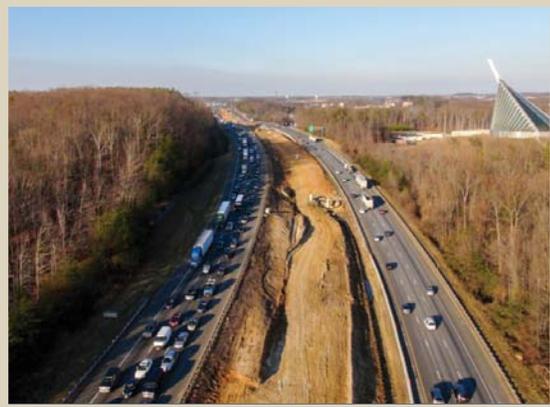


ORIGINAL

April 5, 2016

VOLUME 1:
Letter of Submittal and
Attachments



A Design-Build Project

I-95 Express Lanes –
Southern Terminus
Extension

Stafford County, Virginia

State Project No.: 0095-969-720,
P101, R201, C501

Federal Project No.: STP-000S (321)

Contract ID Number: C00108315DB90

Submitted By:



In Conjunction With:



In Association With:

Chesapeake Electrical Systems, Inc.
H&B Surveying & Mapping, LLC (DBE)
Froehling & Robertson, Inc. (SWaM)
Engineering & Materials Technology, Inc. (DBE)

ATTACHMENT 4.0.1.1

I-95 Express Lanes – Southern Terminus Extension

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

ATTACHMENT 4.0.1.1

I-95 Express Lanes – Southern Terminus Extension

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: Pages 3-11 Vol. 2: Pages 12-57
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: Page 3
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1	Vol. 1: Page 9
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.1	Vol. 1: Pages 3-8
Conceptual Roadway Plans – Plan View	NA	Section 4.2.2	Vol. 2: Page 17-51
Conceptual Roadway Plans – Typical Sections	NA	Section 4.2.2	Vol. 2: Page 13-16
Conceptual Structural Plans – Elevation View	NA	Section 4.2.3	N/A – Per RFP
Conceptual Roadway Plans – Transverse Section	NA	Section 4.2.3	N/A – Per RFP
Conceptual Roadway Plans – Abutment Configuration	NA	Section 4.2.3	N/A – Per RFP
Proposal Schedule	NA	Section 4.2.4	Vol. 1: Pages 10-11 Vol. 2: Pages 52-57
Proposal Schedule	NA	Section 4.2.4.1	Vol. 2: Pages 52-57
Proposal Schedule Narrative	NA	Section 4.2.4.2	Vol. 1: Pages 10-11
Proposal Schedule in electronic format (CD-ROM)	NA	Section 4.2.4	Included with Proposal Package

ATTACHMENT 3.6

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION**

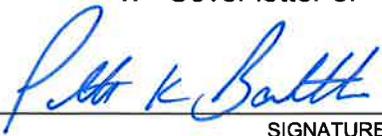
RFP NO. 0095-969-720
PROJECT NO.: C00108315DB90

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

 <hr/> SIGNATURE	4/4/2016 <hr/> DATE
Patrick K. Bartorillo <hr/> PRINTED NAME	President <hr/> TITLE

April 4, 2016

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

Re: Design Build I-95 Express Lanes – Southern Terminus Extension
State Project No.: 0095-969-720
Federal Project No.: STP-000S(321)
Contract ID Number: C00T108315DB90
Section 4.1 Letter of Submittal

Dear Mr. Shah,

Branch Highways, Inc. (BRANCH), as the Offeror, is pleased to submit to the Virginia Department of Transportation (VDOT) this Letter of Submittal and accompanying Attachments in response to the Request for Proposals dated February 29, 2016 for the above-referenced project.

Section 4.1.2 Branch Highways, Inc., if selected, will enter into a contract with VDOT for the Project in accordance with the terms of the RFP.

Section 4.1.3 Pursuant to Part 1, Section 8.2, Branch Highways, Inc. declares that the offer represented by the Proposals will remain in full force and effect for one hundred twenty (120) days after the date of the Letter of Submittal and Attachments are actually submitted to VDOT.

Section 4.1.4 Mr. Pete Kramer will serve as the Point of Contact for Branch Highways, Inc.

Mr. Pete Kramer, Vice President – NOVA Region
Address: 10440 Balls Ford Road, Suite 270, Manassas, VA 20109
Tel: (571) 379-5603
Fax: (571) 379-5896
Email: PeteK@branchhighways.com

Section 4.1.5 Mr. Patrick Bartorillo will serve as the Principal Officer for Branch Highways, Inc.

Mr. Patrick Bartorillo, President
Address: 442 Rutherford Ave, NE, Roanoke, VA 24016
Tel: (540) 982-1678
Fax: (540) 982-4217
Email: Patrick.Bartorillo@branchhighways.com

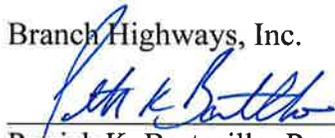
Section 4.1.6 Branch Highways, Inc. proposes an Interim Completion Date of December 1, 2017 and a Final Completion Date of August 22, 2018.

- Section 4.1.7** We have provided an original completed Attachment 9.3.1: Proposal Payment Agreement form as an attachment under the Tab labeled: Attachment 9.3.1: Proposal Payment Agreement Form.
- Section 4.1.8** We have provided original Attachments 11.8.6 (a) & (b) Certification Regarding Debarment Forms as an attachment under the Tab labeled: Attachments 11.8.6 (a) & (b).
- Section 4.1.9** This statement is to declare that Branch Highways, Inc. is committed to achieving or exceeding a fifteen (15%) DBE participation goal for the entire value of the contract.

The Branch Design-Build Team appreciates the opportunity to present this Letter of Submittal and associated attachments and we look forward to your review.

Sincerely,

Branch Highways, Inc.



Patrick K. Bartorillo, President

The organizational chart and Key Personnel proposed in the SOQ remains true and accurate for the Branch Design-Build Team. The following narrative and organizational chart describes the functional relationships of the team members and the clear “chain of command” to the DBPM.

TEAM STRUCTURE

Branch Highways, Inc. (Branch) will be responsible for managing the project in its entirety, supervising the construction, and performing major elements of the construction work. Additional subcontractors for various specialty items such as tolling systems, ITS, signage, guardrail, and pavement striping will be under direct subcontract to Branch. Whitman, Requardt & Associates, LLP (WRA) will lead the design effort for all aspects of the project and will be responsible for the design QA/QC. The Branch | WRA Design-Build Team includes highly qualified subconsultants that bring specific expertise to enhance the Team and ensure a quality project for VDOT. A listing of the Team follows and an organizational chart of the Team is included in at the end of this section.

Branch Highways, Inc. (Branch) – Offeror, Legal Entity, Lead Contractor

Branch is a member of The Branch Group of employee-owned companies, incorporated in 1986. Company headquarters are located in Roanoke, Virginia with a regional office located in the Manassas area of Northern Virginia. Branch is a full service heavy highway contractor with hundreds of successfully delivered projects to numerous public and private clients throughout the Mid-Atlantic region, including completed projects of similar size and scope to the I-95 Express Lanes – Southern Terminus Extension Project. Branch has an impressive record of successful Design-Build/PPTA projects for VDOT and local governments for over \$425 million. Branch has been able to maintain a high level of client satisfaction and is well acquainted with working closely with owners on large and complex projects. *Branch has assigned a Construction Design Coordinator (CDC) that greatly enhances the project structure of the Team by providing additional engineering oversight; similar to the role of Responsible Charge Engineer on other Design-Build projects.*

Whitman, Requardt & Associates, LLP (WRA) – Lead Designer

WRA is a full service architectural and engineering firm that was founded over 100 years ago primarily serving state and local governments in the Mid-Atlantic region. WRA will serve as the Lead Designer for this project and will be responsible for the design QA/QC. In the last three years, WRA has worked on seven Design-Build projects in Virginia and is a Design-Build leader in the Mid-Atlantic region working on over 50 Design-Build projects for Federal, State, and Local government entities as well as private Design-Build projects.

Branch and WRA worked together on three Design-Build/PPTA projects over the last three years, which are listed below:

- *George Mason University (GMU) Campus Connector Design-Build (\$13 million)* – Branch was the Lead Contractor for this project. WRA designed the Route 123 improvements, geotechnical engineering and provided QAM services for all construction in VDOT right-of-way.
- *Route 636 Extension over CSXT Augusta County PPTA (\$14 million)* – WRA designed the Route 636 Bridge over CSXT, geotechnical engineering and provided QAM services for this Branch project.
- *Greenview Drive Design-Build (\$16 million)* WRA is providing QAM services for this Branch project.

The combined Design-Build experience above and our common goal to put the quality and schedule of the project first has proven to be successful on our projects and will be for the I-95 Express Lanes projects. *Branch and WRA have worked closely with Transurban on the I-495 and I-95/395 Express Lanes projects and will leverage those professional working relationships for this project.*

Subconsultants

The Branch | WRA Design-Build Team is comprised of highly qualified subconsultants extremely knowledgeable in VDOT policies and procedures and experienced with similar VDOT Design-Build projects. The following subconsultants have been carefully selected based on their relevant past experience and established working history of project success with VDOT, Branch, and/or WRA.

Chesapeake Electrical Systems, Inc. (CES) was founded in 1993 and has grown to become the Mid-Atlantic Region’s electrical contractor of choice working on some of the region’s most recognizable landmarks. They bring significant experience with ITS system construction and integration of dynamic tolling infrastructure through their work on the Elizabeth River Crossing project, the I-495 Express Lanes project and the recently completed I-95 Express Lanes project.

H&B Surveying and Mapping, LLC (H&B) a Virginia-Certified, DBE/WBE (Woman-Owned Business) founded in 2009 will provide Surveying and Subsurface Utility Locating for the Branch Team. H&B has teamed with WRA to provide surveying services on over 75 projects throughout Virginia including VDOT Design-Build projects.

Froehling & Robertson, Inc. (F&R), a SWaM-certified firm founded in 1881, will provide a Quality Assurance Lab for the Branch Team. F&R’s in-house soil, materials, and asphalt laboratories are accredited by AASHTO (AMRL/CCRL), the US Army Corps of Engineers (USACE), and WACEL.

Engineering & Materials Technologies, Inc. (E.M. Tech) is a certified DBE firm and will provide QC Inspectors, Testing and Lab Services for the Branch Team. Their in-house laboratory has been inspected and/or accredited by AASHTO Materials Reference Laboratory (AMRL), the Washington Area Council of Engineering Laboratories (WACEL) and the Cement and Concrete Reference Laboratory (CCRL).

3.3.1 KEY PERSONNEL

Key personnel Resume Forms were included in Attachment 3.3.1 located in Appendix C of the SOQ. A summary of key personnel is described below, and more detailed project experience for each are listed on the Resume Forms.

Design-Build Project Manager: Pete Kramer (Branch – 34 years of experience)

Pete Kramer (DBPM) has 34 years of overall experience in the heavy civil/construction industry, 19 of which have been with Branch. He has served as DBPM on numerous high-profile projects in Virginia, including the Prince William County Route 15 PPTA Project (\$52M), 2008 Stafford County Transportation Bond Referendum Projects PPTA/Design-Build (\$20M), and recently completed Prince William County Parkway Improvements project (\$14M). He has been responsible for successful management of overall project design, construction, planning, scheduling, quality, safety, overall contract administration, and procurement of proper resources on projects to which he has been assigned. His responsibilities will be the same for this project. Pete will be the primary point of contact for VDOT and any other stakeholders in the project, and will coordinate all aspects of the project and ensure that appropriate and consistent communication is maintained between all parties. He will be responsible for meeting obligations and avoidance/resolution of disputes per the Contract. The Design Manager, Construction Design Coordinator, Construction Manager, Safety Manager and the PR Manager will all report directly to Pete Kramer.

Quality Assurance Manager: Lenny Coleman, P.E., CCM, LEED AP (WRA – 11 years of experience)

Lenny Coleman (QAM) will report directly to the DBPM and will have direct, independent access to VDOT. He served in a similar role as Assistant QAM on the Fairfax County Parkway Interchange and

Widening Design-Build and held the role of QC Manager on the Fall Hill Avenue Widening & Mary Washington Boulevard Extension VDOT Design-Build project in Fredericksburg, VA, and the Walney Road Widening Design Build Project in Fairfax, VA. Lenny’s experience includes QA level oversight as Prince William County’s Construction Manager for Capital Improvement Program managing projects similar to the I-95 Express Lanes Southern Terminus Extension such as the Route 1 North Improvements PPTA project. Lenny will be responsible for the Quality Assurance program and will coordinate with VDOT, supervise project QA inspection staff, and coordinate with the QA Testing firm, F&R. He will ensure conformance with the Contract Documents including the “approved for construction” plans and specifications. Lenny will have overall responsibility for the development of and adherence to the Design-Build QA/QC Plan including coordination with the *Design QA/QC Manager, Mike Russell, P.E.* Lenny will report to the DBPM and he will function independently from the Construction QC Manager, auditing and monitoring Branch’s Quality Control Program. He will have the authority to stop construction activities to ensure compliance with the specifications and issue Non-Compliance Reports (NCRs) if necessary. In addition, Lenny will submit monthly written reports on the status of the QA Program to both VDOT and the Branch Design-Build Team.

Design Manager: John Maddox, P.E. (WRA – 30 years of experience)

John Maddox (DM) will also report directly to the DBPM. John has 30 years of experience designing and managing major transportation projects including over 20 years on VDOT projects. He is currently the Design Manager on VDOT’s Fall Hill Avenue Design-Build project in the City of Fredericksburg and was the Design Manager for the successfully completed VDOT Design-Build Walney Road Bridge Replacement and widening project in Fairfax County. John has also worked with Branch on two Design-Build projects the GMU Campus Connector project (Route 123 Bridge, geotechnical, roadway, drainage) and the Route 636 PPTA project in Augusta, VA (bridge, geotechnical and QAM). He will be responsible for providing a quality product, meeting all design milestones, continual Design-Build Team coordination and ensuring the Design QA/QC Manager’s involvement throughout the design phase. John is responsible for ensuring all design work is performed in accordance with current VDOT Policies, Procedures and Guidelines and the requirements of the VDOT Request for Proposals. He will manage all aspects of design including roadway; hydraulic; ITS, tolling system, traffic engineering; MOT; environmental; and geotechnical. He will assign resources as needed; oversee the design subconsultant for survey; coordinate design and review schedules; develop and implement corrective measures if necessary; and ensure environmental compliance measures are integrated into the design. He will coordinate the design with *CDC, Yieshak Shata* to ensure the timely completion of a quality constructible project. John will maintain 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.

Construction Manager: Steve Morris (Branch – 22 years of experience)

Steve Morris (CM) has over 22 years of industry experience – 15 of which have been with Branch, and has successfully managed over \$100M of Design-Build projects, including Branch’s subcontracted portion of the previous I-95 Express Lanes project. Steve will report to the DBPM and will be assigned solely to this Project for its duration, and will be responsible for planning and execution of both internally performed and subcontracted work activities and ensuring that said activities and associated materials meet contract requirements and “approved for construction” plans and specifications, including Quality Control (QC). He will also be accountable for overall project compliance with ancillary regulations, including, but not limited to, environmental, safety, and MOT. The ITS/Electrical Manager, Construction QC Manager, Grading/Roadway Superintendent, Construction Environmental/MOT Manager, Project Controls Manager and the DBE Compliance Manager will all report directly to Steve Morris.

ITS/Electrical Manager: Kevin Trippe (CES – 18 years of experience)

Kevin Trippe (ITS EM) has worked for Chesapeake Electrical Systems (CES) since his graduation from his IBEW Apprenticeship Program in 2004. Kevin has served as Project Manager for CES for the installation and integration of the ITS systems for I-95 HOT/HOV Express Lanes, the I-495/Capital Beltway Express Lanes, and the I-495/95/395 Roadside Equipment Maintenance contract, which is on-going. Kevin is very familiar with the systems and work that will be required for the I-95 Express Lanes Southern Terminus Extension, and has proven his capabilities in efficiently handling issues related to ITS/Electrical design and its integration into the project as a whole. Kevin will be responsible for supervision of all designs developed by the ITS Design Team and throughout installation to ensure that the work is done on time and in accordance with a QA/QC Plan similar to the I-495 & 95 Express Lanes. The **Master Electrician, Robert Preston** is a Certified Master Electrician and will report directly to Kevin the ITS/Electrical Manager. Kevin will report directly to the **CM, Steve Morris** and will have a lead role in the ITS Integration Team.

3.3.2 ORGANIZATIONAL CHART

The Branch Design-Build Team Organizational Chart on Page 9 identifies key personnel members and depicts the reporting structure of the Team. **Solid lines** identify the direct lines of reporting relationships of our Team members from the DBPM to the Design, Construction and QA leads. **Dashed lines** represent indirect reporting relationships and obligations to the DBPM and the team members. Furthermore, the reporting structure shows a clear separation between the Construction Quality Control duties and the Quality Assurance duties. Each function will have independent materials testing laboratory services. *To further enhance our Team structure and to ensure successful integration with the existing tolling system, specific team members will serve on our ITS Integration Team and are highlighted on the organizational chart.*

As a continuation of the functional relationships for Key Personnel described above, the following narrative further defines the roles and functional relationships of the additional team members.

Safety Manager: Danny Minnix (Branch – 20 years of experience)

Danny Minnix will report to the DBPM and has held the position of Director of Safety and Risk at Branch for well over a decade, and has 20+ years of experience overall with large-scale heavy civil safety program development and management.

Construction Design Coordinator: Yisehak Shata, P.E. (Branch – 15 years of experience)

Yisehak Shata, P.E. (CDC) has 15 years of overall experience in the heavy civil construction industry, 11 of which have been with Branch, and extensive Design-Build project management experience, including the I-95/395 HOT/HOV/Bus Lanes PPTA project (\$47M), Heritage Center Parkway D-B (PWC) (\$6M), Route 15 Improvements Design-Build/PPTA (PWC) (\$52M), and 2008 Stafford County Transportation Bond Referendum Projects Design-Build/PPTA (\$20M). Yisehak has acted as DBPM on nearly \$30M of Design-Build projects, where he was responsible for monitoring the design process for constructability and efficiency. Yisehak is able and qualified to make appropriate directives/decisions regarding design modifications when they arise, and is well versed in the process of managing the design-construction process that is exclusive to Design-Build projects. Yisehak will report to the DBPM, and he will work seamlessly with, and assist in directing, the DM, CM, QAM, and VDOT by maintaining and facilitating constant lines of communication.

Design

Roadway Engineer: Mark Vasco, P.E. will report to the DM and lead the roadway design efforts for the project. Mark has more than 32 years of experience in the design of transportation projects. Mark recently served as the lead designer of the Fairfax County Parkway Interchange at Fair Lakes Parkway in Fairfax County Virginia and the GMU Campus Drive Connector Design-Build with Branch Highways.

Geotechnical Engineer: *Jeff Basford, P.E.* has over 15 years of experience in subsurface explorations, geotechnical analysis, design of pavement sections and shallow and deep foundations, slope stability analysis, concrete and geosynthetic reinforced earth retaining structures, and in-situ testing and verification during construction. He has provided geotechnical expertise on Design-Build projects for WRA in Virginia and Maryland including the Route 636 Extension and the GMU Campus Connector with Branch Highways. Jeff will report to the DM and collaborate extensively with the CM and CDC.

ITS & Lighting Design: *Jeff Cheng, P.E.* will lead the ITS & Lighting Design. He has 11 years of experience and recently led the ITS & Lighting Design for the I-95 Newark Toll Plaza in Delaware for DelDOT. He has extensive experience on VDOT projects including the preliminary plans for the I-495 Shoulder Use project ITS and the Fairfax County Parkway Interchange at Fair Lakes Parkway project. Jeff will be supported by *Dave Newberger, P.E., PTOE*, who has extensive experience on the I-495 and I-95 Express Lanes ITS & Lighting systems through his lead role on the GEC contract reviewing the design. Jeff will report directly to the DM, coordinate directly with ITS/Electrical Manager and be a key person on the ITS Integration Team.

MOT/Traffic Engineer: *Dana Trone, P.E., PTOE* has over 19 years of experience in traffic engineering including development of transportation management plans (TMP) and MOT design. Dana has developed several TMPs for construction on interstates in Virginia, and numerous VDOT Design-Build projects. She also prepared the 30% design for the I-495 North Extension Shoulder Use Lane Design-Build project. Dana will report to the DM and collaborate with the *Construction MOT Manager, Anthony Varrati*.

Drainage/Hydraulics Engineer: *David Gertz, P.E.* will report to the DM and lead the design efforts for drainage and SWM. David has over 36 years of experience in roadway drainage design and stormwater management, and has designed numerous projects for VDOT utilizing the new Virginia stormwater regulations that took effect in July 2014. He most recently served as Lead Drainage/Hydraulics Engineer for three VDOT Design-Build projects.

Environmental Permitting: *Taylor Sprenkle, PWD* will report to the DM and secure any environmental permit modifications that may be needed for the project. Taylor has over 12 years of experience with environmental reviews and permitting required for transportation projects and will work closely with the *Construction Environmental Manager, Anthony Varrati*, to ensure all permit requirements are fulfilled.

Utility Coordination Engineer: *Paul Martin* has over 27 years of experience in highway and bridge construction including 12 years specializing in utility relocations for VDOT. Paul will report to the DM and will interact closely with the CM.

Erosion and Sediment Control Reviewer: *Glenn Wilson* has 18 years of experience in E&S Control design services for transportation projects. He is a certified DCR Combined Administrator (Certificate #684). Glenn will report to the DM and collaborate with the *Construction Environmental Manager, Anthony Varrati*.

Soundwall Design: *Kenneth Bauer, P.E.* will report to the DM and has 17 years of experience performing noise analyses and preparing soundwall designs including VDOT Design-Build projects such as Fall Hill Avenue and Route 7 over the Dulles Toll Road.

Design QA/QC

Design QA/QC Manager, *Mike Russell, P.E.* has over 26 years of progressive experience in the transportation industry including 14 years with VDOT most recently as Bristol District Engineer. He will report to the DM and will ensure compliance with the project’s QA/QC Plan. Mike has served as WRA’s PM on the Berkmar Drive Extension Design-Build project in Albemarle County. He also served as VDOT’s PE Manager for the Route 58 Hillsville Bypass PPTA project constructed by Branch.

Construction QC

Construction QC Manager: *Tom Franzino* has 5 years of industry experience, 2 of which have been with Branch. Tom will report directly to the Construction Manager and will be responsible for managing all QC work for Branch, including coordinating the EM Tech’s QC inspection staff and testing lab. Tom is extensively knowledgeable in all of VDOT Construction requirements, specifications, and testing methods and will coordinate with the QAM and the DBPM on the QC components of the project.

Construction

Master Electrician: *Robert Preston* is a Master Electrician licensed by the Virginia Department of Professional and Occupational Regulation Board for Contractors and Tradesmen with 39 years of experience performing and supervising ITS & electrical work. A relevant recent project is the I-95 HOT/HOV Express Lanes, I-495 Express Lanes. Robert will report directly to ***Kevin Trippe, the ITS/Electrical Manager***. He will be responsible for supervision and coordination of fiber, power, wiring, splicing, ITS and other associated device installation, inspection and testing. Robert is 30-Hour OSHA certified, which included Arc Flash Protection training, and has completed separate Lockout/Tagout training.

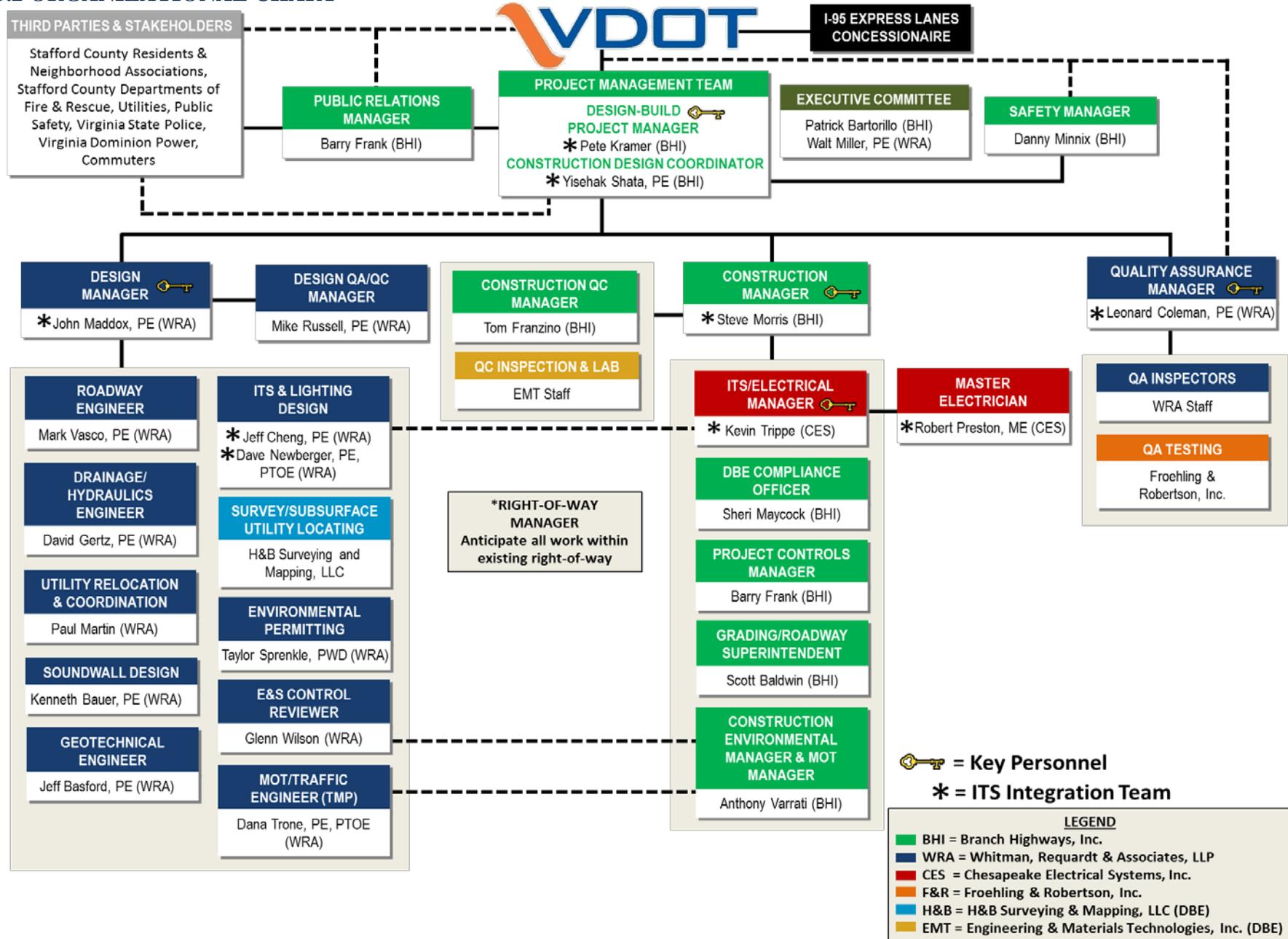
DBE Compliance Officer: *Sheri Maycock* has been with Branch for 24 years and will report to the DBPM. She currently serves as the DBE/EEO Compliance Officer for Branch and will oversees day to day DBE compliance for the project.

Project Controls and PR Manager: *Barry Frank* will report to the DBPM and has 5 years of industry experience, all with Branch.

Grading/Roadway Superintendent: *Scott Baldwin* has 29 years of heavy civil construction experience in the role of superintendent and will report to the CM. He has worked in the capacity of grading/roadway superintendent on numerous large-scale, high-profile interstate projects, including Phases 2-4 of the I-95/I-495/I-395 Springfield Interchange and the Seminary Road Widening.

Construction Environmental and Construction MOT Manager: *Anthony Varrati* will report to the CM and has 2 years of industry experience in the role of safety/environmental controls, and a B.S. in Safety Management.

3.3.2 ORGANIZATIONAL CHART



SECTION 4.2.4.2: SCHEDULE NARRATIVE

Per Part 1, Section 4.2.4.1 of the RFP, our Team has prepared a CPM proposal schedule that depicts the overall sequencing of the project. Major work items for design, permitting, and construction activities have been identified and included by our Team in the attached schedule, and the Critical Path has been identified based on the milestone dates outlined in the RFP. A summarized version of this schedule has also been included that has been filtered to show only critical items in an effort to illustrate the Critical Path as described herein. We have provided the schedules in Volume 2 located on Pages 52-57 and have also provided electronic copies in both PDF and .XER formats on the CDs included in our Proposal Package. The Branch Team is confident that the schedule we have prepared is both attainable and responsive to the Department's and other Shareholders' requirements.

Overall Plan

We have employed several strategies with regard to up-front design, permitting, and approval tasks to help expedite the start of construction activities onsite. First, we will submit an Advance Work Package in conjunction with 90% plans to expedite commencement of grading and deep drainage installation prior to final plan approval. Project plans will be submitted in packages to accommodate multiple review cycles, if necessary, for certain items of work such as soundwalls and ITS, without affecting grading and surface drainage operations. Twenty-one day turnaround times for concurrent VDOT, FHWA, and Transurban reviews per Exhibit 1 to Part 3, Sections 3.1.2 are included in this schedule. We have anticipated 2 rounds of review for all plan packages submitted, **with the exception of the Advanced Work**. Our schedule reflects that this package will be approved upon initial review. Following Notice to Proceed, a revised VPDES Permit will be obtained based on drainage variations from the RFP drawings, which primarily consists of minor modifications to the BMPs and storm drainage shown on RFP plans.

For both schedule and construction purposes, the site has been divided into 5 main "Areas." Area 1 is from Sta. 2193+00 to Sta. 2244+00, including the Southbound Ramp onto the GP lanes. Area 2 is from Sta. 2244+00 to Sta. 2310+00. Area 3 is milling and overlay of the northernmost portion of the project, Sta. 83+00 to 121+00. Area 4 will be the Northbound on-ramp onto the Express Lanes, Sta. ~3140+00 to 3234+00. Area 5 is the area to the west of I-95 SB GP lanes, which includes Soundwall CNE NN.

We have conservatively assumed that Water Quality Permits will not be obtained until September 30, 2016, and have scheduled subsequent grading activities accordingly. In general, after clearing and Phase 1 E&S Controls are established, work in Areas 1 and 2 will be executed simultaneously. Appropriate resources will be assigned to each Area as needed to meet the Interim Milestone Completion date of December 1, 2017. Earthwork and roadway construction activities in Area 4 will be critical to attaining the Final Completion milestone date of August 22, 2018. Execution of productive earthwork, stone, and asphalt paving activities is typically challenging throughout the winter months. We have addressed this in our schedule by utilizing a winter weather calendar for these activities for the months of December through mid-March. Should actual conditions encountered allow for earthwork and/or asphalt paving operations to take place during this time frame, the progress schedule will be adjusted accordingly.

Critical Path

The schedule we have developed calculates Critical Path based on the Longest Path method, which does not specifically identify activities critical in meeting the Interim Milestone. To more clearly depict the items that are on the Critical Path for the Interim Milestone, we have included a separate schedule layout that depicts only these items. In general, critical items for the Interim Milestone include plan approvals and generator installations for ITS. We have anticipated that energizing the generators will take 14 weeks after installation and inspection.

Up-front critical path activities on this project include revised VPDES permitting and approval of revised drainage/SWM plans from that shown on the RFP drawings. Once these are obtained, the construction critical

path lies in Area 2. Critical activities will be performed in the following order, generally in a Finish-to-Start fashion:

- 1.) MOT/Construction Entrance
- 2.) Clearing
- 3.) Stormwater Management Basin
- 4.) Cut to Fill
- 5.) Surface Drainage
- 6.) Box & Balance (i.e., subgrade preparation)
- 7.) Underdrain Installation
- 8.) Stone Base
- 9.) Permanent Signage
- 10.) Final Dress-Up

The last area of the project that contains critical activities is Area 4, which includes the Northbound ramp onto the proposed Express Lane, as well as significant ITS and Lighting work. In this case as well, the Winter Weather Calendar we have applied to earthwork and stone/asphalt activities has forced these operations onto the critical path. Because ITS Level C testing cannot be performed prior to Intermediate Asphalt placement, Level C testing also falls on the Critical Path. Other ITS/Lighting activities must be coordinated with Cut to Fill as well; therefore, ITS activities are also sensitive to falling on the critical path for this area.

Means and Methods

In general, typical mass excavation and heavy highway construction means and methods will be utilized to execute the work on this project. Mass clearing activities will include tree removal, chipping, and hauling offsite. Mass earthwork will be performed utilizing excavators, off-road trucks, and rollers, with dozer/loader support. Deep drainage pipe will be installed prior to proposed fills to avoid unnecessary excavation/backfill efforts, and surface drainage in areas of proposed cut will not be installed until those cuts have been completed. In order to minimize the effects of traffic on GP lanes on activities involving trucking (including asphalt paving), night work may be performed. Stone base & asphalt placement activities will be performed in compliance with VDOT standards.

Throughout the duration of the project, ITS installation, particularly with regard to conduit, will be coordinated with grading operations to maximize efficiency/minimize overall duration. Conduit installation has Finish-to-Finish ties with Cut to Fill operations to reflect this coordination. Conduit installation will occur at the same time as foundation and sign installation for lighting, signage, and gates.

Generator sites will be graded and installed as early as possible to allow as much time as possible for Dominion Virginia Power to inspect and energize. It has been assumed that once graded and equipment installed, the energizing process will take approximately 16 weeks. While this item does not show as critical on our current schedule, it is close to being so, and the fact that the 16-week assumed duration is ostensibly out of the Design-Builder's control, poses a potential schedule risk.

Within 15 days of Notice to Proceed, our Team will prepare and submit a cost-loaded Preliminary Schedule for all work planned during the first 120 calendar days that identifies work activities, milestones, and critical path. Along with this schedule, a narrative and a preliminary Earned Value Schedule will be prepared and submitted for review. Within 90 days of Notice to Proceed, a Baseline Schedule that conforms to Contract requirements, with accompanying Baseline Schedule Narrative and Baseline Earned Value Schedule. The baseline schedule, narrative, and value schedule will be updated monthly throughout the project.

The CPM schedule is the driving force behind all long-term and short-term planning. Design work and other preconstruction activities will be closely monitored with the schedule. A formal CPM schedule update will be submitted to VDOT monthly and distributed to project stakeholders.

ATTACHMENT 9.3.1
PROPOSAL PAYMENT AGREEMENT

THIS PROPOSAL PAYMENT AGREEMENT (this “Agreement”) is made and entered into as of this 4th day of April, 2016, by and between the Virginia Department of Transportation (“VDOT”), and Branch Highways, Inc. (“Offeror”).

WITNESSETH:

WHEREAS, Offeror is one of the entities who submitted Statements of Qualifications (“SOQs”) pursuant to VDOT’s **January 4, 2016** Request for Qualifications (“RFQ”) and was invited to submit proposals in response to a Request for Proposals (“RFP”) for the **I-5 Express Lanes – Southern Terminus Extension, Project No. 0095-969-720** (“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 **Twenty Five Thousand and 00/100 Dollars (\$ 25,000.00)** ("Proposal Payment"), which payment constitutes payment in full to Offeror for the conveyance of Offeror's Intellectual Property to VDOT in accordance with this Agreement. Payment of the Proposal Payment is conditioned upon: (a) Offeror's Proposal being, in the sole discretion of VDOT, responsive to the RFP; (b) Offeror complying with all other terms and conditions of this Agreement; and (c) either (i) Offeror is not awarded the Design-Build Contract, or (ii) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror.

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

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

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

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

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

9. **Miscellaneous.**

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

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

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

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

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

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

VIRGINIA DEPARTMENT OF TRANSPORTATION

By: _____

Name: _____

Title: _____

BRANCH HIGHWAYS, INC.

By: Patrick H. Bartorillo

Name: Patrick H. Bartorillo

Title: President

ATTACHMENT 11.8.6(a)
CERTIFICATION REGARDING DEBARMENT
PRIMARY COVERED TRANSACTIONS

Project No.: 0095-969-720

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.

	3/24/16	President
Signature	Date	Title

Branch Highways, Inc.
Name of Firm

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

Project No.: 0095-969-720

- 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.

 3/31/16
Signature Date

Senior Vice President
Title

Whitman, Requardt & Associates, LLP
Name of Firm

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

Project No.: 0095-969-720

- 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 3/17/16 Title President

Name of Firm Chesapeake Electrical Systems, Inc.

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

Project No.: 0095-969-720

- 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

Vice President
Title

H&B Surveying and Mapping, LLC
Name of Firm

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

Project No.: 0095-969-720

- 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

3/18/2016

Date

President

Title

Froehling & Robertson, Inc.

Name of Firm

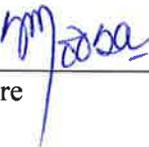
ATTACHMENT 11.8.6(b)
CERTIFICATION REGARDING DEBARMENT
LOWER TIER COVERED TRANSACTIONS

Project No.: 0095-969-720

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

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

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

	<u>3.16.16</u>	<u>Principal Engineer</u>
Signature	Date	Title

Engineering & Materials Technologies, Inc. (E.M. Tech)
Name of Firm



In Conjunction With:



April 5, 2016



ORIGINAL



VOLUME 2: Conceptual Plans and Proposal Schedule

A Design-Build Project

I-95 Express Lanes – Southern Terminus Extension

Stafford County, Virginia

State Project No.: 0095-969-720, P101, R201, C501

Federal Project No.: STP-000S (321)

Contract ID Number: C00108315DB90

Submitted By:



In Conjunction With:



In Association With:

Chesapeake Electrical Systems, Inc.

H&B Surveying & Mapping, LLC (DBE)

Froehling & Robertson, Inc. (SWaM)

Engineering & Materials Technology, Inc. (DBE)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2A - 2C	TYPICAL SECTIONS
2G	GEOTECHNICAL DETAIL
3 - 14	PLAN SHEETS
15(1) - 15(23)	TRAFFIC PLANS



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

DESIGN BUILD PROJECT
95 EXPRESS LANES
SOUTHERN TERMINUS EXTENSION

FHWA-534-DATA-3A101
PPMS NO. _____

STATE	FEDERAL AID PROJECT	ROUTE	STATE PROJECT	SHEET NO.
VA.		95	0095-969-720 <small>(SEE TABULATION BELOW FOR SECTION NUMBERS)</small>	1

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA	
95 EXPRESS LANES - RURAL ROLLING TERRAIN - 70 MPH MIN. DES. SPEED	
FROM: MILE MARKER 142.5 (SOUTH OF GARRISONVILLE ROAD) TO: MILE MARKER 145.0 (NORTH OF GARRISONVILLE ROAD)	
FUNCTIONAL CLASSIFICATION	RURAL PRINCIPAL ARTERIAL
GEOM. DESIGN	GS-1
ADT (Current Year)	0
ADT (Design Year)	20,000
D (%) (design hour)	100%
T (%) (design hour)	0%
V (MPH)	*

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. 108315

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

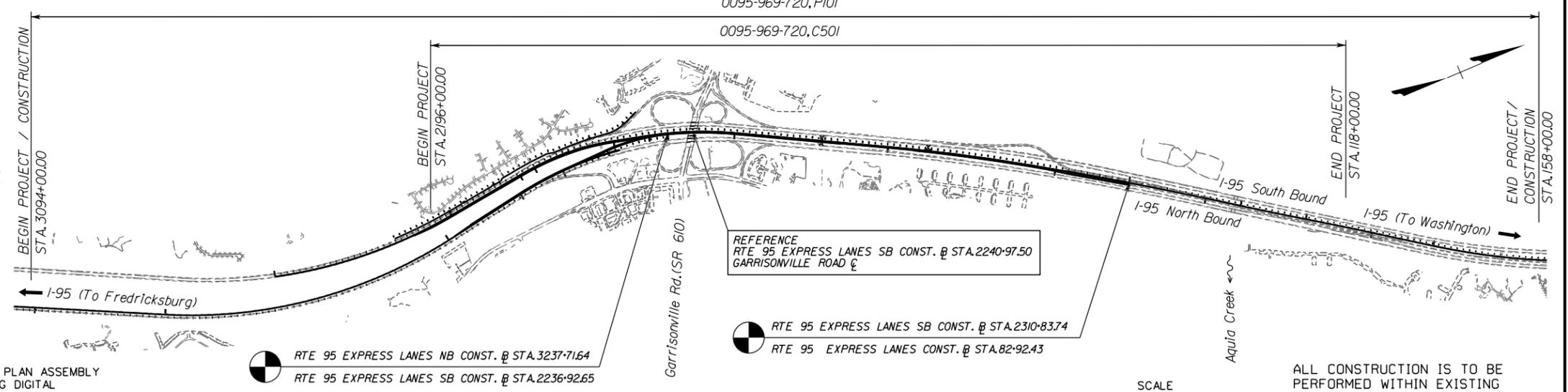
From: MILE MARKER 142.5 (SOUTH OF GARRISONVILLE ROAD)
To: MILE MARKER 145.0 (NORTH OF GARRISONVILLE ROAD)

* SEE PLAN & PROFILE SHEET FOR HORIZONTAL AND VERTICAL CURVE DESIGN SPEEDS.

PROJECT MANAGER: Surti R. Shah
SURVEYED BY: _____
DESIGN SUPERVISED BY: Whitman, Reardon & Associates, LLP
DESIGNED BY: _____

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.

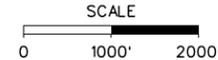
ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11R, EXCEPT WHERE OTHERWISE NOTED.

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.

Population Stafford County 128,961 (2010 Census)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	EQUALITIES		LENGTH INCLUDING BRIDGE(S)		LENGTH EXCLUDING BRIDGE(S)		BRIDGE PLAN NO.	TYPE PROJECT	DESCRIPTION
					FEET	MILES	FEET	MILES	FEET	MILES			
0095-969-720	P101			108315	29341.31	5.557	29341.31	5.557				PREL. ENGR.	From: MILE MARKER 142.5 (S. OF GARRISONVILLE ROAD) To: MILE MARKER 145.0 (N. OF GARRISONVILLE ROAD)
	C501		1000	108315	14991.31	2.839	14991.31	2.839				CONSTR.	

Project Lengths are based on:
 - 95 Express Lanes NB Construction Baseline from Sta. 3094+00.00 to 3197+50.00
 - 95 Express Lanes SB Construction Baseline from Sta. 2196+00.00 to 2310+83.74, and
 - 95 Express Lanes Construction Baseline from Sta. 82+92.43 to 158+00.00



ALL CONSTRUCTION IS TO BE PERFORMED WITHIN EXISTING RIGHT OF WAY.

RECOMMENDED FOR APPROVAL FOR CONSTRUCTION	
DATE	(DESIGN-BUILD FIRM) DESIGN MANAGER
DATE	(DESIGN-BUILD FIRM) PROJECT MANAGER
DATE	VDOT PROJECT MANAGER
DATE	VDOT DISTRICT CONSTRUCTION ENGINEER OR PPTA PROGRAM MANAGER
APPROVED FOR CONSTRUCTION	
DATE	CHIEF ENGINEER

Copyright 2016, Commonwealth of Virginia

PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

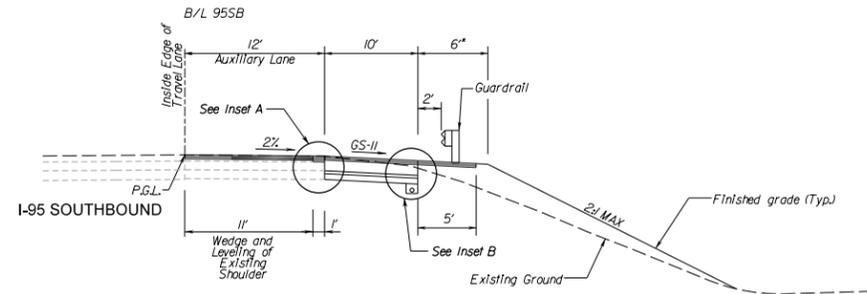
TYPICAL SECTIONS

NOT TO SCALE

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

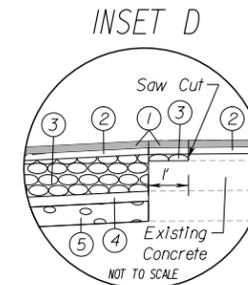
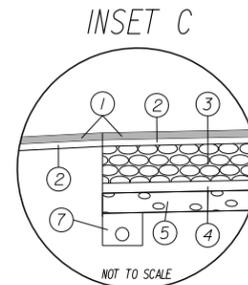
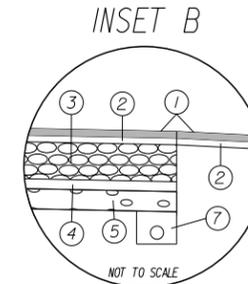
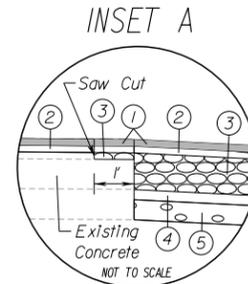
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C50I	2A

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



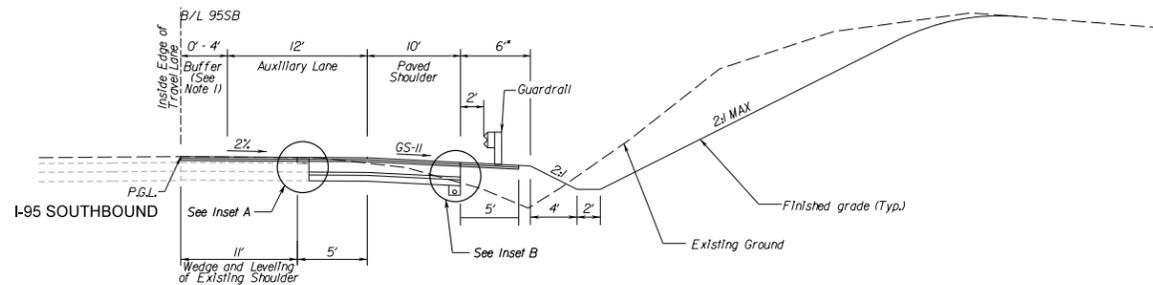
95 EXPRESS LANES RAMP (95SB)
Sta. 2193+00.00 to Sta. 2205+00.00

• Additional shoulder width for gates and lighting installations between guardrail and ditch.



PAVEMENT SECTION NOTES

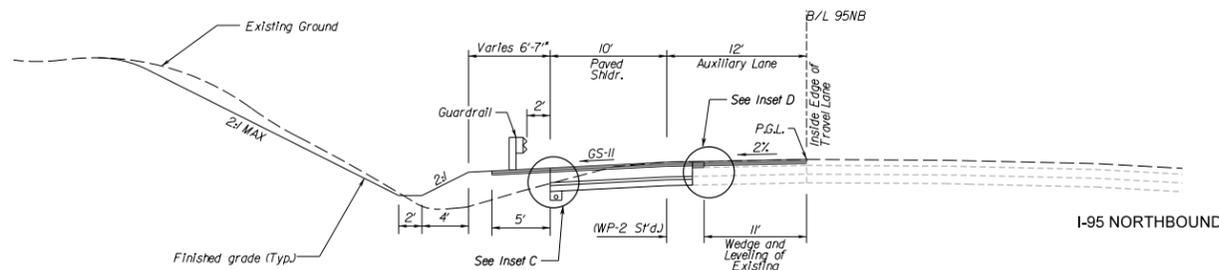
- ① SURFACE - 2" ASPHALT CONCRETE TYPE SM-12.5E
- ② INTERMEDIATE - 2" ASPHALT CONCRETE TYPE IM-19.0A
- ③ BASE - 1" ASPHALT CONCRETE BM-25.0A
- ④ DRAINAGE - 3" STABILIZED OPEN GRADED DRAINAGE LAYER
- ⑤ SUBBASE - 6" CEMENT TREATED AGGREGATE
- ⑥ SUBBASE - 2" AGGREGATE BASE MATERIAL, TYPE 1, SIZE NO. 21B
- ⑦ ST'D UD-4 UNDERDRAIN



95 EXPRESS LANES RAMP (95SB)
Sta. 2205+00.00 to Sta. 2221+12.43

NOTES:

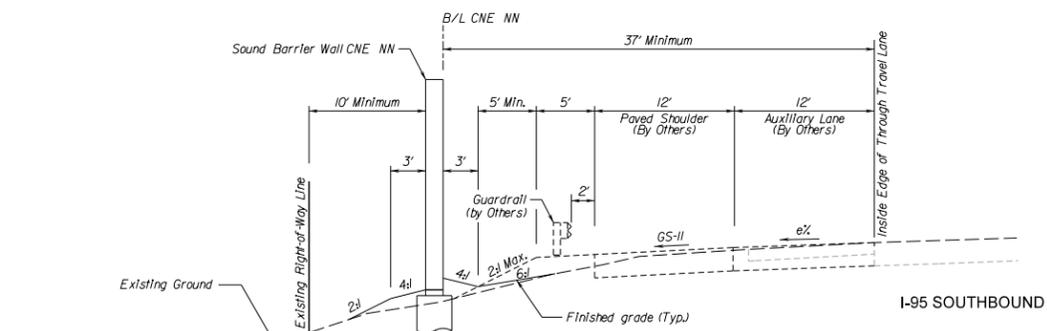
1. Buffer Varies from 0' to 4' from Sta. 2205+00.00 to 2210+00.00.
Buffer is 4' from Sta. 2210+00.00 to 2217+50.00.
Buffer Varies from 4' to 14' from Sta. 2217+50.00 to 2221+12.43.
- Additional shoulder width for gates and lighting installations between guardrail and ditch.



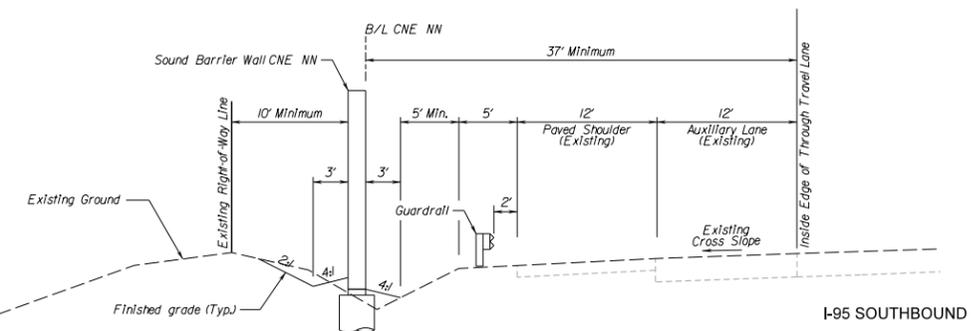
95 EXPRESS LANES RAMP (95NB)
Sta. 3200+00.00 to Sta. 3220+00.00

NOTES:

1. Lane Tapers from 0' to 12' from Sta. 3200+00.00 to 3203+00.00.
Shoulder Varies from 9' to 10' from Sta. 3200+00.00 to 3203+00.00.
2. Graded shoulder on left side 6' from Sta. 3200+00.00 to 3208+00.00 and 7' from Sta. 3208+00.00 to Sta. 3220+00.00.
- Additional shoulder width for gates and lighting installations between guardrail and ditch.



SOUND BARRIER WALL CNE NN
Sta. 4000+00.00 to Sta. 4025+00.00



SOUND BARRIER WALL CNE NN
Sta. 4025+00.00 to Sta. 4043+68.00

PROJECT	SHEET NO.
0095-969-720	2A

PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE _____
DESIGN BY Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE _____

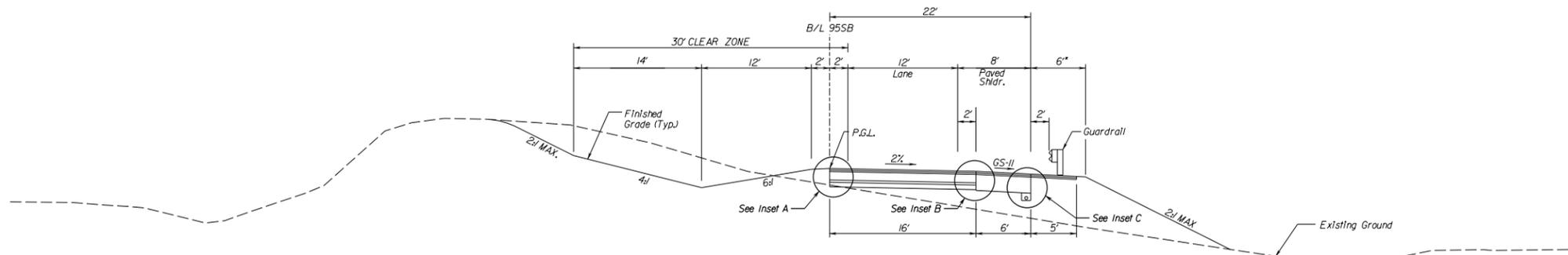
TYPICAL SECTIONS

NOT TO SCALE

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

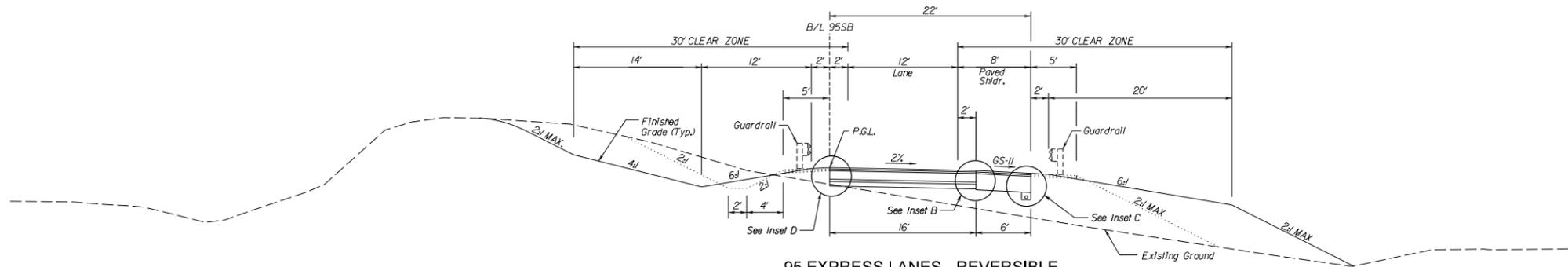
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	2B

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



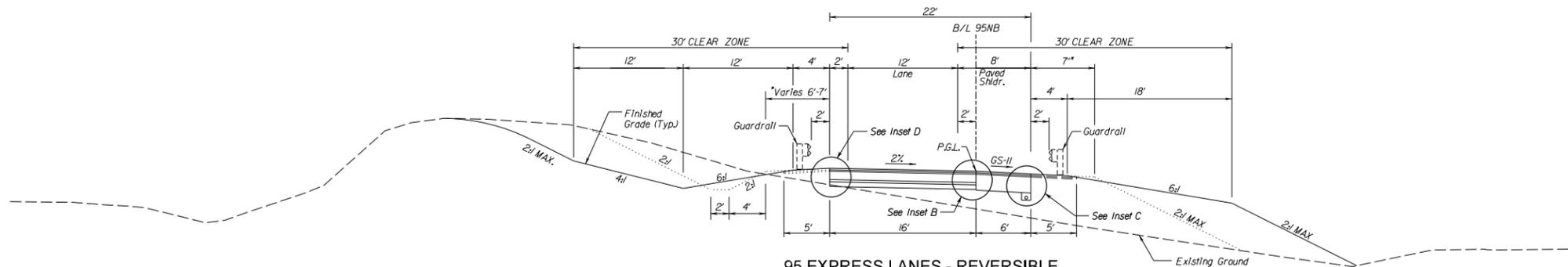
95 EXPRESS LANES - REVERSIBLE
Sta. 2221+12.43 to Sta. 2230+00 (95SB)

* Additional shoulder width for gates and lighting installations between guardrail and ditch.



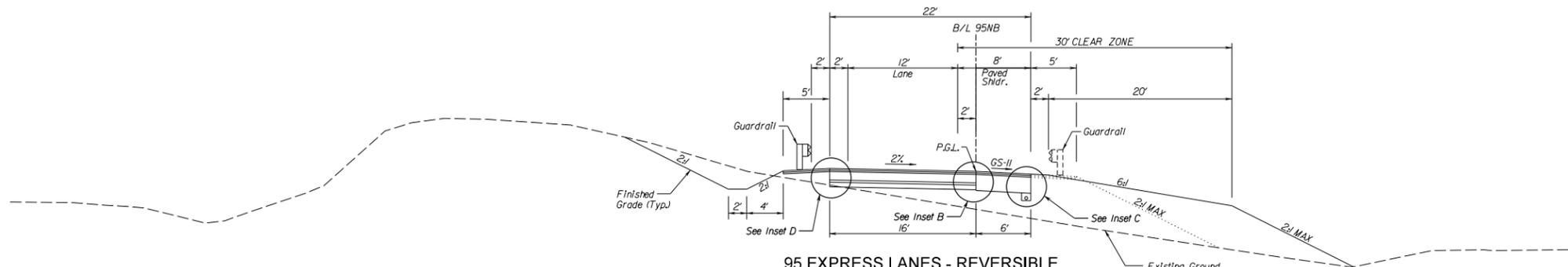
95 EXPRESS LANES - REVERSIBLE
Sta. 2230+00.00 to Sta. 2231+32.76 (95SB)
Sta. 2236+92.65 to Sta. 2302+23.63 (95SB)

NOTES:
1. Lane Varies from 16' to 24' from Sta. 2298+16.34 to 2300+37.76.
Shoulder Varies from 6' to 8' from Sta. 2298+16.34 to 2300+37.76.

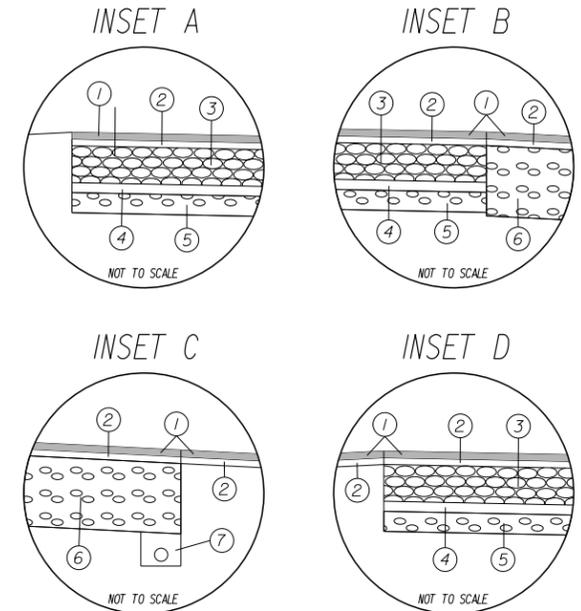


95 EXPRESS LANES - REVERSIBLE
Sta. 3220+00.00 to Sta. 3227+50 (95NB)
Sta. 3229+00.00 to Sta. 3232+14.16 (95NB)

NOTES:
1. Graded shoulder on left side 7' from Sta. 3220+00.00 to 3227+50.00
2. Pavement Tapers from 12' to 16' from Sta. 3220+00.00 to 3225+43.27.00.
* Additional shoulder width for gates and lighting installations between guardrail and ditch.



95 EXPRESS LANES - REVERSIBLE
Sta. 3227+50.00 to Sta. 3229+00.00 (95NB)



PAVEMENT SECTION NOTES

- ① SURFACE- 2" ASPHALT CONCRETE TYPE SM-12.5E
- ② INTERMEDIATE- 2" ASPHALT CONCRETE TYPE IM-19.0A
- ③ BASE - 1" ASPHALT CONCRETE BM-25.0A
- ④ DRAINAGE - 3" STABILIZED OPEN GRADED DRAINAGE LAYER
- ⑤ SUBBASE- 6" CEMENT TREATED AGGREGATE
- ⑥ SUBBASE - 2" AGGREGATE BASE MATERIAL, TYPE 1, SIZE NO. 21B
- ⑦ ST'D UD-4 UNDERDRAIN

PROJECT	SHEET NO.
0095-969-720	2B

PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

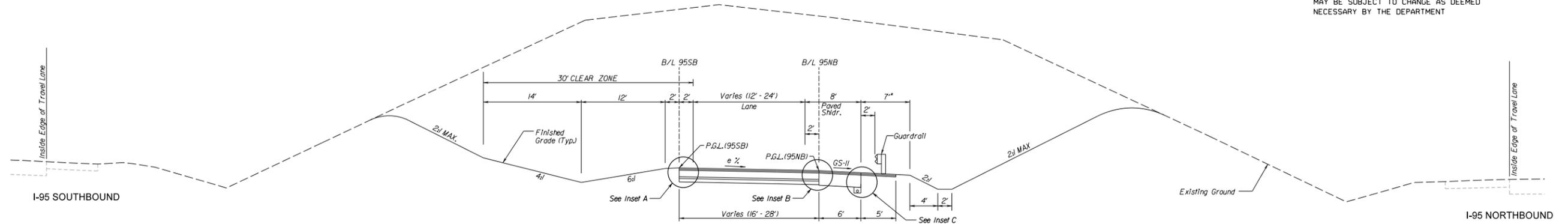
TYPICAL SECTIONS

NOT TO SCALE

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	2C

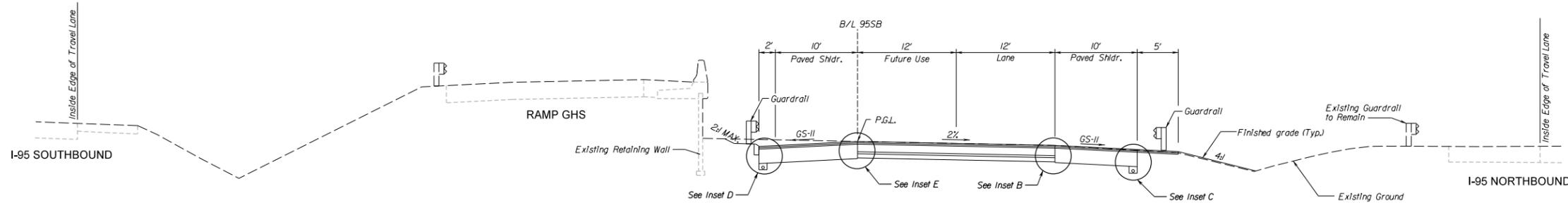
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



95 EXPRESS LANES - REVERSIBLE

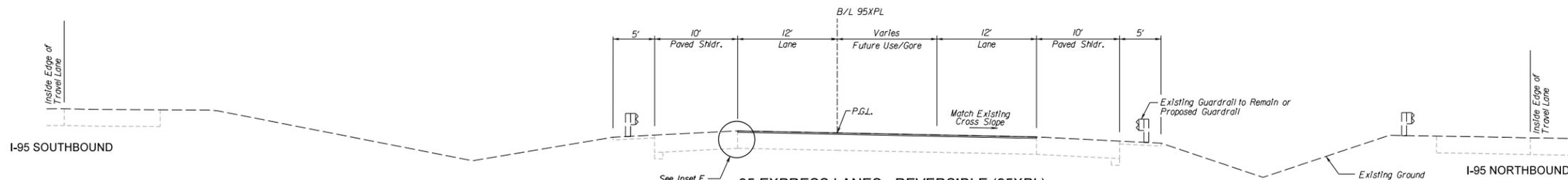
Sta. 2231+32.76 to Sta. 2236+92.65 (95SB)
Sta. 3232+14.16 to Sta. 3237+71.64 (95NB)

* Additional shoulder width for gates and lighting installations between guardrail and ditch.



95 EXPRESS LANES - REVERSIBLE

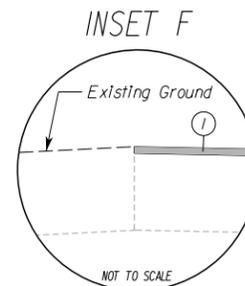
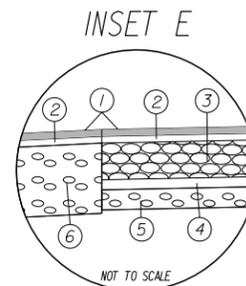
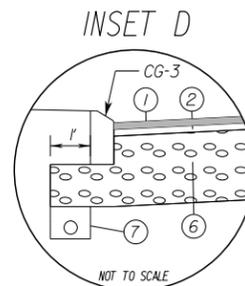
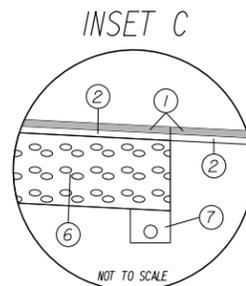
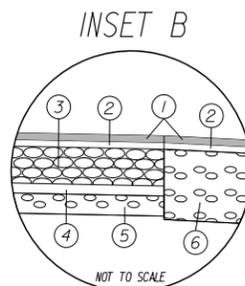
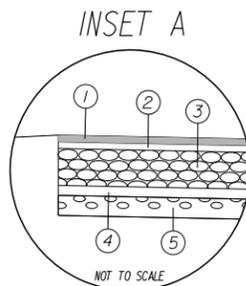
Sta. 2302+23.63 to Sta. 2310+83.74 (95SB)



95 EXPRESS LANES - REVERSIBLE (95XPL)

Sta. 82+92.43 to Sta. 118+00.00 (95XPL)

NOTES:
1. See Plan View for limits of milling of existing 95 Express Lanes.



PAVEMENT SECTION NOTES

- ① SURFACE - 2" ASPHALT CONCRETE TYPE SM-12.5E
- ② INTERMEDIATE - 2" ASPHALT CONCRETE TYPE IM-19.0A
- ③ BASE - 11" ASPHALT CONCRETE BM-25.0A
- ④ DRAINAGE - 3" STABILIZED OPEN GRADED DRAINAGE LAYER
- ⑤ SUBBASE - 6" CEMENT TREATED AGGREGATE
- ⑥ SUBBASE - 2" AGGREGATE BASE MATERIAL, TYPE 1, SIZE NO. 21B
- ⑦ ST'D UD-4 UNDERDRAIN

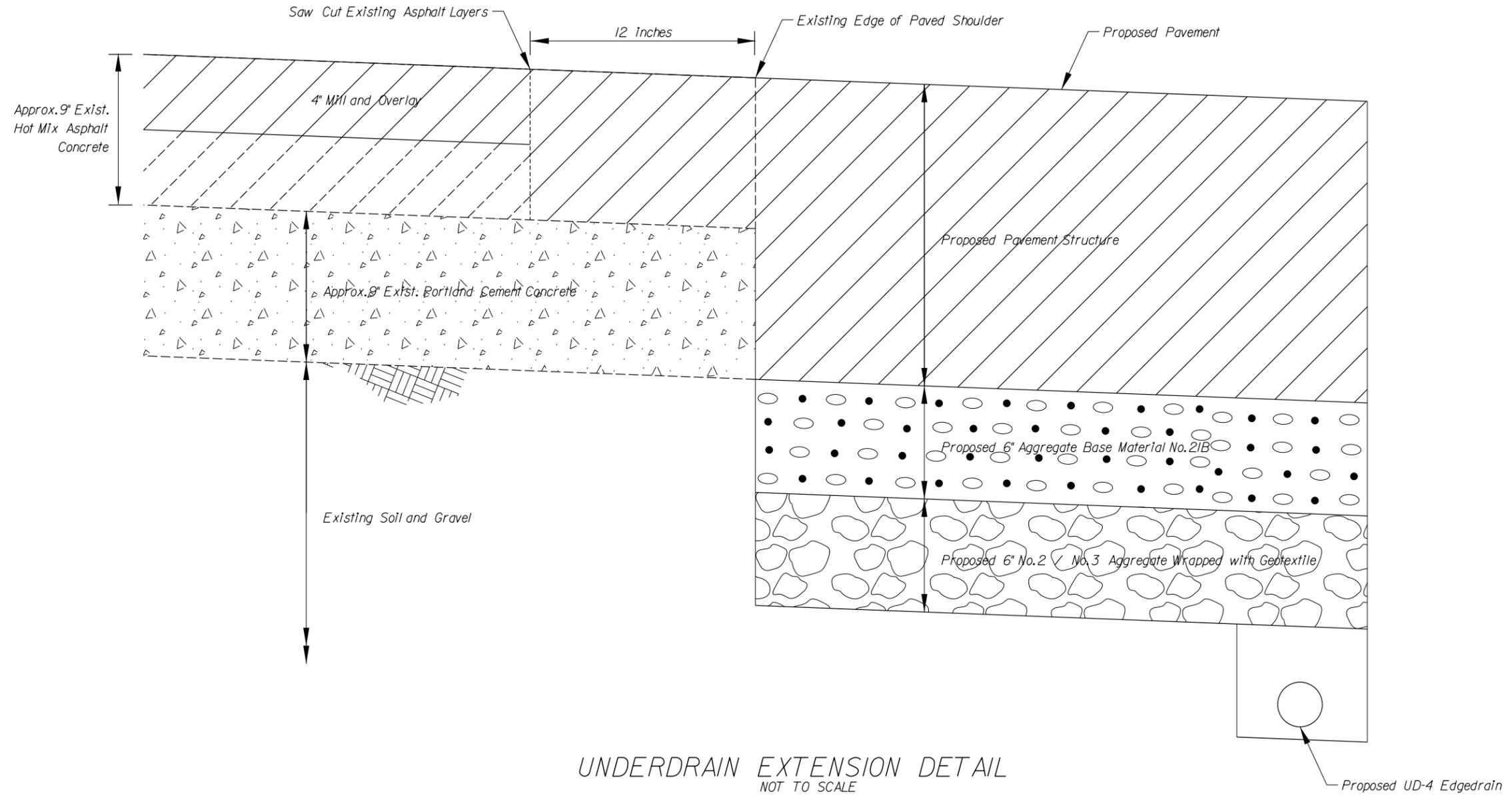
PROJECT	SHEET NO.
0095-969-720	2C

PROJECT MANAGER *Suril B. Shah*
SURVEYED BY, DATE _____
DESIGN BY *Whitman, Bevardt & Associates, LLP*
SUBSURFACE UTILITY BY, DATE _____

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	26

DESIGN FEATURES RELATING TO CONSTRUCTION
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NECESSARY BY THE DEPARTMENT



UNDERDRAIN EXTENSION DETAIL
NOT TO SCALE

4/1/2016

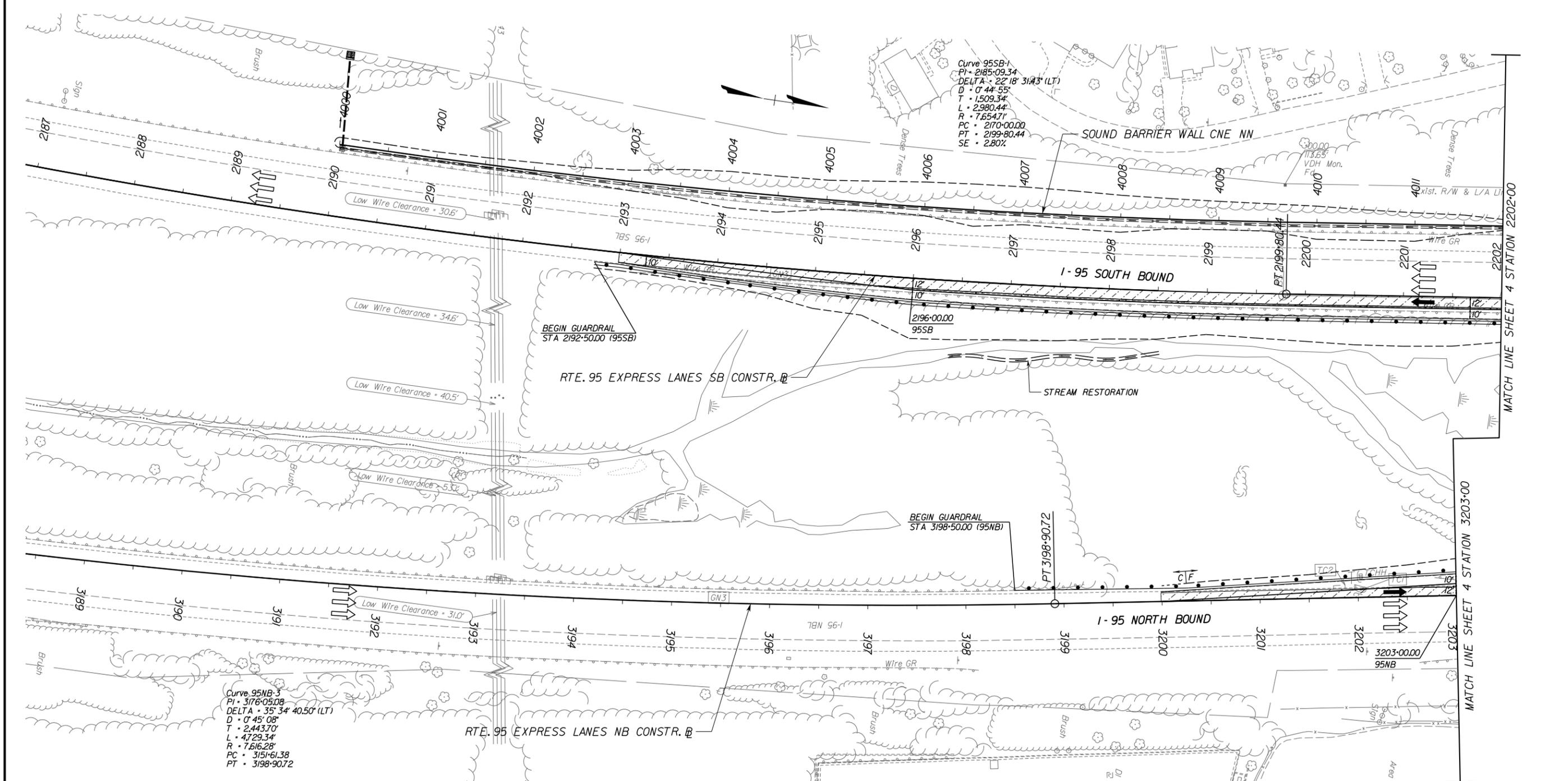
PROJECT	SHEET NO.
0095-969-720	26

PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bevardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	3

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NECESSARY BY THE DEPARTMENT



- LEGEND**
- Denotes Proposed Full Depth Pavement
 - Denotes Proposed Pavement Milling & Overlay
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills



PROJECT	SHEET NO.
0095-969-720	3

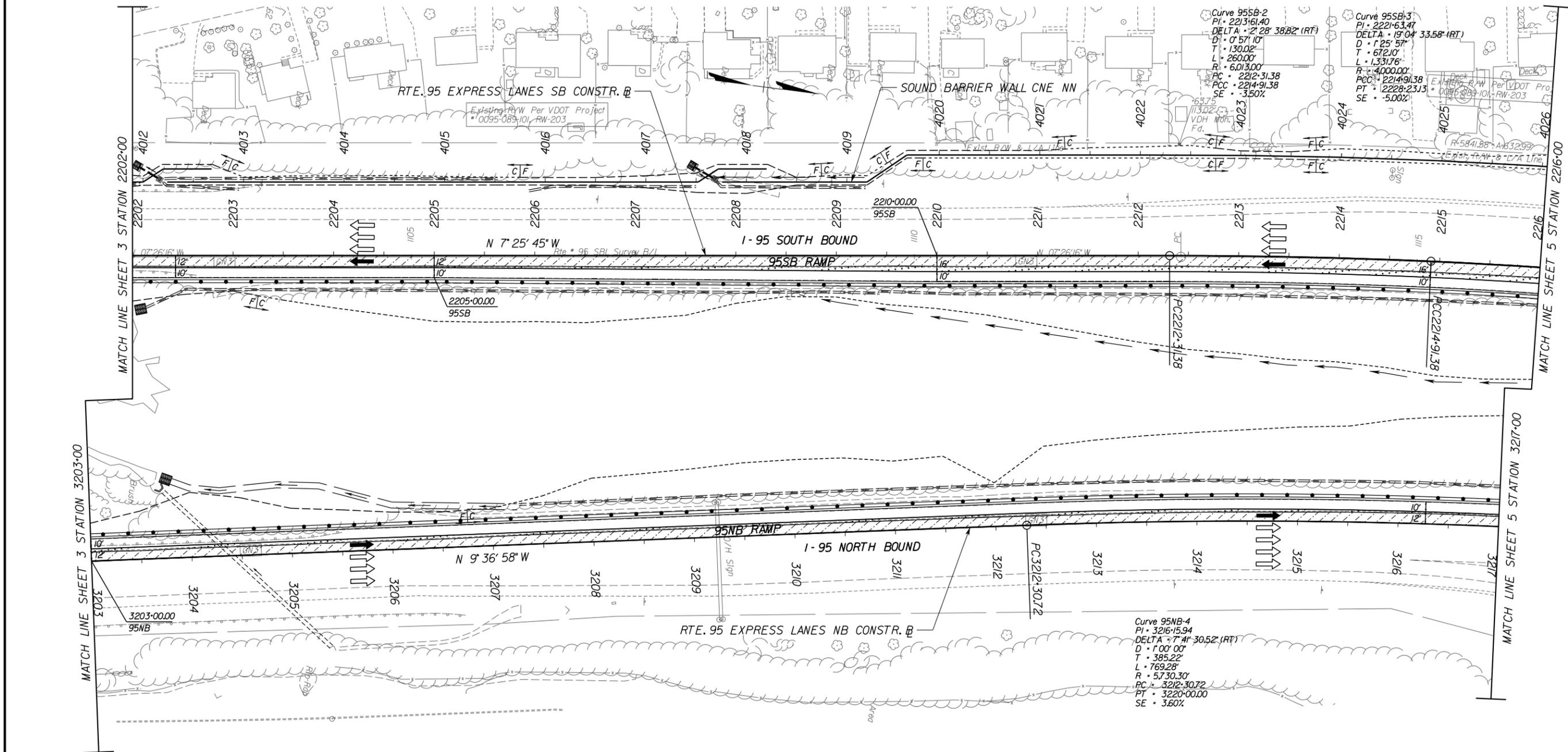
4/1/2016

PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE _____
DESIGN BY Whitman, Bevardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE _____
95

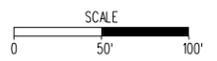
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	4

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



- LEGEND**
- Denotes Proposed Full Depth Pavement
 - Denotes Proposed Pavement Milling & Overlay
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills



PROJECT	SHEET NO.
0095-969-720	4

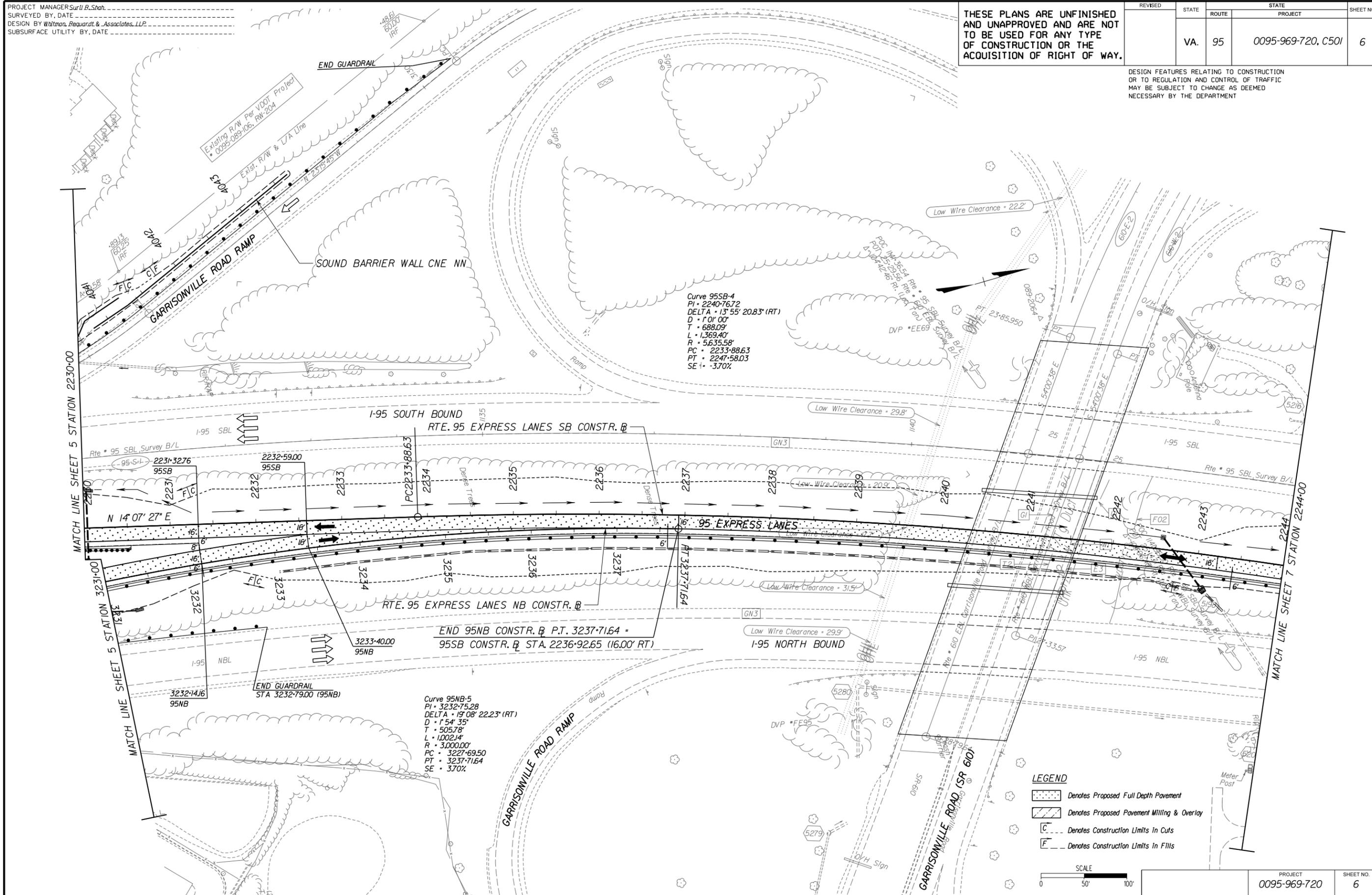
4/1/2016

PROJECT MANAGER Sur U. B. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bevardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	6

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

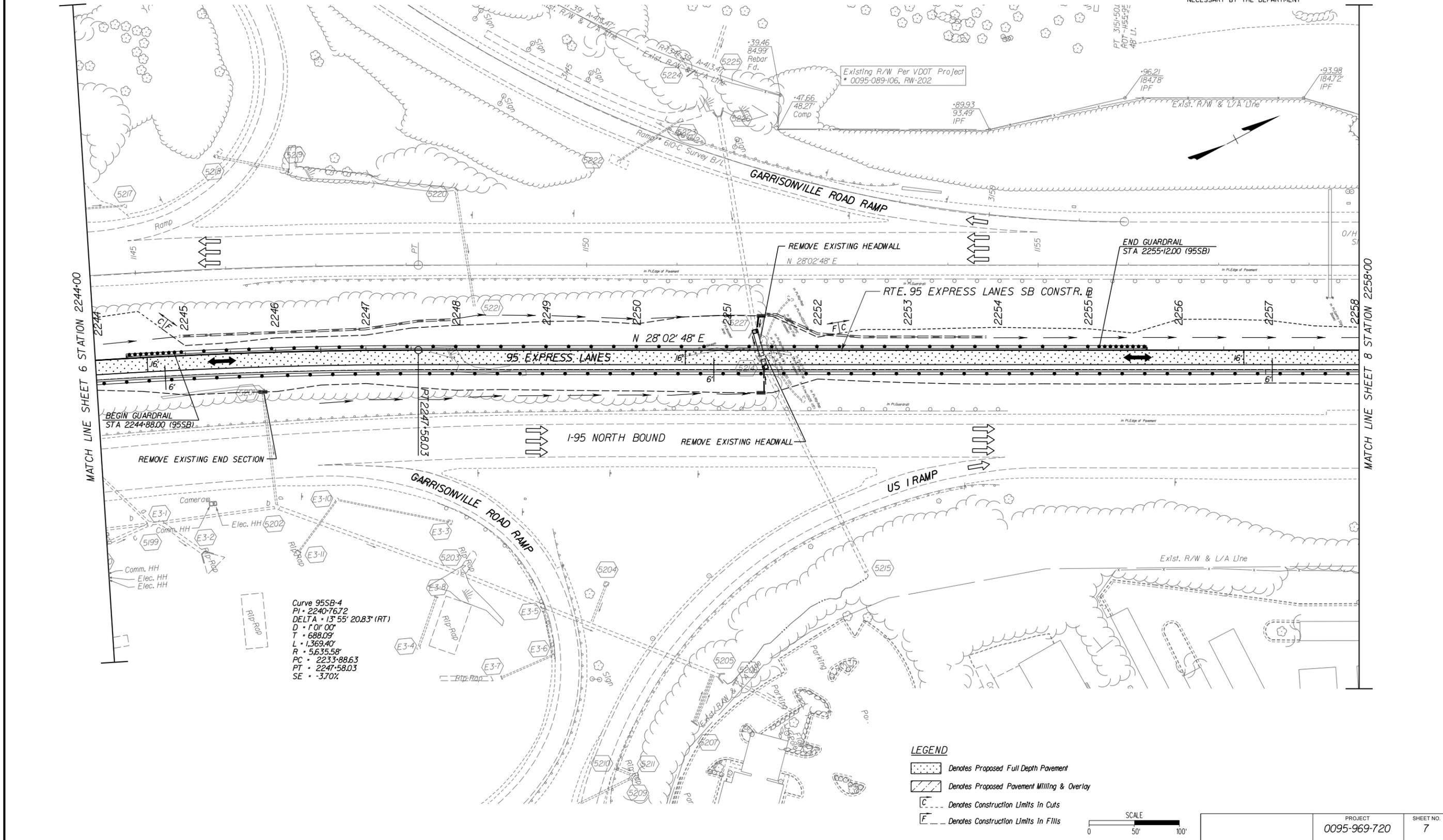


PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bevardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	7

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



Curve 95SB-4
PI • 2240+76.72
DELTA • 13° 55' 20.83" (RT)
D • 1' 01" 00"
T • 688.09'
L • 1369.40'
R • 5635.58'
PC • 2233+88.63
PT • 2247+58.03
SE • -3.70%

- LEGEND**
- Denotes Proposed Full Depth Pavement
 - Denotes Proposed Pavement Milling & Overlay
 - Denotes Construction Limits in Cuts
 - Denotes Construction Limits in Fills



PROJECT	SHEET NO.
0095-969-720	7

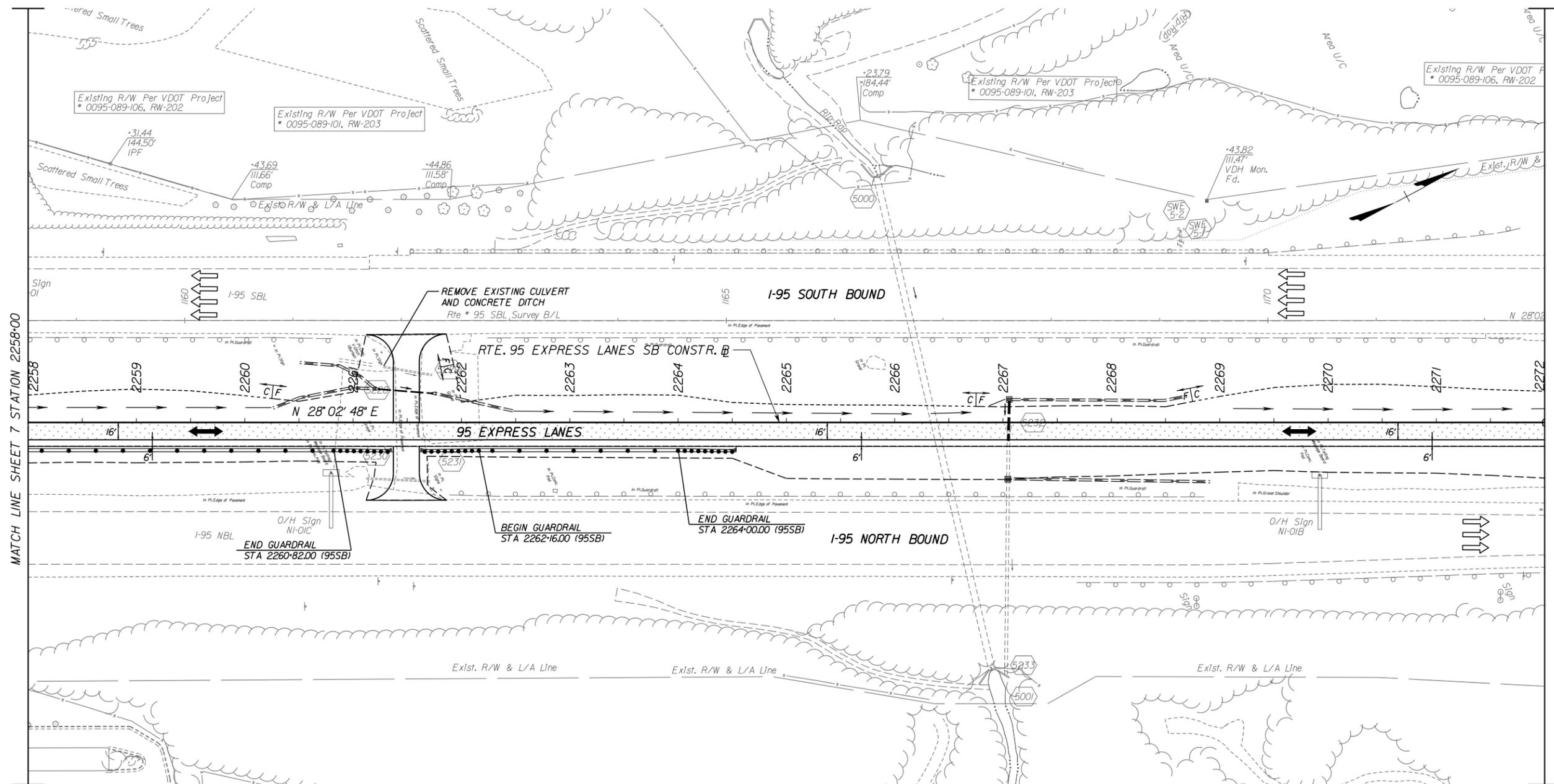
4/1/2016

PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE _____
DESIGN BY Whitman, Bevardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE _____

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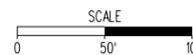
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	8

DESIGN FEATURES RELATING TO CONSTRUCTION
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LEGEND

- Denotes Proposed Full Depth Pavement
- Denotes Proposed Pavement Milling & Overlay
- Denotes Construction Limits In Cuts
- Denotes Construction Limits In Fills



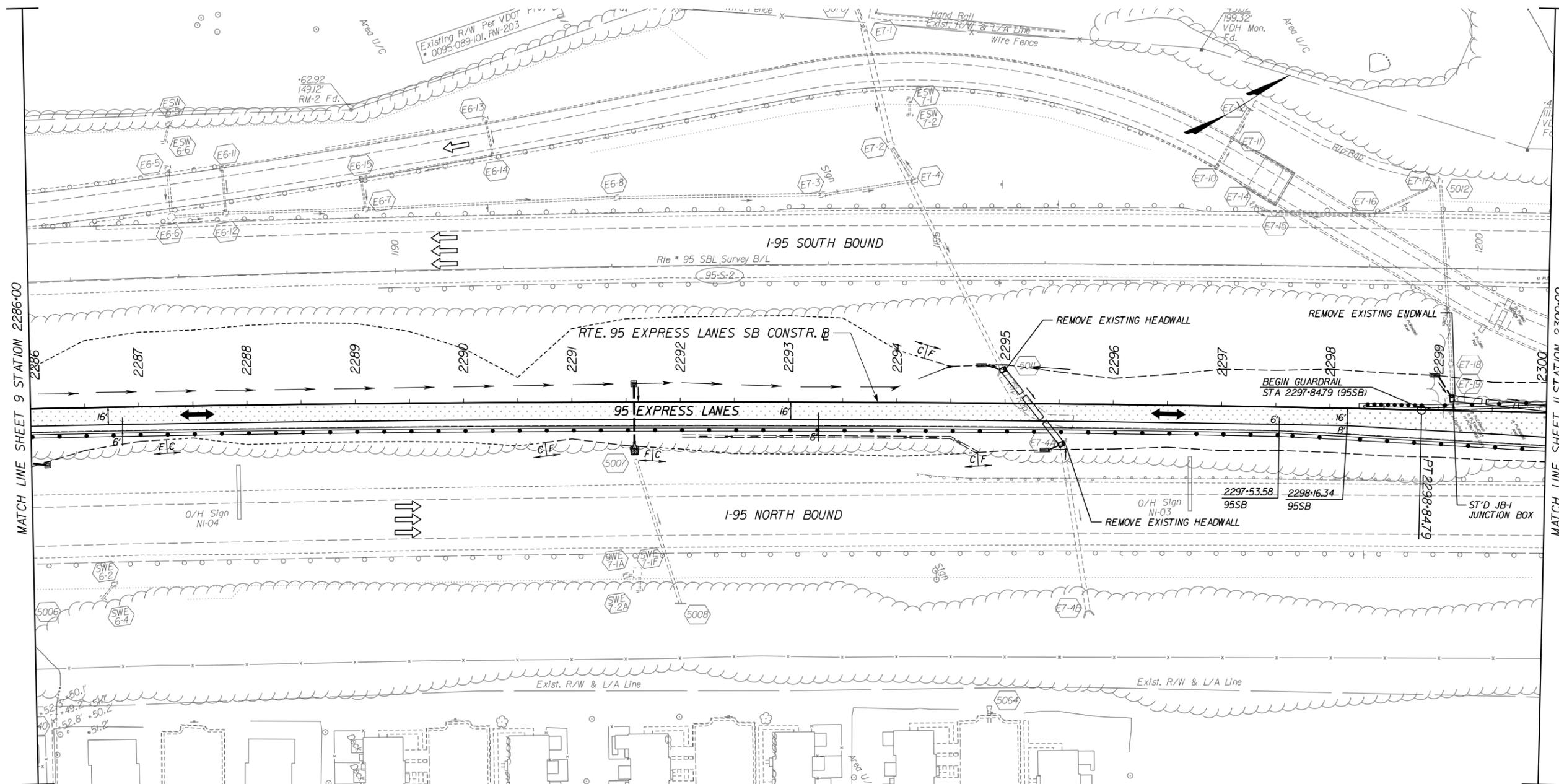
PROJECT	SHEET NO.
0095-969-720	8

PROJECT MANAGER Sur U. B. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bevardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

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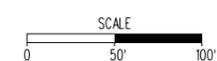
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	10

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LEGEND

- Denotes Proposed Full Depth Pavement
- Denotes Proposed Pavement Milling & Overlay
- Denotes Construction Limits In Cuts
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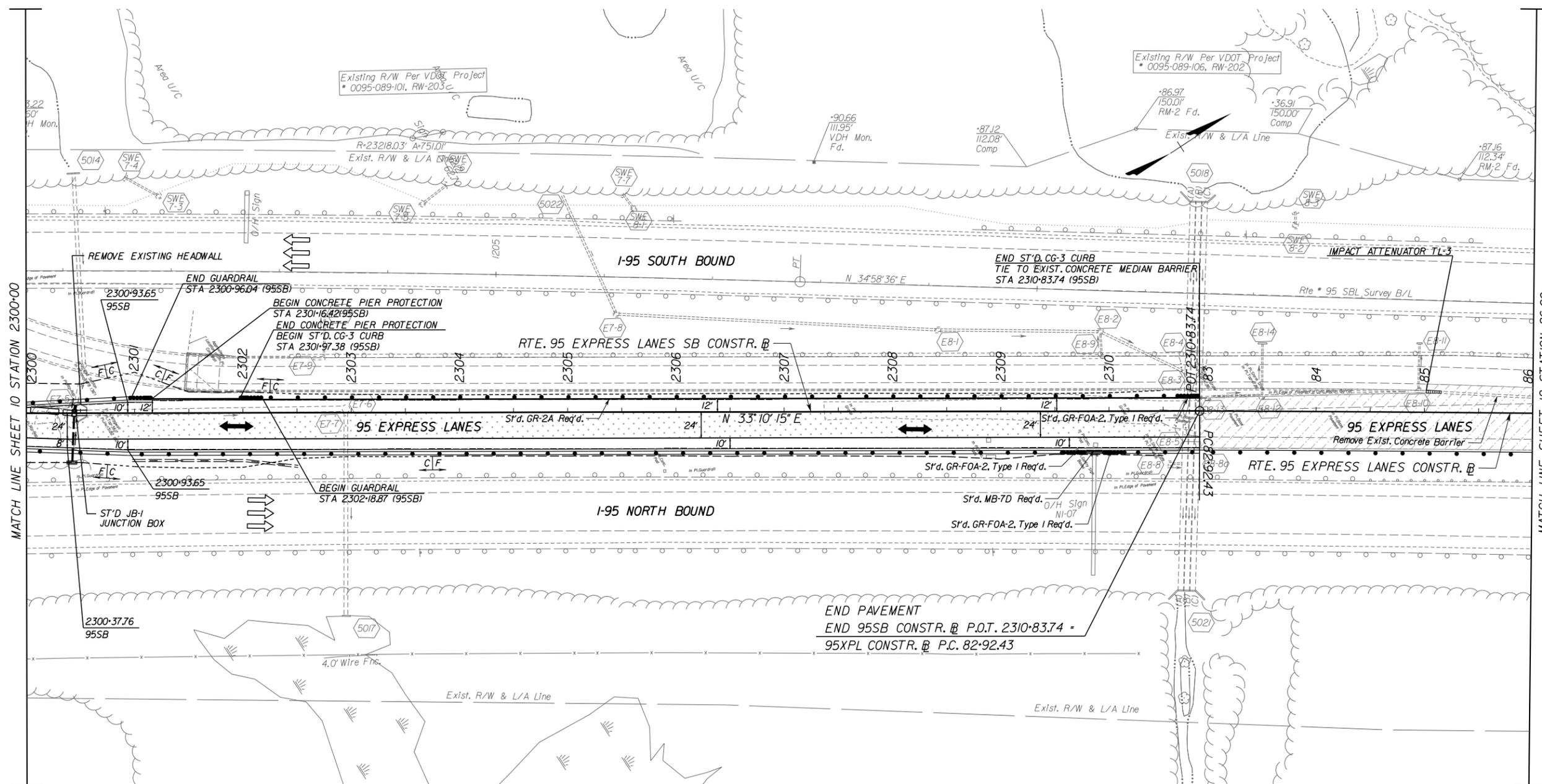
PROJECT	SHEET NO.
0095-969-720	10

PROJECT MANAGER Sur U. B. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	11

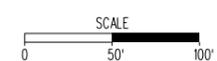
DESIGN FEATURES RELATING TO CONSTRUCTION
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MATCH LINE SHEET 10 STATION 2300+00

MATCH LINE SHEET 12 STATION 86+00

- LEGEND**
- Denotes Proposed Full Depth Pavement
 - Denotes Proposed Pavement Milling & Overlay
 - Denotes Construction Limits In Cuts
 - Denotes Construction Limits In Fills



PROJECT	SHEET NO.
0095-969-720	11

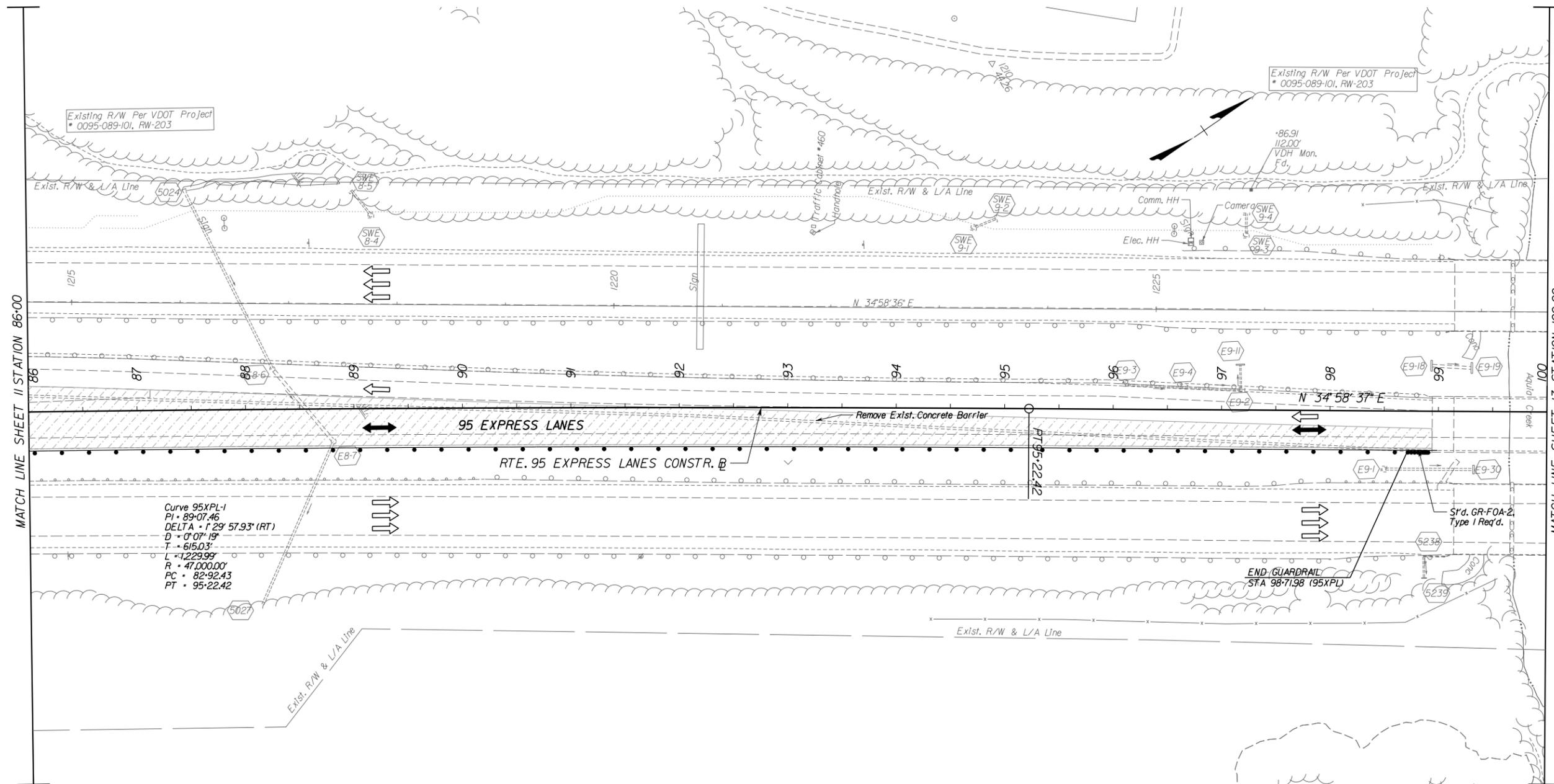
4/1/2016

PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bevardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	12

DESIGN FEATURES RELATING TO CONSTRUCTION
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LEGEND

- Denotes Proposed Full Depth Pavement
- Denotes Proposed Pavement Milling & Overlay
- Denotes Construction Limits In Cuts
- Denotes Construction Limits In Fills



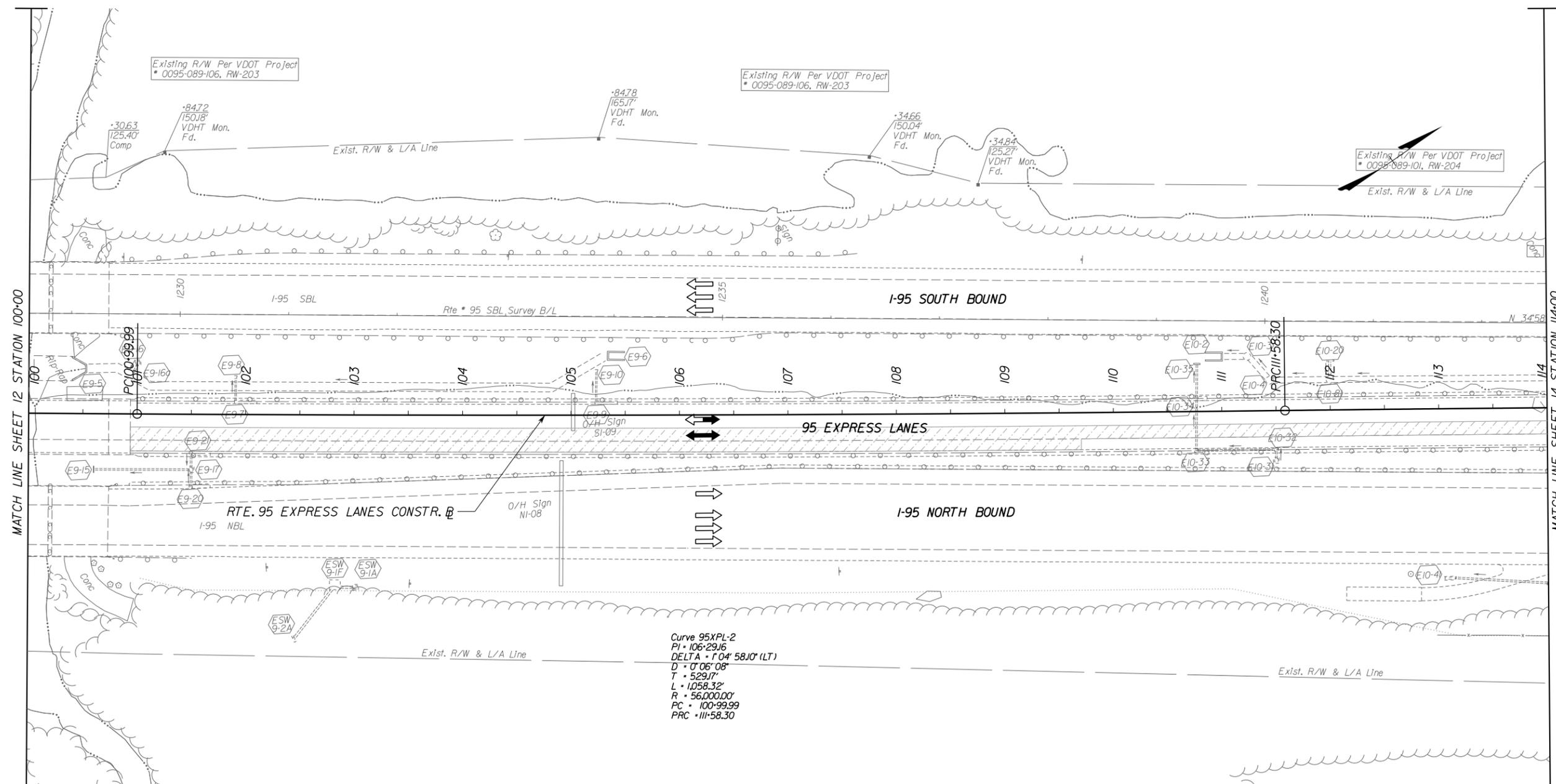
PROJECT	SHEET NO.
0095-969-720	12

PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE _____
DESIGN BY Whitman, Bevardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE _____

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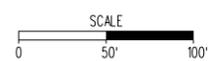
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	13

DESIGN FEATURES RELATING TO CONSTRUCTION
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Curve 95XPL-2
PI = 106+29.16
DELTA = 104° 58.10' (LT)
D = 0° 06' 08"
T = 529.17'
L = 1058.32'
R = 56,000.00'
PC = 100+99.99
PRC = 111+58.30

- LEGEND**
- Denotes Proposed Full Depth Pavement
 - Denotes Proposed Pavement Milling & Overlay
 - Denotes Construction Limits in Cuts
 - Denotes Construction Limits in Fills



PROJECT	SHEET NO.
0095-969-720	13

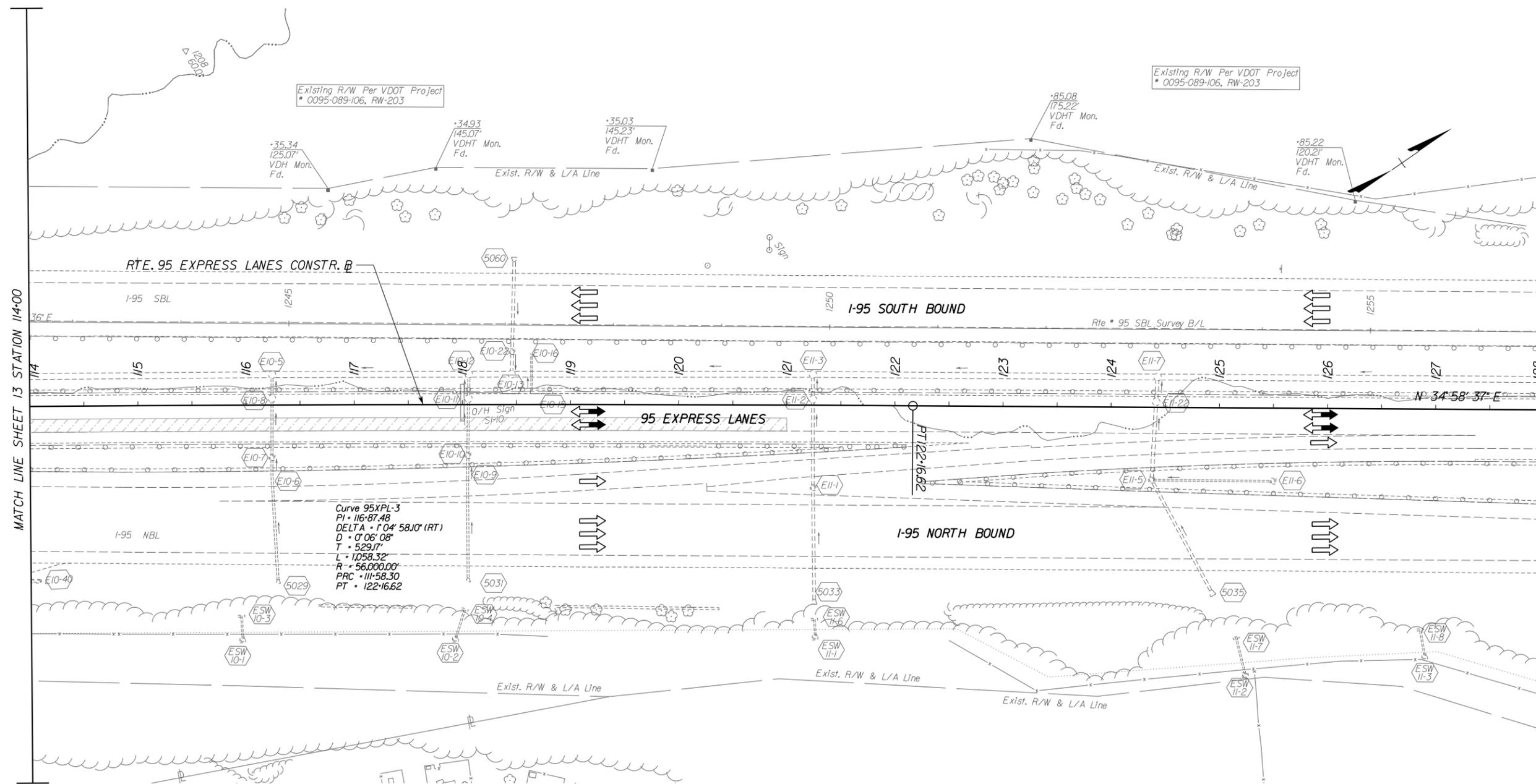
4/1/2016

PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE _____
DESIGN BY Whitman, Bevardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE _____

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	14

DESIGN FEATURES RELATING TO CONSTRUCTION
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MATCH LINE SHEET 13 STATION 114+00

- LEGEND**
- Denotes Proposed Full Depth Pavement
 - Denotes Proposed Pavement Milling & Overlay
 - Denotes Construction Limits in Cuts
 - Denotes Construction Limits in Fills



PROJECT	SHEET NO.
0095-969-720	14

4/1/2016

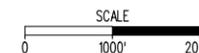
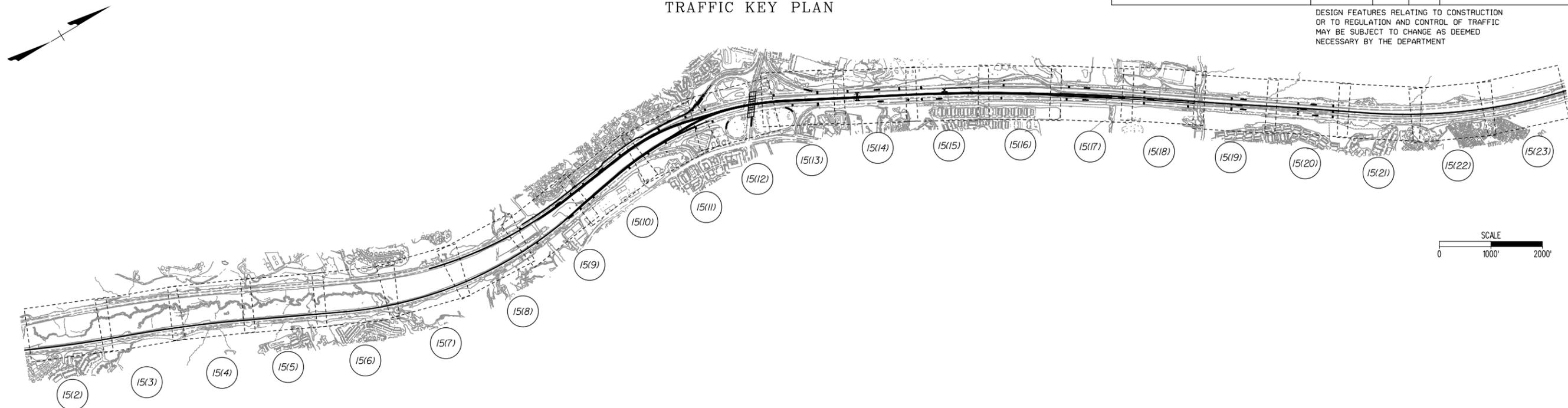
PROJECT MANAGER Suril B. Shah
 SURVEYED BY, DATE _____
 DESIGN BY Whitman, Bequardt & Associates, LLP
 SUBSURFACE UTILITY BY, DATE _____

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(1)

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TRAFFIC KEY PLAN



TMS AND LIGHTING LEGEND

PLAN ITEM	PLAN SYMBOL	
	PROPOSED	EXISTING
GROUND-MOUNTED EQUIPMENT CABINET		
POLE-MOUNTED EQUIPMENT CABINET		
MICROWAVE VEHICLE DETECTOR		
CCTV CAMERA		
AUTOMATED INCIDENT DETECTION CAMERA		
ITS DEVICE POLE AND FOUNDATION		
ROADWAY GATE		
ROADWAY LIGHTING POLE, LP-2 TYPE H, FOUNDATION AND LED LUMINAIRE		
SERVICE PANEL		
JUNCTION BOX JB-S1		
JUNCTION BOX JB-S2		
JUNCTION BOX JB-S3		
GENERATOR		
METERED ELECTRIC SERVICE		
COMMUNICATION DUCT BANK		
COMMUNICATION AND POWER DUCT BANK		
POWER DUCT BANK		
ROADWAY LIGHTING CONDUIT		

GENERAL NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE TYPE B, CLASS VI, PATTERNED PREFORMED TAPE.

STANDARD SIGN LEGEND

PLAN ITEM	PLAN SYMBOL	
	PROPOSED	EXISTING
Single Post Sign Support		
Double Post Sign Support		
O/H Cantilever Sign Support		
O/H Span Sign Support		
SIGN CALL-OUTS		
Existing Sign to Remain or to be Relocated		
Existing Sign to be Removed		
Proposed Sign Panel		

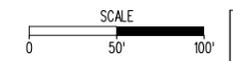
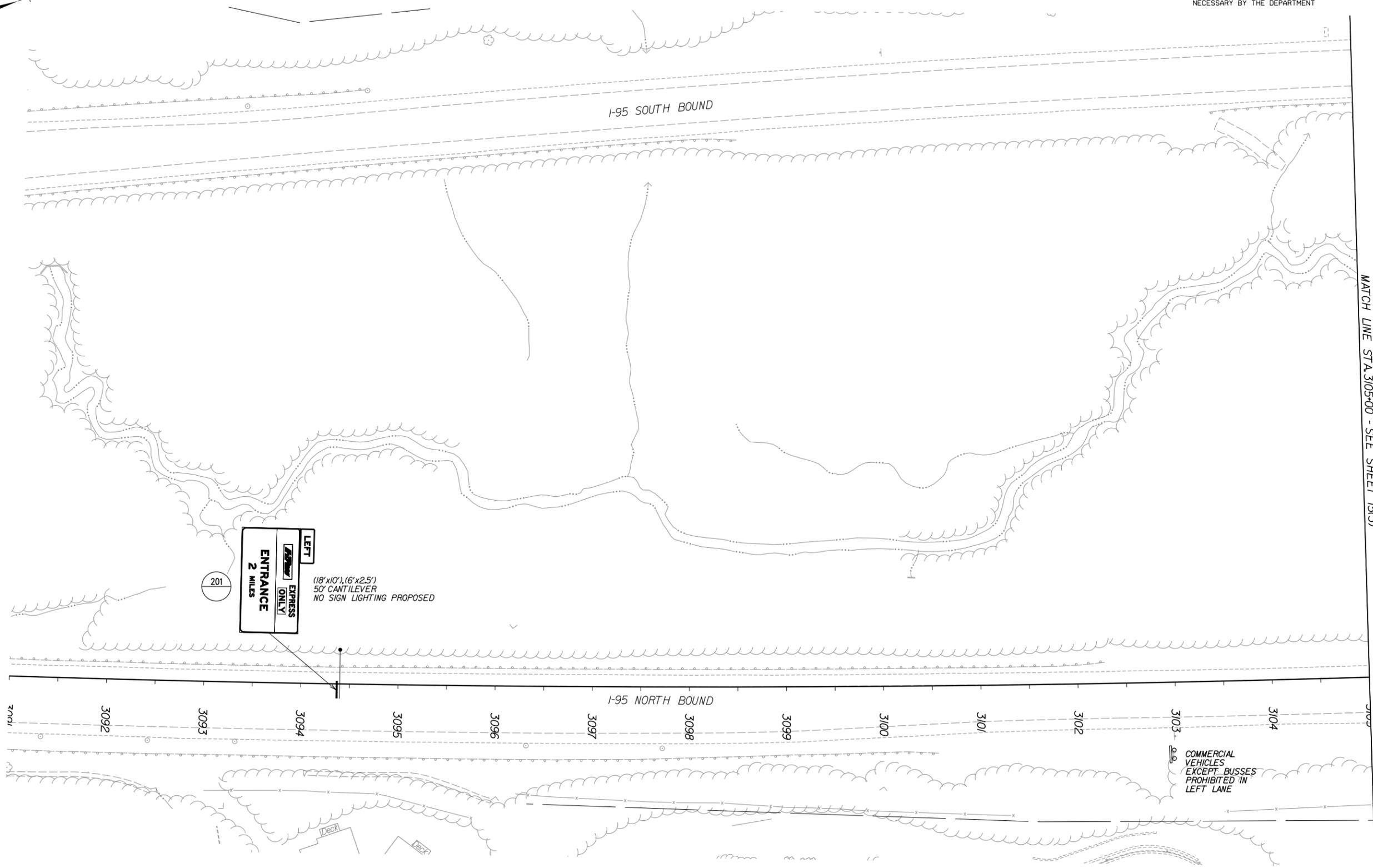
PROJECT MANAGER Suril R. Shah
 SURVEYED BY, DATE _____
 DESIGN BY Whitman, Bequardt & Associates, LLP
 SUBSURFACE UTILITY BY, DATE _____

PLAN NOTES:
 1. NOT ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS ARE SHOWN ON THE PLAN.
 ONLY PROPOSED AND EXISTING SIGNS RELATED TO THE CONSTRUCTION AND OPERATION
 OF THE EXPRESS LANES EXTENSION ARE SHOWN. OTHER GUIDE, REGULATORY AND
 WARNING SIGNS FOR THE I-95 GENERAL PURPOSE LANES MAY NOT BE SHOWN.

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(2)

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



PROJECT	SHEET NO.
0095-969-720	15(2)

PROJECT MANAGER Suril R. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

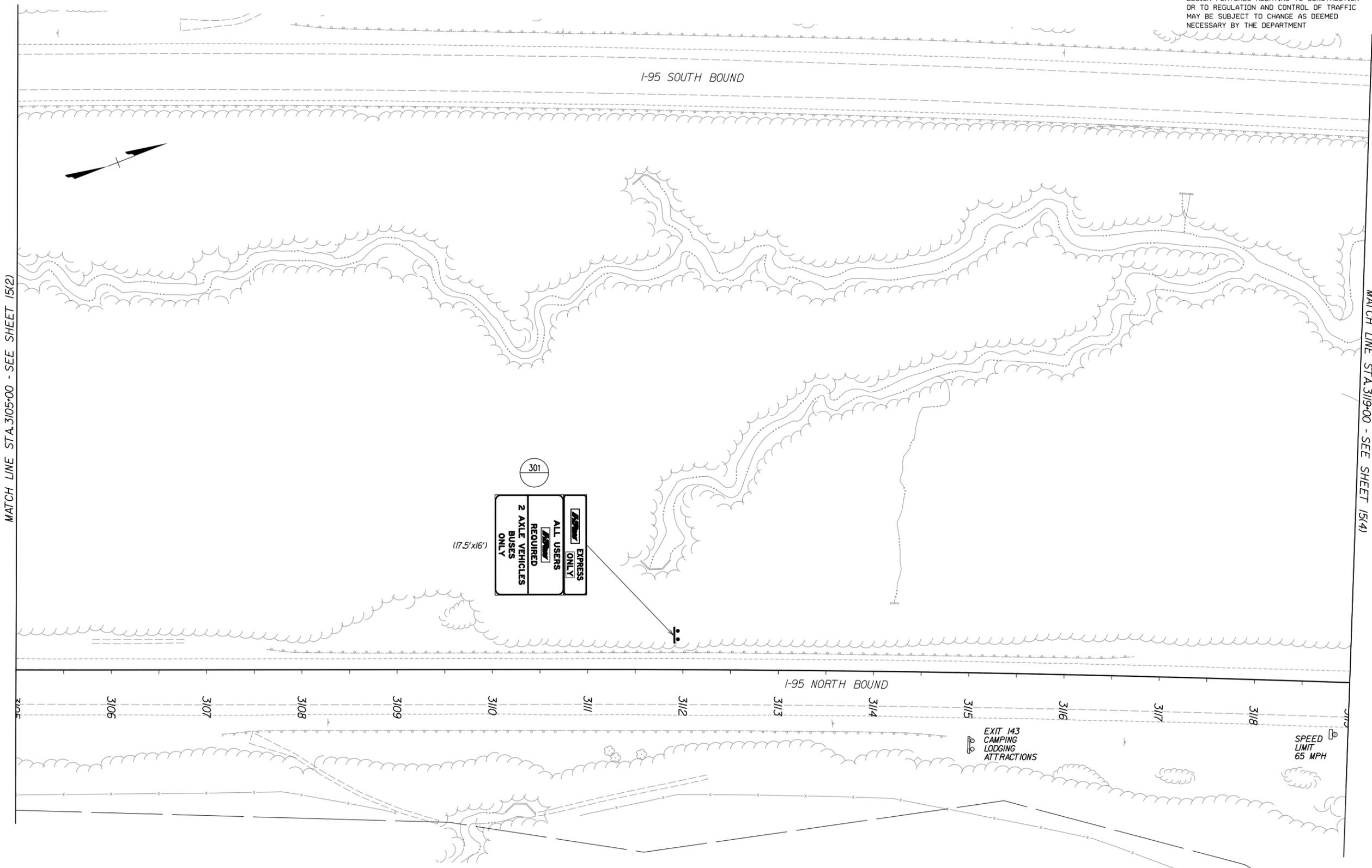
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(3)

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. 3105+00 - SEE SHEET 15(2)

MATCH LINE STA. 3119+00 - SEE SHEET 15(4)

I-95 SOUTH BOUND

I-95 NORTH BOUND

301

(17.5' x 16')

EXPRESS ONLY
ALL USERS
REQUIRED 2 AXLE VEHICLES BUSES ONLY

EXIT 143
CAMPING
LODGING
ATTRACTIONS

SPEED LIMIT 65 MPH

3106

3107

3108

3109

3110

3111

3112

3113

3114

3115

3116

3117

3118



PROJECT	SHEET NO.
0095-969-720	15(3)

PROJECT MANAGER Suril B. Shah
 SURVEYED BY, DATE _____
 DESIGN BY Whitman, Bequardt & Associates, LLP
 SUBSURFACE UTILITY BY, DATE _____

PLAN NOTES:

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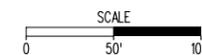
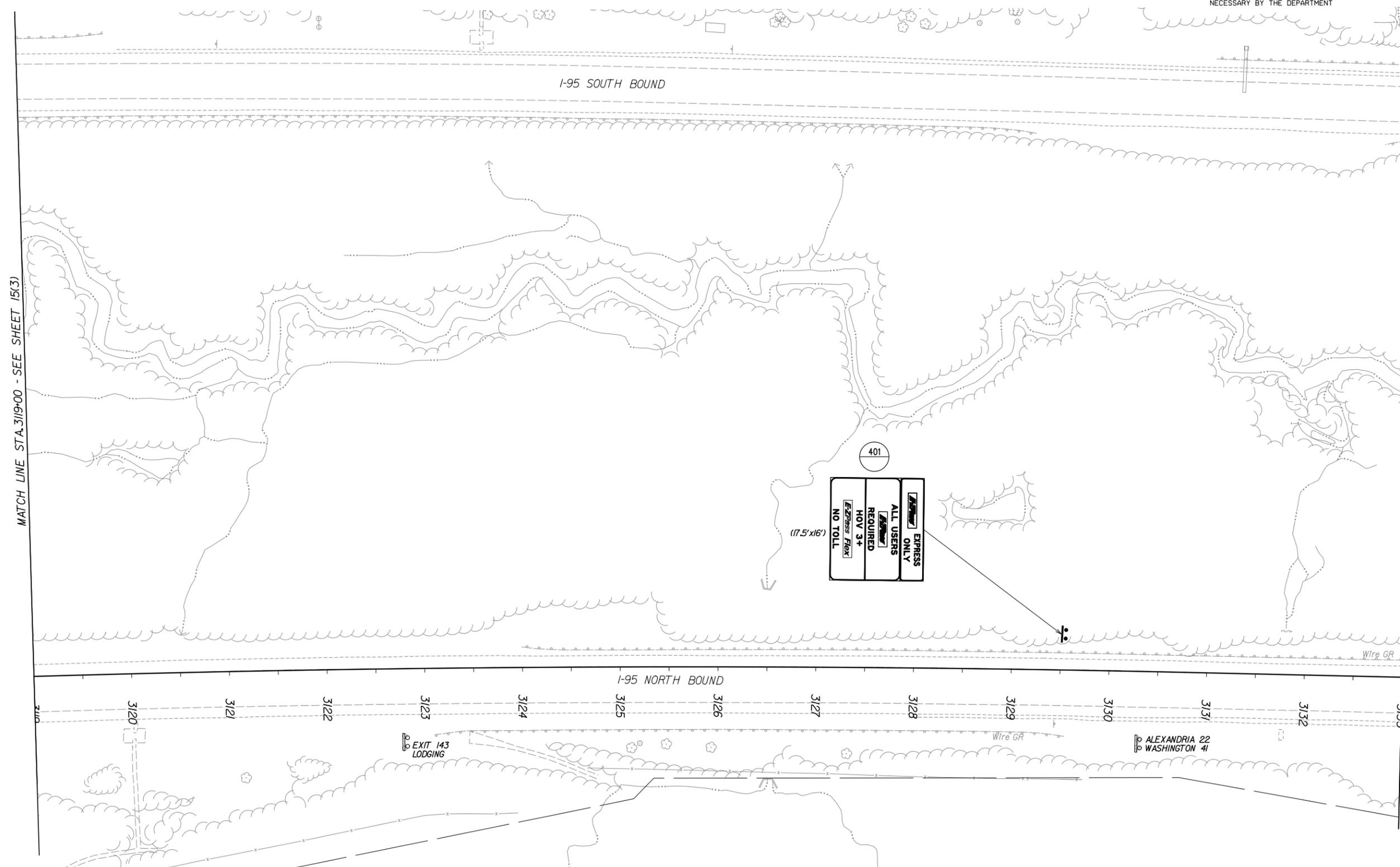
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(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. 3119+00 - SEE SHEET 15(3)

MATCH LINE STA. 3133+00 - SEE SHEET 15(5)



PROJECT	SHEET NO.
0095-969-720	15(4)

PROJECT MANAGER Suril R. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

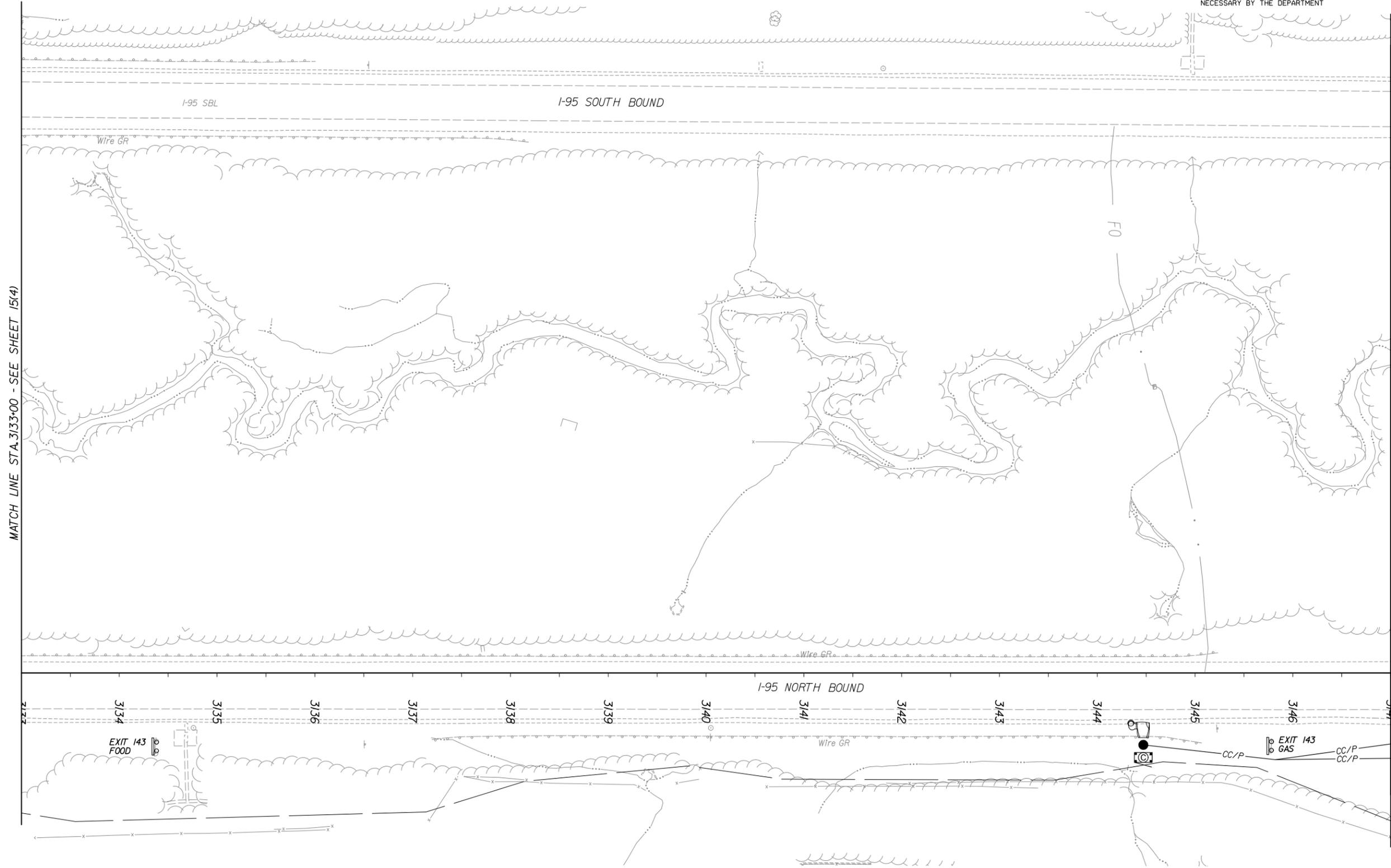
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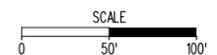
REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(5)

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. 3133+00 - SEE SHEET 15(4)

MATCH LINE STA. 3147+00 - SEE SHEET 15(6)



PROJECT	SHEET NO.
0095-969-720	15(5)

PROJECT MANAGER: Suril B. Shah
SURVEYED BY, DATE: _____
DESIGN BY: Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE: _____

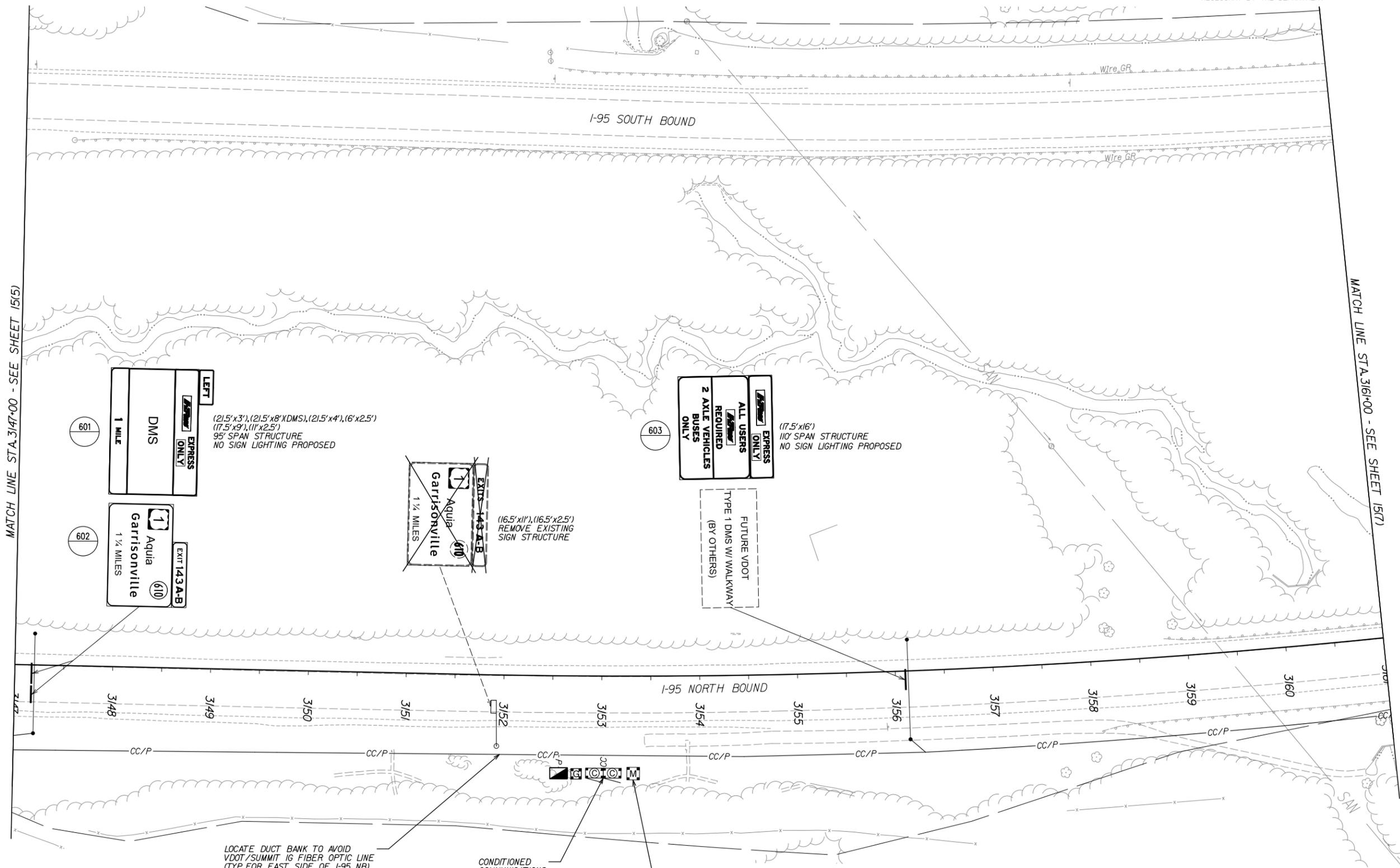
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(16)

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. 3147+00 - SEE SHEET 15(5)

MATCH LINE STA. 3161+00 - SEE SHEET 15(7)

LEFT

EXPRESS ONLY

DMS

1 MILE

(21.5'x3'), (21.5'x8'x DMS), (21.5'x4'), (6'x2.5')
(7.5'x9'), (11'x2.5')

95' SPAN STRUCTURE
NO SIGN LIGHTING PROPOSED

EXT 143A-B

1

Aquia Garrisonville

1 1/2 MILES

610

EXIST 143A-B

1

Aquia Garrisonville

1 1/2 MILES

(16.5'x11'), (16.5'x2.5')

REMOVE EXISTING SIGN STRUCTURE

EXPRESS ONLY

ALL USERS REQUIRED

2 AXLE VEHICLES ONLY

(17.5'x16')

110' SPAN STRUCTURE
NO SIGN LIGHTING PROPOSED

FUTURE VDOT

TYPE 1 DMS W/ WALKWAY

(BY OTHERS)

LOCATE DUCT BANK TO AVOID VDOT/SUMMIT IG FIBER OPTIC LINE (TYP. FOR EAST SIDE OF I-95 NB).

CONDITIONED COMMUNICATIONS HUB CABINET

OBTAIN SERVICE FROM BELLADONNA LANE (EASEMENT REQUIRED)



PROJECT	SHEET NO.
0095-969-720	15(16)

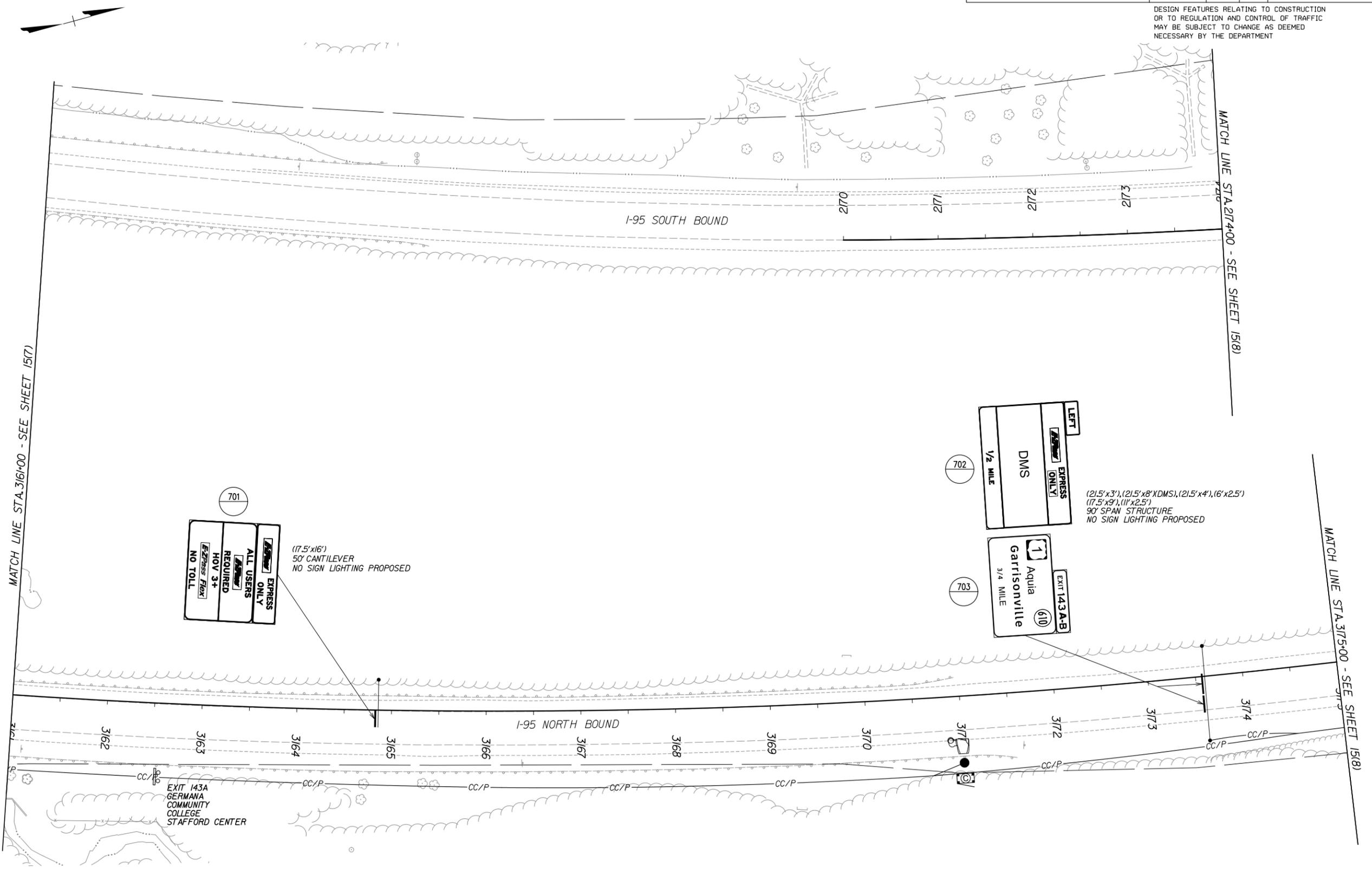
PROJECT MANAGER: Suril R. Shah
 SURVEYED BY, DATE: _____
 DESIGN BY: Whitman, Bequardt & Associates, LLP
 SUBSURFACE UTILITY BY, DATE: _____

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(7)

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



PROJECT	SHEET NO.
0095-969-720	15(7)

PROJECT MANAGER: Suril B. Shah
 SURVEYED BY, DATE: _____
 DESIGN BY: Whitman, Bequardt & Associates, LLP
 SUBSURFACE UTILITY BY, DATE: _____

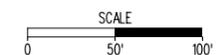
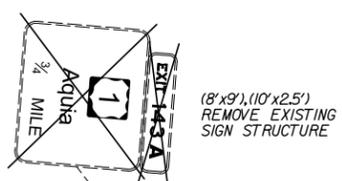
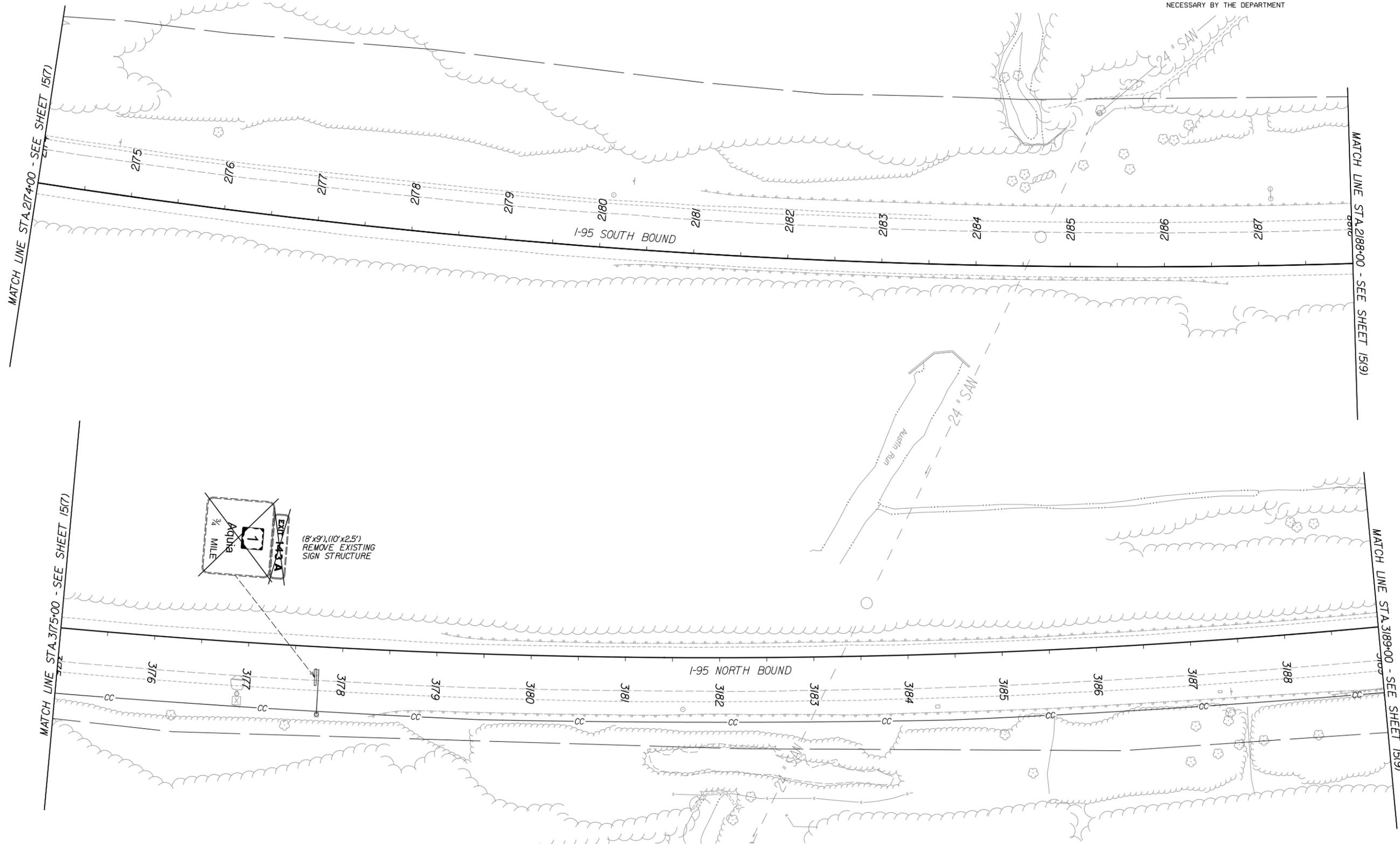
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(8)

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



PROJECT	SHEET NO.
0095-969-720	15(8)

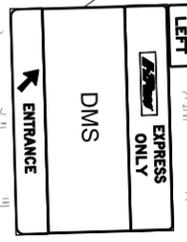
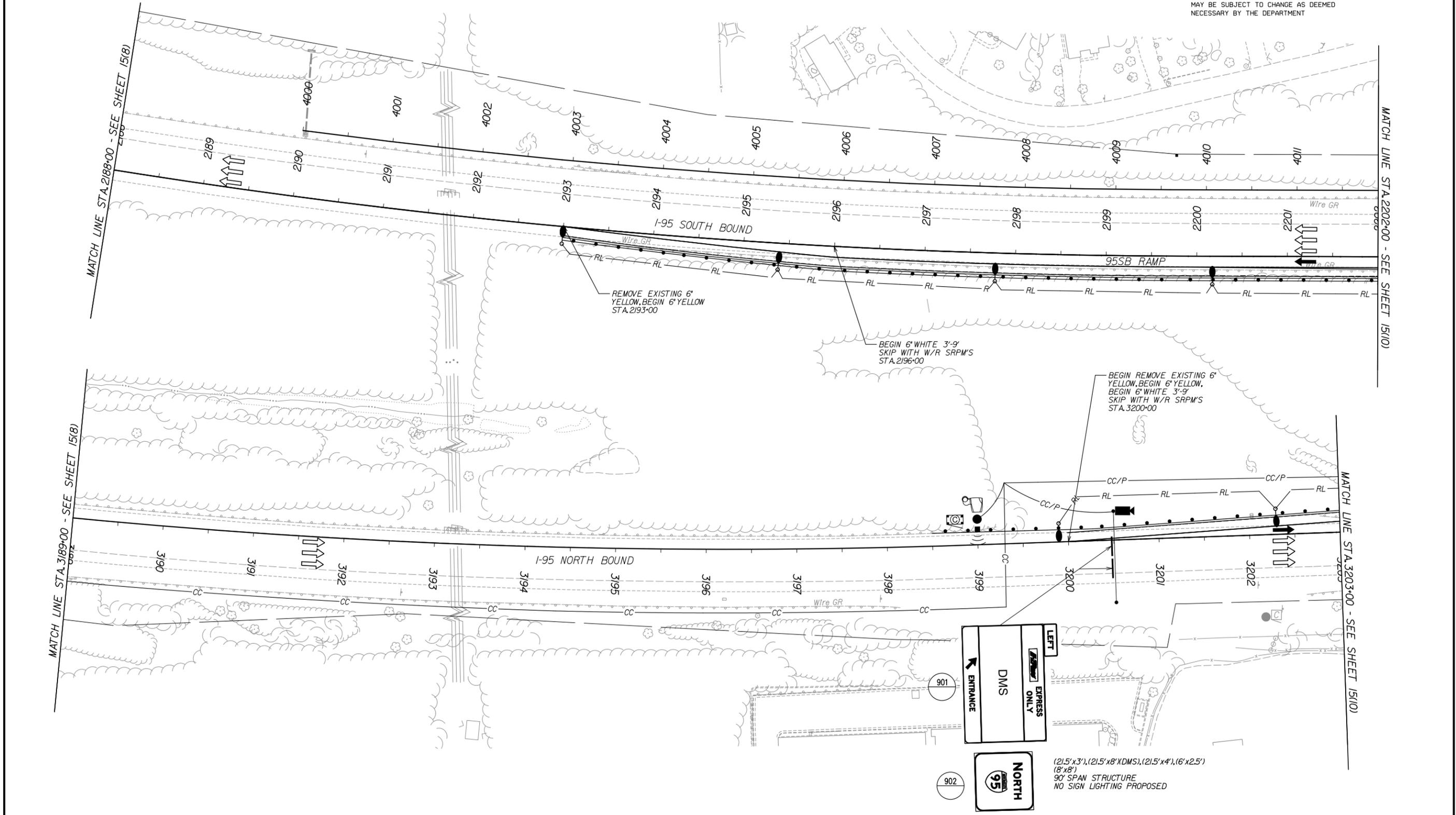
PROJECT MANAGER: Suril R. Shah
 SURVEYED BY, DATE: _____
 DESIGN BY: Whitman, Bequardt & Associates, LLP
 SUBSURFACE UTILITY BY, DATE: _____

PLAN NOTES:
 1. NOT ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS ARE SHOWN ON THE PLAN. ONLY PROPOSED AND EXISTING SIGNS RELATED TO THE CONSTRUCTION AND OPERATION OF THE EXPRESS LANES EXTENSION ARE SHOWN. OTHER GUIDE, REGULATORY AND WARNING SIGNS FOR THE I-95 GENERAL PURPOSE LANES MAY NOT BE SHOWN.

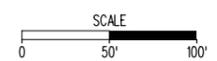
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(9)

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



(21.5'x3'), (21.5'x8'XDMS), (21.5'x4'), (16'x2.5')
 (8'x8')
 90° SPAN STRUCTURE
 NO SIGN LIGHTING PROPOSED



PROJECT	SHEET NO.
0095-969-720	15(9)

PROJECT MANAGER: Suril B. Shah
SURVEYED BY, DATE: _____
DESIGN BY: Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE: _____

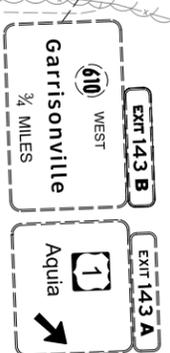
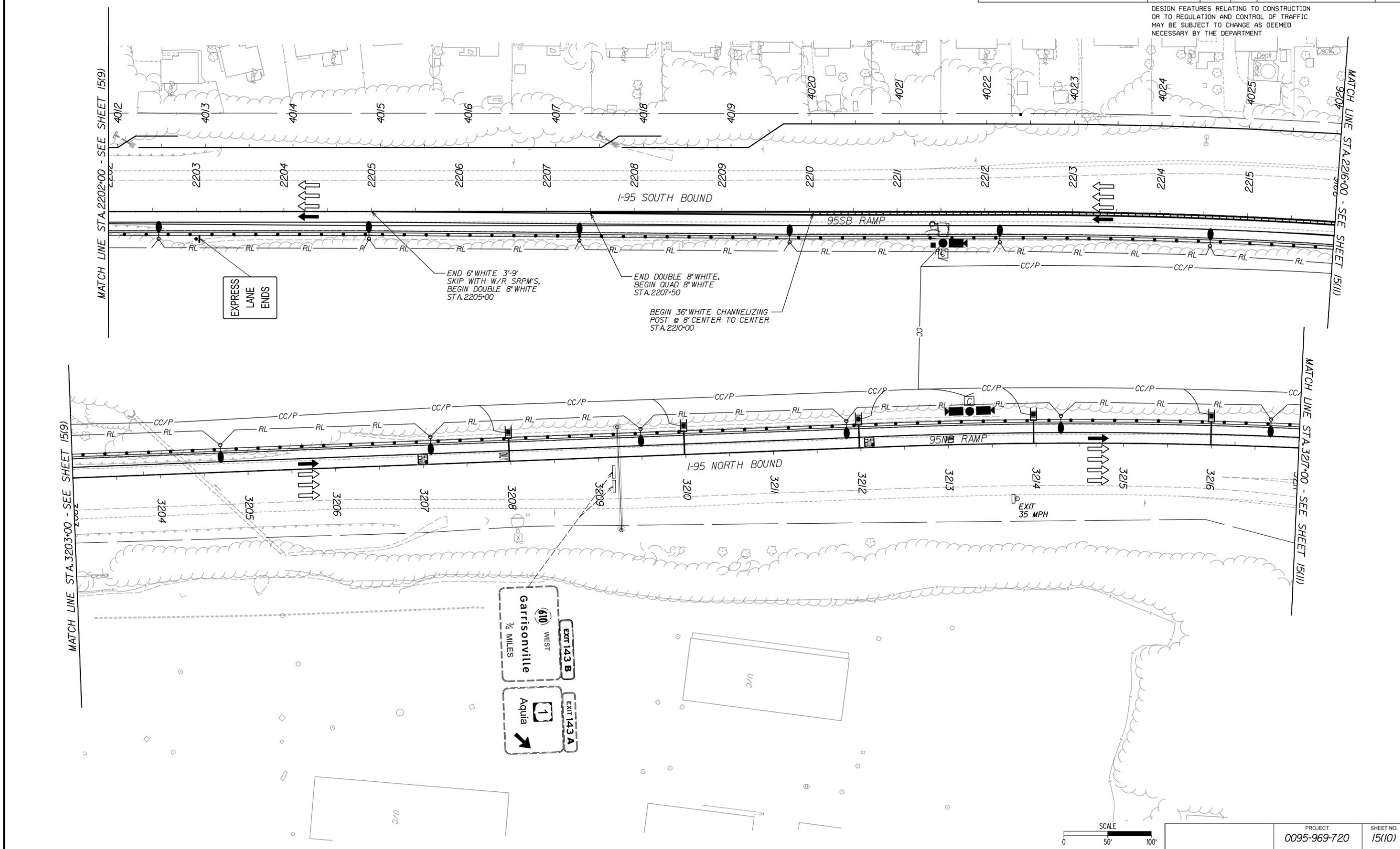
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(10)

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



PROJECT	SHEET NO.
0095-969-720	15(10)

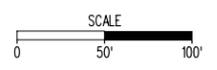
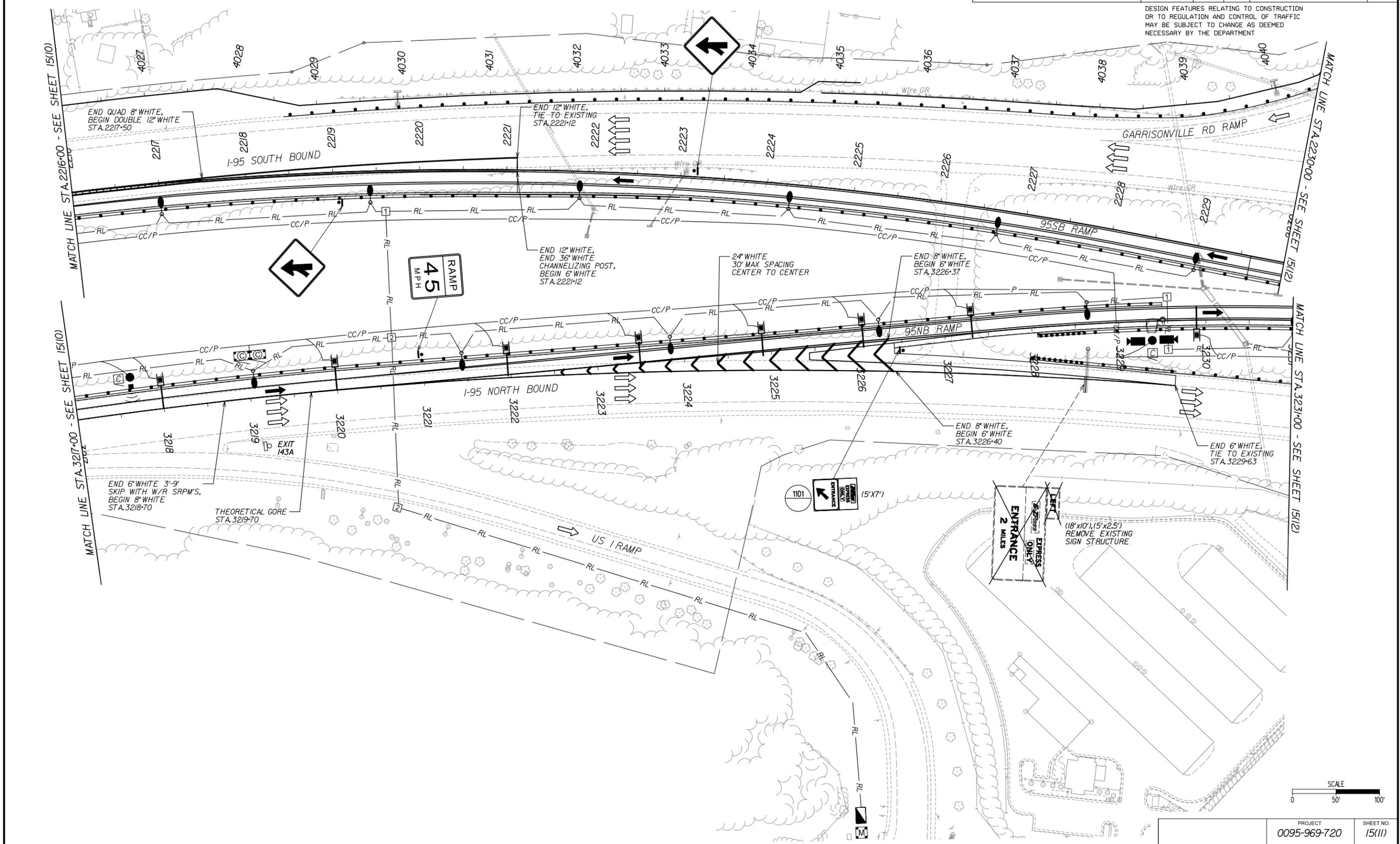
PROJECT MANAGER: Suril B. Shah
SURVEYED BY, DATE
DESIGN BY: Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

PLAN NOTES:
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(11)

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



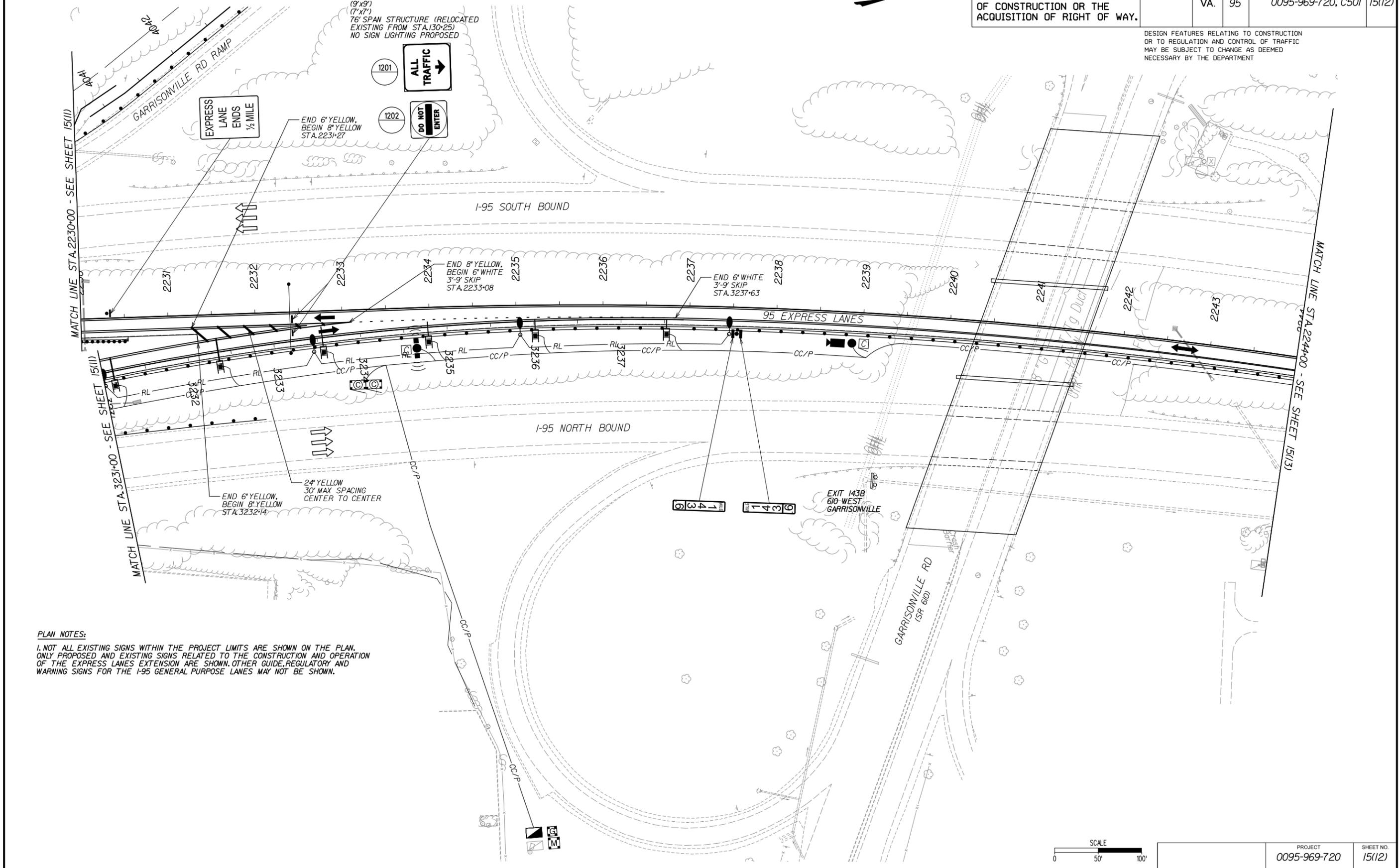
PROJECT	SHEET NO.
0095-969-720	15(11)

PROJECT MANAGER: Suril R. Shah
SURVEYED BY, DATE: _____
DESIGN BY: Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE: _____

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(12)

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PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

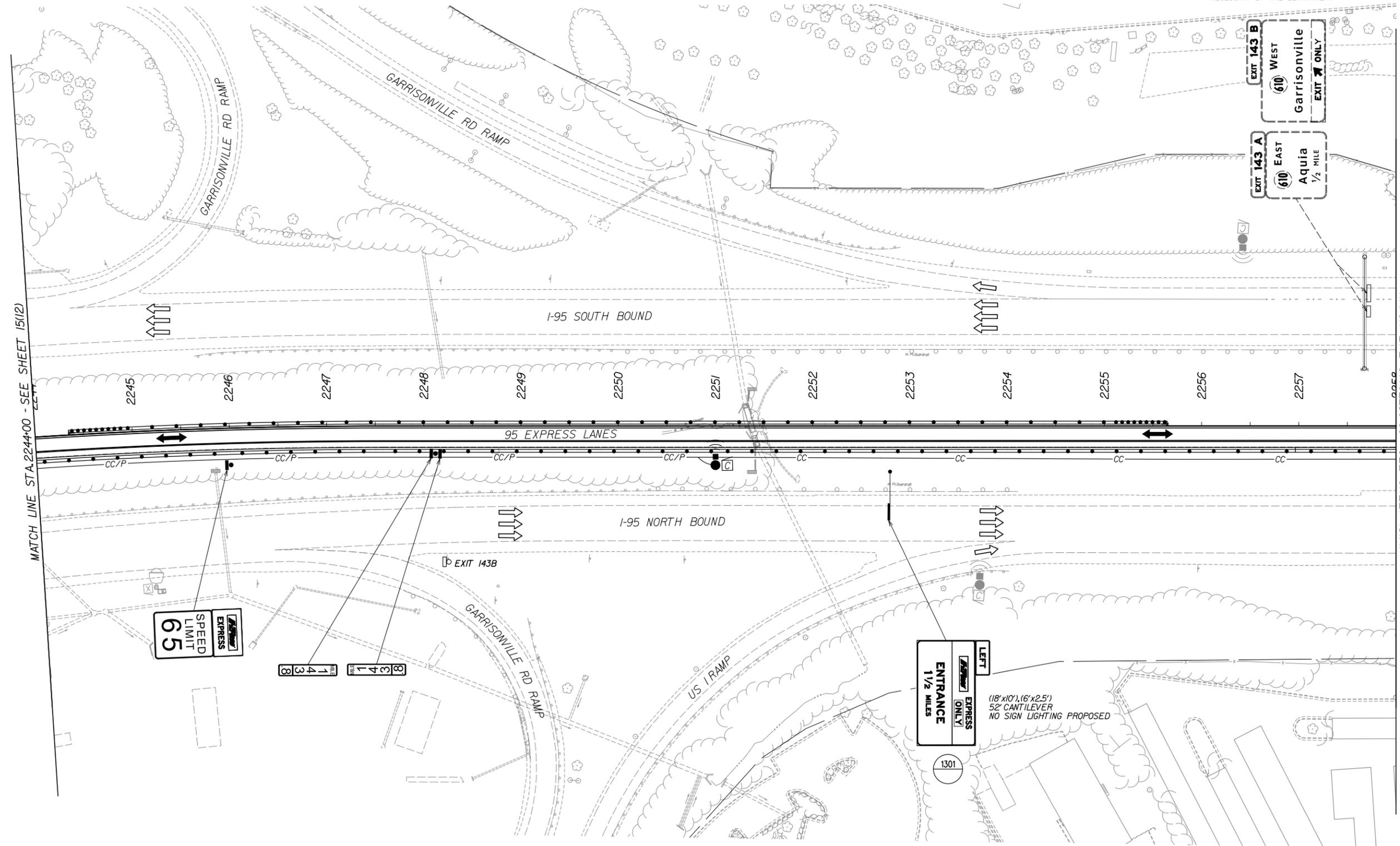
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(13)

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. 2244+00 - SEE SHEET 15(12)

MATCH LINE STA. 2258+00 - SEE SHEET 15(14)

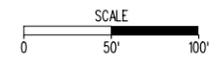
65
SPEED
LIMIT
EXPRESS

1 4 3 0
1 4 3 0

LEFT
EXPRESS
ONLY
ENTRANCE
1 1/2 MILES

(18' x 10'), (6' x 2.5')
52' CANTILEVER
NO SIGN LIGHTING PROPOSED

1301



PROJECT	SHEET NO.
0095-969-720	15(13)

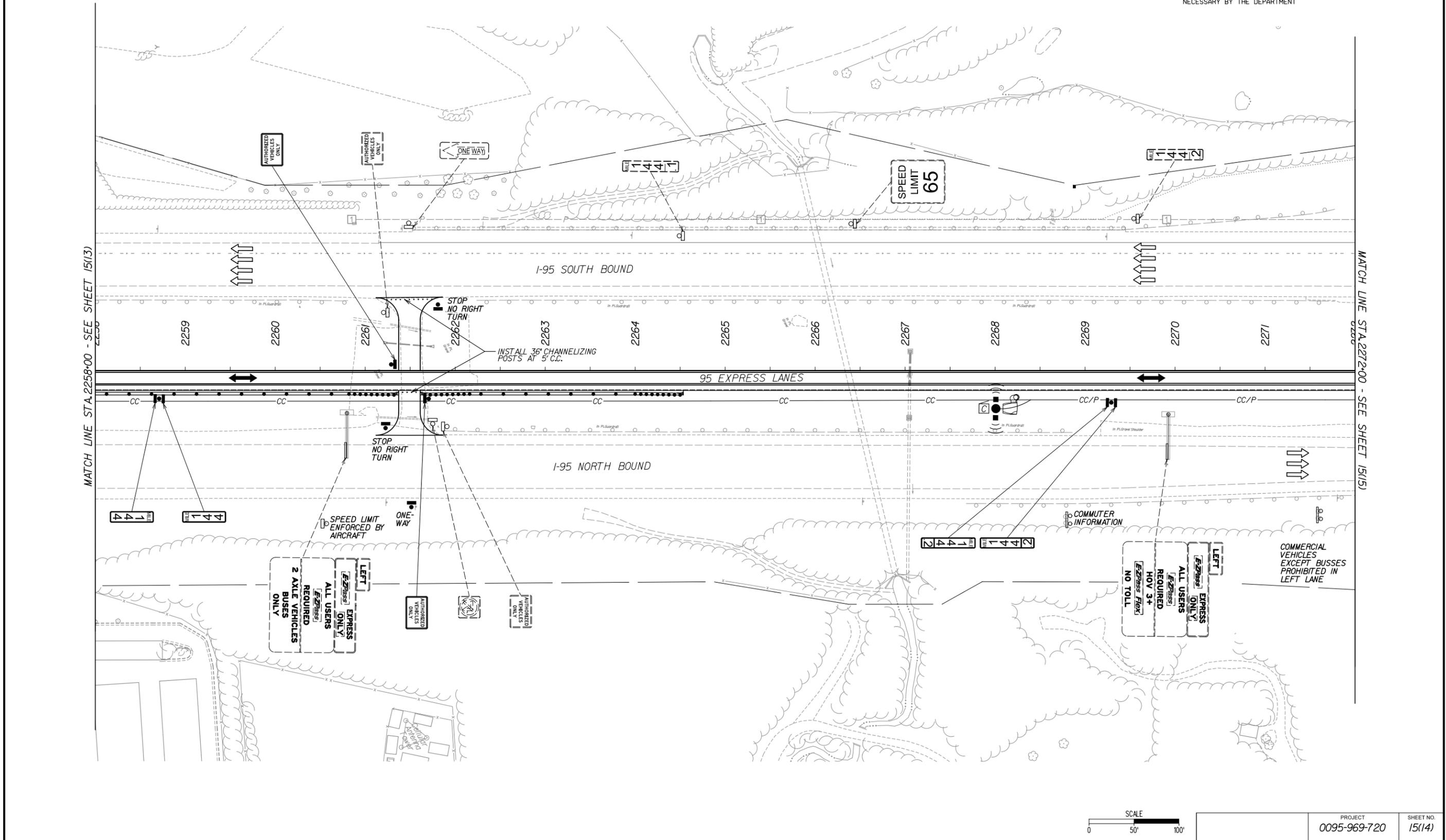
PROJECT MANAGER: Suril B. Shah
 SURVEYED BY, DATE: _____
 DESIGN BY: Whitman, Bequardt & Associates, LLP
 SUBSURFACE UTILITY BY, DATE: _____

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	VA.	95	0095-969-720, C501	15(14)

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PROJECT	SHEET NO.
0095-969-720	15(14)

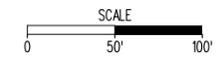
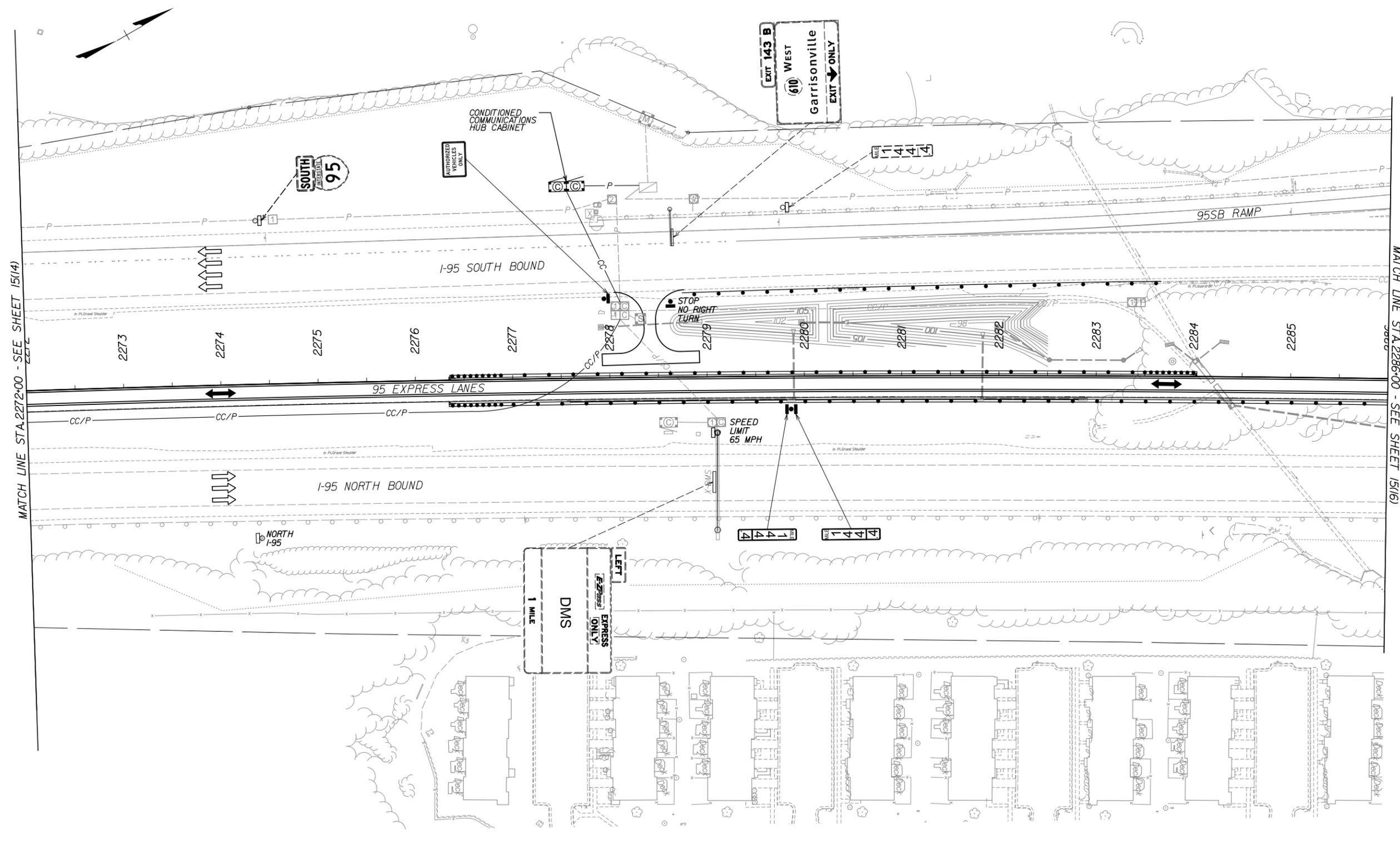
PROJECT MANAGER: Suril B. Shah
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	VA.	95	0095-969-720, C501	15(15)

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PROJECT	SHEET NO.
0095-969-720	15(15)

PROJECT MANAGER: Suril B. Shah
 SURVEYED BY, DATE: _____
 DESIGN BY: Whitman, Bequardt & Associates, LLP
 SUBSURFACE UTILITY BY, DATE: _____

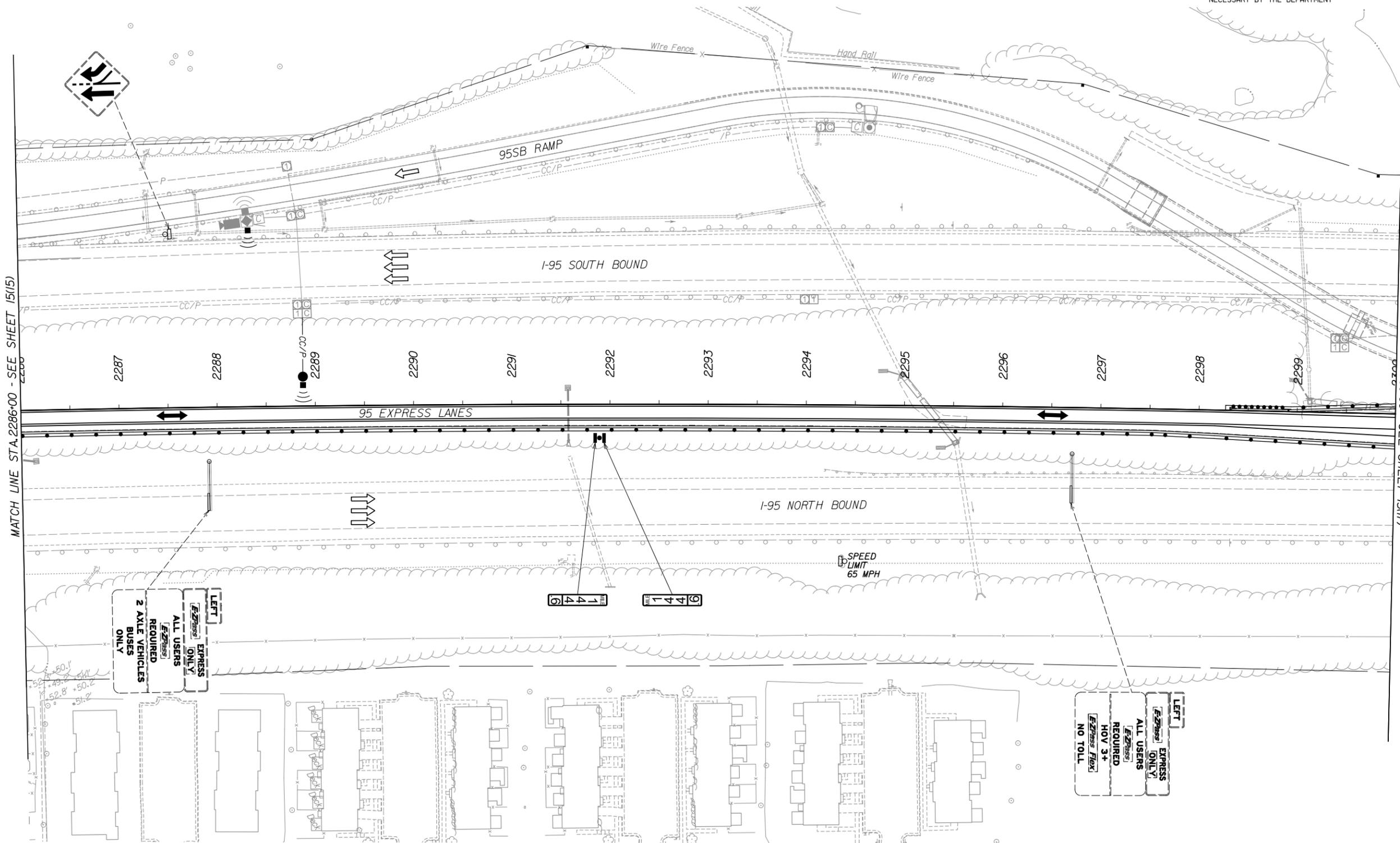
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(16)

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. 2286+00 - SEE SHEET 15(15)

MATCH LINE STA. 2300+00 - SEE SHEET 15(17)



PROJECT	SHEET NO.
0095-969-720	15(16)

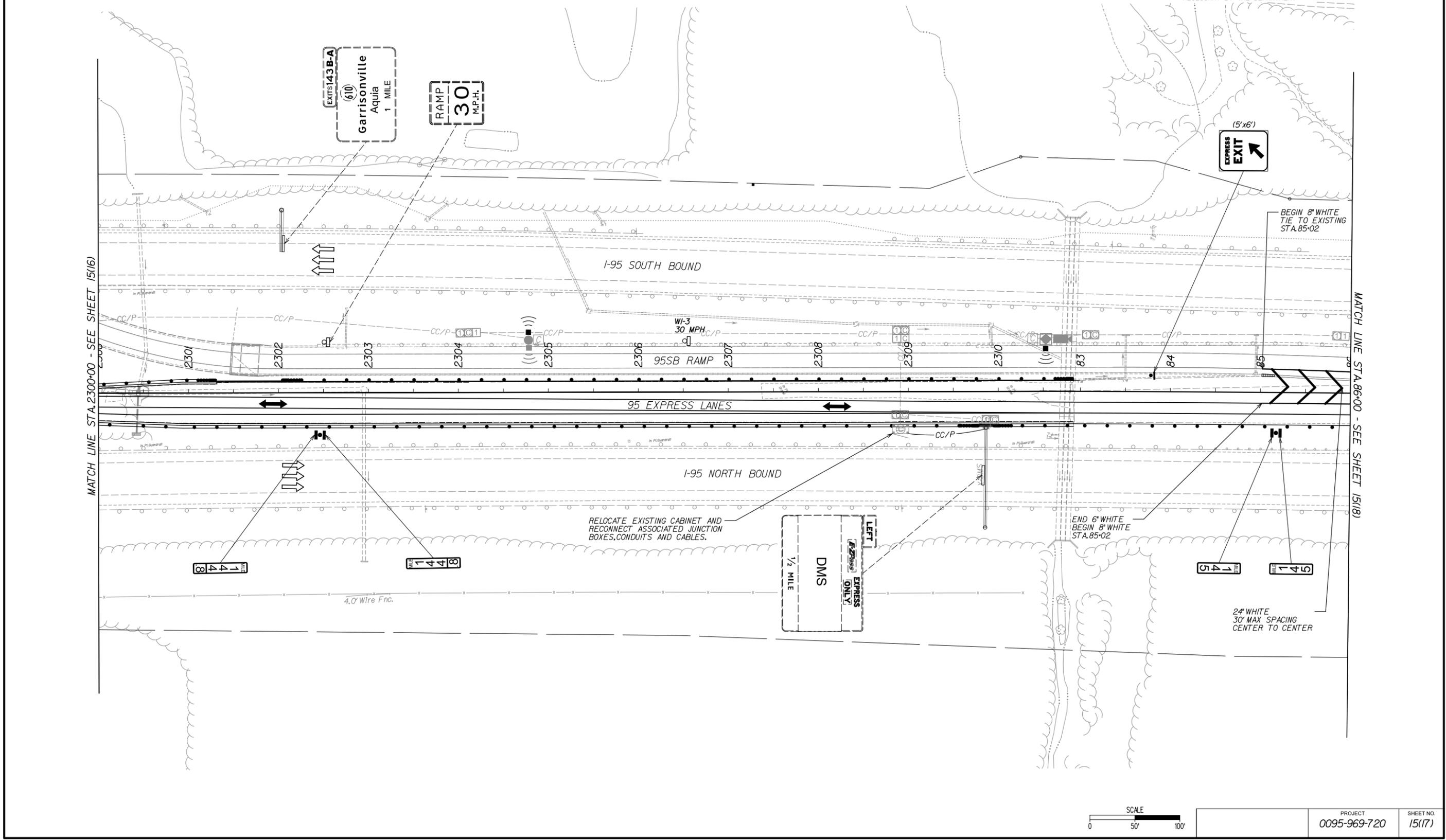
PROJECT MANAGER Suril B. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(17)

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



PROJECT MANAGER Suril R. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

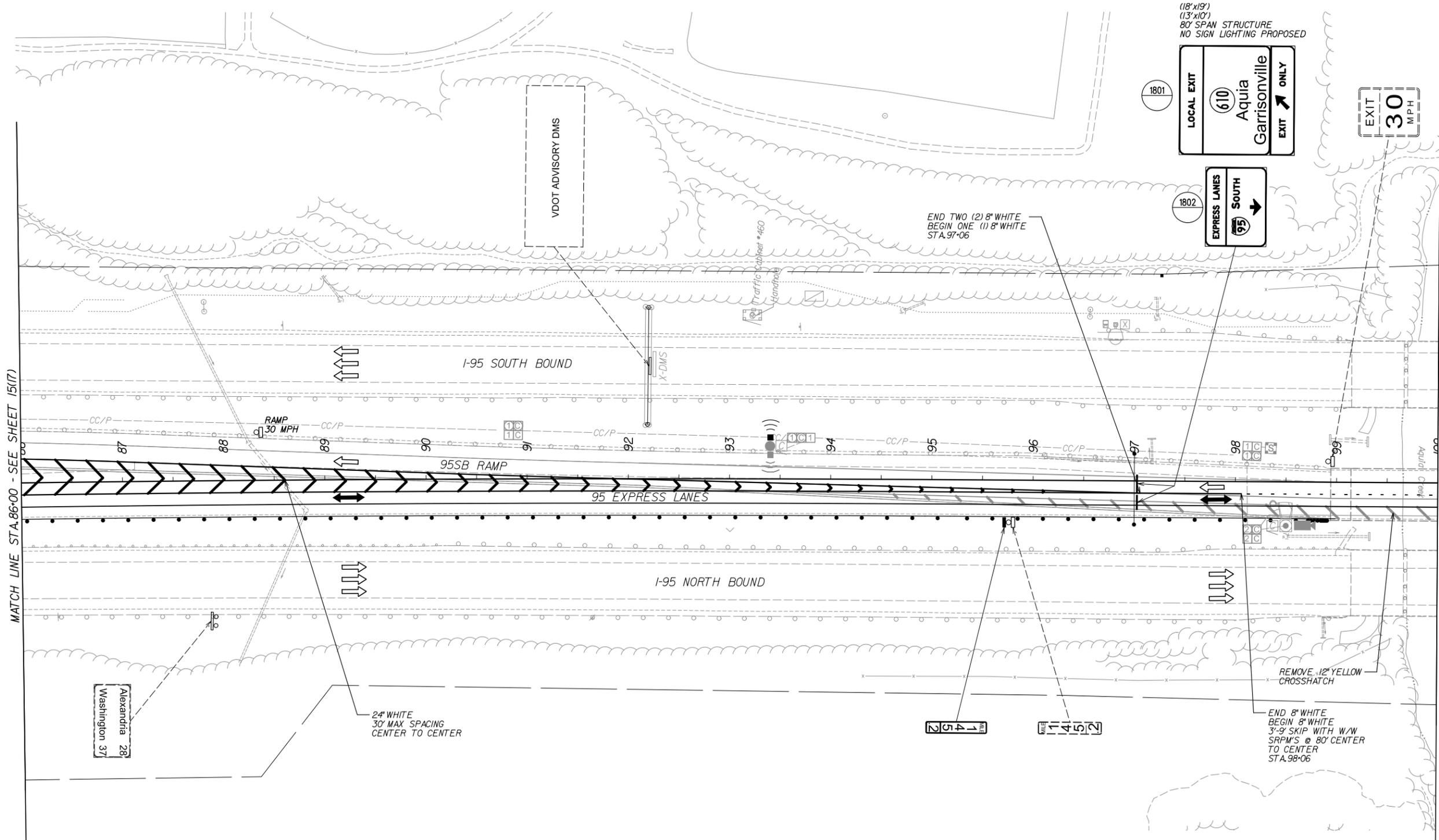
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(18)

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



PROJECT MANAGER: Suril R. Shah
 SURVEYED BY, DATE: _____
 DESIGN BY: Whitman, Bequardt & Associates, LLP
 SUBSURFACE UTILITY BY, DATE: _____

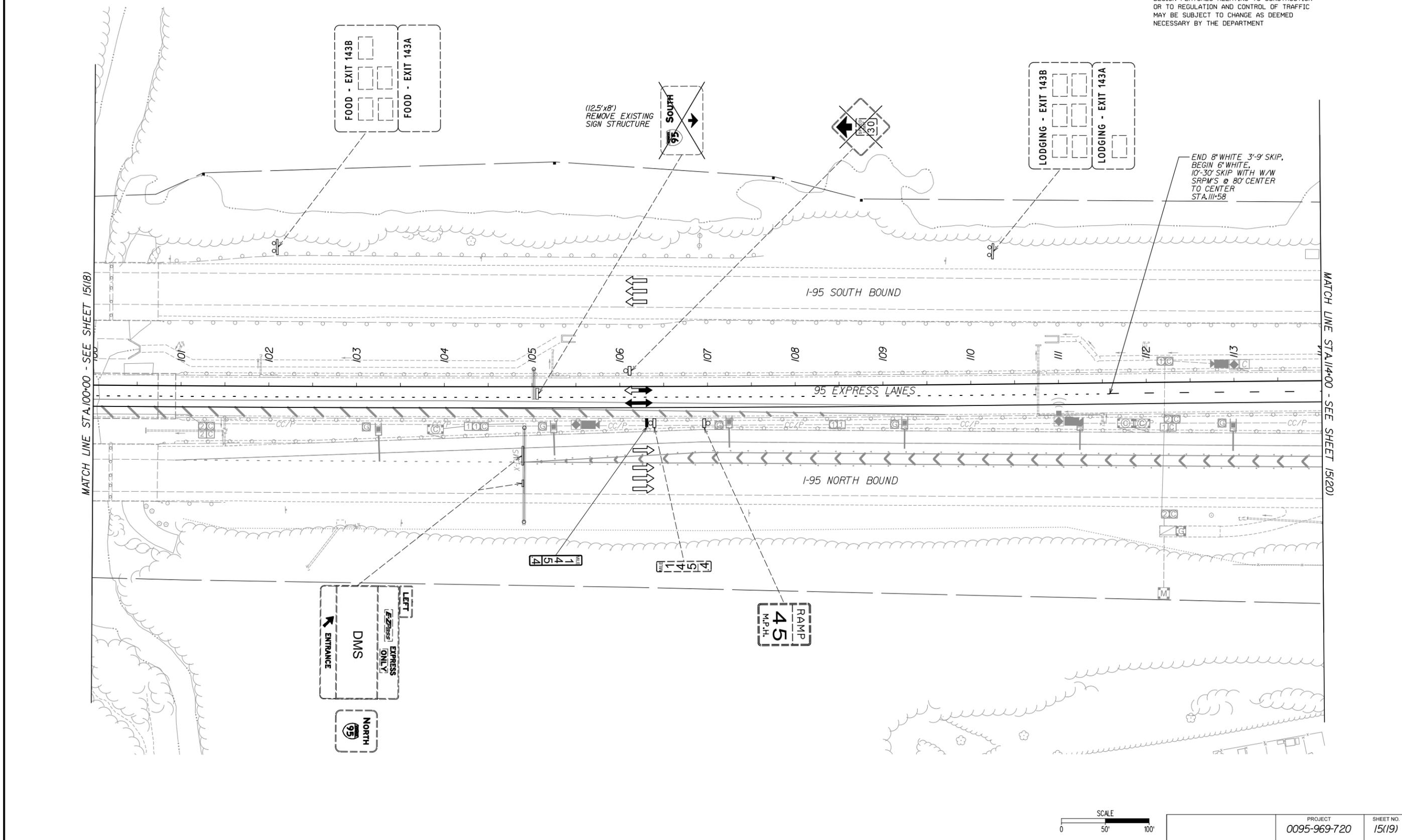
PLAN NOTES:

1. NOT ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS ARE SHOWN ON THE PLAN. ONLY PROPOSED AND EXISTING SIGNS RELATED TO THE CONSTRUCTION AND OPERATION OF THE EXPRESS LANES EXTENSION ARE SHOWN. OTHER GUIDE, REGULATORY AND WARNING SIGNS FOR THE I-95 GENERAL PURPOSE LANES MAY NOT BE SHOWN.

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

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(19)

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



PROJECT MANAGER Suril R. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

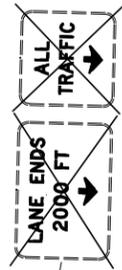
PLAN NOTES:

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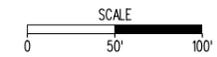
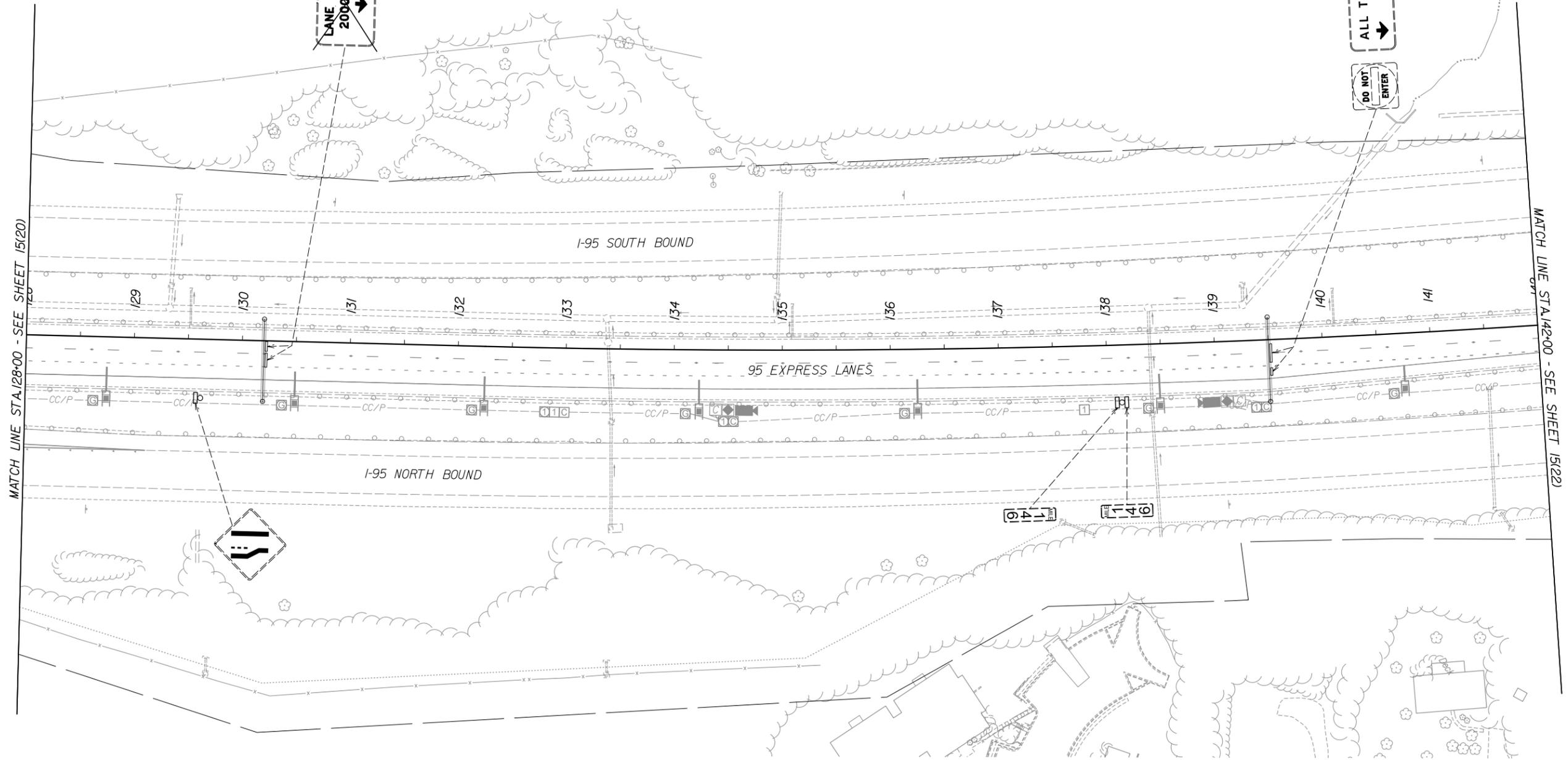
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(21)

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



(9'x9')
(13'x9')
RELOCATE EXISTING
SIGN STRUCTURE TO
STA. 2231+40



PROJECT	SHEET NO.
0095-969-720	15(21)

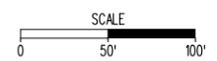
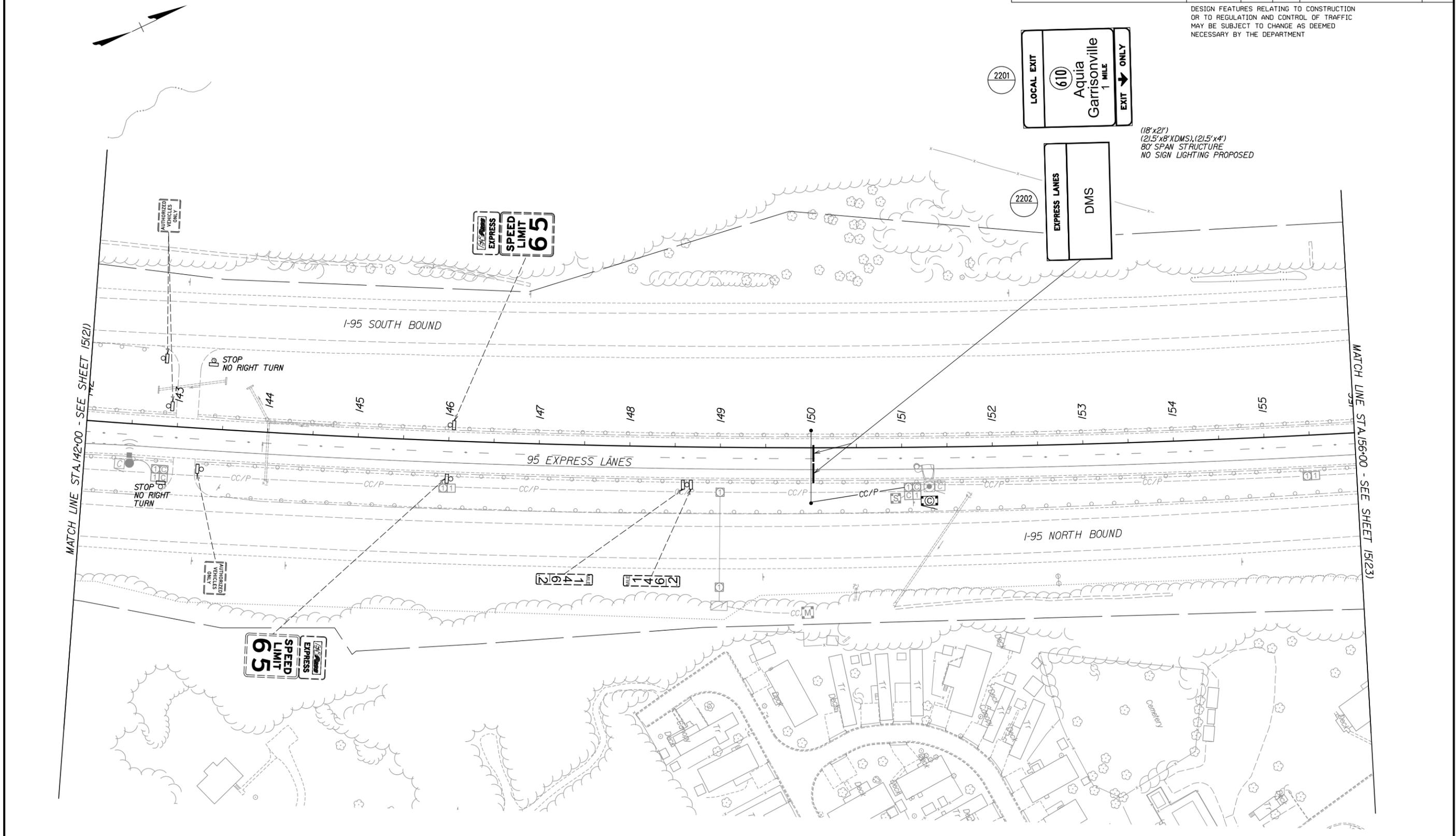
PROJECT MANAGER: Suril B. Shah
 SURVEYED BY, DATE: _____
 DESIGN BY: Whitman, Bequardt & Associates, LLP
 SUBSURFACE UTILITY BY, DATE: _____

PLAN NOTES:
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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(22)

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



PROJECT	SHEET NO.
0095-969-720	15(22)

PROJECT MANAGER Suril R. Shah
SURVEYED BY, DATE
DESIGN BY Whitman, Bequardt & Associates, LLP
SUBSURFACE UTILITY BY, DATE

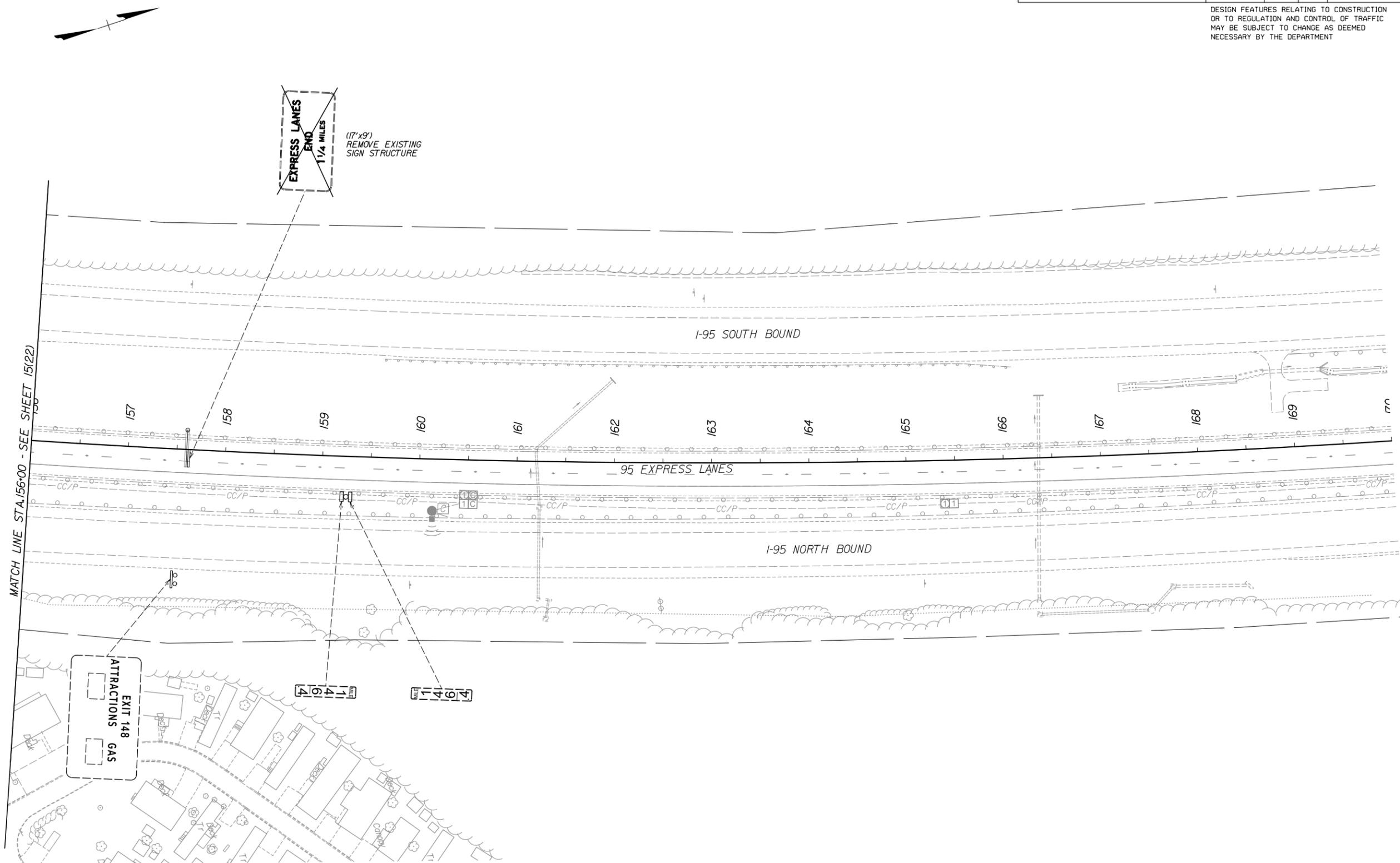
PLAN NOTES:

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REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	95	0095-969-720, C501	15(23)

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



Activity ID	Activity Name	Original Duration	Start	Finish	Classic Schedule Layout																		
					Qtr 3, 2016			Qtr 4, 2016			Qtr 1, 2017			Qtr 2, 2017		Qtr 3, 2017		Qtr 4, 2017		Qtr 1, 2018		Qtr 2, 2018	
					2	2	2	2	2	2	2	2	2	2	2								
I-95 Express Lanes - Southern Terminus Extension					554	21-Jun-16	22-Aug-18																
I-95 Express Lanes					554	21-Jun-16	22-Aug-18																
Project Milestones					554	21-Jun-16	22-Aug-18																
1	Contract NTP	0	21-Jun-16*		Contract NTP																		
366	Final Geotech Report Complete	0		01-Oct-16	◆ Final Geotech Report Complete																		
58	Scope Validation Period Complete	0		18-Oct-16	◆ Scope Validation Period Complete																		
95	Environmental Permits Issued	0	19-Oct-16		◆ Environmental Permits Issued																		
185	VDOT Approve AFC Roadway Plans	0		03-Jan-17	◆ VDOT Approve AFC Roadway Plans																		
247	Substantial Completion (Interim Milestone)	0		30-Nov-17*	◆ Substantial Completion (Interim Milestone)																		
249	Final Completion	0		22-Aug-18*																			
Design, Right-of-Way & Permitting					136	21-Jun-16	03-Jan-17	03-Jan-17, Design, Right-of-Way & Permitting															
QA/QC Plan					57	21-Jun-16	09-Sep-16	09-Sep-16, QA/QC Plan															
4	Prepare Quality Assurance and Quality Control (QA/QC) Plan	30	21-Jun-16	20-Jul-16	Prepare Quality Assurance and Quality Control (QA/QC) Plan																		
5	Submit QA/QC Plan to VDOT	1	21-Jul-16	21-Jul-16	Submit QA/QC Plan to VDOT																		
6	VDOT Review QA/QC Plan	21	22-Jul-16	11-Aug-16	VDOT Review QA/QC Plan																		
138	Revise and Resubmit QA/QC Plan	8	12-Aug-16	19-Aug-16	Revise and Resubmit QA/QC Plan																		
139	VDOT Review and Approve QA/QC Plan	21	20-Aug-16	09-Sep-16	VDOT Review and Approve QA/QC Plan																		
Scope Validation Period					84	21-Jun-16	18-Oct-16	18-Oct-16, Scope Validation Period															
8	Scope Validation Investigations and Findings Report Submittal	120	21-Jun-16	18-Oct-16	Scope Validation Investigations and Findings Report Submittal																		
Supplemental Field Surveys					27	21-Jun-16	29-Jul-16	29-Jul-16, Supplemental Field Surveys															
14	Prepare & Send Property Owner Notification Letters for Survey	15	21-Jun-16	13-Jul-16	Prepare & Send Property Owner Notification Letters for Survey																		
65	Supplemental Field Surveys	38	21-Jun-16	29-Jul-16	Supplemental Field Surveys																		
Geotechnical Engineering Analysis and Reports					71	21-Jun-16	01-Oct-16	01-Oct-16, Geotechnical Engineering Analysis and Reports															
146	Perform Boring Logs and Lab Work	9	21-Jun-16	30-Jun-16	Perform Boring Logs and Lab Work																		
48	Prepare Geotechnical Report and Recommendations	29	30-Jun-16	29-Jul-16	Prepare Geotechnical Report and Recommendations																		
178	QA/QC and Submit Geotech Report	7	29-Jul-16	09-Aug-16	QA/QC and Submit Geotech Report																		
56	VDOT Review Geotechnical Report	21	09-Aug-16	30-Aug-16	VDOT Review Geotechnical Report																		
136	Revise/Resubmit Geotechnical Report	11	30-Aug-16	10-Sep-16	Revise/Resubmit Geotechnical Report																		
316	VDOT Review and Approval of Geotechnical Report	21	10-Sep-16	01-Oct-16	VDOT Review and Approval of Geotechnical Report																		
Environmental and Permits					84	21-Jun-16	18-Oct-16	18-Oct-16, Environmental and Permits															
70	Water Quality Permit (DEQ) - VDOT to Provide	102	21-Jun-16	30-Sep-16	Water Quality Permit (DEQ) - VDOT to Provide																		
C1640	Noise Analysis, Reports, Review Approval	120	21-Jun-16	18-Oct-16	Noise Analysis, Reports, Review Approval																		
100	VDOT Issues RFP VPDES Construction Permit	1	21-Jun-16	21-Jun-16	VDOT Issues RFP VPDES Construction Permit																		
84	Prepare SWPPP, SWM, & LD-445 for VPDES Permit Revision	15	21-Jun-16	05-Jul-16	Prepare SWPPP, SWM, & LD-445 for VPDES Permit Revision																		
74	VDOT Review SWPPP, SWM, & LD-445	21	06-Jul-16	26-Jul-16	VDOT Review SWPPP, SWM, & LD-445																		
105	VDOT Issues Revised VPDES	20	27-Jul-16	15-Aug-16	VDOT Issues Revised VPDES																		
80	VDOT Provide Special Programmatic General Permit (SPGP)	40	22-Aug-16	30-Sep-16	VDOT Provide Special Programmatic General Permit (SPGP)																		
90	Transfer SPGP to D-B	15	01-Oct-16	15-Oct-16	Transfer SPGP to D-B																		
Roadway					133	24-Jun-16	03-Jan-17	03-Jan-17, Roadway															
346	Prepare 90% Roadway Plan & AWP	72	24-Jun-16	03-Sep-16	Prepare 90% Roadway Plan & AWP																		
221	Design QA/QC Review of 90% Roadway Plans	10	04-Sep-16	13-Sep-16	Design QA/QC Review of 90% Roadway Plans																		
82	VDOT Review 90% Roadway Plans	21	01-Oct-16	22-Oct-16	VDOT Review 90% Roadway Plans																		
163	Revise/Resubmit 90% Roadway Plans	16	22-Oct-16	07-Nov-16	Revise/Resubmit 90% Roadway Plans																		
175	VDOT Review Revised 90% Roadway Plans	21	07-Nov-16	28-Nov-16	VDOT Review Revised 90% Roadway Plans																		
195	Roadway Final Revisions	14	28-Nov-16	12-Dec-16	Roadway Final Revisions																		
205	Prepare RFC Roadway Plans for Submission	1	12-Dec-16	13-Dec-16	Prepare RFC Roadway Plans for Submission																		
215	VDOT Review AFC Plans	21	13-Dec-16	03-Jan-17	VDOT Review AFC Plans																		

█ Actual Work
 █ Critical Remaining Work
 Summary
█ Remaining Work
 ◆ Milestone

Activity ID	Activity Name	Original Duration	Start	Finish	Classic Schedule Layout																		
					Qtr 3, 2016			Qtr 4, 2016			Qtr 1, 2017			Qtr 2, 2017		Qtr 3, 2017		Qtr 4, 2017		Qtr 1, 2018		Qtr 2, 2018	
					2	2	2	2	2	2	2	2	2	2	2								
Hydraulics					17-Nov-16, Hydraulics																		
C1920	Prepare Revised Drainage/SWM/E&S Ph. 2 Plans	61	05-Jul-16	03-Sep-16	Prepare Revised Drainage/SWM/E&S Ph. 2 Plans																		
C1930	VDOT Review Revised Drainage/SWM/E&S Ph. 2 Plans	21	01-Oct-16	22-Oct-16	VDOT Review Revised Drainage/SWM/E&S Ph. 2 Plans																		
C1980	Address VDOT Comments Revised Drainage/SWM/E&S Ph. 2 Plans	5	22-Oct-16	27-Oct-16	Address VDOT Comments Revised Drainage/SWM/E&S Ph. 2 Plans																		
C1990	VDOT Review and Approve Revised Drainage/SWM/E&S Ph. 2 Plans	21	27-Oct-16	17-Nov-16	VDOT Review and Approve Revised Drainage/SWM/E&S Ph. 2 Plans																		
ITS/Lighting/Signage					26-Nov-16, ITS/Lighting/Signage																		
C1940	Prepare ITS/Lighting/Signage	61	05-Jul-16	03-Sep-16	Prepare ITS/Lighting/Signage																		
C1950	VDOT Review ITS/Lighting/Signage	21	01-Oct-16	22-Oct-16	VDOT Review ITS/Lighting/Signage																		
C1960	Address VDOT Comments ITS/Lighting/Signage	14	22-Oct-16	05-Nov-16	Address VDOT Comments ITS/Lighting/Signage																		
C1970	VDOT Review and Approve ITS/Lighting/Signage	21	05-Nov-16	26-Nov-16	VDOT Review and Approve ITS/Lighting/Signage																		
CONSTRUCTION																							
259	Project Management & QA/QC	793	21-Jun-16	22-Aug-18																			
134	Mobilization	12	16-Aug-16	31-Aug-16	Mobilization																		
C1230	TMS Testing & Integration Level A & B (Areas 1 & 2)	30	02-Aug-17	31-Aug-17	TMS Testing & Integration Level A & B (Areas 1 & 2)																		
C1890	TMS Testing & Integration Level C (Areas 1 & 2)	90	01-Sep-17	29-Nov-17	TMS Testing & Integration Level C (Areas 1 & 2)																		
C1870	TMS Testing & Integration Level A & B (Area 4)	30	07-Feb-18	08-Mar-18	TMS Testing & Integration Level A & B (Area 4)																		
258	TMP Testing & Integration Level C (Area 4)	90	24-May-18	21-Aug-18	TMP Testing & Integration Level C (Area 4)																		
248	Punch List	25	11-Jul-18	04-Aug-18	Punch List																		
Submittal, Shop Drawing, & Fabrication Lead Time					13-Jul-17, Submittal, Shop Drawing, & Fabrication Lead Time																		
C2040	Generator Submittal Prep	7	26-Nov-16	03-Dec-16	Generator Submittal Prep																		
C2050	ITS Hardware / Structures / CCTV Submittal Prep	14	26-Nov-16	10-Dec-16	ITS Hardware / Structures / CCTV Submittal Prep																		
C2060	Lighting Submittal Prep	7	26-Nov-16	03-Dec-16	Lighting Submittal Prep																		
C2070	DMS Submittal Prep	7	26-Nov-16	03-Dec-16	DMS Submittal Prep																		
C2080	Bore Samples for ITS Poles	22	26-Nov-16	18-Dec-16	Bore Samples for ITS Poles																		
C2000	Generator Submittal Approval	21	03-Dec-16	24-Dec-16	Generator Submittal Approval																		
C2020	Lighting Submittal Approval	21	03-Dec-16	24-Dec-16	Lighting Submittal Approval																		
C2030	DMS Submittal Approval	21	03-Dec-16	24-Dec-16	DMS Submittal Approval																		
C1900	Prepare and Submit ITS Pole Foundation Designs	14	18-Dec-16	01-Jan-17	Prepare and Submit ITS Pole Foundation Designs																		
C2090	Generator Fabrication	91	24-Dec-16	25-Mar-17	Generator Fabrication																		
C2100	DMS Fabrication	120	24-Dec-16	23-Apr-17	DMS Fabrication																		
C2110	Lighting Poles & Fixtures Fabrication	70	24-Dec-16	04-Mar-17	Lighting Poles & Fixtures Fabrication																		
C2140	Lighting Control Cabinet Fabrication	90	24-Dec-16	24-Mar-17	Lighting Control Cabinet Fabrication																		
C1910	VDOT Approve ITS Pole Foundation Design	21	01-Jan-17	22-Jan-17	VDOT Approve ITS Pole Foundation Design																		
C1340	Soundwall Shop Drawing Design	30	03-Jan-17	14-Feb-17	Soundwall Shop Drawing Design																		
C2010	ITS Hardware / Structures / CCTV Submittal Approval	21	22-Jan-17	12-Feb-17	ITS Hardware / Structures / CCTV Submittal Approval																		
C2120	Gate Fabrication	70	12-Feb-17	23-Apr-17	Gate Fabrication																		
C2130	ITS Cabinets/UPS/Structures/Cameras Fabrication	1	12-Feb-17	13-Feb-17	ITS Cabinets/UPS/Structures/Cameras Fabrication																		
C1350	VDOT Soundwall Shop Drawing Review and Approval	21	14-Feb-17	07-Mar-17	VDOT Soundwall Shop Drawing Review and Approval																		
C1330	Soundwall Fabrication	90	07-Mar-17	13-Jul-17	Soundwall Fabrication																		
Area 1, Sta. 2193+00 to 2244+00					23-Oct-17, Area 1, Sta. 2193+00 to 2244+00																		
C1000	MOT/Construction Entrances	6	01-Sep-16	09-Sep-16	MOT/Construction Entrances																		
C1010	E&S Phase 1	4	12-Sep-16	15-Sep-16	E&S Phase 1																		
C1020	Clearing	20	16-Sep-16	13-Oct-16	Clearing																		
C1150	Grade Generator Sites	5	14-Oct-16	20-Oct-16	Grade Generator Sites																		
C1040	Deep Drainage	6	19-Oct-16	26-Oct-16	Deep Drainage																		
C1050	Cut to Fill	90	27-Oct-16	22-Jun-17	Cut to Fill																		
C1170	Lighting	33	24-Mar-17	10-May-17	Lighting																		

█ Actual Work
 █ Critical Remaining Work
 Summary
█ Remaining Work
 ◆ Milestone

Activity ID	Activity Name	Original Duration	Start	Finish	Qtr 3, 2016		Qtr 4, 2016			Qtr 1, 2017			Qtr 2, 2017		Qtr 3, 2017		Qtr 4, 2017		Qtr 1, 2018		Qtr 2, 2018		Qtr 3, 2018		
					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
C1190	Installation & Inspection of Generator/Power Sites	12	27-Mar-17	11-Apr-17																					
C1220	Energizing of Generator Sites (DVP)	112	12-Apr-17	01-Aug-17																					
C1060	Conduit & Cabling for TMS, Signs, Lighting	40	27-Apr-17	22-Jun-17																					
C1160	ITS Hardware / Structures / CCTV	52	27-Apr-17	11-Jul-17																					
C1070	Surface Drainage	20	11-May-17	08-Jun-17																					
C1080	Box and Balance	10	23-Jun-17	07-Jul-17																					
C1200	Drainage Outfalls	5	23-Jun-17	29-Jun-17																					
C1260	Permanent Barrier	5	23-Jun-17	29-Jun-17																					
C1090	Underdrain	16	30-Jun-17	25-Jul-17																					
C1120	Subbase Shoulders 21B 21"	12	11-Jul-17	27-Jul-17																					
C1100	Subbase CTA 6"	7	27-Jul-17	07-Aug-17																					
C1360	Permanent Signs	40	27-Jul-17	22-Sep-17																					
C1110	Subbase OGD 3"	3	02-Aug-17	07-Aug-17																					
C1130	Base Asphalt	10	07-Aug-17	21-Aug-17																					
C1140	Intermediate Asphalt	2	21-Aug-17	23-Aug-17																					
C1310	Final Dress	15	14-Sep-17	05-Oct-17																					
C1320	Permanent Stabilization	15	21-Sep-17	12-Oct-17																					
C1240	Guard Rail	5	05-Oct-17	12-Oct-17																					
C1210	Milling / Surface Paving	5	12-Oct-17	19-Oct-17																					
C1250	Pavement Markings	2	19-Oct-17	23-Oct-17																					
Area 2, Sta. 2244+00 to 2310+00		285	01-Sep-16	13-Oct-17																					
C1370	MOT/Construction Entrances	6	01-Sep-16	09-Sep-16																					
C1380	E&S Phase 1	4	12-Sep-16	15-Sep-16																					
C1390	Clearing	20	16-Sep-16	13-Oct-16																					
C1420	SWMB	20	14-Oct-16	10-Nov-16																					
C1410	Deep Drainage	6	19-Oct-16	26-Oct-16																					
C1430	Cut to Fill	83	11-Nov-16	28-Jun-17																					
C1440	Conduit and Cabling for TMS, Signs, Lighting	40	17-May-17	13-Jul-17																					
C1520	ITS Hardware / Structures / CCTV	40	24-May-17	20-Jul-17																					
C1470	Surface Drainage	20	01-Jun-17	28-Jun-17																					
C1540	DMS	28	12-Jun-17	20-Jul-17																					
C1480	Box and Balance	10	19-Jun-17	30-Jun-17																					
C1490	Underdrain	15	26-Jun-17	17-Jul-17																					
C1460	Drainage Outfalls	5	29-Jun-17	06-Jul-17																					
C1500	Subbase Shoulders 21B 21"	12	10-Jul-17	25-Jul-17																					
C1510	Subbase CTA 6"	5	26-Jul-17	01-Aug-17																					
C1550	Subbase OGD 3"	3	02-Aug-17	04-Aug-17																					
C1580	Permanent Signs	40	02-Aug-17	27-Sep-17																					
C1560	Base Asphalt	8	07-Aug-17	16-Aug-17																					
C1570	Intermediate Asphalt	2	17-Aug-17	18-Aug-17																					
C1600	Guard Rail	5	21-Aug-17	25-Aug-17																					
C1620	Milling / Surface Paving	4	28-Aug-17	31-Aug-17																					
C1630	Pavement Markings	2	01-Sep-17	05-Sep-17																					
C1590	Final Dress	15	21-Sep-17	11-Oct-17																					
C1610	Permanent Stabilization	15	25-Sep-17	13-Oct-17																					
Area 3, Sta. 83+00 to 121+00		17	21-Aug-17	13-Sep-17																					
C1650	Mill and Overlay	4	21-Aug-17	24-Aug-17																					

█ Actual Work
 █ Critical Remaining Work
 Summary
█ Remaining Work
 ◆ Milestone

Activity ID	Activity Name	Original Duration	Start	Finish	Qtr 3, 2016			Qtr 4, 2016			Qtr 1, 2017			Qtr 2, 2017		Qtr 3, 2017		Qtr 4, 2017		Qtr 1, 2018		Qtr 2, 2018		Qtr 3, 2018		
					2	2	2	2	2	2	2	2	2	2	2											
C1660	Permanent Barrier Wall	10	25-Aug-17	08-Sep-17																						
C1670	Pavment Markings	3	11-Sep-17	13-Sep-17																						
Area 4, Sta. 3144+00 3234+00 NB Ramp		268	23-Jun-17	12-Jul-18																						
C1690	Conduit for TMS, Signs, Lighting	10	23-Jun-17	07-Jul-17																						
C1680	Cut to Fill	30	12-Oct-17	22-Nov-17																						
C1700	ITS Hardware / Structures / CCTV	20	26-Oct-17	22-Nov-17																						
C1730	Surface Drainage	20	24-Nov-17	21-Dec-17																						
C1710	Lighting	30	24-Nov-17	08-Jan-18																						
C1720	DMS	21	24-Nov-17	22-Dec-17																						
C1880	Gates	50	24-Nov-17	05-Feb-18																						
C1740	Box and Balance	10	16-Mar-18	29-Mar-18																						
C1750	Underdrain	8	30-Mar-18	10-Apr-18																						
C1760	Subbase Shoulders 21B 21"	10	11-Apr-18	24-Apr-18																						
C1770	Subbase CTA 6"	10	25-Apr-18	08-May-18																						
C1780	Subbase OGD 3"	3	09-May-18	11-May-18																						
C1790	Base Asphalt	5	14-May-18	18-May-18																						
C1800	Intermediate Asphalt	3	21-May-18	23-May-18																						
C1810	Permanent Signs	20	21-May-18	15-Jun-18																						
C1820	Final Dress	10	18-Jun-18	29-Jun-18																						
C1830	Guard Rail	5	02-Jul-18	06-Jul-18																						
C1840	Permanent Stabilization	5	02-Jul-18	06-Jul-18																						
C1850	Milling / Surface Paving	4	09-Jul-18	12-Jul-18																						
C1860	Pavement Markings	2	09-Jul-18	10-Jul-18																						
Area 5, Soundwalls		307	03-Jan-17	16-Mar-18																						
C1270	Soundwall Clearing	10	03-Jan-17	17-Jan-17																						
C1280	Soundwall Bench and Access	40	29-Jun-17	24-Aug-17																						
C1290	Soundwall Posts	60	25-Aug-17	17-Nov-17																						
C1300	Soundwall Panels	60	20-Nov-17	14-Feb-18																						
C1400	Final Grade Around Soundwalls	30	15-Feb-18	16-Mar-18																						

█ Actual Work
 █ Critical Remaining Work
 ▶ Summary
█ Remaining Work
 ◆ Milestone

Activity ID	Activity Name	Original Duration	Start	Finish	Qtr 3, 2016			Qtr 4, 2016			Qtr 1, 2017			Qtr 2, 2017		Qtr 3, 2017		Qtr 4, 2017		Qtr 1, 2018		Qtr 2, 2018		Qtr 3, 2018							
					2	2	2	2	2	2	2	2	2	2	2																
I-95 Express Lanes - Southern Terminus Extension					554	21-Jun-16	22-Aug-18																								
I-95 Express Lanes					554	21-Jun-16	22-Aug-18																								
Project Milestones					554	21-Jun-16	22-Aug-18																								
1	Contract NTP	0	21-Jun-16*		Contract NTP																										
249	Final Completion	0		22-Aug-18*																											
Design, Right-of-Way & Permitting					39	21-Jun-16	15-Aug-16	15-Aug-16, Design, Right-of-Way & Permitting																							
QA/QC Plan					0																										
Scope Validation Period					0																										
Supplemental Field Surveys					0																										
Geotechnical Engineering Analysis and Reports					0																										
Environmental and Permits					39	21-Jun-16	15-Aug-16	15-Aug-16, Environmental and Permits																							
84	Prepare SWPPP, SWM, & LD-445 for VPDES Permit Revision	15	21-Jun-16	05-Jul-16	Prepare SWPPP, SWM, & LD-445 for VPDES Permit Revision																										
74	VDOT Review SWPPP, SWM, & LD-445	21	06-Jul-16	26-Jul-16	VDOT Review SWPPP, SWM, & LD-445																										
105	VDOT Issues Revised VPDES	20	27-Jul-16	15-Aug-16	VDOT Issues Revised VPDES																										
Roadway					0																										
Hydraulics					0																										
ITS/Lighting/Signage					0																										
CONSTRUCTION					514	16-Aug-16	21-Aug-18																								
134	Mobilization	12	16-Aug-16	31-Aug-16	Mobilization																										
258	TMP Testing & Integration Level C (Area 4)	90	24-May-18	21-Aug-18																											
Submittal, Shop Drawing, & Fabrication Lead Time					0																										
Area 1, Sta. 2193+00 to 2244+00					0																										
Area 2, Sta. 2244+00 to 2310+00					283	01-Sep-16	11-Oct-17	11-Oct-17, Area 2, Sta. 2244+00 to 2310+00																							
C1370	MOT/Construction Entrances	6	01-Sep-16	09-Sep-16	MOT/Construction Entrances																										
C1380	E&S Phase 1	4	12-Sep-16	15-Sep-16	E&S Phase 1																										
C1390	Clearing	20	16-Sep-16	13-Oct-16	Clearing																										
C1420	SWMB	20	14-Oct-16	10-Nov-16	SWMB																										
C1430	Cut to Fill	83	11-Nov-16	28-Jun-17	Cut to Fill																										
C1470	Surface Drainage	20	01-Jun-17	28-Jun-17	Surface Drainage																										
C1480	Box and Balance	10	19-Jun-17	30-Jun-17	Box and Balance																										
C1490	Underdrain	15	26-Jun-17	17-Jul-17	Underdrain																										
C1500	Subbase Shoulders 21B 21"	12	10-Jul-17	25-Jul-17	Subbase Shoulders 21B 21"																										
C1510	Subbase CTA 6"	5	26-Jul-17	01-Aug-17	Subbase CTA 6"																										
C1580	Permanent Signs	40	02-Aug-17	27-Sep-17	Permanent Signs																										
C1590	Final Dress	15	21-Sep-17	11-Oct-17	Final Dress																										
Area 3, Sta. 83+00 to 121+00					0																										
Area 4, Sta. 3144+00 3234+00 NB Ramp					157	12-Oct-17	23-May-18	23-May-18, Area 4																							
C1680	Cut to Fill	30	12-Oct-17	22-Nov-17	Cut to Fill																										
C1730	Surface Drainage	20	24-Nov-17	21-Dec-17	Surface Drainage																										
C1740	Box and Balance	10	16-Mar-18	29-Mar-18	Box and Balance																										
C1750	Underdrain	8	30-Mar-18	10-Apr-18	Underdrain																										
C1760	Subbase Shoulders 21B 21"	10	11-Apr-18	24-Apr-18	Subbase Shoulders 21B 21"																										
C1770	Subbase CTA 6"	10	25-Apr-18	08-May-18	Subbase CTA 6"																										
C1780	Subbase OGD 3"	3	09-May-18	11-May-18	Subbase OGD 3"																										
C1790	Base Asphalt	5	14-May-18	18-May-18	Base Asphalt																										
C1800	Intermediate Asphalt	3	21-May-18	23-May-18	Intermediate Aspha																										
Area 5, Soundwalls					0																										

█ Actual Work
 █ Critical Remaining Work
 ▼ Summary
█ Remaining Work
 ◆ Milestone

Activity ID	Activity Name	Original Duration	Start	Finish	Qtr 3, 2016		Qtr 4, 2016		Qtr 1, 2017		Qtr 2, 2017		Qtr 3, 2017		Qtr 4, 2017		Qtr 1, 2018		Qtr 2, 2018		Qtr 3, 2018				
					2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
I-95 Express Lanes - Southern Terminus Extension					369	21-Jun-16	30-Nov-17	30-Nov-17, I-95 Express Lanes - Southern Terminus Extension																	
I-95 Express Lanes					369	21-Jun-16	30-Nov-17	30-Nov-17, I-95 Express Lanes																	
Project Milestones					369	21-Jun-16	30-Nov-17	30-Nov-17, Project Milestones																	
1	Contract NTP	0	21-Jun-16*		Contract NTP																				
366	Final Geotech Report Complete	0		01-Oct-16	◆ Final Geotech Report Complete																				
247	Substantial Completion (Interim Milestone)	0		30-Nov-17*	◆ Substantial Completion (Interim Milestone)																				
Design, Right-of-Way & Permitting					110	21-Jun-16	26-Nov-16	26-Nov-16, Design, Right-of-Way & Permitting																	
QA/QC Plan					0																				
Scope Validation Period					0																				
Supplemental Field Surveys					0																				
Geotechnical Engineering Analysis and Reports					71	21-Jun-16	01-Oct-16	01-Oct-16, Geotechnical Engineering Analysis and Reports																	
146	Perform Boring Logs and Lab Work	9	21-Jun-16	30-Jun-16	Perform Boring Logs and Lab Work																				
48	Prepare Geotechnical Report and Recommendations	29	30-Jun-16	29-Jul-16	Prepare Geotechnical Report and Recommendations																				
178	QA/QC and Submit Geotech Report	7	29-Jul-16	09-Aug-16	QA/QC and Submit Geotech Report																				
56	VDOT Review Geotechnical Report	21	09-Aug-16	30-Aug-16	VDOT Review Geotechnical Report																				
136	Revise/Resubmit Geotechnical Report	11	30-Aug-16	10-Sep-16	Revise/Resubmit Geotechnical Report																				
316	VDOT Review and Approval of Geotechnical Report	21	10-Sep-16	01-Oct-16	VDOT Review and Approval of Geotechnical Report																				
Environmental and Permits					0																				
Roadway					15	01-Oct-16	22-Oct-16	22-Oct-16, Roadway																	
82	VDOT Review 90% Roadway Plans	21	01-Oct-16	22-Oct-16	VDOT Review 90% Roadway Plans																				
Hydraulics					0																				
ITS/Lighting/Signage					39	01-Oct-16	26-Nov-16	26-Nov-16, ITS/Lighting/Signage																	
C1950	VDOT Review ITS/Lighting/Signage	21	01-Oct-16	22-Oct-16	VDOT Review ITS/Lighting/Signage																				
C1960	Address VDOT Comments ITS/Lighting/Signage	14	22-Oct-16	05-Nov-16	Address VDOT Comments ITS/Lighting/Signage																				
C1970	VDOT Review and Approve ITS/Lighting/Signage	21	05-Nov-16	26-Nov-16	VDOT Review and Approve ITS/Lighting/Signage																				
CONSTRUCTION					257	26-Nov-16	29-Nov-17	29-Nov-17, CONSTRUCTION																	
C1230	TMS Testing & Integration Level A & B (Areas 1 & 2)	30	02-Aug-17	31-Aug-17	TMS Testing & Integration Level A & B (Areas 1 & 2)																				
C1890	TMS Testing & Integration Level C (Areas 1 & 2)	90	01-Sep-17	29-Nov-17	TMS Testing & Integration Level C (Areas 1 & 2)																				
Submittal, Shop Drawing, & Fabrication Lead Time					83	26-Nov-16	25-Mar-17	25-Mar-17, Submittal, Shop Drawing, & Fabrication Lead Time																	
C2040	Generator Submittal Prep	7	26-Nov-16	03-Dec-16	Generator Submittal Prep																				
C2000	Generator Submittal Approval	21	03-Dec-16	24-Dec-16	Generator Submittal Approval																				
C2090	Generator Fabrication	91	24-Dec-16	25-Mar-17	Generator Fabrication																				
Area 1, Sta. 2193+00 to 2244+00					90	27-Mar-17	01-Aug-17	01-Aug-17, Area 1, Sta. 2193+00 to 2244+00																	
C1190	Installation & Inspection of Generator/Power Sites	12	27-Mar-17	11-Apr-17	Installation & Inspection of Generator/Power Sites																				
C1220	Energizing of Generator Sites (DVP)	112	12-Apr-17	01-Aug-17	Energizing of Generator Sites (DVP)																				
Area 2, Sta. 2244+00 to 2310+00					0																				
Area 3, Sta. 83+00 to 121+00					0																				
Area 4, Sta. 3144+00 3234+00 NB Ramp					0																				
Area 5, Soundwalls					0																				

█ Actual Work
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VOLUME 2: Conceptual Plans and Proposal Schedule

A Design-Build Project

I-95 Express Lanes – Southern Terminus Extension

Stafford County, Virginia

State Project No.: 0095-969-720, P101, R201, C501

Federal Project No.: STP-000S (321)

Contract ID Number: C00108315DB90



In Conjunction With:



In Association With:

Chesapeake Electrical Systems, Inc.
H&B Surveying & Mapping, LLC (DBE)
Froehling & Robertson, Inc. (SWaM)
Engineering & Materials Technology, Inc. (DBE)