telephone, electric and fiber optic providers among others. He knows the VDOT design process and the individuals in the many other agencies that are involved in the design and approval process of transportation projects. Jay will report to the DM.

DB **Lead Traffic Engineer, Jim Durbin, Jr., PE, LEED AP**, brings 20 years of experience in the design and management of a variety of projects, including the preparation of MOT plans and pedestrian improvements. Jim has been lead engineer on numerous projects for roadway and site plan approval, permitting, being responsible for design/construction documents to permitting and through project administration and construction. Management and design experience has involved interfacing with federal (FHWA, OSHA, COE), state (DCR, VDOT), and municipalities throughout design and construction stages. Jim performed similar services on previous VDOT design-build projects, the I-64 Widening and Route 623 Interchange Improvements DB Project and the Route 29 Solutions DB Project. He will report to the DM.

DB **Public Outreach Manager, Keli Ratcliffe, CPSM,** offers 15 years of experience in the development and implementation of strategic communication programs. Keli possesses a thorough knowledge of public and stakeholder activities supporting transportation planning and design-build projects. Working closely with RK&K and VDOT, Keli will prepare strategic communication plans, crafting the methodology necessary to

successfully implement the project public participation program. Recently, Keli successfully managed the public information efforts of the Downtown Revitalization Project in Rural Retreat, Virginia, where proposed infrastructure and economic development improvements were presented, along with potential funding opportunities over the next ten years. She will report to the DBPM.

DB **Design QA/QC Manager, Tommy Peacock, PE, PLS** will arrange for design quality assurance and design quality control procedures in accordance with the quality control plan. He will verify that checks and reviews have been made prior to submissions, including review comment checking, contract conformance reviews, interdisciplinary reviews, and constructability reviews. With over 52 years of experience, Tommy will serve as a DB resource to the team. He managed two of the three projects listed in the lead designer's experience section. Tommy provides the hands-on efforts needed to ensure adequate resources are assigned, accelerated schedules are maintained, and the team is responsive to clients. Tommy holds a PE Certification in North Carolina and he will report to the DM.

DB **Construction QC Manager (CQC Manager), Kenny Robinson,** offers over 35 years of experience with the construction of highways, secondary and primary roads and bridges. As a Residency Administrator in the Staunton District, he had oversight of transportation networks that included 3,096 miles of roadway, two interstates, and 180 major bridges. As a **VDOT Assistant Resident Engineer in the Bristol District**, he was responsible for the 250 centerline miles of I-81 and I-77, and accumulated significant knowledge of the District's infrastructure. Expertise pertinent to this project includes supervision of inspectors; quality control and assurance; and coordination with FHWA, VDOT, and state officials. His design-build experience includes VDOT's Route 61 over the New River and the Route 50 Corridor Traffic Calming. On the Route 50 project he had oversight of the quality assurance and quality control teams. Kenny will coordinate the third-party QC testing lab and testing technicians. He was involved with VDOT's Replacement of Route 29 over the Tye River, another design-build project where Kenny provided quality assurance inspection of the construction of a new, 2-lane, prestressed concrete girder bridge and coordinated with the Quality Assurance Manager (QAM) during development of the QC program. Kenny will also attend weekly two-week look-ahead meetings and keep abreast of the overall project schedule for accurate inspection/testing staff scheduling. Kenny has the authority to stop specific work activities that do not meet QC requirements. He will report to the CM.

DB **Design/Construction Coordinator (DCC), Richard Kirkman, PE,** will perform dual roles of the DBPM and DCC offering his over 23 years of experience working in heavy-highway construction, specializing in bridge construction projects. Richard has led all of Blythe's DB bridge projects, including the NCDOT Market Street Bridge Replacement and Widening Project in Greensboro, North Carolina. Serving as a resource to the DBPM, his role will be coordinating between the engineering and construction teams, to ensure that all of VDOT's expectations and requirements are met. He will review all design submittals for conformance to project requirements, constructability and specific project scheduling needs. Richard holds a PE Certification in North Carolina.

DB **Safety Manager, Bruce Poling,** will provide regular oversight of plans and field activities to provide a safe environment for VDOT, construction workers and the traveling public. Bruce, with over 20 years of experience, will provide all needed safety training for the project and aid in developing a job-specific safety plan to address unique project hazards that will enhance our standard Blythe policies, including subcontractor protocols. Bruce has the authority to stop work which does not meet Blythe's strict safety requirements. Bruce reports to the CM.

DB **Grading Superintendent/Environmental Manager/Utility Manager/MOT Manager, Mike Parker,** will supervise all roadway construction for the project. His role will extend to managing the environmental controls as well as overseeing all MOT operations. Any utility construction and relocation will be coordinated by Mike as well. His 30 years of heavy highway experience and recent involvement in NCDOT design-build projects brings the oversight and knowledge to the project that will be needed for success. Mike will report to the CM.

DB **Bridge** Superintendent, Marvin Leatherwood, will manage all aspects of bridge construction. He will give oversight to our in-house bridge crews and manage all subcontractor work. Marvin's experience with bridge replacement projects and 28 years of construction experience will ensure that the project will be built at the highest quality and will be delivered on time. Marvin will report to the CM.

4.2.2 Conceptual Roadway Plans

The Blythe Design-Build Team's 11X17 Conceptual Roadway Plans are enclosed in Volume 2 and comply with the requirements of the Design Criteria Table (Attachment 2.2 of Part 2 of RFP), indicates limits of construction are within the existing/proposed right-of-way limits shown in the RFP Conceptual Plans and meet requirements as described in the RFP.

4.2.3 Conceptual Bridge Plans

The Blythe Design-Build Team's 11X17 Conceptual Bridge Plans are enclosed in Volume 2 and clearly identify specific design features that allow for future bridge widening within the existing right-of-way and meet the requirements of the RFP.

4.2.4 Proposal Schedule

The Blythe Design-Build Team's proposed schedule is enclosed in Volume 2 and meet the requirements of the RFP.

4.2.4.1 Proposal Schedule

The Blythe Design-Build Team's proposed schedule is enclosed in Volume 2 and meet the requirements of the RFP.

4.2.4.2 Proposal Schedule Narrative

The Blythe DB Team has thoroughly evaluated the RFP documents, performed site visits of I-81 over Halls Bottom Road in Washington County, attended pre-proposal meetings, participated in proprietary meeting discussions, and conducted working sessions among our construction and design teams. Through this progression, we developed a simplified solution to deliver the project through our sequencing plan. This narrative explains how we plan to deliver a positive experience to VDOT and the stakeholders. The project completion date is as shown in the RFP of September 4, 2018.

Project Milestones

Notice of Intent to Award Date	March 25, 2016
CTB Approval/Notice to Award	April 20, 2016
Notice to Proceed	May 24, 2016
Released for Construction	November 24, 2016
Final Project Completion:	September 4, 2018

Work Breakdown Structure

The baseline schedule integrates design and construction into a Work Breakdown Structure (WBS) as shown below:

Level 1: Schedule Milestones – Overall schedule review of progress.

Level 2: Scope Validation Period – Includes verification of utilities, geotechnical investigations, conceptual pavement designs, and spot checking the survey and base maps.

Level 3: Permitting - Includes the SWPP as a supporting document to the VSMP application and the Water Quality Permit applications for the Corp of Engineers (USCOE) and Tennessee Valley Authority (TVA) permits.

Level 4: Design – Includes Stage I and Stage II/Final design cycles with time allocated for engineering services, plan development, QA/QC reviews, and VDOT and other regulatory agency reviews and approvals of plans.

Level 5: Utility Coordination – Includes activities for coordination meetings with the VDOT Regional Utilities Manager and utility owners, as well as preparation time for the utility status report and subsequent field inspections.

Level 6: Construction – Includes all components of roadway and bridge construction, including survey, traffic control, MSE wall construction and guardrail installation. QA/QC operations are incorporated in this section. Public Relations are also included in this phase.

WORK BREAKDOWN STRUCTURE

Phase 01	**Schedule Milestones**
Phase 02	**Scope Validation Period**
Phase 03	**Permitting**
Phase 04	**Design** 4.1 Prelim Roadway/Bridge Plan (Stage I) 4.2 Final Roadway/Bridge Plan (Stage II)
Phase 05	**Utility Coordination**
Phase 06	**Construction** 6.1 Public Involvement 6.2 QA/QC 6.3 Stage 1 Construction – Partial I-81 SBL 6.4 Stage 2 Construction – I-81 NBL 6.5 Stage 3 Construction – Complete I-81 SBL

Calendars

One project calendar was used in the schedule:

"5 Day Workweek with Basic Holidays" – This calendar is based on five working days per week and is used for activities and includes holiday restrictions not impacted by the weather.

Design Phase

The design phase includes preparation, QA/QC reviews, and submissions of Stage I, Stage II/Final, and Released for Construction design stages of the bridge and roadway design process. Included are 21-day review activities for VDOT review periods. Included to support the plan preparation is survey coordination and mapping, geotechnical investigations, and utility designations. Activities are included for geotechnical investigations, reports and a 90-day period for VDOT's review of the geotechnical report prior to submitting the final bridge and roadway plans. The design phase will begin immediately upon Notice of Intent to Award to begin work advancing the concept plans to the Stage I. It is expected to have Released for Construction plans in November 2016.

Environmental Permitting

Activities have been incorporated for the full project wide concept SWM/ES Plan, Complete Wetland Delineation, Confirm Jurisdictional Determinations, Threatened and Endangered Species, Water Quality Permits and the VSMP Permit. The USCOE Nationwide Permit and the TVA Permit are on the critical path due to the durations to obtain these permits. Getting these applications in early and correctly will be imperative to keep the permits from delaying the project.

Utility Coordination

Utility relocation is not anticipated for completion of this project. There are local utilities which will need to be identified, located and delineated during each stage of construction.

Plan to Execute the Work

In general, we plan to complete the design of the project prior to commencing construction, perform the construction with completion of the project on or before the Final Completion Date of 9/4/2018.

For this project we have made the following assumptions:

- Utility relocations are not anticipated and will not impact the schedule.
- Halls Bottom Rd. will be closed during the life of the project.
- A portion of grading, asphalt paving operations and the installation of traffic control devices will be performed at night.
- The majority of construction operations will take place behind temporary barrier wall, out of traffic and during daytime hours.
- Final Job Completion: Work will be completed by September 4, 2018.

Schedule Overview

Notice of Intent to Award:	March 25, 2016
Design Activities:	March 2016 – November 2016
Construction:	November 2016 – September 2018
Final Completion:	September 4, 2018

Construction

Construction will be accomplished in three stages, as detailed below.

Stage 1 Construction: This initial construction stage involves the construction of a portion of the I-81 SBL Bridge and approaches, which will be positioned between the two existing bridges, to the immediate east of the existing SBL Bridge. To make room for the new structure, the existing SBL Bridge overhang and barrier rail will be demolished. Temporary barrier rail (both standard and anchored) will be placed on the existing SBL Bridge and along the edge of pavement and traffic will be shifted slightly to the west. Temporary shoring will be installed to allow for the construction of MSE walls and Abutments A & B. Halls Bottom Rd. will be permanently closed during this stage, with traffic detoured off-site.

Stage 2 Construction: This intermediate construction stage involves the demolition of the existing and re-construction of the new I-81 NBL Bridge. To accommodate the construction of the new structure, I-81 NB traffic will be temporarily shifted to the newly constructed portion of the I-81 SBL Bridge detailed in Stage 1 above. Once construction of the new I-81 NBL Bridge is complete, traffic will be shifted from the SBL Bridge to the

new NBL Bridge. Temporary shoring will be installed to allow for the construction of MSE walls and Abutments A & B. Halls Bottom Rd. will be permanently closed during this stage, with traffic detoured off-site.

Stage 3 Construction: This final construction stage involves the demolition and re-construction of the remaining portion of the existing I-81 SBL Bridge. Traffic will be shifted from the old SBL Bridge to the newly constructed portion of the SBL Bridge. The remaining old SBL Bridge will be demolished and the new structure built. Temporary shoring will be installed to allow for the construction of MSE walls and Abutments A & B. Final grading, asphalt placement, guardrail installation, seeding and placement of final pavement markings will occur in this stage. Halls Bottom Rd. will be re-opened at the completion of this stage.

Construction is scheduled to take place with multiple crews. The grading and bridge work will be constructed simultaneously. Weekly scheduling and supervisory meetings with the Construction Manager, Project Engineer, Construction QC Manager, QAM, superintendents, foreman, and engineers will be held to establish three-week schedules. These schedules include detailed QC inspection and testing needs. Subcontractors will be involved in weekly scheduling meetings.

Critical Path

The Critical Path is shown in Volume 2. The critical path flows through the Permitting and the Stage I plans. Critical Path culminates with the staged Bridge and Roadway Construction and subsequent demobilization.

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	Vol. 1, pgs. 12-13
Acknowledgement of RFP, Revisions, and/or Addenda	Attachment 3.6 (Form C-78-RFP)	Sections 3.6, 4.0.1.1	Vol. 1, pg. 14
Letter of Submittal	NA	Sections 4.1	Vol. 1, pgs. 1-2
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	Vol. 1, pg. 1
Offeror's official representative information	NA	Section 4.1.1	Vol. 1, pg. 1
Authorized representative's original signature	NA	Section 4.1.1	Vol. 1, pg. 2
Declaration of intent	NA	Section 4.1.2	Vol. 1, pg. 1
120 day declaration	yes	Section 4.1.3	Vol. 1, pg. 1
Point of Contact information	yes	Section 4.1.4	Vol. 1, pg. 1
Principal Officer information	NA	Section 4.1.5	Vol. 1, pg. 1
Final Completion Date	NA	Section 4.1.6	Vol. 1, pg. 1
Proposal Payment Agreement or Waiver of Proposal Payment	Attachment 9.3.1 or 9.3.2	Section 4.1.7	Vol. 1, pgs. 15-18
Certification Regarding Debarment Forms	Attachment 11.8.6(a) Attachment 11.8.6(b)	Section 4.1.8	Vol. 1, pgs. 19-24
Written statement of percent DBE participation	NA	Section 4.1.9	Vol. 1, pg. 1

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
Attachments to the Letter of Submittal	NA	Section 4.2	Vol.1, pgs. 3-11
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	Vol. 1, pg. 3
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1	Vol. 1, pg. 3
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.1	Vol. 1, pgs. 4-7
Conceptual Roadway Plans – Plan View	NA	Section 4.2.2	Vol. 2, pgs. 3-6
Conceptual Roadway Plans – Typical Sections	NA	Section 4.2.2	Vol. 2, pg.2
Conceptual Bridge Plans – Plan View	NA	Section 4.2.3	Vol. 2, pg.1
Conceptual Bridge Plans – Transverse Section	NA	Section 4.2.3	Vol. 2, pg. 3
Conceptual Bridge Plans – Abutment/Pier Configuration	NA	Section 4.2.3	Vol. 2, pgs. 4-5
Proposal Schedule	NA	Section 4.2.4	Vol.2 pgs. 2-3
Proposal Schedule	NA	Section 4.2.4.1	Vol. 2, pgs. 2-3
Proposal Schedule Narrative	NA	Section 4.2.4.2	Vol. 1, pgs. 8-11
Proposal Schedule in electronic format (CD-ROM)	NA	Section 4.2.4	CD Enclosed

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 — DATE: 3·7·16

Luther J. Blythe Jr. — PRINTED NAME

Vice President of Operations — TITLE

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 BLYTHE DEVELOPMENT CO. ("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: _____

[Insert Offeror's Name] Blythe Development Co.

By: _____

Name: Luther J. Blythe Jr.

Title: Vice President of Operations

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.

3.7.16 — Vice President of Operations

Signature — Date — Title

Blythe Development Co.

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	Director Title

Rummel, Klepper & Kahl, LLP (RK&K)

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.

Ken Anderson 3/3/16 CEO

Signature Date Title

Anderson & Associates, 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	Title
[signature]	02/23/16	PRINCIPAL

CES CONSULTING LLC
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.

J. Randy Wirt 2/22/16 VICE PRESIDENT
Signature Date Title

ECS MID-ATLANTIC, LLC.
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.

Dennis C. Morrison — Senior Vice President

Signature Date Title

Volkert, Inc.

Name of Firm

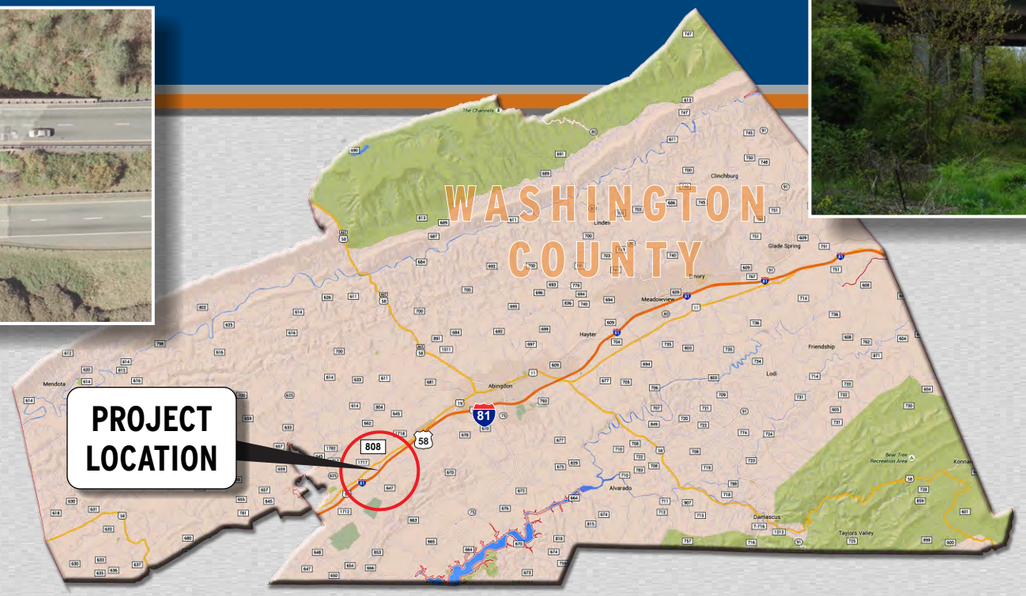
Letter of Submittal and Attachments - Volume II

A Design-Build Project

Replacement of I-81 Structures 18942 & 18944 over Rte. 808 Halls Bottom Rd and Sinking Creek

From: 0.94 Miles Northeast of Rte F310 To: 1.83 Miles Southwest of Rte 611 Spring Creek Rd
Washington County, Virginia

State Project No.: 0081-095-038
Contract ID Number: C00107116DB85



Submitted by: Blythe In association with: RK&K

March 7, 2016

Virginia Department of Transportation

Section 4.2.2
Conceptual Roadway Plans

Blythe

In association with: RK&K

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.		81	0081-095-038 (SEE TABULATION BELOW FOR SECTION NUMBERS)	1

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. S-18942-18944

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
DESIGN-BUILD PROJECT

WASHINGTON COUNTY

I-81 NB & SB over Rte 808 (Halls Bottom Road) and Sinking Creek

FROM: 0.17 Mi. South of Rte. 808 (Halls Bottom Road)
TO: 0.23 Mi. North of Rte. 808 (Halls Bottom Road)

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
RURAL PRINCIPAL ARTERIAL - 75 MPH MIN. DESIGN SPEED (GS-1)	
	FROM: 0.17 Mi. South of Rte. 808 (Halls Bottom Road) TO: 0.23 Mi. North of Rte. 808 (Halls Bottom Road)
ADT (2012)	46066
ADT (2041)	72000
DHV (2041)	7200
D (%) (design hour)	50%
T (%) (design hour)	22%
V (MPH)	⊙

⊙ SEE PLAN AND PROFILE SHEETS FOR HORIZONTAL AND VERTICAL CURVE DESIGN SPEEDS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT MANAGER
SURVEYED BY, DATE
DESIGN BY
SUBSURFACE UTILITY BY, DATE

CONVENTIONAL SIGNS

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

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

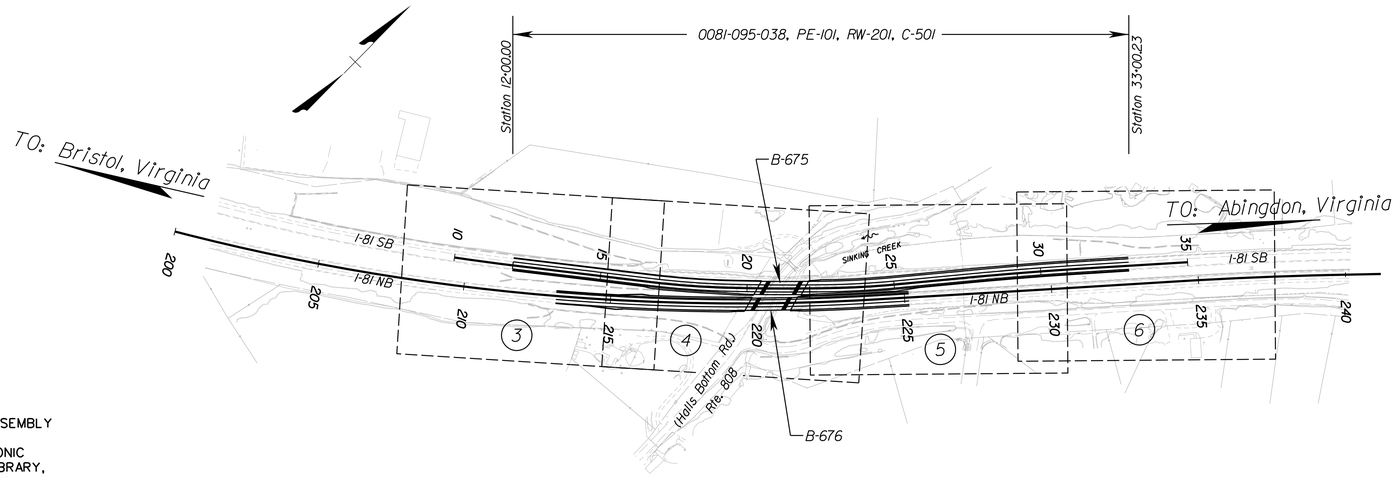
THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, HAS BEEN SEALED AND SIGNED USING DIGITAL SIGNATURES AND THE OFFICIAL PLAN ASSEMBLY IN ELECTRONIC FORMAT IS STORED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE THE GENERAL NOTES.

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

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2007 ROAD AND BRIDGE SPECIFICATIONS, 2008 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11R, EXCEPT WHERE OTHERWISE NOTED.

THE ORIGINAL APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, ARE FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.



Washington County, Va., Population: 54,876 (2010 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES	LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PROJECT NO.	TYPE PROJECT	DESCRIPTION
					FEET	FEET	MILES	FEET	MILES			
0081-095-038	PE-101			18942-18944		2100.23	0.398	1983.63	0.376		PRE. ENGR.	FROM: 0.17 Mi. South of Rte. 808 (Halls Bottom Road)
												TO: 0.23 Mi. North of Rte. 808 (Halls Bottom Road)
	RW-201			18942-18944		2100.23	0.398	1983.63	0.376		RIGHT-OF-WAY	FROM: 0.17 Mi. South of Rte. 808 (Halls Bottom Road)
												TO: 0.23 Mi. North of Rte. 808 (Halls Bottom Road)
	C-501			18942-18944		2100.23	0.398	1983.63	0.376		CONSTR.	FROM: 0.17 Mi. South of Rte. 808 (Halls Bottom Road)
												TO: 0.23 Mi. North of Rte. 808 (Halls Bottom Road)
	B-675			18942-18944		116.60	0.022				BRIDGE	SB I-81 Bridge Over Route 808 (Halls Bottom Rd.)
	B-676			18942-18944		111.20	0.021				BRIDGE	NB I-81 Bridge Over Route 808 (Halls Bottom Rd.)

Project Lengths are based on I-81 SB Construction Baseline & B-675.

REVISED

RECOMMENDED FOR APPROVAL FOR RIGHT OF WAY ACQUISITION	
DATE	PROGRAMMING DIVISION DIRECTOR
DATE	STATE LOCATION AND DESIGN ENGINEER
DATE	CHIEF OF PROGRAMMING AND PLANNING
DATE	CHIEF ENGINEER

APPROVED FOR RIGHT OF WAY ACQUISITION	
DATE	CHIEF OF POLICY

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

APPROVED FOR CONSTRUCTION	
DATE	CHIEF ENGINEER

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

PROJECT	SHEET NO.
0081-095-038	1

PROJECT MANAGER _____
SURVEYED BY, DATE _Robert C.Buckley Jr.-(Rice Associates) (1/10/14)_____
DESIGN BY _____
SUBSURFACE UTILITY BY, DATE _____

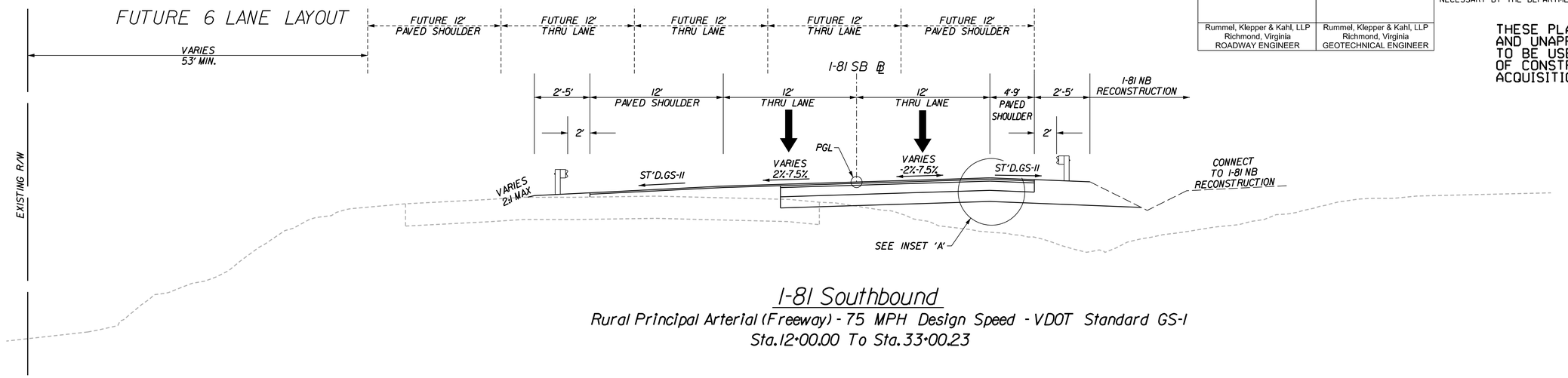
Rummel, Klepper & Kahl, LLP Richmond, Virginia ROADWAY ENGINEER	Rummel, Klepper & Kahl, LLP Richmond, Virginia GEOTECHNICAL ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038 RW-201,C-501 B-675,B-676	2

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

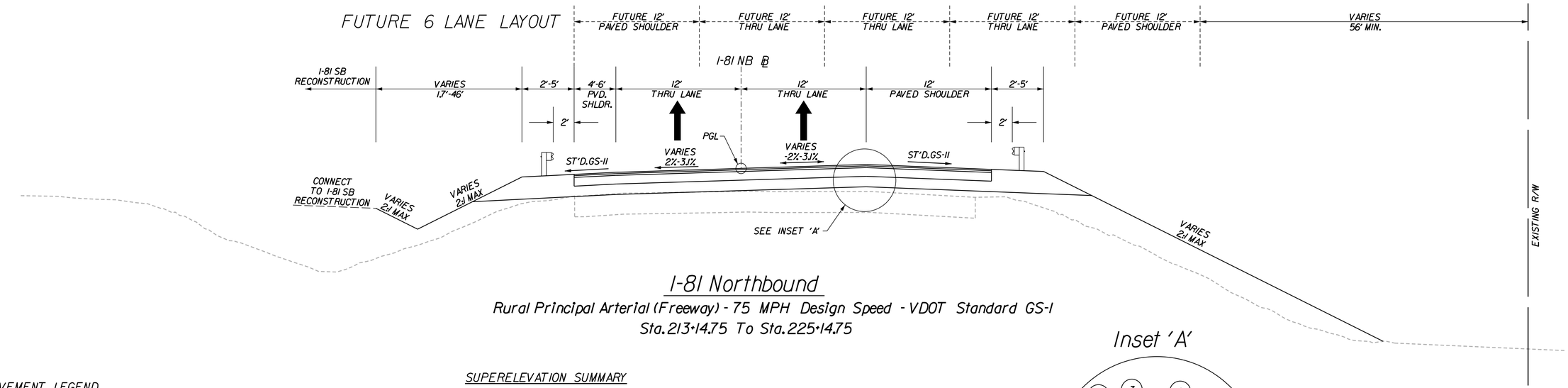
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

TYPICAL SECTIONS



I-81 Southbound

Rural Principal Arterial (Freeway) - 75 MPH Design Speed - VDOT Standard GS-1
Sta.12+00.00 To Sta.33+00.23



I-81 Northbound

Rural Principal Arterial (Freeway) - 75 MPH Design Speed - VDOT Standard GS-1
Sta.213+14.75 To Sta.225+14.75

PAVEMENT LEGEND

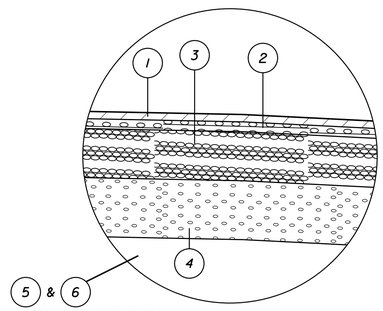
1. Asphalt Concrete Surface Course, Type SM-12.5E @ 220 LBS/SY
2. Asphalt Concrete Intermediate Course, Type IM-19.0E @ 230 LBS/SY
3. 10.0" Asphalt Concrete Base Course, Type BM-25.0A
4. 12.0" Aggregate Base Material, Type 1, No. 21B.
5. 2.0" Aggregate Base Material Leveling Course, Type 1, No. 21B.
6. 12.0" Aggregate Material No. 1

SUPERELEVATION SUMMARY

I-81 Southbound Superelevation Summary		
Begin Sta.	End Sta.	Superelevation
12+00.00	13+98.15	2%/Normal Crown
13+98.15	17+73.15	Trans. From 2%/Normal Crown To 7.5% RT
17+73.15	18+50.40	7.5% RT
18+50.40	20+25.40	Trans. From 7.5% RT To 3.1% RT
20+25.40	22+02.84	3.1% RT
22+02.84	23+77.84	Trans. From 3.1% RT To 7.5% RT
23+77.84	24+01.20	7.5% RT
24+01.20	27+76.20	Trans. From 7.5% RT To 2.0% LT
27+76.20	31+40.23	2.0% LT
31+40.23	33+00.23	Trans. From 2.0% LT To 2%/Normal Crown

I-81 Northbound Superelevation Summary		
Begin Sta.	End Sta.	Superelevation
213+14.75	215+19.75	Trans. From 2%/Normal Crown To 3.1% RT
215+19.75	223+09.75	3.1% RT
223+09.75	225+14.75	Trans. From 3.1% RT To 2%/Normal Crown

Inset 'A'



SUBGRADE PREPARATION

	PROJECT	SHEET NO.
	0081-095-038	2

PROJECT MANAGER _____
SURVEYED BY, DATE _Robert C.Buckley Jr.-(Rice Associates)(1/10/14)_____
DESIGN BY _____
SUBSURFACE UTILITY BY, DATE _____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038 RW-201,C-501 B-675,B-676	3

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

Rummel, Klepper & Kahl, LLP Richmond, Virginia ROADWAY ENGINEER	Rummel, Klepper & Kahl, LLP Richmond, Virginia HYDRAULIC ENGINEER

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

Utility Owners:

Electric:
Appalachian Power
13563 Owens Drive
Glade Spring,VA 24340
Ms.Scarlet Collie,Engineering Technician
276-429-4117

Communications:
BVU Authority-Fiber Optic
P.O.Box 8100,15022 Lee Highway
Bristol, VA 24202
Mr.Richard Adkins,P.E.
276-645-8730

Cable TV:
Comcast Communications
P.O.Box 38
Glade Spring,VA 24340
Mr.Earl Combs,Technician
276-235-1611

Water:
Washington County Service Authority
25122 Regal Drive
Abingon,VA 24211
Mr.Mark Osborne,Technical Manager
276-628-7151

Telephone:
CenturyLink
2 Spruce Street
Bristol,TN 37620
Ms.Marcia Buckles,Engineering Technician
423-989-2243

Curve SBS_2201
PI = 11+00.01
DELTA = 1° 28' 08.84" (LT)
D = 0° 44' 04"
T = 100.01'
L = 200.00'
R = 7,800.00'
PC = 10+00.00
PT = 12+00.00
V = 75 MPH
E = 3.1% RT

Curve NB81-01
PI = 207+37.72
DELTA = 11° 00' 59.41" (LT)
D = 0° 44' 56"
T = 737.72'
L = 1,470.90'
R = 7,650.00'
PC = 200+00.00
PCC = 214+70.90
V = 75 MPH
E = 3.1% RT

LAURA H. QUESENBERRY
PB55 PG30
1.43 AC.
Tax# 143-A-7

LAURA M. H. QUESENBERRY
DB638 PG696
43.92 AC.
Tax# 143-A-7A

Begin Project & Construction
0081-095-038,C-501
Station 12+00
I-81 Southbound Constr.℄

Begin Construction
0081-095-038,C-501
Station 213+14.75
I-81 Northbound Constr.℄

Min.53' Of Exist.R/W Provided For Future Grading,Guardrail, Retaining Walls Or Other Features

Min.56' Of Exist.R/W Provided For Future Grading,Guardrail, Retaining Walls Or Other Features

Edge Of Paved Shoulder For Future Widening

Ex. R/W And Limited Access Line Per Route 81, VDOT Project No. 0081-095-014, (A6830)

I-81 Southbound
I-81 Northbound
I-81 Southbound Constr.℄
I-81 Northbound Constr.℄
PC10+00.00
PT12+00.00
PCC214+70.90
N 52° 19' 56" E
N 48° 24' 52" E

Exist.R/W
4 Wire Fence
Conc.Ditch (Buried)
Conc.Ditch
Mixed Medium Hardwoods
Grass Median
Sign
Shed
Approx.Location Per GIS
VDH Mon. =1106 161.33' RT
BM #1 =65.18 10.86' RT

Match Line Sta.16+25 - See Sheet 4
Match Line Sta.215+75 - See Sheet 4

KEY LEGEND

1. *Std. GR-2 Guardrail Req'd.*
2. *Std. GR-9 Guardrail Terminal Req'd.*
3. *Std. GR-11 Guardrail Terminal Req'd.*
4. *Std. GR-FOA-2 Type I Fixed Object Attachment Req'd.*
5. *Std. GR-FOA-2 Type II Fixed Object Attachment Req'd.*
6. *Std. MB-3 W-Beam Median Barrier Req'd.*
7. *Remove Existing Guardrail*
8. *Remove Existing Guardrail Terminal*
9. *Connect To Existing Guardrail*

C ____ *Denotes Construction Limits In Cuts*

F ____ *Denotes Construction Limits In Fills*

Note : Figures In parenthesis and dot - dot - dashed lines denote Temporary Easements.

Note : Figures In brackets and dot - dot - dashed lines denote Permanent Easements.

Denotes Demolition of Pavement

Denotes Planing and Overlay

Denotes New Pavement

SCALE
0 25' 50'

	PROJECT	SHEET NO.
	0081-095-038	3

PROJECT MANAGER
SURVEYED BY, DATE Robert C. Buckley Jr. (Rice Associates) 11/10/14
DESIGN BY
SUBSURFACE UTILITY BY, DATE

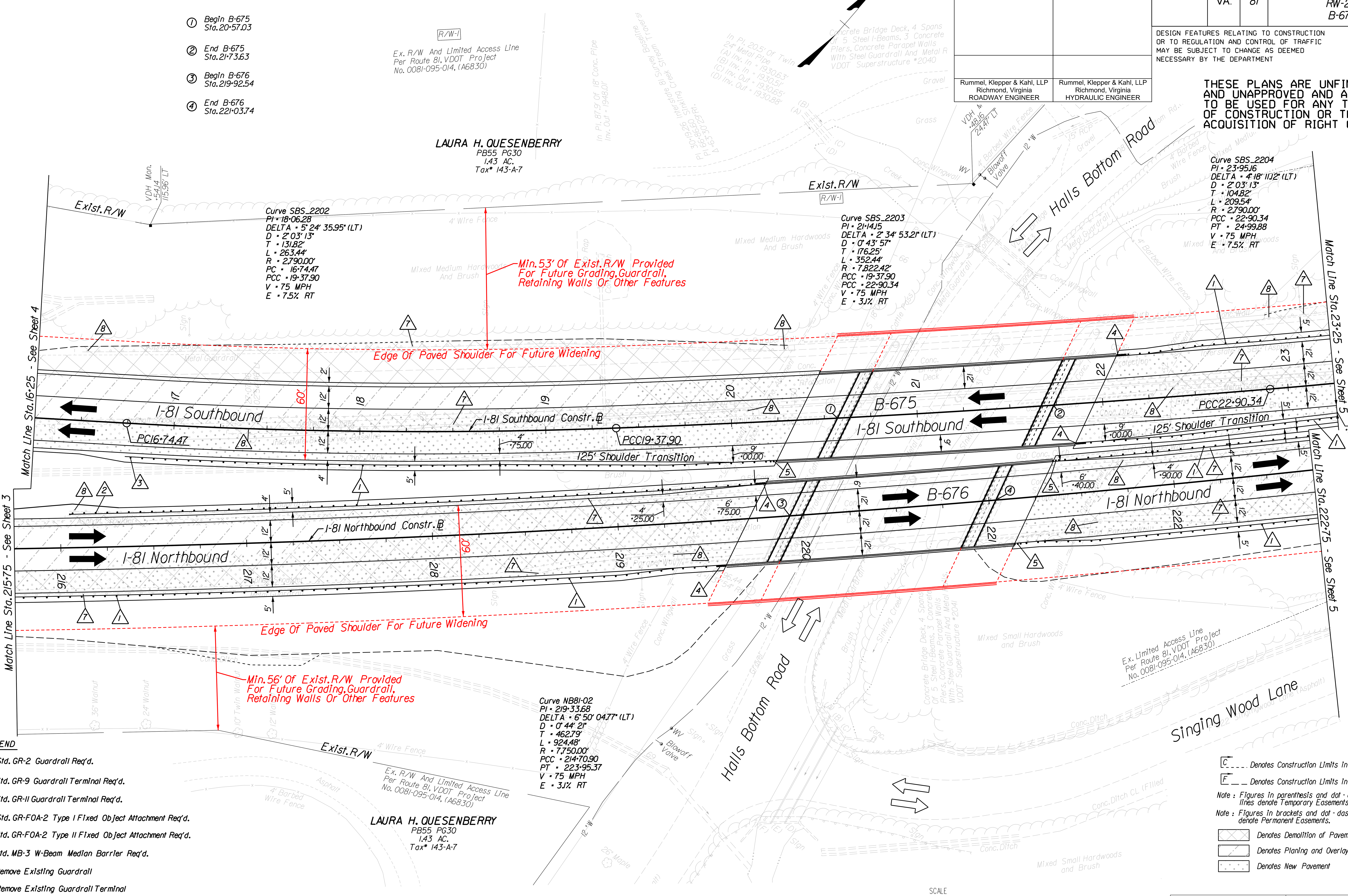
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038 RW-201, C-501 B-675, B-676	4

Rummel, Klepper & Kahl, LLP
Richmond, Virginia
ROADWAY ENGINEER

Rummel, Klepper & Kahl, LLP
Richmond, Virginia
HYDRAULIC ENGINEER

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

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



KEY LEGEND

1. Std. GR-2 Guardrail Req'd.
2. Std. GR-9 Guardrail Terminal Req'd.
3. Std. GR-11 Guardrail Terminal Req'd.
4. Std. GR-FOA-2 Type I Fixed Object Attachment Req'd.
5. Std. GR-FOA-2 Type II Fixed Object Attachment Req'd.
6. Std. MB-3 W-Beam Median Barrier Req'd.
7. Remove Existing Guardrail
8. Remove Existing Guardrail Terminal
9. Connect To Existing Guardrail

C — Denotes Construction Limits In Cuts
F — Denotes Construction Limits In Fills

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

Denotes Demolition of Pavement
Denotes Planing and Overlay
Denotes New Pavement

SCALE 0 25' 50'

PROJECT	SHEET NO.
0081-095-038	4

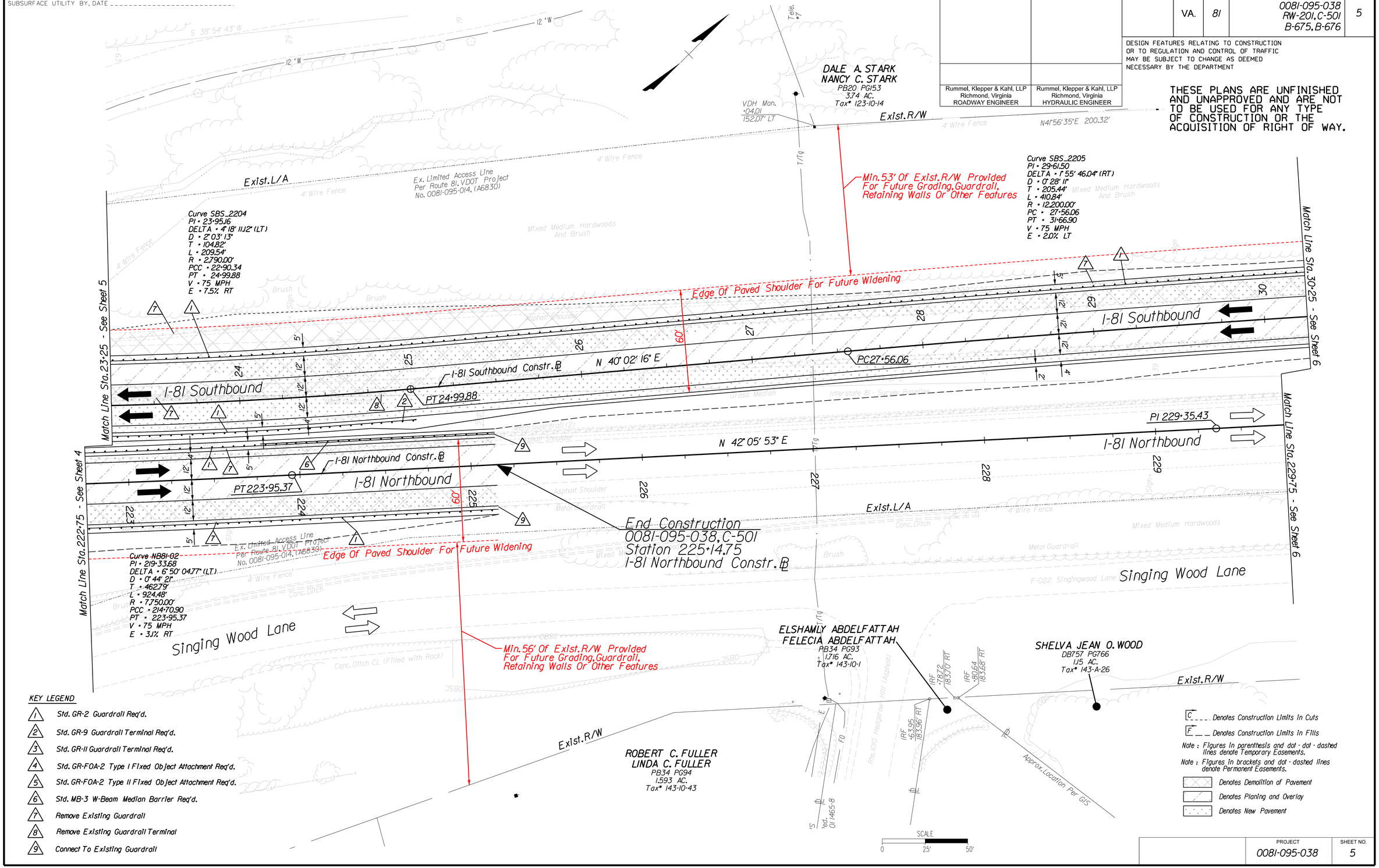
PROJECT MANAGER _____
SURVEYED BY, DATE Robert C. Buckley Jr. (Rice Associates) (1/10/14)
DESIGN BY _____
SUBSURFACE UTILITY BY, DATE _____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038 RW-201, C-501 B-675, B-676	5

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

Rummel, Klepper & Kahl, LLP Richmond, Virginia ROADWAY ENGINEER	Rummel, Klepper & Kahl, LLP Richmond, Virginia HYDRAULIC ENGINEER

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



KEY LEGEND

1. Std. GR-2 Guardrail Req'd.
2. Std. GR-9 Guardrail Terminal Req'd.
3. Std. GR-11 Guardrail Terminal Req'd.
4. Std. GR-FOA-2 Type I Fixed Object Attachment Req'd.
5. Std. GR-FOA-2 Type II Fixed Object Attachment Req'd.
6. Std. MB-3 W-Beam Median Barrier Req'd.
7. Remove Existing Guardrail
8. Remove Existing Guardrail Terminal
9. Connect To Existing Guardrail

C_____ Denotes Construction Limits In Cuts

F_ _ _ Denotes Construction Limits In Fills

Note : Figures In parenthesis and dot - dot - dashed lines denote Temporary Easements.

Note : Figures In brackets and dot - dashed lines denote Permanent Easements.

Denotes Demolition of Pavement

Denotes Planing and Overlay

Denotes New Pavement

SCALE 0 25' 50'

PROJECT	SHEET NO.
0081-095-038	5

PROJECT MANAGER _____
SURVEYED BY, DATE _Robert C.Buckley Jr.-(Rice Associates) (1/10/14)_____
DESIGN BY _____
SUBSURFACE UTILITY BY, DATE _____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	81	0081-095-038 RW-201,C-501 B-675,B-676	6

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

Rummel, Klepper & Kahl, LLP Richmond, Virginia ROADWAY ENGINEER	Rummel, Klepper & Kahl, LLP Richmond, Virginia HYDRAULIC ENGINEER

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

DALE A. STARK
NANCY C. STARK
PB20 PG153
3.74 AC.
Tax# 123-10-14

Exist.R/W
N46°33'55"E 400.71'
Conc.Ditch
4 Wire Fence
Mixed Medium Hardwoods
VDH Mon. -080.04 132.03' LT
Ex. R/W And Limited Access Line Per Route 81, VDOT Project No. 0081-095-014, (A6830)
N42°11'22"E 200.54'
VDH Mon. -08.58 132.16' LT
Hardwoods
IPF -0.7- 131.2'
Exist.R/W
Fence Remains
Brush
Pt 46°58'30" Δ 0°09'42" Rt.

Curve SBS_2205
PI = 29+61.50
DELTA = 1° 55' 46.04" (RT)
D = 0° 28' 11"
T = 205.44'
L = 410.84'
R = 12,200.00'
PC = 27+56.06
PT = 31+66.90
V = 75 MPH
E = 2.0% LT

Min. 53' Of Exist.R/W Provided For Future Grading, Guardrail, Retaining Walls Or Other Features

End Project & Construction
0081-095-038,C-501
Station 33+00.23
I-81 Southbound Constr.℄

Edge Of Paved Shoulder For Future Widening

Match Line Sta.30+25 - See Sheet 5

I-81 Southbound
I-81 Southbound Constr.℄
PT 31+66.90
N 41° 58' 02" E
POT 35+00.48
I-81 Southbound
Interstate 81 SBL (Asphalt)
Asphalt Shoulder
Grass Median
Metal Guardrail (2)
Rim = 1988.50'
Inv. Out = 1985.94'
8' LT
Interstate 81 - Survey Baseline
N 42°13'34" E
PC234+42.89
I-81 Northbound
I-81 Northbound Constr.℄
N 41° 57' 04" E
Asphalt Shoulder
Sign
Ex. Limited Access Line Per Route 81, VDOT Project No. 0081-095-014, (A6830)
Mixed Medium Hardwoods
Brush
Curve NB81-03
PI = 236+95.76
DELTA = 2°16' 20.68" (RT)
D = 0° 26' 58"
T = 252.87'
L = 505.68'
R = 12,750.00'
PC = 234+42.89
PT = 239+48.57
Exist.L/A
Singing Wood Lane
Singingwood Lane (Asphalt)
OBSC
Match Line Sta.229+75 - See Sheet 5

SHELVA JEAN O. WOOD
DB757 PG766
11.5 AC.
Tax# 143-A-26

SHELVA JEAN O. WOOD
DB757 PG766
0.75 AC.
Tax# 143-A-27

IPF -45.27 17.32' RT

SINGINGWOOD BAPTIST CHURCH
2.00 AC.
Tax# 123-10-15

VDH Mon. -09.39 17.32' RT

Per GIS

Ex. R/W Per Route 81, VDOT Project No. 0081-095-014, (A6830)

Approx. Location Per GIS

C ___ Denotes Construction Limits In Cuts
F __ Denotes Construction Limits In Fills
Note : Figures In parenthesis and dot - dot - dashed lines denote Temporary Easements.
Note : Figures In brackets and dot - dashed lines denote Permanent Easements.
Denotes Demolition of Pavement
Denotes Planing and Overlay
Denotes New Pavement

KEY LEGEND

1. Std. GR-2 Guardrail Req'd.
2. Std. GR-9 Guardrail Terminal Req'd.
3. Std. GR-11 Guardrail Terminal Req'd.
4. Std. GR-FOA-2 Type I Fixed Object Attachment Req'd.
5. Std. GR-FOA-2 Type II Fixed Object Attachment Req'd.
6. Std. MB-3 W-Beam Median Barrier Req'd.
7. Remove Existing Guardrail
8. Remove Existing Guardrail Terminal
9. Connect To Existing Guardrail

SCALE
0 25' 50'

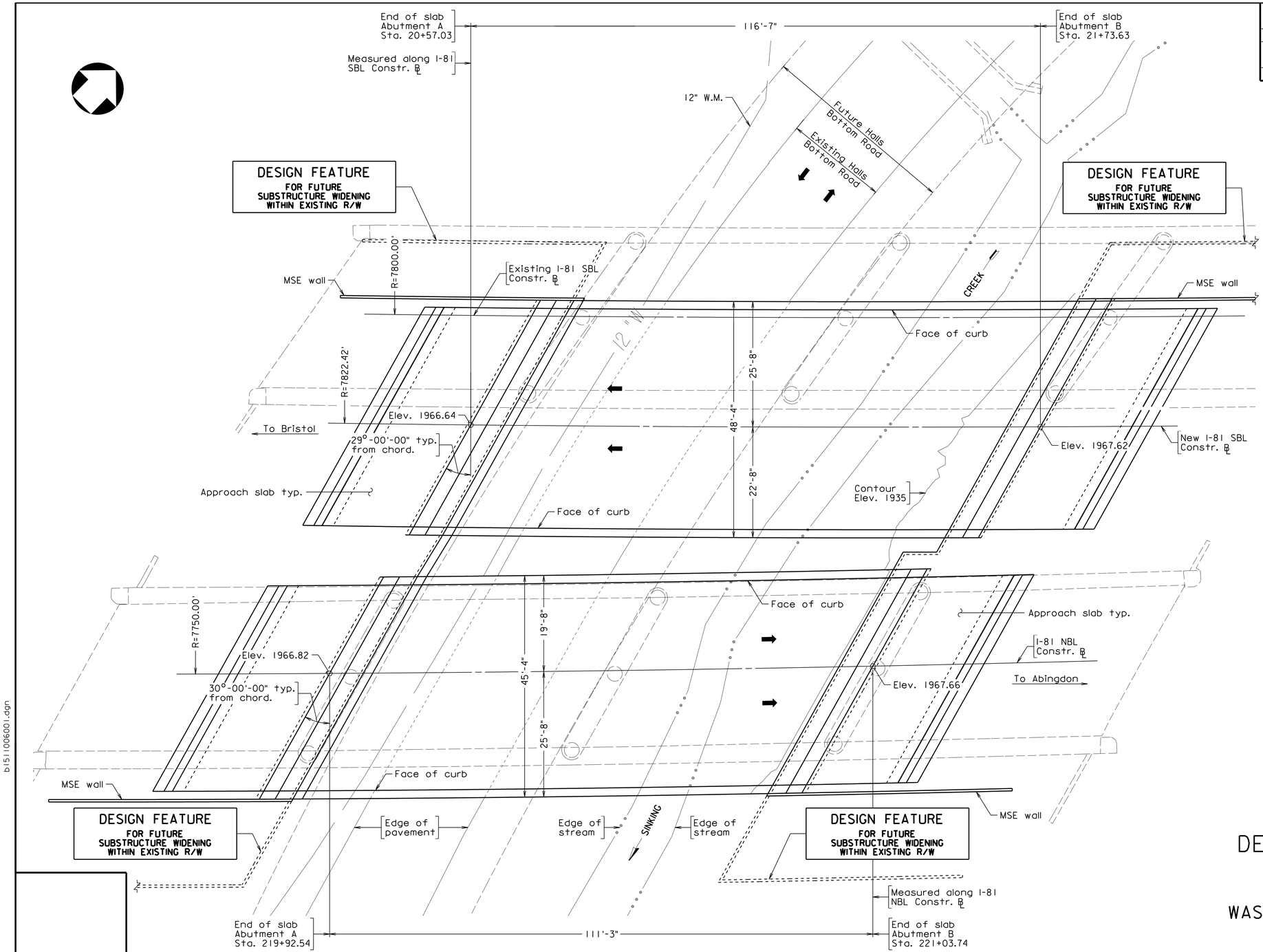
	PROJECT	SHEET NO.
	0081-095-038	6

Virginia Department of Transportation

Section 4.2.3
Conceptual Bridge Plans

In association with:

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—			0081-095-038, B675, B676	1
NBIS Number:			UPC No.		
Federal Oversight Code:			FHWA Construction and Scour Code:		



PLAN

DESIGN EXCEPTION(S):

None.

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: 45'-0" face-to-face of curb - SB bridge
42'-0" face-to-face of curb - NB bridge

Span layout: 116'-7" prestressed concrete 69" deep bulb-T beam - SB
111'-3" prestressed concrete 69" deep bulb-T beam - NB

Capacity: HL-93 loading.

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.

Bridge No. of existing (SBL) bridge is 2040. Plan No. is 140-21; 140-21A; 140-21B.

Bridge No. of existing (NBL) bridge is 2041. Plan No. is 140-21; 140-21A; 140-21B.

VDOT

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF TRANSPORTATION

PROPOSED BRIDGE ON NB AND SB I-81 OVER RTE. 808 (HALLS BOTTOM RD.) WASHINGTON COUNTY - 1.9 MI. W. ROUTE 611 PROJECT 0081-095-038, B675, B676

RK&K
RICHMOND, VA
STRUCTURAL ENGINEER

PLANS BY:	RK&K
COORDINATED:	
SUPERVISED:	Gary S. Johnson
DESIGNED:	Sagar P. Adivarekar
DRAWN:	Jill R. Boxley
CHECKED:	J. Ashley Johnson

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

Scale 3/32" = 1'-0"

No.	Description	Date

REVISIONS

For Table of Revisions, see Sheet 2.

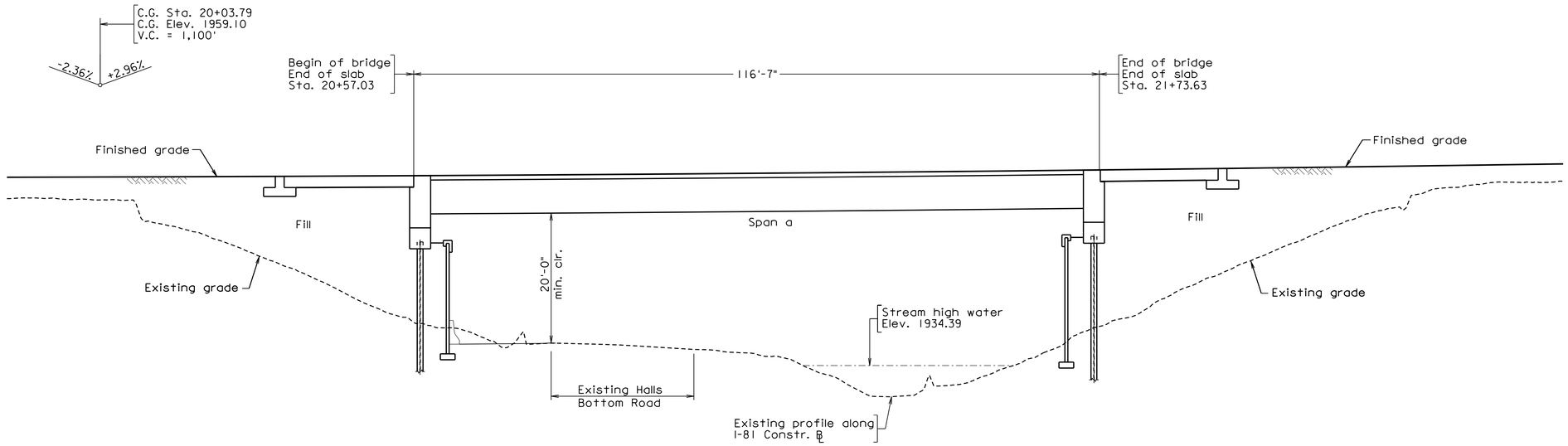
Recommended for Approval: _____ State Structure and Bridge Engineer Date

Approved: _____ Chief Engineer Date

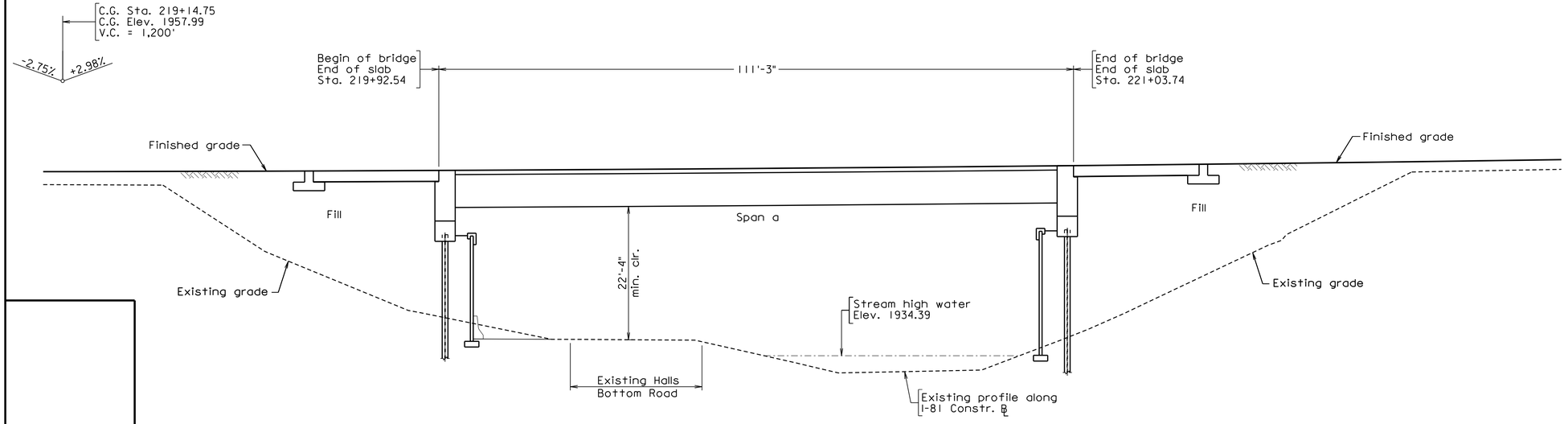
Date: March 7, 2016

b151100600l.dgn

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



DEVELOPED SECTION ALONG SB CONSTR. ℄



DEVELOPED SECTION ALONG NB CONSTR. ℄

b151006002.dgn

RK&K
RICHMOND, VA
STRUCTURAL ENGINEER

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

Scale 3/32" = 1'-0"

No.	Description	Date
Revisions		

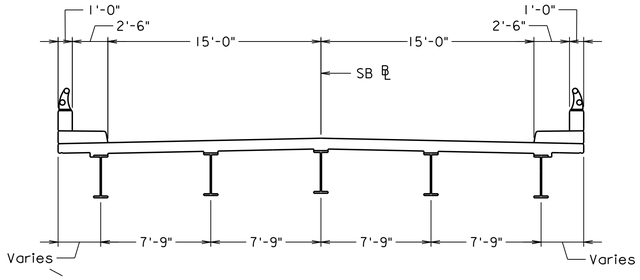
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

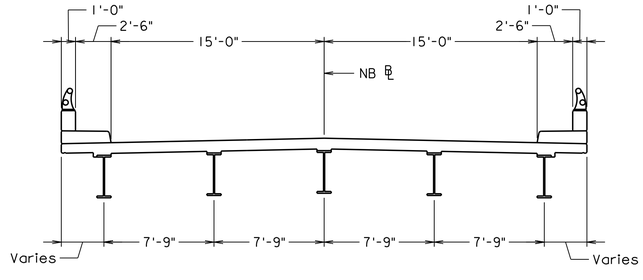
STRUCTURE AND BRIDGE DIVISION

ELEVATIONS

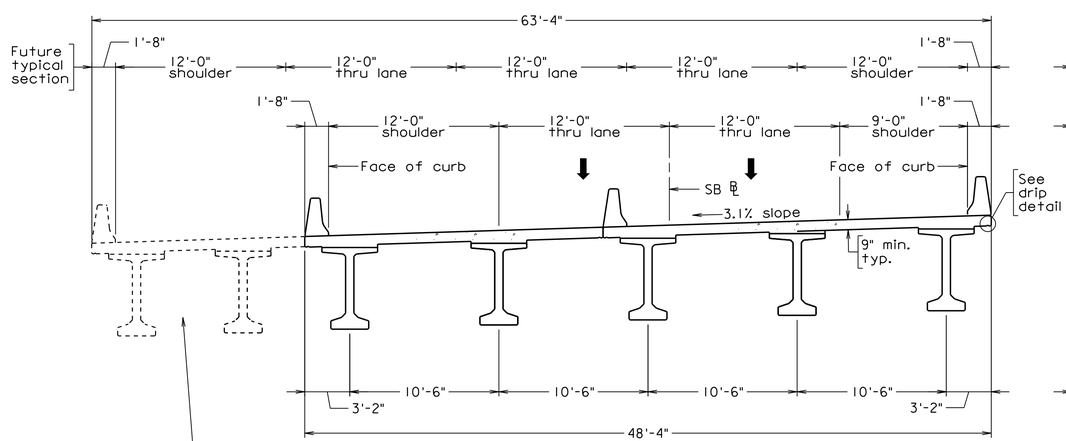
Designed: SPA	Date	Plan No.	Sheet No.
Drawn: JRR	Mar. 2016		2 of 5
Checked: JAV			

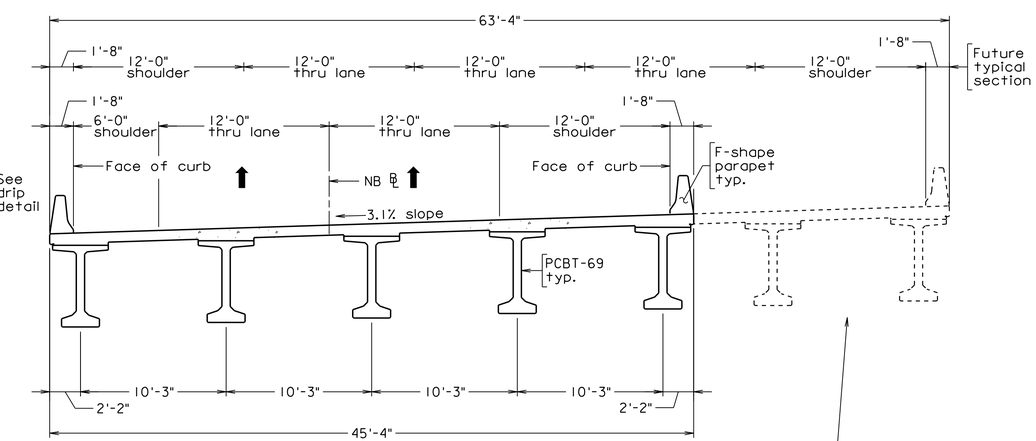
STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—			0081-095-038, B675, B676	3





EXISTING TRANSVERSE SECTION

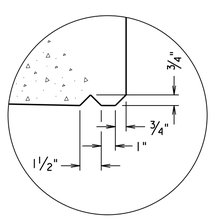




DESIGN FEATURE
FOR FUTURE SUPERSTRUCTURE WIDENING WITHIN EXISTING R/W

DESIGN FEATURE
FOR FUTURE SUPERSTRUCTURE WIDENING WITHIN EXISTING R/W

FINAL TRANSVERSE SECTION



DRIP DETAIL
Not to scale

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION

Scale 3/16" = 1'-0"

b151l1006003.dgn

RK&K
RICHMOND, VA
STRUCTURAL ENGINEER

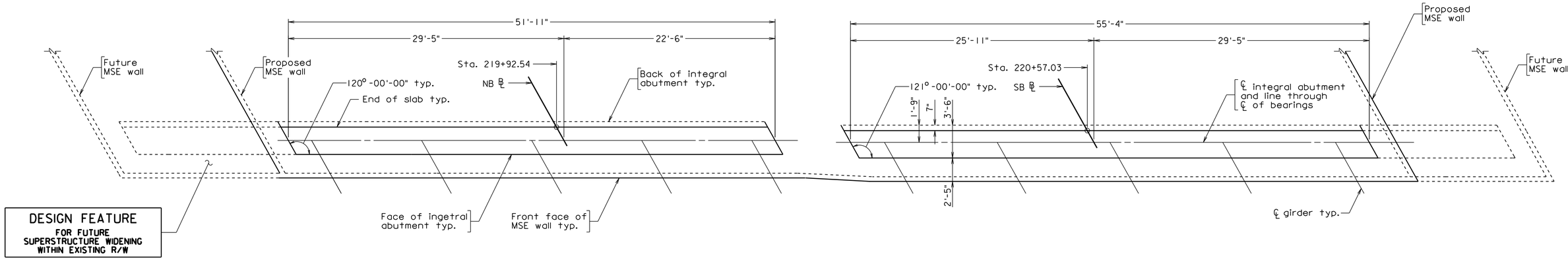
No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION
STRUCTURE AND BRIDGE DIVISION

TRANSVERSE SECTIONS

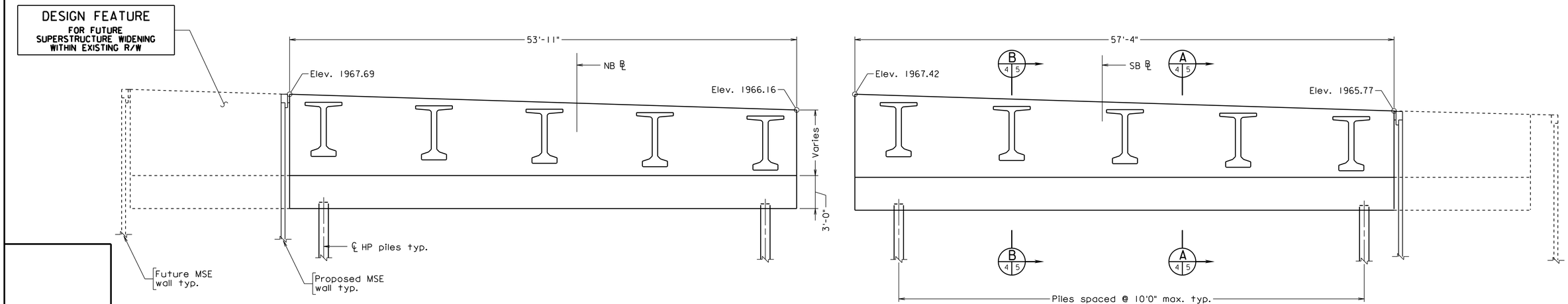
Designed: SPA	Date	Plan No.	Sheet No.
Drawn: JRR	Mar. 2016		3 of 5
Checked: JAV			

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



DESIGN FEATURE
FOR FUTURE SUPERSTRUCTURE WIDENING WITHIN EXISTING R/W

PLAN
(Abutment A shown, Abutment B similar)



ELEVATION
(Abutment A shown, Abutment B similar)

b:\51\1006004.dgn

RK&K
RICHMOND, VA
STRUCTURAL ENGINEER

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED FOR CONSTRUCTION

Scale 3/16" = 1'-0"

No.	Description	Date
Revisions		

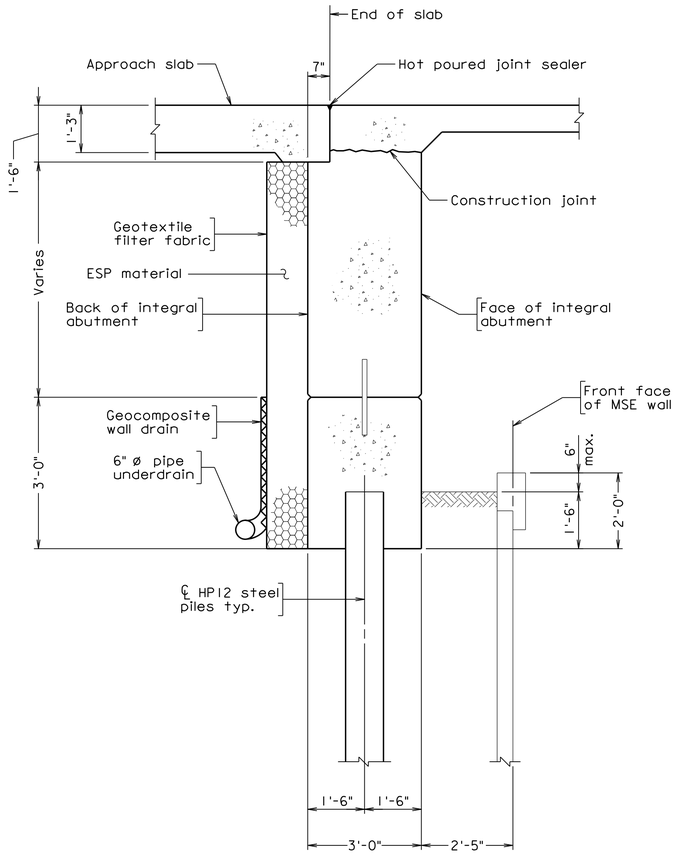
COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

ABUTMENT A
PLAN, ELEVATION AND SECTION

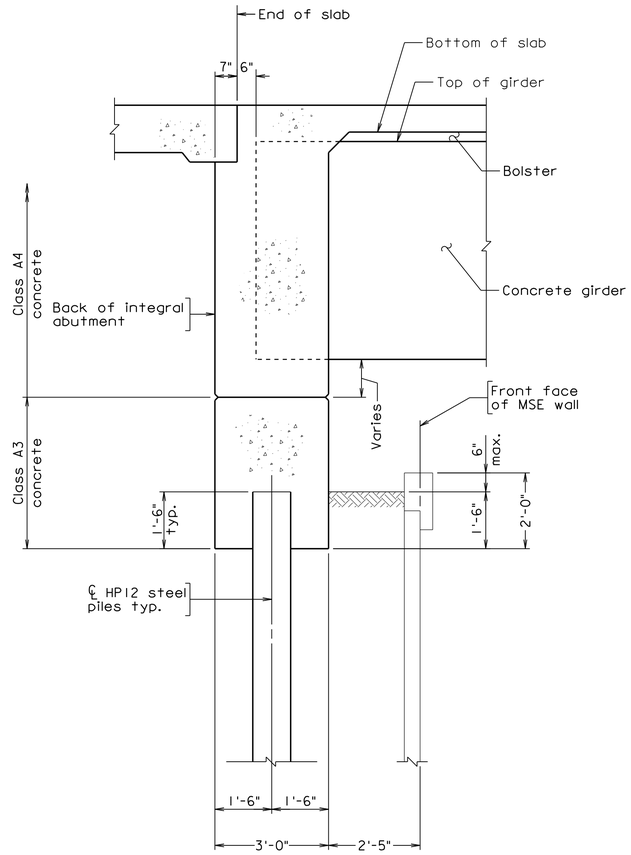
Designed: SPA	Date	Plan No.	Sheet No.
Drawn: JRB	Mar. 2016		4 of 5
Checked: JAV			

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	——			0081-095-038, B675, B676	5



SECTION A 4 5

Between girders



SECTION B 4 5

At girders
For details not shown, see Section A

b151l006005.dgn

RK&K
RICHMOND, VA
STRUCTURAL ENGINEER

Scale 1/2" = 1'-0"

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

TYPICAL ABUTMENT SECTIONS

Designed: SPA	Date	Plan No.	Sheet No.
Drawn: JRB	Mar. 2016		5 of 5
Checked: JAV			

Virginia Department of Transportation

Section 4.2.4

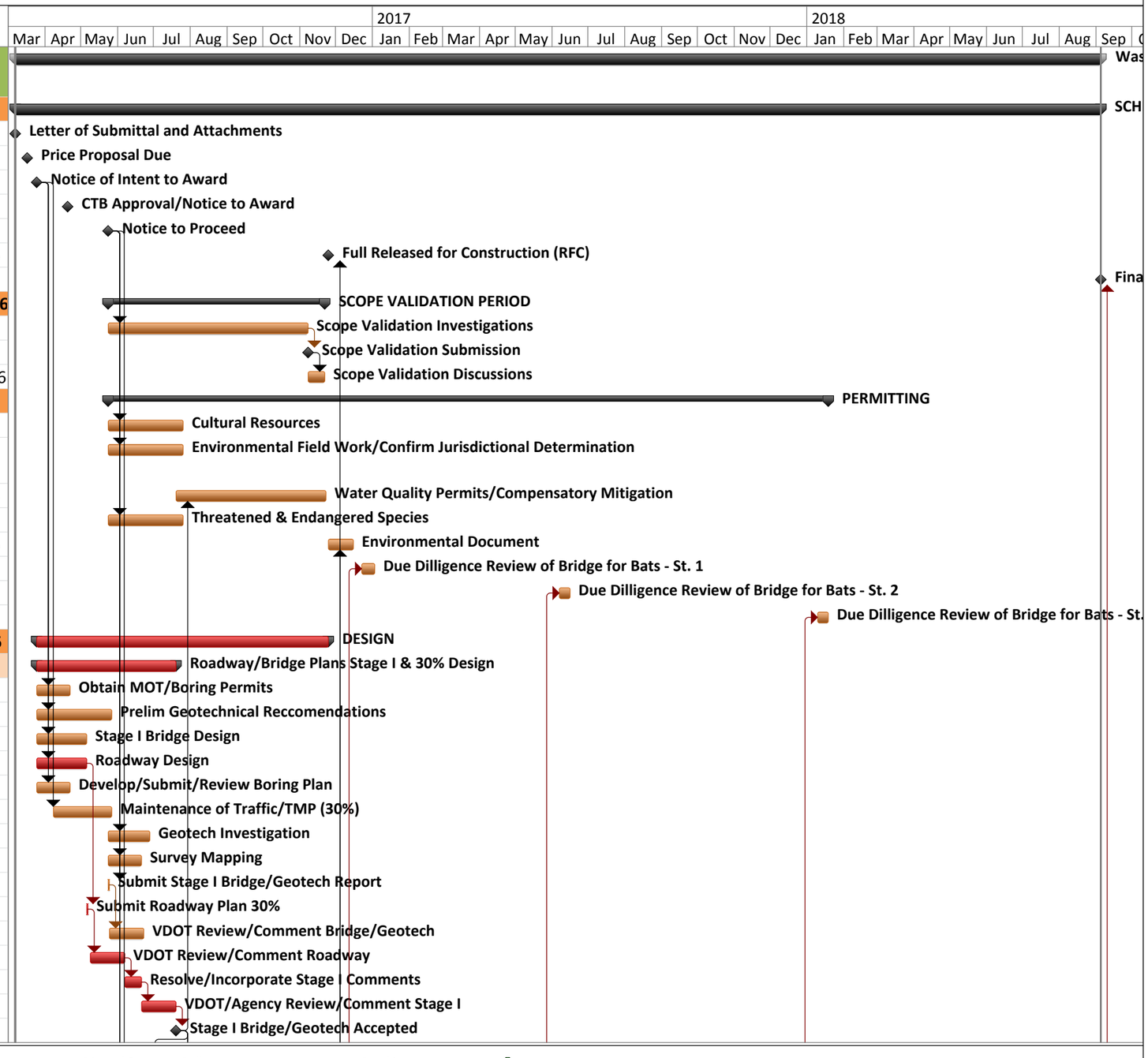
Proposal Schedule

In association with:

Blythe Development Co. - Proposal Schedule

Washington County - I-81 Bridges over Halls Bottom Rd. & Sinking Creek

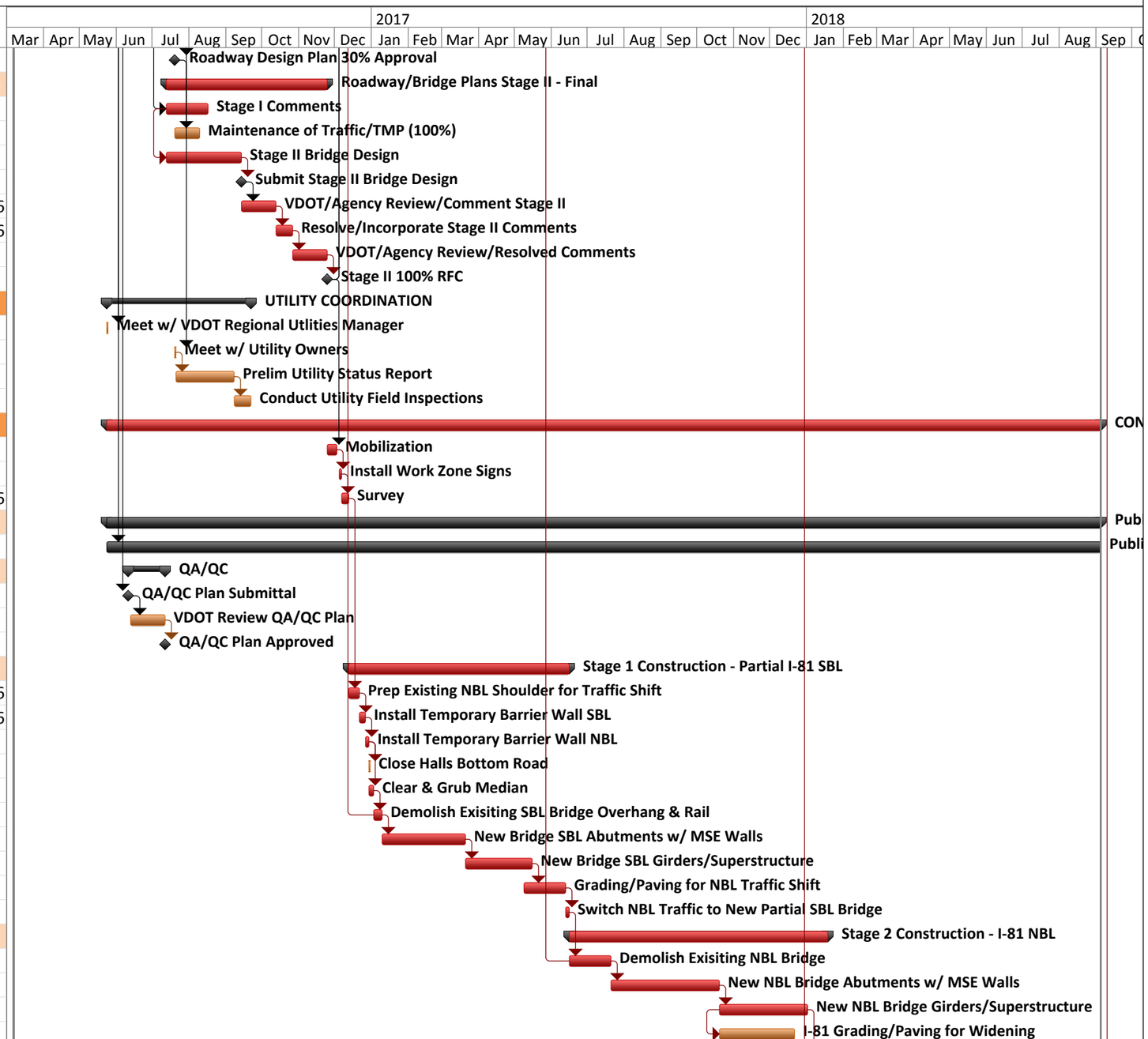
ID	Task Name	Duration	Start	Finish
0	**Washington County - I-81 Bridges over Halls Bottom Rd. & Sinking Creek**	**652 days**	**Mon 3/7/16**	**Tue 9/4/18**
1	**SCHEDULE MILESTONES**	**652 days**	**Mon 3/7/16**	**Tue 9/4/18**
2	Letter of Submittal and Attachments	0 days	Mon 3/7/16	Mon 3/7/16
3	Price Proposal Due	0 days	Thu 3/17/16	Thu 3/17/16
4	Notice of Intent to Award	0 days	Fri 3/25/16	Fri 3/25/16
5	CTB Approval/Notice to Award	0 days	Wed 4/20/16	Wed 4/20/16
6	Notice to Proceed	0 days	Tue 5/24/16	Tue 5/24/16
7	Full Released for Construction (RFC)	0 days	Thu 11/24/16	Thu 11/24/16
8	Final Project Completion	0 days	Tue 9/4/18	Tue 9/4/18
9	**SCOPE VALIDATION PERIOD**	**130 days**	**Tue 5/24/16**	**Mon 11/21/16**
10	Scope Validation Investigations	120 days	Tue 5/24/16	Mon 11/7/16
11	Scope Validation Submission	0 days	Mon 11/7/16	Mon 11/7/16
12	Scope Validation Discussions	10 days	Tue 11/8/16	Mon 11/21/16
13	**PERMITTING**	**433 days**	**Tue 5/24/16**	**Thu 1/18/18**
14	Cultural Resources	45 days	Tue 5/24/16	Mon 7/25/16
15	Environmental Field Work/Confirm Jurisdictional Determination	45 days	Tue 5/24/16	Mon 7/25/16
16	Water Quality Permits/Compensatory Mitigation	90 days	Wed 7/20/16	Tue 11/22/16
17	Threatened & Endangered Species	45 days	Tue 5/24/16	Mon 7/25/16
18	Environmental Document	15 days	Fri 11/25/16	Thu 12/15/16
19	Due Dilligence Review of Bridge for Bats - St. 1	7 days	Fri 12/23/16	Mon 1/2/17
20	Due Dilligence Review of Bridge for Bats - St. 2	7 days	Wed 6/7/17	Thu 6/15/17
21	Due Dilligence Review of Bridge for Bats - St. 3	7 days	Wed 1/10/18	Thu 1/18/18
22	**DESIGN**	**175 days**	**Fri 3/25/16**	**Thu 11/24/16**
23	**Roadway/Bridge Plans Stage I & 30% Design**	**83 days**	**Fri 3/25/16**	**Tue 7/19/16**
24	Obtain MOT/Boring Permits	20 days	Fri 3/25/16	Thu 4/21/16
25	Prelim Geotechnical Reccomendations	45 days	Fri 3/25/16	Thu 5/26/16
26	Stage I Bridge Design	30 days	Fri 3/25/16	Thu 5/5/16
27	Roadway Design	30 days	Fri 3/25/16	Thu 5/5/16
28	Develop/Submit/Review Boring Plan	20 days	Fri 3/25/16	Thu 4/21/16
29	Maintenance of Traffic/TMP (30%)	35 days	Fri 4/8/16	Thu 5/26/16
30	Geotech Investigation	25 days	Tue 5/24/16	Mon 6/27/16
31	Survey Mapping	20 days	Tue 5/24/16	Mon 6/20/16
32	Submit Stage I Bridge/Geotech Report	1 day	Tue 5/24/16	Tue 5/24/16
33	Submit Roadway Plan 30%	1 day	Fri 5/6/16	Fri 5/6/16
34	VDOT Review/Comment Bridge/Geotech	21 days	Wed 5/25/16	Wed 6/22/16
35	VDOT Review/Comment Roadway	21 days	Mon 5/9/16	Mon 6/6/16
36	Resolve/Incorporate Stage I Comments	10 days	Tue 6/7/16	Mon 6/20/16
37	VDOT/Agency Review/Comment Stage I	21 days	Tue 6/21/16	Tue 7/19/16
38	Stage I Bridge/Geotech Accepted	0 days	Tue 7/19/16	Tue 7/19/16



Task	Project Summary	Inactive Milestone	Manual Summary Rollup	Deadline
Split	External Tasks	Inactive Summary	Manual Summary	Critical
Milestone	External Milestone	Manual Task	Start-only	Critical Split
Summary	Inactive Task	Duration-only	Finish-only	Progress

Washington County - I-81 Bridges over Halls Bottom Rd. & Sinking Creek

ID	Task Name	Duration	Start	Finish
39	Roadway Design Plan 30% Approval	0 days	Tue 7/19/16	Tue 7/19/16
40	**Roadway/Bridge Plans Stage II - Final**	**97 days**	**Wed 7/13/16**	**Thu 11/24/16**
41	Stage I Comments	25 days	Wed 7/13/16	Tue 8/16/16
42	Maintenance of Traffic/TMP (100%)	15 days	Wed 7/20/16	Tue 8/9/16
43	Stage II Bridge Design	45 days	Wed 7/13/16	Tue 9/13/16
44	Submit Stage II Bridge Design	0 days	Tue 9/13/16	Tue 9/13/16
45	VDOT/Agency Review/Comment Stage II	21 days	Wed 9/14/16	Wed 10/12/16
46	Resolve/Incorporate Stage II Comments	10 days	Thu 10/13/16	Wed 10/26/16
47	VDOT/Agency Review/Resolved Comments	21 days	Thu 10/27/16	Thu 11/24/16
48	Stage II 100% RFC	0 days	Thu 11/24/16	Thu 11/24/16
49	**UTILITY COORDINATION**	**87 days**	**Tue 5/24/16**	**Wed 9/21/16**
50	Meet w/ VDOT Regional Utlities Manager	1 day	Tue 5/24/16	Tue 5/24/16
51	Meet w/ Utility Owners	1 day	Wed 7/20/16	Wed 7/20/16
52	Prelim Utility Status Report	35 days	Thu 7/21/16	Wed 9/7/16
53	Conduct Utility Field Inspections	10 days	Thu 9/8/16	Wed 9/21/16
54	**CONSTRUCTION**	**596 days**	**Tue 5/24/16**	**Tue 9/4/18**
55	Mobilization	6 days	Fri 11/25/16	Fri 12/2/16
56	Install Work Zone Signs	2 days	Mon 12/5/16	Tue 12/6/16
57	Survey	4 days	Wed 12/7/16	Mon 12/12/16
58	**Public Involvement**	**596 days**	**Tue 5/24/16**	**Tue 9/4/18**
59	Public Relations	596 days	Tue 5/24/16	Tue 9/4/18
60	**QA/QC**	**21 days**	**Fri 6/10/16**	**Mon 7/11/16**
61	QA/QC Plan Submittal	0 days	Fri 6/10/16	Fri 6/10/16
62	VDOT Review QA/QC Plan	21 days	Mon 6/13/16	Mon 7/11/16
63	QA/QC Plan Approved	0 days	Mon 7/11/16	Mon 7/11/16
64	**Stage 1 Construction - Partial I-81 SBL**	**133 days**	**Tue 12/13/16**	**Thu 6/15/17**
65	Prep Existing NBL Shoulder for Traffic Shift	7 days	Tue 12/13/16	Wed 12/21/16
66	Install Temporary Barrier Wall SBL	3 days	Thu 12/22/16	Mon 12/26/16
67	Install Temporary Barrier Wall NBL	3 days	Tue 12/27/16	Thu 12/29/16
68	Close Halls Bottom Road	1 day	Fri 12/30/16	Fri 12/30/16
69	Clear & Grub Median	2 days	Fri 12/30/16	Mon 1/2/17
70	Demolish Exisiting SBL Bridge Overhang & Rail	5 days	Tue 1/3/17	Mon 1/9/17
71	New Bridge SBL Abutments w/ MSE Walls	50 days	Tue 1/10/17	Mon 3/20/17
72	New Bridge SBL Girders/Superstructure	40 days	Tue 3/21/17	Mon 5/15/17
73	Grading/Paving for NBL Traffic Shift	25 days	Tue 5/9/17	Mon 6/12/17
74	Switch NBL Traffic to New Partial SBL Bridge	3 days	Tue 6/13/17	Thu 6/15/17
75	**Stage 2 Construction - I-81 NBL**	**155 days**	**Fri 6/16/17**	**Thu 1/18/18**
76	Demolish Exisiting NBL Bridge	25 days	Fri 6/16/17	Thu 7/20/17
77	New NBL Bridge Abutments w/ MSE Walls	65 days	Fri 7/21/17	Thu 10/19/17
78	New NBL Bridge Girders/Superstructure	52 days	Fri 10/20/17	Mon 1/1/18
79	I-81 Grading/Paving for Widening	45 days	Fri 10/20/17	Thu 12/21/17



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Blythe Development Co. - Proposal Schedule

Washington County - I-81 Bridges over Halls Bottom Rd. & Sinking Creek

ID	Task Name	Duration	Start	Finish
80	Grading/Paving for SBL Traffic Shift	7 days	Tue 1/2/18	Wed 1/10/18
81	Switch NBL Traffic to New NBL Bridge	3 days	Thu 1/11/18	Mon 1/15/18
82	Switch SBL Traffic to New Partial SBL Bridge	3 days	Tue 1/16/18	Thu 1/18/18
83	**Stage 3 Construction - Complete I-81 SBL**	**163 days**	**Fri 1/19/18**	**Tue 9/4/18**
84	Demolish Remaining Existing SBL Bridge	25 days	Fri 1/19/18	Thu 2/22/18
85	New SBL Bridge Abutments w/ MSE Walls	60 days	Fri 2/23/18	Thu 5/17/18
86	New SBL Bridge Girders/Superstructure	48 days	Fri 5/18/18	Tue 7/24/18
87	Grading/Paving for SBL Traffic Shift	3 days	Wed 7/25/18	Fri 7/27/18
88	Remove Temp Barrier Wall and Switch Traffic to New SBL Bridge	5 days	Mon 7/30/18	Fri 8/3/18
89	Guardrail/Shoulders	5 days	Mon 8/6/18	Fri 8/10/18
90	Final Paving and Pavement Markings	10 days	Mon 8/13/18	Fri 8/24/18
91	Punchlist/Clean-up/Demobilization	7 days	Mon 8/27/18	Tue 9/4/18
92	**Project Complete**	**0 days**	**Tue 9/4/18**	**Tue 9/4/18**

Task	Project Summary	Inactive Milestone	Manual Summary Rollup	Deadline
Split	External Tasks	Inactive Summary	Manual Summary	Critical
Milestone	External Milestone	Manual Task	Start-only	Critical Split
Summary	Inactive Task	Duration-only	Finish-only	Progress