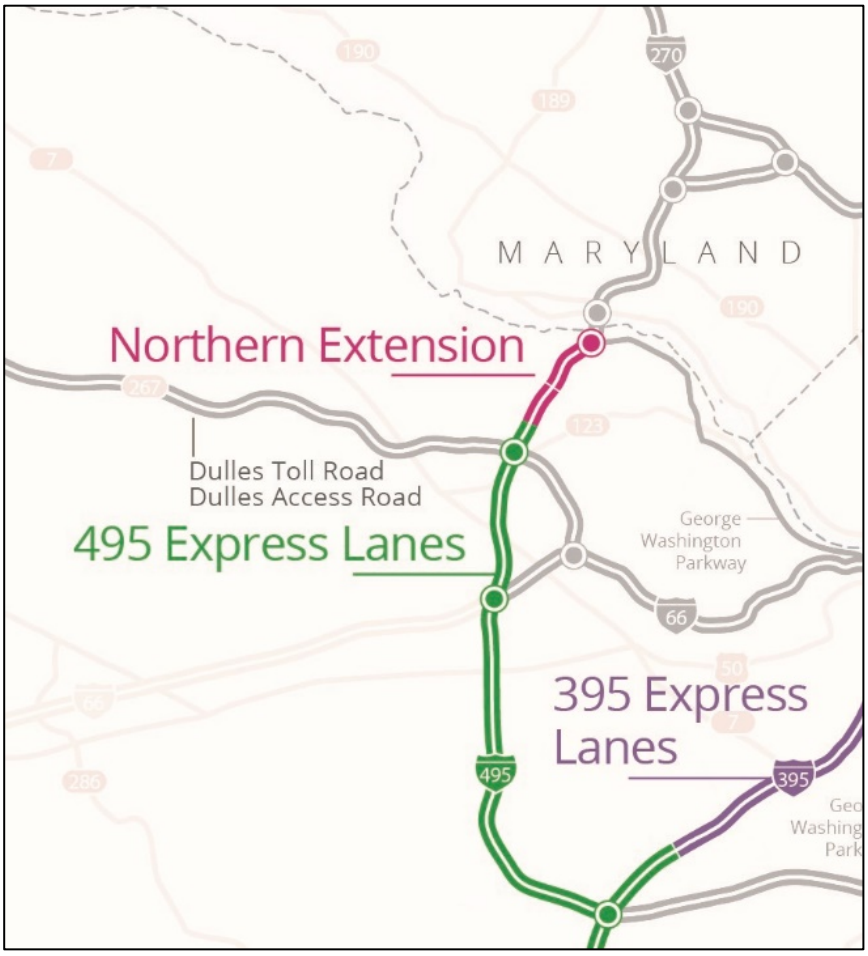
Attachment 1.0

Scope of Work

495 EXPRESS LANES NORTHERN EXTENSION
SCOPE OF WORK

Project NEXT is an extension of the 495 HOV/HOT Lanes (Express Lanes) in Fairfax County, Virginia. As shown below, the Project will extend along Interstate 495 (I-495) from the current northern terminus of the 495 Express Lanes near Old Dominion Drive (Route 738) to the vicinity of the George Washington Memorial Parkway (GW Parkway), and improvements to the Dulles Toll Road, Georgetown Pike and GW Parkway interchanges, existing bridges and the General Purpose lanes. I-495 currently operates with four General Purpose lanes in each direction along the Project corridor.



The primary objective of the Project is to extend the 495 Express Lanes further north to provide additional capacity in the corridor, which will be available at no charge to HOV 3+ vehicles, and open to other authorized vehicles paying a toll. This extension will be subject to the same operating rules and regulations as the existing 495 Express Lanes, and when complete, will operate as a

single, fully integrated 495 Express Lanes facility between the Springfield Interchange and the GW Parkway.

The final design and construction of Project NEXT also shall not preclude the ultimate planned roadways as shown in the *Future Project NEXT Phase 2 Concept Roll Plots*, *2045 Design Year Concept Roll Plots* provided in Appendix A.

A full description of the scope of work and requirements for Project NEXT is provided below.

Roadway Alignment

The NEXT Express Lanes conceptual roadway alignment and profile has been determined after an analysis of numerous alternatives and coordination with VDOT and the Federal Highway Administration (FHWA). The Design-Builder shall provide a NEXT Express Lanes alignment design that is in accordance with the Technical Requirements and consistent with the Request for Proposal (RFP) Conceptual Plans shown in Appendix A. The two Express Lanes shall be located on the inside of the General Purpose lanes within the I-495 corridor. Additional details on the conceptual roadway alignment and typical sections are provided in Appendix A. The new NEXT Express Lanes shall be located to the inside and separated from the I-495 General Purpose lanes by a four-foot buffer and a row of plastic bollards spaced at 8 foot on center, similar to the existing 495 Express Lanes.

- Approximately two miles of new two-lane Express Lanes in each direction (with full shoulders) from the existing northern terminus near Old Dominion Drive (Route 738) to the vicinity of the GW Parkway.
- New northbound I-495 General Purpose (GP) Auxiliary Lane between Dulles Toll Road (DTR) and Georgetown Pike (Route 193)
- New HOT Lanes (Express Lanes) access points with adequate merge lengths as follows (at-grade HOT Lanes access points other than those stated below are prohibited):
    - Dulles Toll Road EB to 495 Express Lanes NB Ramp E1, including necessary adjustments to the existing GP lane Ramp D2)
    - Dulles Toll Road EB to 495 Express Lanes SB
    - Dulles Toll Road WB to 495 Express Lanes NB (Ramp E3)
    - GW Parkway WB to 495 Express Lanes SB
    - 495 Express Lanes NB to GW Parkway EB

Pavement

The Design-Builder shall be responsible for the design and construction of the paving elements including necessary geotechnical evaluations, geotechnical improvements, full depth asphalt pavement, and asphalt mill and overlay.

The locations for new pavement and mill and overlay areas are provided in the RFP Conceptual Plans and Technical Requirements. The Design-Builder shall be responsible for the final design and construction of all pavements in accordance with the Technical Requirements.

Bridges and Retaining Walls

The Design-Builder shall be responsible for the design and construction of required bridge and structural elements:

- Replacement of existing four bridges:
  - Live Oak Drive over I-495 (with bicycle/pedestrian facilities added)
  - Georgetown Pike over I-495 (with bicycle/pedestrian facilities added); including provisions for future Express Lanes ramp(s).
  - Old Dominion Drive over I-495 (with bicycle/pedestrian facilities added)
  - I-495 General Purpose Lanes NB over Dulles Toll Road EB to 495 NB Express Lanes and General Purpose Lanes (bridge over Ramp D2)
- Construction of four new Express Lane ramps and bridges:
  - GW Parkway WB to 495 Express Lanes SB
  - 495 Express Lanes NB to GW Parkway EB
  - Dulles Toll Road EB to 495 Express Lanes NB over Dulles Airport Access Road
  - Dulles Toll Road EB to 495 Express Lanes NB over Dulles Toll Road/I-495 GP NB
- Modification of existing bridges:
  - I-495 GP and Express Lanes over Scott's Run Creek (widening)
  - George Washington Memorial Parkway over the GP (rehabilitation)
  - Lewinsville Road over I-495 (sidewalk modifications)
- Repair, reconstruction, and/or replacement of existing concrete barriers including construction of bridge pier protection; and
- Construction of new retaining walls and repair and/or modification of existing retaining walls.

Other Structures

The Design-Builder shall be responsible for the design, required repairs and construction of existing structures and new structures associated with the Project NEXT, including but not limited to:

- Repair, removal, and/or modification of existing overhead sign structures;
- Design and construction of proposed overhead sign structures;

- Design and construction of proposed light poles and miscellaneous lighting structures;
- Design and construction of noise barriers at approved locations;
- Design and construction of TMS roadside equipment and associated infrastructure; and
- Removal and disposal of existing structures as required.

Drainage and Storm Water Management

The Design-Builder shall be responsible for the design and construction of the integrated storm water conveyance system (including but not limited to culverts, junction boxes, storm sewers, erosion control, sediment control, outfall conveyance channels through the Project NEXT area) to meet all applicable hydraulic requirements, including current Federal Emergency Management Administration, FHWA, and VDOT guidelines and standards as described in the VDOT Drainage Manual, Hydraulic Design Advisories and applicable Informational and Instructional Memoranda.

Part II-C criteria of the Virginia Stormwater Management Protection Regulations applies for water quality control of the Project NEXT. Performance Based Methods shall be used for determining post construction phosphorous removal and nutrient credit requirements. Nutrient credits may be used in lieu of on-site stormwater management facilities as specified in the Technical Requirements.

Signing and Pavement Markings

The Design-Builder shall be responsible for the design and construction of roadway signing for all new signs necessary for the safe operations of the Project NEXT. Design-Builder shall replace, reuse, relocate or modify all existing ground mounted and overhead mounted signs and sign structures that are affected by the Project NEXT. Any signing on adjacent roadways beyond the Project NEXT limits that require relocation, replacement, or modification due to the proposed design shall be the responsibility of Design-Builder.

Existing traffic structures that are impacted by the addition, removal or replacement of sign panels, dynamic message signs, variable message signs, including structures with signage that are outside the Project NEXT limits, shall be identified; any required repairs or upgrades shall be Design-Builder's responsibility. . The signing design shall include a Sign Sequencing Plan and a Sign Unveiling Plan the installation of new or replacement signs.

The Design-Builder shall design and construct all pavement markings, markers, and delineators as described in the Technical Requirements.

Traffic Management System (TMS) Roadside Equipment

The Design-Builder shall design and construct the TMS roadside equipment needed for the operation of Project NEXT. The Design-Builder's scope includes, TMS roadside equipment elements:

- Dynamic message signs (DMS) to provide tolling and driver information;
- Pan-tilt-zoom closed-circuit television (CCTV) and automated incident detection (AID) cameras to provide video surveillance;
- Microwave vehicle detectors (MVDS) to monitor and report real-time traffic volume, lane occupancy and speed data on the Express Lanes and GP lanes;
- Generator sites and telemetry equipment to support roadside equipment;
- A fully redundant fiber optic communication network.;
- TMS roadside equipment cabinets and hub sites;
- A power distribution system with back-up generators and uninterruptible power supplies; and
- Testing and commissioning of the TMS roadside equipment with the existing 495 Express Lanes Tolling and Traffic Management System.

The Design-Builder shall also relocate any existing VDOT ITS roadside equipment located within the Project limits that is affected by construction, including power and communication service to the equipment.

Systems Integration and Design-Builder Interface

Integration and commissioning of the TMS devices and equipment into the existing Express Lanes operating systems will be performed by the designated TMS Subcontractor (Transurban (USA) Inc.) The TMS Interface Plan shall identify the responsibilities of the Design-Builder and TMS Subcontractor as they pertain to the Project NEXT TMS and system integration. Generally, the Design-Builder will perform the management, design, procurement, construction, installation, testing and commissioning of all TMS roadside equipment and necessary supporting infrastructure. The TMS Subcontractor will be responsible for systems integration design, testing, and commissioning into the existing Back Office Systems (BOS). The Design-Builder shall effectively and continuously coordinate with the TMS Subcontractor throughout the duration of the project. The TMS Subcontractor scope is more specifically stated below:

A. ETC/BOS Requirements

- Incorporate MVDS data from new field devices into Dynamic Pricing System
- Configure BOS to command pricing messages on new DMSs
- Update BOS reports to reflect modifications to road network and pricing zones

B. TMS Requirements

- Integrate Design-Builder provided DMS, MVDS, CCTV, and AID Cameras
- Integrate additional AID camera feeds (if any)
- Communicate over NTCIP Compliant Center-to-Center network to provide motorist advisory and trip pricing information to an external agency
- Create/modify Dynamic Message Sign driver to support an NTCIP Compliant DMS (non-Daktronics)
- Update TMS graphics to reflect modifications to roadway configuration and additional field devices
- Incorporate new Roadside Equipment into TMS
- Update Reports to reflect additional field devices or pricing zones
- Integrate Center-to-Center traffic and incident data from a new external agency
- Coordinate TMS design with approved-for-construction plans from Design-Builder
- Conduct system verification in Test and Training environment prior to cutover to Production
- Conduct Integration Acceptance Testing and support of User Acceptance Testing

C. Network Requirements

- Create the Network Architecture for Project NEXT extension
- Create the detailed Level Network Design with IP schema and plan for Project NEXT extension
- Create the Network Security Architecture for Project NEXT extension
- Coordinate with an external agency to evaluate data exchange schemes that are mutually beneficial to sharing tolling and/or traffic data between agencies

D. MOMS Requirements

- Implement (configure and enable) monitoring across all new TMS roadside equipment

Additional information on the respective roles, responsibilities, and schedule requirements for TMS elements is provided in the TMS Interface Plan, Attachment 3.16c to the Technical Requirements.

Lighting

The Design-Builder shall be responsible for the design and construction of lighting required for Project NEXT and associated ramps. Service panels shall be designed for the new lighting power requirements. Existing service panels may be upgraded as needed to support lighting requirements as approved by the Concessionaire. Separate meters shall be provided for the Project NEXT lighting.

Traffic Signals

The Design-Builder shall be responsible for designing, coordinating and constructing traffic signals at the following locations:

- Georgetown Pike Route 193 – intersections with I-495 ramps.
- Lewinsville Road crosswalk (Rectangular Rapid-Flashing Beacons)

Maintenance of Traffic

VDOT will develop and administer an overall Transportation Management Plan for Project NEXT corridor that focuses on broader regional strategies and solutions to facilitate mobility and safety during the construction period. The Design-Builder shall be responsible for the preparation and implementation of a Project-wide Maintenance of Traffic Plan and associated construction phase or location-specific maintenance of traffic plans and traffic control plans in accordance with the applicable requirements in Part 2 (NEXT Technical Requirements). The Design-Builder shall maintain traffic and perform its work in accordance with these plans for the duration of the Project

Environmental

The Design-Builder shall ensure that the environmental commitments and all conditions of regulatory approvals made in the approved National Environmental Policy Act (NEPA) document(s) are implemented at the appropriate phase of the Project NEXT development. The Design-Builder shall be responsible for compliance with pre-construction, construction-related, and post-construction permit conditions.

The Design-Builder shall also develop and implement a comprehensive Environmental Management Plan and additional project-specific environmental controls (such as a Stormwater Pollution Prevention Plan, Erosion and Sediment Control Plan, and Stormwater Management Plan) and performing the Work in accordance with these approved plans and related specifications and standards.

Landscaping and Aesthetics

The Design-Builder shall provide landscaping (including re-vegetation of disturbed areas) and aesthetic treatments of structures in accordance with the Technical Requirements and any Section 4(f) or Section 6(f) mitigation requirements.

Noise Barriers

The Design-Builder shall be responsible for the design and construction of required noise barriers along the Project NEXT corridor (and connecting roadways, where applicable) as described in the Technical Requirements. The Design-Builder shall provide permanent noise mitigation and final sound barriers in compliance with the Virginia State Noise Abatement Policy and the Highway

Traffic Noise Impact Analysis Guidance Manual. The final noise barrier location(s) and dimension(s) at approved locations will be determined by the Design-Builder based on the results of the final Noise Abatement Design Report(s) prepared in accordance with the Technical Requirements.

Right of Way

The Design-Builder shall be responsible for all Right of Way acquisition, including dedications and easements (permanent and/or temporary) necessary for the construction and operation of the Project NEXT as described in the Technical Requirements. The Right of Way scope includes all services necessary to acquire the right-of-way. All right of way acquisitions and relocations shall be performed in accordance with VDOT Right of Way Manual and all applicable state and federal laws and regulations. The Design-Builder shall be responsible for right-of-way acquisition services and costs in accordance with the terms of the Design-Build Contract

Project NEXT will require acquisition of additional property rights outside the existing VDOT rights-of-way, as shown in the RFP Conceptual Plans. Should the Project NEXT Technical Requirements or the Design-Builder's final design and construction approach require additional right-of-way and/or easement acquisitions (including for temporary staging and laydown areas) not shown on the RFP Conceptual Plans, the Design-Builder shall also be responsible for any additional approvals required by the Concessionaire and VDOT, including any necessary public hearings.

Utilities

The Design-Builder shall be responsible for all Utility work necessary for the construction and operation of the Project NEXT, including the identification avoidance or adjustment (if necessary), and cost responsibility determination of any conflicting utilities as described in the Technical Requirements. Utility work includes all items necessary to provide new services, perform relocation(s) or adjustments and associated coordination with utility owners and/or owner's representatives. The Design-Builder shall be responsible for all costs associated with Utility work.

Permits

Other than the initial NEPA and FHWA approvals, and any other permits which are the responsibility of the Concessionaire per the Contract Documents, the Design-Builder shall be responsible for acquiring and maintaining in its name (or the Concessionaire's or VDOT's name, as applicable) all environmental, water quality, and other permits necessary for the construction of Project NEXT as described in the Technical Requirements. In those instances, where the Concessionaire or VDOT must be the permittee, the Design-Builder shall be responsible for preparing all necessary materials to support the issuance of a permit and ensuring compliance with the permit terms during the construction period.

Coordination with Third Parties

The Design-Builder shall be responsible for coordination with the affected public and private entities (third parties) and local jurisdictions necessary for the design and construction of the Project NEXT, including but not limited to VDOT, Fairfax County, Metropolitan Washington Airports Authority (MWAA), National Park Service (NPS), Fairfax County Park Authority (FCPA), Maryland Department of Transportation/ (MDOT) and permitting agencies (and authorities), utility owners, community and/or homeowner's associations, and private property or business owners.

Public Information and Communication Services

The Design-Builder shall provide the services of a Public Information Manager and adequate staff to support community outreach and information activities as described in the Technical Requirements. The Design-Builder will have primary responsibility for performing the project-specific day-to-day activities associated with the Design-Build activities.

Adjacent VDOT Project Coordination and Interface

Project NEXT will require interface and coordination with the operating 495 Express Lanes and other adjacent projects being delivered by VDOT, MWAA, NPS, Fairfax County, FCPA and/or MDOT projects that may be active in the area concurrently with the construction of Project NEXT. The Design-Builder shall coordinate and interface with the respective entity's project teams, including and their associated consultants and contractors throughout the duration of project to ensure that the respective activities are properly coordinated and scheduled. Cooperation between all parties is essential for the successful completion of Project NEXT.

APPENDIX A – RFP CONCEPTUAL PLANS

- RFP Conceptual Plan Sheets (11" x17") *dated September 30, 2020*
  - RFP Conceptual Plan Sheets - Revision 1 *dated November 13, 2020, containing:*
    - Roadway and Drainage Plans - Sheets 2A(6), 14
    - Retaining Wall Plans - Sheet 57
    - ITS/TMS Plans - Sheets CC2B, CC2C1, CC5, CC7, CC10, CC11, CC12, CC14, CC(E1), CC(E2), CC(F7), CC(F8), CC(F9), CC(G10), CC(G11), CC(G12), CC(G13)
    - Signing, Lighting and Pavement Marking Plans - Sheets SP(A3), SP(A6)
    - Structure and Bridge Plans - Sheets 2, 4, 6, 8, 10, 12, 14, 16, 17, 18, 19, 21, 23, 24, 25, 26
  - RFP Conceptual Plan Sheets - Revision 2 *dated December 18, 2020 containing:*
    - Roadway and Drainage Plans - Sheets 1C(1), 1C(3), 1G(1), 1G(7), 1G(8), 1G(9), 1G(10), 1G(11), 1G(12), 1G(18), 2A(3), 2A(7), 2A(8), 2A(13), 2A(14), 3, 4, 5,

6, 6RW, 7, 8, 8RW, 9, 9C, 9RW, 10, 10C, 10D, 10E, 10RW, 11, 11C, 11D, 11E, 11G, 11H, 11RW, 12, 12C, 12D, 12G, 12H, 12RW, 13, 14, 15, 19, 22, 22RW, 23, 23A, 23RW, 24RW, 25RW

- Retaining Wall Plans - Sheets 57, 58(3), 58(4), 58(5), 58(6), 63(1), 63(2), 64(2), 65(1), 65(2), 70(1), 70(2), 72(1), 72(2), 72(3), 72(4), 74
- ITS/TMS Plans - Sheets CC2C1, CC2C2, CC4, CC5, CC6, CC9, CC10, CC11, CC12, CC14, CC26, CC(E1), CC(E2), CC(F7), CC(F8), CC(G10), CC(G11), CC(G12), CC(H1), CC(H3), CC(H4), CC(H5), CC(H6), CC(H10)
- Signing, Lighting and Pavement Marking Plans - Sheets SP(2A), SP(A1), SP(A2), SP(A5), SP(A6)
- Traffic Signal Plans - Sheets TS(2), TS(3), TS(4)
- Structure and Bridge Plans - Sheets 10, 12, 14, 16

o RFP Conceptual Plan Sheets - Revision 3 *dated March 9, 2021 containing:*

- Roadway and Drainage Plans - Sheets 1, 1C(2). 1C(3), 1G(10), 1G(11), 1G(12), 6, 7, 8, 11, 11A, 11B, 11C, 11D, 12, 12A, 12B, 12C, 12E, 12F, 12H, 12RW, 13, 13A, 13B, 13D, 13E, 13RW, 14, 14B, 15, 15RW, 24, 24RW
- Retaining Wall Plans - Sheets 61(2), 61(3), 61(4), 72(3), 72(4), 80
- ITS/TMS Plans – Sheets CC20B, CC(F2)
- Signing, Lighting and Pavement Marking Plans - Sheets SP(A1), SP(A2), SP(A4)
- Structure and Bridge Plans - Sheets 12, 16, 18

o RFP Conceptual Plan Sheets - Revision 4 *dated April 6, 2021*

- Roadway and Drainage Plans – Sheets 1B(2), 1C(2), 1C(3), 1G(3), 1G(8), 1G(9), 2A(6), 2A(7), 5, 5D, 5RW, 10, 10E, 10RW, 11, 11G, 11RW, 13, 14, 15, 25
- ITS/TMS Plans – Sheets CC11, CC(E1)
- Signing, Lighting and Pavement Marking Plans – Sheet SP(A6)
- Traffic Signal Plans – Sheet TS(5)
- Structure and Bridge Plans – Sheets 24, 25, 26

o RFP Conceptual Plan Sheets - Revision 5 *dated April 30, 2021*

- ITS/TMS Plans – Sheets CC(F1), CC(H10)

- Conceptual Roadway Roll Plots - Revision 4 *dated April 6, 2021*
- Conceptual Drainage and SWM Roll Plots - Revision 4 *dated April 6, 2021*
- Conceptual Signing, Lighting and Pavement Marking Roll Plots - Revision 4 *dated April 6, 2021*
- Conceptual TMS Roll Plots - Revision 4 *dated April 6, 2021*
- Future Project NEXT Phase 2 Concept Roll Plots - Revision 4 *dated April 6, 2021*
- Future 2045 Design Year Concept Roll Plots - Revision 4 *dated April 6, 2021*

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
VA.		495	0495-029-419	1

FOR INDEX OF SHEETS SEE SHEET 1B(1) THROUGH 1B(2)

THIS PROJECT WAS DEVELOPED UTILIZING THE DEPARTMENT'S ENGINEERING DESIGN PACKAGE (GEOPAK).
GEOPAK Computer Identification No. 115401

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 ROAD AND BRIDGE SPECIFICATIONS, ROAD AND BRIDGE STANDARDS, MUTCD, VIRGINIA SUPPLEMENT TO THE MUTCD, VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

REVISIONS		
No.	Description	Date
3	Revised Minimum Design Speed and Added GT Pike to GW Parkway Segment	03/09/2021

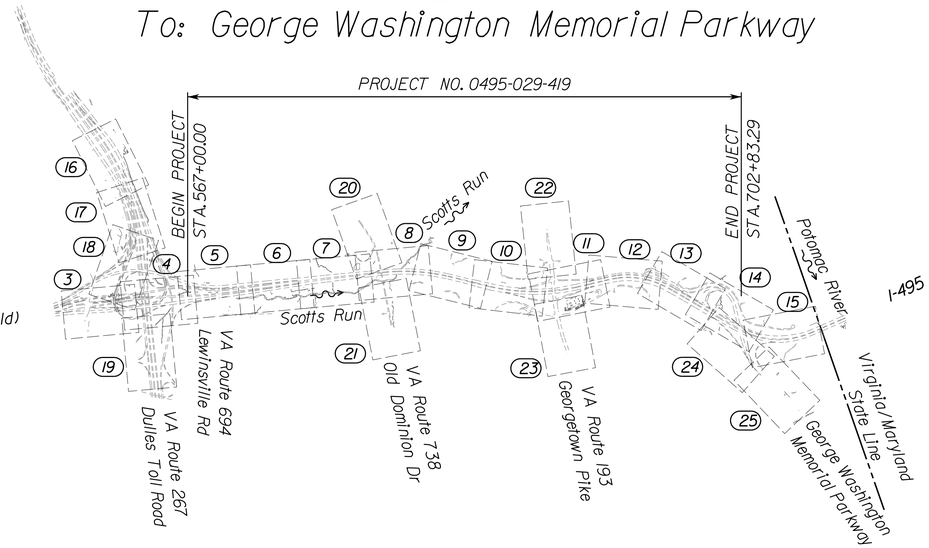
PROJECT MANAGER: Capital Beltway Express, LLC
SURVEYED BY, DATE: Rice Associates
DESIGN BY: HDR Engineering, Inc.
SUBSURFACE UTILITY BY, DATE: N/A

Transurban

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

DESIGN-BUILD PROJECT RFP PLANS

FAIRFAX COUNTY
495 EXPRESS LANES NORTHERN EXTENSION
From: VA Route 267 (Dulles Toll Road)
To: George Washington Memorial Parkway



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

3

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA					
	495 EXPRESS LANES	495 EXPRESS LANES	INTERSTATE 495 GENERAL PURPOSE LANES	VA ROUTE 267 DULLES TOLL ROAD	VA ROUTE 193 GEORGETOWN PIKE
FROM:	VA RTE 267 DULLES TOLL ROAD	GEORGETOWN PIKE	VA RTE 267 DULLES TOLL ROAD	0.66 MI. WEST OF I-495 NB GP	0.15 MI. WEST OF I-495
TO:	GEORGETOWN PIKE	GEORGE WASHINGTON MEMORIAL PARKWAY	GEORGE WASHINGTON MEMORIAL PARKWAY	0.17 MI. WEST OF I-495 NB GP	0.16 MI. EAST OF I-495
FUNCTIONAL CLASSIFICATION	URBAN INTERSTATE	URBAN INTERSTATE	URBAN INTERSTATE	FREEWAY DIVIDED	URBAN MINOR ARTERIAL
TERRAIN	ROLLING	ROLLING	ROLLING	ROLLING	ROLLING
MIN. DESIGN SPEED	70 MPH	60 MPH	60 MPH	60 MPH	40 MPH
ADT (2018)	21,500	21,500	224,800	123,420	20,500
ADT (2045)	76,800	76,800	239,300	164,700	30,000
DHV	6,600	6,600	15,600	13,000	2,500
D (%) (design hour)	53%	53%	56%	59%	57%
T (%) (design hour)	3%	3%	3%	2%	1%
V (MPH)	"	"	"	"	"
TC STD.	TC-5.11R	TC-5.11R	TC-5.11R	TC-5.11R	TC-5.11U
MINIMUM VERTICAL CLEARANCE	16'-6"	16'-6"	16'-6"	16'-6"	16'-6"
GEOMETRIC STD.	GS-INT	GS-INT	GS-INT	GS-5	GS-6

* See Plan and Profile Sheets for horizontal and vertical curve design speeds.

3

FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA				
	GEORGE WASHINGTON MEMORIAL PARKWAY	VA ROUTE 738 OLD DOMINION DRIVE	LIVE OAK DRIVE	INTERCHANGE RAMPS
FROM:	I-495	0.22 MI. WEST OF I-495	BALLS HILL ROAD	N/A
TO:	0.35 MI. EAST OF I-495	0.24 MI. EAST OF I-495	0.34 MI. WEST OF BALLS HILL ROAD	N/A
FUNCTIONAL CLASSIFICATION	NPS CLASS VII URBAN PARKWAY	URBAN MINOR ARTERIAL	URBAN LOCAL ROAD	INTERCHANGE RAMP
TERRAIN	ROLLING	ROLLING	ROLLING	ROLLING
MIN. DESIGN SPEED	60 MPH	45 MPH	25 MPH	30 MPH
ADT (2018)	58,700	7,400	440	---,---
ADT (2045)	66,900	12,200	465	---,---
DHV	5,500	1,200	65	----------
D (%) (design hour)	53%	71%	70%	----------
T (%) (design hour)	0%	1%	1%	----------
V (MPH)	"	"	"	"
TC STD.	TC-5.11R	TC-5.11U	TC-5.11U/ULS	TC-5.11R
MINIMUM VERTICAL CLEARANCE	16'-6"	16'-6"	16'-6"	16'-6"
GEOMETRIC STD.	NPS	GS-6	GS-8	GS-R

* See Plan and Profile Sheets for horizontal and vertical curve design speeds.

Fairfax County Population 1,150,795 (2019 Census Estimate)

STATE PROJECT NO.	SECTION	FEDERAL AID PROJECT NO.	TYPE CODE	UPC NO.	LENGTH INCLUDING BRIDGE(S) FEET	LENGTH INCLUDING BRIDGE(S) MILES	LENGTH EXCLUDING BRIDGE(S) FEET	LENGTH EXCLUDING BRIDGE(S) MILES	BRIDGE PLAN NO.	TYPE PROJECT	DESCRIPTION
0495-029-419				115401	13,583.29	2.57	13,418.51	2.54			From: VA Route 267 Dulles Toll Road To: George Washington Memorial Parkway

Project Lengths are based on NB 495 Express Lanes Construction Baseline

SCALE
0' 1750' 3500'

Copyright 2019, Commonwealth of Virginia

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC. _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	1B(1)

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

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	STATION	to	STATION
1	TITLE SHEET			
1B(1) thru 1B(2)	INDEX OF SHEETS			
1C(1) thru 1C(3)	RIGHT-OF-WAY DATA SHEETS			
1G(1) thru 1G(20)	GEOMETRIC DATA SHEETS			
1H(1) thru 1H(5)	EXISTING DRAINAGE DESCRIPTION SHEETS			
2A(1) thru 2A(16)	TYPICAL SECTIONS			
2C(1) thru 2C(4)	PAVEMENT JOINT REPAIR DETAILS AND LOCATIONS			
3	PLAN SHEET	539+50.00	to	553+50.00
3A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	539+50.00	to	553+50.00
3B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	139+50.00	to	153+50.00
3C	PROFILE SHEET - DTR RAMP E1	18+00.00	to	28+50.00
3D	PROFILE SHEET - DTR RAMP G3	36+00.00	to	47+00.00
3E	PROFILE SHEET - I-495 GP LANES NORTHBOUND	1043+00.00	to	1057+00.00
3F	PROFILE SHEET - DTR RAMP E4	38+50.00	to	43+00.00
3RW	PLAN SHEET - RIGHT OF WAY	539+50.00	to	553+50.00
4	PLAN SHEET	553+50.00	to	567+50.00
4A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	553+50.00	to	567+50.00
4B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	153+50.00	to	167+50.00
4C	PROFILE SHEET - DTR RAMP E1	28+50.00	to	42+50.00
4D	PROFILE SHEET - DTR RAMP E3	23+00.00	to	26+00.00
4E	PROFILE SHEET - DTR RAMP G10	10+00.00	to	18+50.00
4F	PROFILE SHEET - I-495 GP LANES NORTHBOUND	1057+00.00	to	1071+00.00
4RW	PLAN SHEET - RIGHT OF WAY	553+50.00	to	567+50.00
5	PLAN SHEET	567+50.00	to	581+50.00
5A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	567+50.00	to	581+50.00
5B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	167+50.00	to	181+50.00
5C	PROFILE SHEET - DTR RAMP E1	42+50.00	to	51+00.00
5D	PROFILE SHEET - LEWINSVILLE SHARED USE PATH	10+00.00	to	15+50.00
5E	PROFILE SHEET - I-495 GP LANES NORTHBOUND	1071+00.00	to	1085+00.00
5F	PROFILE SHEET - DTR RAMP G10	18+50.00	to	25+50.00
5RW	PLAN SHEET - RIGHT OF WAY	567+50.00	to	581+50.00
6	PLAN SHEET	581+50.00	to	595+50.00
6A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	581+50.00	to	595+50.00
6B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	181+50.00	to	195+50.00
6C	PROFILE SHEET - LEWINSVILLE SHARED USE PATH	15+50.00	to	29+50.00
6D	PROFILE SHEET - I-495 GP LANES NORTHBOUND	1085+00.00	to	1092+50.00
6RW	PLAN SHEET - RIGHT OF WAY	581+50.00	to	595+50.00
7	PLAN SHEET	595+50.00	to	609+50.00
7A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	595+50.00	to	609+50.00
7B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	195+50.00	to	209+50.00
7C	PROFILE SHEET - LEWINSVILLE SHARED USE PATH	29+50.00	to	43+50.00
7RW	PLAN SHEET - RIGHT OF WAY	595+50.00	to	609+50.00
8	PLAN SHEET	609+50.00	to	623+50.00
8A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	609+50.00	to	623+50.00
8B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	209+50.00	to	223+50.00
8C	PROFILE SHEET - OLD DOMINION DRIVE - VA ROUTE 738	17+50.00	to	26+50.00
8D	PROFILE SHEET - LEWINSVILLE SHARED USE PATH	43+50.00	to	57+50.00
8E	PROFILE SHEET - SCOTTS RUN CONNECTOR SHARED USE PATH	10+00.00	to	16+50.00
8RW	PLAN SHEET - RIGHT OF WAY	609+50.00	to	623+50.00
9	PLAN SHEET	623+50.00	to	637+50.00
9A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	623+50.00	to	637+50.00
9B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	223+50.00	to	237+50.00
9C	PROFILE SHEET - LEWINSVILLE SHARED USE PATH	57+50.00	to	71+50.00
9RW	PLAN SHEET - RIGHT OF WAY	623+50.00	to	637+50.00
10	PLAN SHEET	637+50.00	to	651+50.00
10A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	637+50.00	to	651+50.00
10B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	237+50.00	to	251+50.00
10C	PROFILE SHEET - GTP RAMP SE	10+00.00	to	22+00.00
10D	PROFILE SHEET - GTP RAMP SW	10+00.00	to	22+00.00
10E	PROFILE SHEET - LEWINSVILLE SHARED USE PATH	71+50.00	to	85+50.00
10RW	PLAN SHEET - RIGHT OF WAY	637+50.00	to	651+50.00
11	PLAN SHEET	651+50.00	to	665+50.00
11A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	651+50.00	to	665+50.00
11B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	251+50.00	to	265+50.00
11C	PROFILE SHEET - GEORGETOWN PIKE - VA ROUTE 193	17+00.00	to	25+50.00
11D	PROFILE SHEET - GTP RAMP NE	10+00.00	to	20+50.00
11E	PROFILE SHEET - GTP RAMP NW	4+50.00	to	14+50.00
11F	PROFILE SHEET - BALLS HILL SHARED USE PATH	9+00.00	to	21+00.00
11G	PROFILE SHEET - LEWINSVILLE SHARED USE PATH	85+50.00	to	89+50.00
11H	PROFILE SHEET - GWMP RAMP G21	4+00.00	to	14+00.00
11J	PROFILE SHEET - BALLS HILL ROAD	23+00.00	to	29+50.00
11RW	PLAN SHEET - RIGHT OF WAY	651+50.00	to	665+50.00
12	PLAN SHEET	665+50.00	to	679+50.00
12A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	665+50.00	to	679+50.00
12B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	265+50.00	to	279+50.00
12C	PROFILE SHEET - GWMP RAMP G21	14+00.00	to	28+00.00
12D	PROFILE SHEET - GTP RAMP NW	14+50.00	to	25+50.00
12E	PROFILE SHEET - LIVE OAK DRIVE	10+00.00	to	13+00.00
12F	PROFILE SHEET - BALLS HILL SHARED USE PATH	21+00.00	to	34+00.00
12G	PROFILE SHEET - GEORGETOWN PIKE NW SLIP RAMP	10+00.00	to	15+00.00
12H	PROFILE SHEET - LIVE OAK DRIVE BRIDGE	10+00.00	to	15+00.00
12J	PROFILE SHEET - BALLS HILL ROAD	29+50.00	to	42+50.00
12RW	PLAN SHEET - RIGHT OF WAY	665+50.00	to	679+50.00
13	PLAN SHEET	679+50.00	to	693+50.00
13A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	679+50.00	to	693+50.00
13B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	279+50.00	to	293+50.00
13C	PROFILE SHEET - GWMP RAMP G21	28+00.00	to	42+00.00
13D	PROFILE SHEET - GWMP RAMP E21	6+00.00	to	20+00.00
13E	PROFILE SHEET - GWMP RAMP E22	10+00.00	to	23+50.00
13F	PROFILE SHEET - GWMP RAMP G22	10+00.00	to	24+00.00
13G	PROFILE SHEET - GWMP RAMP G23	8+00.00	to	16+00.00
13H	PROFILE SHEET - LIVE OAK DRIVE	13+00.00	to	26+50.00
13J	PROFILE SHEET - BALLS HILL SHARED USE PATH	34+00.00	to	48+00.00
13RW	PLAN SHEET - RIGHT OF WAY	679+50.00	to	693+50.00

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100'	PROJECT	SHEET NO.
	0495-029-419	1B(1)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC. _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A. _____

INDEX OF SHEETS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	1B(2)

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

REVISIONS		
No.	Description	Date
4	Added Traffic Signals Sheet	04/06/2021

SHEET NO.	DESCRIPTION	STATION		STATION
14	PLAN SHEET	693+50.00	to	705+50.00
14A	PROFILE SHEET - 495 EXPRESS LANES NORTHBOUND	693+50.00	to	705+50.00
14B	PROFILE SHEET - 495 EXPRESS LANES SOUTHBOUND	293+50.00	to	307+00.00
14C	PROFILE SHEET - GWMP RAMP G21	42+00.00	to	56+00.00
14D	PROFILE SHEET - GWMP RAMP G22	24+00.00	to	38+00.00
14E	PROFILE SHEET - GWMP RAMP E21	20+00.00	to	30+00.00
14RW	PLAN SHEET - RIGHT OF WAY	693+50.00	to	705+50.00
15	PLAN SHEET	307+00.00	to	308+50.00
15A	PROFILE SHEET - BALLS HILL SHARED USE PATH	62+00.00	to	76+00.00
15RW	PLAN SHEET - RIGHT OF WAY	307+00.00	to	308+50.00
16	PLAN SHEET	10+00.00	to	18+50.00
16A	PROFILE SHEET - DULLES TOLL ROAD EASTBOUND	10+00.00	to	18+50.00
16B	PROFILE SHEET - DTR RAMP E4	10+00.00	to	14+50.00
16RW	PLAN SHEET - RIGHT OF WAY	10+00.00	to	18+50.00
17	PLAN SHEET	18+50.00	to	32+50.00
17A	PROFILE SHEET - DULLES TOLL ROAD EASTBOUND	18+50.00	to	32+50.00
17B	PROFILE SHEET - DTR RAMP G3	17+50.00	to	25+50.00
17C	PROFILE SHEET - DTR RAMP E4	14+50.00	to	28+50.00
17RW	PLAN SHEET - RIGHT OF WAY	18+50.00	to	32+50.00
18	PLAN SHEET	32+50.00	to	40+00.00
18A	PROFILE SHEET - DULLES TOLL ROAD EASTBOUND	32+50.00	to	40+00.00
18B	PROFILE SHEET - DTR RAMP G3	25+50.00	to	35+50.00
18C	PROFILE SHEET - DTR RAMP E4	28+50.00	to	38+50.00
18D	PROFILE SHEET - DTR RAMP D2	10+00.00	to	23+00.00
18RW	PLAN SHEET - RIGHT OF WAY	32+50.00	to	40+00.00
19	PLAN SHEET	10+00.00	to	23+00.00
19A	PROFILE SHEET - DTR RAMP E3	10+00.00	to	23+00.00
19B	PROFILE SHEET - DULLES TOLL ROAD WESTBOUND	402+00.00	to	416+00.00
19RW	PLAN SHEET - RIGHT OF WAY	10+00.00	to	26+75.00
20	PLAN SHEET	10+00.00	to	17+50.00
20A	PROFILE SHEET - OLD DOMINION DRIVE - VA ROUTE 738	10+00.00	to	17+50.00
20RW	PLAN SHEET - RIGHT OF WAY	10+00.00	to	17+50.00
21	PLAN SHEET	26+50.00	to	36+50.00
21A	PROFILE SHEET - OLD DOMINION DRIVE - VA ROUTE 738	26+50.00	to	36+50.00
21RW	PLAN SHEET - RIGHT OF WAY	26+50.00	to	36+50.00
22	PLAN SHEET	10+00.00	to	17+00.00
22A	PROFILE SHEET - GEORGETOWN PIKE - VA ROUTE 193	10+00.00	to	17+00.00
22RW	PLAN SHEET - RIGHT OF WAY	10+00.00	to	17+00.00
23	PLAN SHEET	25+50.00	to	35+00.00
23A	PROFILE SHEET - GEORGETOWN PIKE - VA ROUTE 193	25+50.00	to	35+00.00
23B	PROFILE SHEET - BALLS HILL ROAD	10+00.00	to	23+00.00
23RW	PLAN SHEET - RIGHT OF WAY	25+50.00	to	35+00.00
24	PLAN SHEET	38+00.00	to	46+50.00
24A	PROFILE SHEET - GWMP RAMP G23	16+00.00	to	30+00.00
24B	PROFILE SHEET - GWMP RAMP E22	23+50.00	to	36+50.00
24C	PROFILE SHEET - GWMP RAMP G22	38+00.00	to	46+50.00
24D	PROFILE SHEET - BALLS HILL SHARED USE PATH	48+00.00	to	62+00.00
24RW	PLAN SHEET - RIGHT OF WAY	38+00.00	to	46+50.00
25	PLAN SHEET	46+50.00	to	55+50.00
25A	PROFILE SHEET - GWMP RAMP G22	46+50.00	to	55+50.00
25RW	PLAN SHEET - RIGHT OF WAY	46+50.00	to	55+50.00

RETAINING WALL PLANS

SHEET NO.	DESCRIPTION
57	RETAINING WALL GENERAL NOTES
58(1) thru 58(7)	RETAINING WALL LOCATION MAP SHEETS
59(1) thru 87	RETAINING WALL PLAN AND PROFILE SHEETS

ITS/TMS PLANS

SHEET NO.	DESCRIPTION
CC1A	TOLL & TRAFFIC MANAGEMENT PLAN INDEX OF SHEETS
CC2A thru CC2C2	TOLL & TRAFFIC MANAGEMENT GENERAL NOTES AND DETAILS
CC3 thru CC25	TOLL & TRAFFIC MANAGEMENT PLAN SHEETS
CC(A1) thru CC(A4)	TOLL & TRAFFIC MANAGEMENT PLAN POLE DETAILS
CC(B1) thru CC(B2)	TOLL & TRAFFIC MANAGEMENT PLAN CABINET DETAILS
CC(C1)	TOLL & TRAFFIC MANAGEMENT PLAN JUNCTION BOX DETAILS
CC(D1) and CC(D7)	TOLL & TRAFFIC MANAGEMENT PLAN DMS/LCS DETAILS
CC(E1) thru CC(E2)	TOLL & TRAFFIC MANAGEMENT PLAN EQUIPMENT SCHEDULE
CC(F1) thru CC(F9)	TOLL & TRAFFIC MANAGEMENT PLAN COMMUNICATION BLOCK DIAGRAMS
CC(G1) thru CC(G13)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAMS
CC(H1) thru CC(H9)	TOLL & TRAFFIC MANAGEMENT PLAN MISCELLANEOUS DETAILS

SIGNING/PAVEMENT MARKING/LIGHTING PLANS

SHEET NO.	DESCRIPTION
SP1	SIGNING/PAVEMENT MARKING/LIGHTING LAYOUT AND INDEX OF SHEETS
SP2A	SIGNING/PAVEMENT MARKING/LIGHTING GENERAL NOTES
SP(A1) thru SP(A6)	SIGNING/PAVEMENT MARKING/LIGHTING SIGN SCHEDULES
SP(B1) thru SP(B2)	SIGNING/PAVEMENT MARKING/LIGHTING TYPICALS
SAPML SCROLLS 1 thru 8	SIGNING/PAVEMENT MARKING/LIGHTING PLAN ROLL PLOTS

TRAFFIC SIGNAL PLANS

SHEET NO.	DESCRIPTION
TS(1)	TRAFFIC SIGNAL GENERAL NOTES AND INDEX OF SHEETS
TS(2) thru TS(5)	TRAFFIC SIGNAL PLAN SHEETS

STRUCTURE AND BRIDGE PLANS

SHEET NO.	DESCRIPTION
1 thru 27	STRUCTURE AND BRIDGE PLAN SHEETS

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1B(2)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC. _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A. _____

RIGHT OF WAY DATA

REVISIONS		
No.	Description	Date
2	Modified right of way area	12/18/2020

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IC(1)

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

City/County: FAIRFAX COUNTY
UPC No.: 115401

PARCEL NO.	TAX MAP ID.	LANDOWNER	SHEET NO.	AREA (Areas greater than or equal to 1 acre will be shown in acres to 3 decimal places (x.xxx). Areas less than 1 acre will be shown to square feet (x,xxx).)							
				TOTAL	FEE TAKING	FEE REMAINDER	EASEMENTS				PROFFERS
							PERMANENT	UTILITY	TEMPORARY	TEMPORARY(ENTRANCES)	
				ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	YES / NO
001	030-1 02 0005	ANASTASIA SHISHKINA & ALI-REZA NOURI-MESBAHI	21	2.107 AC	0.028 AC	2.079 AC	-	-	1970 SQ. FT.	-	
002	030-1 02 0031	HARVEST HOLDINGS LLC.	21	1.024 AC	0.007 AC	1.017 AC	-	-	7055 SQ. FT.	-	
003	030-1 02 0051	DEAN M. NEWCOMB & NOELL K. EDER. CO-TRUSTEES	21	0.772 AC	-	0.772 AC	-	-	-	-	
004	030-1 02 0052	WILLIAM FRANKLIN JOHNSTON, JR. & MARGARET A. PLACENTRA	21, 8	1.33 AC	-	1.33 AC	-	-	-	174 SQ. FT.	
005	030-1 02 0053	PARKER F. SCHOFIELD, TRUSTEE & LAN N. SCHOFIELD , TRUSTEE	21, 8	1.427 AC	-	1.427 AC	-	-	-	234 SQ. FT.	
006	021-3 01 0038	ANITA M. HERRERA, TRUSTEE	21	1 AC	-	1 AC	-	-	-	-	
007	021-3 13 0003	CHANG UK YI & NEGAR S. TEHRANI	21	33742 SQ. FT.	-	33742 SQ. FT.	-	-	-	349 SQ. FT.	
008	021-3 13 0004	MARCIA P. LEIMKUHLER, TRUSTEE & JAMES W. LEIMKUHLER, TRUSTEE	21	32284 SQ. FT.	-	32284 SQ. FT.	-	-	-	-	
009	021-3 13 A	ROYAL EMBASSY OF SAUDI ARABIA	21	30637 SQ. FT.	-	30637 SQ. FT.	-	-	-	-	
010	021-3 01 0040	SEDELTA D. VERBLE & GHAREMON SULEYMON	21	0.422 AC	-	0.422 AC	1911 SQ. FT.	-	-	-	
011	021-3 01 0072A	PATRICK O. MCGAREY & BARBARA M. MCGAREY	21	48602 SQ. FT.	-	48602 SQ. FT.	7160 SQ. FT.	-	-	-	
012	021-301 0072D	PRANAY PRAKASH & PREETI KUMAR	21, 8	49733 SQ. FT.	733 SQ. FT.	49000 SQ. FT.	9204 SQ. FT.	-	-	-	
013	021-3 01 0072C	CHARNG LIU & MARY DEEM	21, 8	63830 SQ. FT.	1825 SQ. FT.	62005 SQ. FT.	13122 SQ. FT.	-	-	-	
014	021-3 10 0054A	JOSEPH T. BAKER & IRENE I. BAKER	8	27238 SQ. FT.	5770 SQ. FT.	21468 SQ. FT.	-	-	-	-	
015	021-3 10 0057A	LESLIE MURPHY, TRUSTEE & DIANE E. MURPHY, TRUSTEE	8	25765 SQ. FT.	761 SQ. FT.	25004 SQ. FT.	-	-	-	-	
016	021-3 10 0058A	MICHAEL TERINSKY	8, 9	20166 SQ. FT.	-	20166 SQ. FT.	-	-	-	-	
017	021-3 10 0059A	RAJ I. RANA	9	26998 SQ. FT.	-	26998 SQ. FT.	-	-	80 SQ. FT.	-	
018	021-3 10 0061	KARUNA SHINSO, TRUSTEE	9	21953 SQ. FT.	-	21953 SQ. FT.	-	-	-	-	
019	021-3 10 0062	ERIC A. LEVINE & KRISTYN M. LEVINE	9	23472 SQ. FT.	-	23472 SQ. FT.	-	-	102 SQ. FT.	-	
020	021-3 15 0001	PIO F. POBLETE & CRISTINA L. POBLETE	9	24224 SQ. FT.	-	24224 SQ. FT.	-	-	845 SQ. FT.	-	
021	021-3 15 0002	GARY THOMAS & DONNA L. THOMAS	9	20185 SQ. FT.	-	20185 SQ. FT.	-	-	762 SQ. FT.	-	
022	021-3 15 0003	YONG KYU YOON & HAE SOOK YOON	9	20198 SQ. FT.	-	20198 SQ. FT.	-	-	770 SQ. FT.	-	
023	021-3 15 0004	JINSOO LEE & WOOLJA LEE	9	23555 SQ. FT.	-	23555 SQ. FT.	-	-	831 SQ. FT.	-	
024	021-3 01 0050	TRUSTEES FOR MCLEAN PRESBYTERIAN CHURCH	9,10	2.8969 AC	-	2.8969 AC	4597 SQ. FT.	-	275 SQ. FT.	-	
025	021-3 01 0051	TRUSTEES FOR MCLEAN PRESBYTERIAN CHURCH	10	3.2424 AC	-	3.2424 AC	-	-	891 SQ. FT.	-	
026	021-3 01 0053	MCLEAN PRESBYTERIAN CHURCH	10	22968 SQ. FT.	-	22968 SQ. FT.	-	-	-	-	
027	021-3 01 0065	MUNTHER F. ALRABAN	23	24400 SQ. FT.	-	24400 SQ. FT.	-	2 -	-	-	
028	021-3 01 0056A	TRINITY GROUP, LLC	11, 12, 23	5.4598 AC	0.444 AC	5.0158 AC	24477 SQ. FT.	-	5982 SQ. FT.	-	
029	021-1 02 0056A	JOHN A. LECHUS & LINDA F. LECHUS	12, 13	73474 SQ. FT.	12061 SQ. FT.	61413 SQ. FT.	6626 SQ. FT.	-	2842 SQ. FT.	-	
030	021-1 02 0054A1	GEORGE GARNER & SAMANTHA GARNER	13	79196 SQ. FT.	5323 SQ. FT.	73873 SQ. FT.	2717 SQ. FT.	-	4278 SQ. FT.	-	
031	021-2 03 0038	VEENA RAILAN	13	41303 SQ. FT.	-	41303 SQ. FT.	-	-	-	-	
032	021-2 03 0039	PING ZHOU & HENGXIANG YANG	13	42595 SQ. FT.	-	42595 SQ. FT.	-	-	-	-	

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

RIGHT OF WAY DATA

REVISIONS		
No.	Description	Date
3	Modified right of way area	03/09/2021
4	Modified right of way area	04/06/2021

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IC(2)

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

City/County: FAIRFAX COUNTY

UPC No.: 115401

PARCEL NO.	TAX MAP ID.	LANDOWNER	SHEET NO.	AREA (Areas greater than or equal to 1 acre will be shown in acres to 3 decimal places (x.xxx). Areas less than 1 acre will be shown to square feet (x,xxx).)							
				TOTAL	FEE TAKING	FEE REMAINDER	EASEMENTS				PROFFERS
							PERMANENT	UTILITY	TEMPORARY	TEMPORARY(ENTRANCES)	
				ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	YES / NO
033	021-2 03 0093R	CHRISTINA KANO	13	39225 SQ. FT.	-	39225 SQ. FT.	-	-	-	-	
034	021-2 03 0094R	VINEET VENUGOPAL & MADHAVI LATHA MENON	13	45830 SQ. FT.	5087 SQ. FT.	40743 SQ. FT.	5344 SQ. FT.	-	-	-	
035	021-2 03 0095R	LABIB JOSEPH CHAMAS, TRUSTEE	13, 14	30382 SQ. FT.	3983 SQ. FT.	26399 SQ. FT.	4274 SQ. FT.	-	-	-	
036	021-2 03 0097R	RUKIYE YUCEL & ERCAN YUCEL	13, 14	25055 SQ. FT.	3258 SQ. FT.	21797 SQ. FT.	3236 SQ. FT.	3 -	-	-	
037	021-2 03 0098R	ANDREW CHURCHILL & TRACEY CHURCHILL	14, 24	23945 SQ. FT.	1087 SQ. FT.	22858 SQ. FT.	4434 SQ. FT.	-	-	-	
038	021-2 03 0099R	ALICE X. YANG & STEVEN P. ZHOU	24	23945 SQ. FT.	-	23945 SQ. FT.	1033 SQ. FT.	-	-	-	
039	021-2 03 A2	SARKIS SATIAN, TRUSTEE	24	46399 SQ. FT.	-	46399 SQ. FT.	74 SQ. FT.	-	-	-	
040	021-2 03 A1	ANDREW G. BRANIFF & MIMI F. BRANIFF	24	61864 SQ. FT.	-	61864 SQ. FT.	-	-	-	-	
041	029-2 12 A	TIMBERLY SOUTH HOMEOWNER'S ASSOCIATION	5, 6	4.1167 AC	0.486 AC	3.6307 AC	16772 SQ. FT.	4 -	515 SQ. FT.	-	
042	029-2 12 0084	MICHAL C. SMOYER & JENNIFER A. SMOYER	5, 6	16066 SQ. FT.	-	16066 SQ. FT.	-	-	-	-	
043	029-2 12 0005	JUNUIS S. MORGAN & PATRICIA M. MORGAN	6	12738 SQ. FT.	-	12738 SQ. FT.	-	-	-	-	
044	029-2 12 C	TIMBERLY SOUTH HOMEOWNER'S ASSOCIATION	6	3.6821 AC	0.36 AC	3.3221 AC	11307 SQ. FT.	2556 SQ. FT.	5791 SQ. FT.	-	
045	030-1 21 0035	MATHEW J. GIBNEY,III, TRUSTEE & SHEILA A. GIBNEY, TRUSTEE	6	13620 SQ. FT.	-	13620 SQ. FT.	-	-	-	-	
046	030-1 21 0034	MAGDA KANDIL MOHAMMED SARHAN	6	12784 SQ. FT.	-	12784 SQ. FT.	-	-	-	-	
047	030-1 21 0033	GEOFFREY TOKAJER & ERIN TOKAJER	6	10700 SQ. FT.	-	10700 SQ. FT.	-	-	-	-	
048	030-1 21 0032	RAJAT VARDHAN & ADITI VARDHAN	6	10501 SQ. FT.	-	10501 SQ. FT.	-	-	-	-	
049	030-1 21 0031	KEH-CHUN LEU, TRUSTEE & LUNGCHING CHIAO, TRUSTEE	6	10501 SQ. FT.	-	10501 SQ. FT.	-	-	-	-	
050	030-1 21 0030	CHRISTOPHER D. PAKSTYS, TRUSTEE & KIMBERLY CLARK PAKSTYS, TRUSTEE	6	10564 SQ. FT.	-	10564 SQ. FT.	-	-	-	-	
051	030-1 21 0029	GREGORY J. WAGNER & ELAINE C. WAGNER	6, 7	15357 SQ. FT.	-	15357 SQ. FT.	-	-	-	-	
052	030-1 21 0028	ARTHUR OI-SHUI CHIU & NANCY HWA CHIU	6, 7	16649 SQ. FT.	-	16649 SQ. FT.	-	-	-	-	
053	030-1 15 A	THE FAIRFAX COUNTY PARK AUTHORITY	7	6.536 AC	-	6.536 AC	-	-	-	-	
054	030-1 01 0064C	OLD DOMINION ESTATES LLC	7	2.6083 AC	0.206 AC	2.4023 AC	16982 SQ. FT.	-	7629 SQ. FT.	-	
055	030-1 01 0064D	1160 DOMINION LLC	7	1.0004 AC	-	1.0004 AC	13668 SQ. FT.	-	13912 SQ. FT.	-	
056	030-1 01 0064E	1156 DOMINION LLC	7, 8	1.0923 AC	-	1.0923 AC	5522 SQ. FT.	-	15693 SQ. FT.	-	
057	021-3 01 0033D	1150 DOMINION LLC	7, 8, 20	1.0923 AC	-	1.0923 AC	898 SQ. FT.	-	1621 SQ. FT.	-	
058	030-1 21 D	TIMBERLY SOUTH HOMEOWNER'S ASSOCIATION	6	5.5451 AC	0.058 AC	5.4871 AC	1521 SQ. FT.	12648 SQ. FT.	25262 SQ. FT.	-	
059	021-3 01 0033A	HUMAM K. ALATHARI & TANIA ALCHALABI	8,20	60889 SQ. FT.	-	60889 SQ. FT.	3713 SQ. FT.	-	-	-	
060	021-3 01 0033B	SUSAN A. HOLLEY & ROBERT R. TOMES	20	44590 SQ. FT.	-	44590 SQ. FT.	2254 SQ. FT.	-	-	333 SQ. FT.	
061	021-3 21 0001A	DEBORAH ROBINSON	20	36058 SQ. FT.	-	36058 SQ. FT.	-	-	-	-	
062	021-3 01 0023A	URSULA SADUK	20	98075 SQ. FT.	-	98075 SQ. FT.	-	-	-	-	
063	021-3 01 0035A	ROBERT A. JAFFE, TRUSTEE & DEBORAH A. DEMASI, TRUSTEE	20	43575 SQ. FT.	-	43575 SQ. FT.	-	-	-	113 SQ. FT.	
064	021-3 01 0035B	WILLIAM R. CHARYK & CHOON L. CHARYK	20	43562 SQ. FT.	-	43562 SQ. FT.	356 SQ. FT.	-	-	167 SQ. FT.	

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC.
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

RIGHT OF WAY DATA

REVISIONS		
No.	Description	Date
2	Modified right of way area	12/18/2020
3	Modified right of way area	03/09/2021
4	Modified right of way area	04/06/2021

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	IC(3)

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

City/County: FAIRFAX COUNTY
UPC No.: 115401

PARCEL NO.	TAX MAP ID.	LANDOWNER	SHEET NO.	AREA (Areas greater than or equal to 1 acre will be shown in acres to 3 decimal places (x.xxx). Areas less than 1 acre will be shown to square feet (x,xxx).)							
				TOTAL	FEE TAKING	FEE REMAINDER	EASEMENTS				PROFFERS
							PERMANENT	UTILITY	TEMPORARY	TEMPORARY(ENTRANCES)	
				ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	ACRES OR SQ. FEET	YES / NO
065	021-3 01 0035C	DACHAO RUAN & ANABELA NOGUEIRA DO ESPIRITO SANTO	8, 20	39205 SQ. FT.	-	39205 SQ. FT.	11913 SQ. FT.	-	-	-	
066	021-3 01 0035	SUSAN BOOTH CASSIDY & JAMES JOSEPH CASSIDY	8, 20	44667 SQ. FT.	-	44667 SQ. FT.	9125 SQ. FT.	-	-	-	
067	021-3 12 A	SCOTT'S RUN HOMEOWNERS ASSOCIATION	8, 20	545905 SQ. FT.	3621 SQ. FT.	542284 SQ. FT.	60487 SQ. FT.	-	-	-	
068	021-3 07 0030A	HAMID FALLAH-MOGHADDAM & TAHEREH GOLCHIN-NIKSIRAT	8, 9	5.644 AC	-	5.644 AC	665 SQ. FT.	-	-	-	
069	021-3 10 C	WILLIAM F. JOHNSTON TRUSTEE & WILLIAM F. JOHNSTON, JR., TRUSTEE	8, 9	2.0189 AC	-	2.0189 AC	41662 SQ. FT.	-	134 SQ. FT.	-	
070	021-3 01 0037	WILLIAM F. JOHNSTON TRUSTEE & WILLIAM F. JOHNSTON, JR., TRUSTEE	9	5.0566 AC	0.074 AC	4.9826 AC	1851 SQ. FT.	2 -	1695 SQ. FT.	2 -	
071	021-3 01 0037A	VIRGINIA ELECTRIC AND POWER COMPANY	9	2.5 AC	0.202 AC	2.298 AC	2825 SQ. FT.	-	3349 SQ. FT.	-	
072	021-3 14 0001	WILLAM M. AMBLER & ELEONOR L. AMBLER	9, 10	61822 SQ. FT.	-	61822 SQ. FT.	-	-	-	2 -	
073	021-3 14 0002	WAJDI BUSTANI & SYLVIA BUSTANI	9, 10	52006 SQ. FT.	1150 SQ. FT.	50856 SQ. FT.	-	-	7085 SQ. FT.	-	
074	021-3 14 0003	CRAIG A. TENNEY & SUSAN TENNEY	10	46331 SQ. FT.	1982 SQ. FT.	44349 SQ. FT.	-	2 -	3872 SQ. FT.	-	
075	021-3 26 A	BEAUFORT PARK HOMEOWNERS ASSOCIATION, INC.	10, 11, 22	221876 SQ. FT.	32808 SQ. FT.	189068 SQ. FT.	5438 SQ. FT.	-	9713 SQ. FT.	4 -	
076	021-3 26 B1	BEAUFORT PARK HOMEOWNERS ASSOCIATION, INC.	22	31260 SQ. FT.	-	31260 SQ. FT.	-	-	411 SQ. FT.	-	
077	021-3 23 0001	BARBARA B. REILLY	22	39021 SQ. FT.	-	39021 SQ. FT.	-	2 -	-	2 -	
078	021-3 23 0017	JEFFREY G. BLAIR, TRUSTEE & CHAU T. BLAIR, TRUSTEE	22	54598 SQ. FT.	-	54598 SQ. FT.	-	3 -	382 SQ. FT.	3 -	
079	021-1 01 0003	FAIRFAX COUNTY PARK AUTHORITY	12	328.6262 AC	0.568 AC	328.0582 AC	10221 SQ. FT.	-	13501 SQ. FT.	-	
080	021-1 01 0007A	LANGLEY CLUB, INC.	12,13	1.3774 AC	-	1.3774 AC	-	3 -	-	3 -	
081	021-1 01 0008A	LANGLEY CLUB, INC.	13	3.25 AC	-	3.25 AC	680 SQ. FT.	-	9785 SQ. FT.	-	
082	021-1 05 0001	ANTONIO J. CACHAY & SYLVIA CACHAY	13	54538 SQ. FT.	-	54538 SQ. FT.	2283 SQ. FT.	1943 SQ. FT.	-	-	
083	021-1 05 0002	JOANNE S. WYMAN	13	38131 SQ. FT.	-	38131 SQ. FT.	-	-	-	-	
084	021-2 03 0026R1	HAYAT ALKHATEEB	15	62394 SQ. FT.	-	62394 SQ. FT.	-	-	-	-	
085	030-1 01 0013A	IRFAN BAIG MIRZA & FARZANA BEGUM	5, 6	5.687 AC	-	5.687 AC	-	-	-	-	
086	030-1 33 D	THE PRESERVE AT SCOTTS RUN HOMEOWNERS ASSOCIATION	6, 7	400843 SQ. FT.	-	400843 SQ. FT.	11615 SQ. FT.	-	-	-	
087	021-2 01 0007	UNITED STATES OF AMERICA	15, 25	22.21467 AC	-	22.21467 AC	-	-	-	-	
088	021-3 01 007 2B	RAJAN ZUMOT & KATHY M. ZUMOT	8, 21	39417 SQ. FT.	-	39417 SQ. FT.	457 SQ. FT.	-	-	-	
089	021-1 01 0007	APRIL GEORGELAS	13	2.81669 AC	-	2.81669 AC	969 SQ. FT.	-	-	-	
090	301-32-0312	KNAC HOLDINGS LLC	5	CONDO	-	CONDO	-	-	295 SQ. FT.	-	
091	213-01-003C	1151 DOMINION CT. LLC	8, 20	1.0327 AC	-	1.0327 AC	58 SQ. FT.	-	-	-	

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IG(1)

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

Curve 495XL_SB-1
PI = 144+14.69
DELTA = 11° 49' 46.38" (RT)
D = 1° 54' 08"
T = 312.04'
L = 621.87'
R = 3,012.00'
PC = 141+02.64
PT = 147+24.51
FOR INFORMATION ONLY

Curve 495XL_SB-2
PI = 156+18.40
DELTA = 5° 21' 12.20" (LT)
D = 0° 47' 06"
T = 341.28'
L = 682.07'
R = 7,300.00'
PC = 152+77.12
PT = 159+59.19
FOR INFORMATION ONLY

Curve DTR_RMP_E4-3
PI = 40+25.32
DELTA = 67° 18' 57.59" (RT)
D = 24° 54' 40"
T = 153.15'
L = 270.22'
R = 230.00'
PC = 38+72.17
PT = 41+42.39
FOR INFORMATION ONLY

Curve DTR_RMP_E1-1
PI = 22+53.59
DELTA = 38° 22' 38.46" (LT)
D = 14° 19' 26"
T = 139.21'
L = 267.92'
R = 400.00'
PC = 21+14.39
PCC = 23+82.31
DESIGN SPEED = 30 MPH
e = 6.90%
Lr = 148'

Curve DTR_RMP_E1-2
PI = 26+18.80
DELTA = 54° 55' 34.19" (LT)
D = 12° 35' 33"
T = 236.49'
L = 436.18'
R = 455.00'
PCC = 23+82.31
PCC = 28+18.49
DESIGN SPEED = 30 MPH
e = 6.40%
Lr = 137'

BEGIN ℄ 495XL_NB POT 538+60.56 =
℄ 495GP_NB STA. 1042+03.04, 46.71' LT.

BEGIN CONSTRUCTION
I-495 GP LANES NORTHBOUND
℄ 495GP_NB STA. 1052+37.85

BEGIN BRIDGE B-6XX
℄ 495GP_NB STA. 1053+15.29

END BRIDGE B-6XX
℄ 495GP_NB STA. 1054+16.79

END CONSTRUCTION
I-495 GP LANES NORTHBOUND
℄ 495GP_NB STA. 1054+62.99

MATCHLINE
SEE SHEET STA 19+50.00 IG(15)

MATCHLINE
495XL_SB STA 153+50.00
495XL_NB STA 553+50.00
495GP_NB STA 1057+00.00
SEE SHEET IG(2)

MATCHLINE
DTR_RMP_E1 STA 28+50.00
DTR_RMP_G3 STA 43+50.00
SEE SHEET IG(2)

Curve 495XL_NB-1
PI = 551+19.03
DELTA = 1° 19' 14.33" (RT)
D = 0° 15' 00"
T = 264.14'
L = 528.25'
R = 22,918.00'
PC = 548+54.90
PT = 553+83.15
FOR INFORMATION ONLY

Curve 495GP_NB-1
PI = 1043+39.89
DELTA = 3° 53' 44.16" (RT)
D = 0° 50' 57"
T = 229.49'
L = 458.80'
R = 6,748.00'
PC = 1041+10.40
PT = 1045+69.20
FOR INFORMATION ONLY

Curve 495GP_NB-2
PI = 1053+94.41
DELTA = 5° 47' 32.96" (LT)
D = 0° 55' 10"
T = 315.29'
L = 630.04'
R = 6,232.00'
PC = 1050+79.12
PT = 1057+09.17
DESIGN SPEED = 60 MPH
e = NC
Lr = N/A

Curve DTR_RMP_G3-3
PI = 37+89.62
DELTA = 2° 3' 45" 50.59" (LT)
D = 16° 45' 11"
T = 71.96'
L = 141.85'
R = 342.00'
PCC = 37+17.67
PCC = 38+59.51
DESIGN SPEED = 30 MPH
e = 7.20%
Lr = 197'

Curve DTR_RMP_G3-4
PI = 42+99.12
DELTA = 89° 33' 31.75" (LT)
D = 12° 56' 01"
T = 439.60'
L = 692.45'
R = 443.00'
PCC = 38+59.51
PCC = 45+51.97
DESIGN SPEED = 30 MPH
e = 6.50%
Lr = 139'

Curve DTR_RMP_D2-3
PI = 22+73.31
DELTA = 29° 49' 13.73" (LT)
D = 19° 05' 55"
T = 79.88'
L = 156.14'
R = 300.00'
PCC = 21+93.43
PT = 23+49.57
DESIGN SPEED = 30 MPH
e = 7.60%
Lr = 185'

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

REVISIONS		
No.	Description	Date
2	Lane width updated	12/18/2020

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	IG(1)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IG(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 MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

Curve 495XL_SB-2
PI = 156+18.40
DELTA = 5° 21' 12.20" (LT)
D = 0° 47' 06"
T = 341.28'
L = 682.07'
R = 7,300.00'
PC = 152+77.12
PT = 159+59.19
FOR INFORMATION ONLY

Curve DTR_RMP_G3-5
PI = 46+12.74
DELTA = 19° 09' 46.70" (LT)
D = 15° 54' 56"
T = 60.77'
L = 120.40'
R = 360.00'
PCC = 45+51.97
PT = 46+72.37
DESIGN SPEED = 30 MPH
e = 7.0%
Lr = 150'

Curve DTR_RMP_G3-6
PI = 52+13.76
DELTA = 20° 07' 40.82" (RT)
D = 5° 27' 24"
T = 186.35'
L = 368.86'
R = 1,050.00'
PC = 50+27.41
PT = 53+96.27
FOR INFORMATION ONLY

Curve 495XL_NB-2
PI = 558+46.00
DELTA = 5° 52' 38.29" (RT)
D = 1° 25' 41"
T = 205.95'
L = 411.54'
R = 4,012.00'
PC = 556+40.05
PT = 560+51.59
FOR INFORMATION ONLY

Curve 495XL_NB-3
PI = 566+60.53
DELTA = 0° 29' 13.66" (LT)
D = 0° 23' 43"
T = 61.64'
L = 123.28'
R = 14,500.00'
PC = 565+98.89
PT = 567+22.17
DESIGN SPEED = 70 MPH
e = 2.00% (NC)
Lr = N/A

Curve 495XL_SB-3
PI = 165+48.69
DELTA = 15° 50' 16.35" (RT)
D = 2° 29' 28"
T = 319.93'
L = 635.77'
R = 2,300.00'
PC = 162+28.76
PT = 168+64.53
FOR INFORMATION ONLY

Curve DTR_RMP_E1-3
PI = 29+89.90
DELTA = 13° 02' 16.58" (LT)
D = 3° 49' 11"
T = 171.41'
L = 341.33'
R = 1,500.00'
PCC = 28+18.49
PCC = 31+59.83
DESIGN SPEED = 30 MPH
e = 3.00%
Lr = 64'

Curve DTR_RMP_E1-4
PI = 34+97.78
DELTA = 48° 37' 38.62" (LT)
D = 7° 39' 36"
T = 337.95'
L = 634.83'
R = 748.00'
PCC = 31+59.83
PT = 37+94.66
DESIGN SPEED = 30 MPH
e = 5.00%
Lr = 107'

Curve DTR_RMP_E1-5
PI = 41+16.39
DELTA = 46° 29' 42.99" (RT)
D = 17° 54' 18"
T = 137.47'
L = 259.68'
R = 320.00'
PC = 39+78.92
PT = 42+38.60
DESIGN SPEED = 30 MPH
e = 7.40%
Lr = 171'

Curve DTR_RMP_E3-2
PI = 23+20.61
DELTA = 59° 12' 43.82" (RT)
D = 18° 32' 32"
T = 175.58'
L = 319.34'
R = 309.00'
PC = 21+45.03
PT = 24+64.37
DESIGN SPEED = 30 MPH
e = 7.50%
Lr = 160'

Curve DTR_WB-3
PI = 420+38.38
DELTA = 7° 05' 30.69" (LT)
D = 2° 41' 21"
T = 132.02'
L = 263.71'
R = 2,130.52'
PCC = 419+06.35
PT = 421+70.06
FOR INFORMATION ONLY

Curve DTR_RMP_GIO-1
PI = 13+64.58
DELTA = 37° 45' 22.36" (RT)
D = 10° 54' 44"
T = 179.54'
L = 346.00'
R = 525.06'
PC = 11+85.03
PCC = 15+31.03
FOR INFORMATION ONLY

Curve DTR_RMP_GIO-2
PI = 16+52.08
DELTA = 14° 10' 06.49" (RT)
D = 5° 52' 58"
T = 121.04'
L = 240.85'
R = 973.98'
PCC = 15+31.03
PCC = 17+71.88
FOR INFORMATION ONLY

495XL_SB-2
495XL_SB-3
@ 495XL_SB
PT 159+59.19
PC 162+28.76
N 20° 42' 55" E
BEGIN PROJECT 0495-029-419
BEGIN CONSTRUCTION
495 EXPRESS LANES NORTHBOUND
@ 495XL_NB STA. 567+00.00
END BRIDGE B-6XX
@ DTR_RMP_E1 STA. 41+26.17
495XL_NB-2
495XL_NB-3
PC 565+98.89
PT 567+22.17
N 28° 00' 47" E
MATCHLINE 495XL_SB STA 167+50.00 495XL_NB STA 567+50.00 495GP_NB STA 1071+00.00 DTR_RMP_E1 STA 44+50.00 SEE SHEET IG(3)
MATCHLINE 495XL_SB STA 153+50.00 495XL_NB STA 553+50.00 495GP_NB STA 1057+00.00 SEE SHEET IG(1)
PT 553+83.15
PC 556+40.05
PT 560+51.59
@ 495XL_NB
495XL_NB-1
PT 1057+09.17
N 22° 08' 09" E
END @ DTR_RMP_G3 PT 53+96.27 = @ 495GP_NB, STA. 1065+75.00, 48.00' RT.
@ 495GP_NB
DTR_RMP_E1-5
PT 42+38.60
DTR_RMP_E1-6
PC 39+78.92
495GP_NB-3
DTR_RMP_GIO-3
BEGIN CONSTRUCTION
I-495 GP LANES NORTHBOUND
@ 495GP_NB PC 1069+62.75
MATCHLINE DTR_RMP_GIO STA 18+50.00 SEE PLAN SHEET IG(3)
N 19° 48' 36" W
PT 37+94.66
@ DTR_RMP_E1
PC 50+27.41
BEGIN BRIDGE B-6XX
@ DTR_RMP_E1 STA. 36+74.56
N 2° 00' 28" E
@ DTR_RMP_GIO
END CONSTRUCTION
DULLES TOLL ROAD RAMP G3
STA. 46+71.41
PT 46+72.37
PCC 45+51.97
MATCHLINE DTR_RMP_E1 STA 28+50.00 DTR_RMP_G3 STA 44+50.00 SEE SHEET IG(1)
@ DTR_RMP_G3
DTR_RMP_G3-5
END BRIDGE B-6XX
@ DTR_RMP_E1 STA. 33+90.62
DTR_RMP_E1-4
END CONSTRUCTION
DTR RAMP E3
END @ DTR_RMP_E3
POT 25+78.42 =
@ DTR_RMP_E1
STA. 36+53.02, 24.00' RT
N 8° 52' 37" W
PT 421+70.06
@ DTR_RMP_E3
DTR_WB-3
@ DTR_WB
DTR_RMP_E3-2
BEGIN BRIDGE B-6XX
@ DTR_RMP_E1 STA. 30+29.48
DTR_RMP_E1-3
PCC 37+
MATCHLINE DTR_RMP_E3 STA 23+00.00 SEE PLAN SHEET IG(6)
BEGIN CONSTRUCTION
DTR RAMP GIO
@ DTR_RMP_GIO PCC 17+70.00
PCC 15+31.03
DTR_RMP_GIO-2
DTR_RMP_GIO-1
PC 11+85.03
300' Taper
60' Taper
Add'l Lane
Merge

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	IG(2)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(3)

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

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

Curve 495XL_SB-4
PI = 174+50.56
DELTA = 13° 47' 30.39" (LT)
D = 2° 51' 53"
T = 241.88'
L = 481.42'
R = 2,000.00'
PC = 172+08.68
PT = 176+90.11
FOR INFORMATION ONLY

Curve 495XL_NB-4
PI = 572+30.83
DELTA = 4° 25' 11.02" (LT)
D = 0° 30' 46"
T = 431.27'
L = 862.10'
R = 11,176.00'
PC = 567+99.56
PT = 576+61.67
DESIGN SPEED = 70 MPH
e = 2.0%
Lr = 110' (PC)
= 120' (PT)

Curve DTR_RMP_EI-6
PI = 45+00.29
DELTA = 4° 04' 11.53" (LT)
D = 1° 03' 33"
T = 192.22'
L = 384.29'
R = 5,410.00'
PC = 43+08.06
PRC = 46+92.35
DESIGN SPEED = 40 MPH
e = NC

Curve DTR_RMP_EI-7
PI = 48+47.48
DELTA = 2° 12' 28.67" (RT)
D = 0° 42' 42"
T = 155.13'
L = 310.22'
R = 8,050.00'
PRC = 46+92.35
PT = 50+02.57
DESIGN SPEED = 50 MPH
e = NC

Curve LEW_TRL-1
PI = 9+65.76
DELTA = 90° 00' 00.00" (RT)
D = 381° 58' 19"
T = 15.00'
L = 23.56'
R = 15.00'
PC = 9+50.76
PT = 9+74.32
DESIGN SPEED = 20 MPH
e = NC
Lr = N/A

Curve LEW_TRL-2
PI = 10+75.89
DELTA = 121° 25' 29.65" (LT)
D = 163° 42' 08"
T = 62.40'
L = 74.17'
R = 35.00'
PC = 10+13.49
PT = 10+87.66
DESIGN SPEED = 20 MPH
e = NC
Lr = N/A

Curve LEW_TRL-3
PI = 11+34.74
DELTA = 19° 47' 40.41" (RT)
D = 95° 29' 35"
T = 10.47'
L = 20.73'
R = 60.00'
PC = 11+24.27
PT = 11+45.00
DESIGN SPEED = 20 MPH
e = NC
Lr = N/A

BEGIN CONSTRUCTION
LEWINSVILLE SHARED USE PATH
BEGIN ℄ LEW_TRL POC 9+91.98

BEGIN ℄ LEW_TRL POC 9+00.00

END CONSTRUCTION
DULLES TOLL ROAD RAMP EI
END ℄ DTR_RMP_EI PT 50+02.57 =
℄ 495XL_NB STA. 573+26.69, 12.00' RT.

END CONSTRUCTION
DULLES TOLL ROAD RAMP GIO
END ℄ DTR_RMP_GIO POT 25+63.54 =
℄ 495GP_NB STA. 1078+22.23, 48.00' RT.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

REVISIONS		
No.	Description	Date
4	Revised Lewinsville SUP Alignment	04/06/2021

Curve DTR_RMP_GIO-3
PI = 18+78.62
DELTA = 16° 11' 58.92" (RT)
D = 7° 38' 22"
T = 106.74'
L = 212.05'
R = 750.00'
PCC = 17+71.88
PT = 19+83.94
DESIGN SPEED = 30 MPH
e = 5.00%
Lr = 107'

Curve DTR_RMP_GIO-4
PI = 23+51.57
DELTA = 2° 58' 51.36" (RT)
D = 0° 42' 11"
T = 212.06'
L = 424.02'
R = 8,150.00'
PC = 21+39.51
PT = 25+63.54
DESIGN SPEED = 50 MPH
e = N/C
Lr = N/A

Curve 495GP_NB-3
PI = 1072+87.57
DELTA = 1° 33' 05.79" (RT)
D = 0° 14' 20"
T = 324.83'
L = 649.61'
R = 23,988.00'
PC = 1069+62.75
PRC = 1076+12.36
DESIGN SPEED = 60 MPH
e = NC
Lr = N/A

Curve 495GP_NB-4
PI = 1079+42.52
DELTA = 2° 36' 23.90" (LT)
D = 0° 23' 41"
T = 330.16'
L = 660.22'
R = 14,512.00'
PRC = 1076+12.36
PRC = 1082+72.58
DESIGN SPEED = 60 MPH
e = 2.00% (NC)
Lr = N/A

Curve 495GP_NB-5
PI = 1086+93.61
DELTA = 0° 54' 38.81" (RT)
D = 0° 06' 29"
T = 421.03'
L = 842.05'
R = 52,972.00'
PRC = 1082+72.58
PT = 1092+43.06
DESIGN SPEED = 70 MPH
e = 2.00% (NC)
Lr = N/A

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1G(3)

Thursday, April 01, 2021 05:50:54 PM
5:50:54 PM

d:xxxxxxsht-01G(04).dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	1G(4)

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

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

Curve 495GP_NB-5
PI = 1086+93.61
DELTA = 0° 54' 38.81" (RT)
D = 0° 06' 29"
T = 421.03'
L = 842.05'
R = 52,972.00'
PRC = 1082+72.58
PT = 1092+43.06
DESIGN SPEED = 60 MPH
e = 2.00% (NC)
Lr = N/A

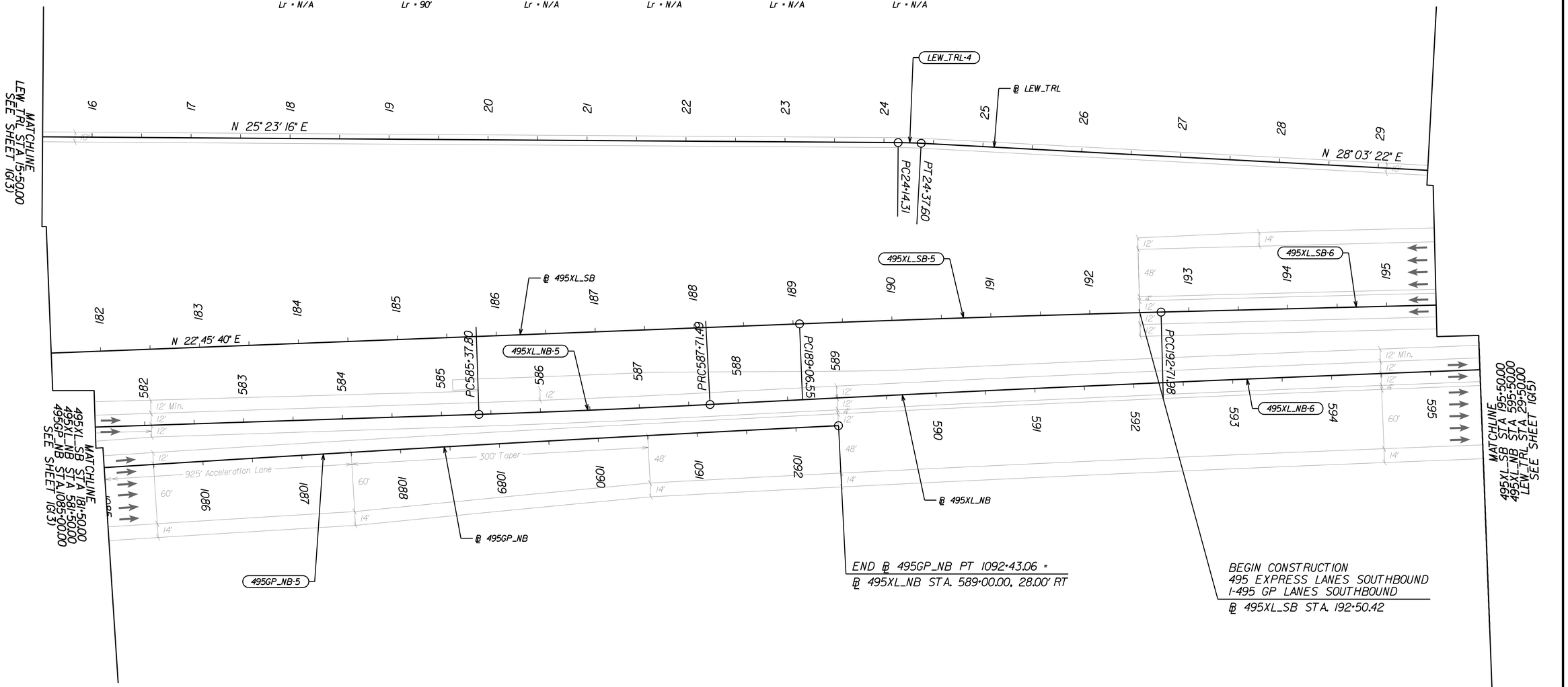
Curve 495XL_NB-5
PI = 586+54.65
DELTA = 1° 06' 52.92" (LT)
D = 0° 28' 37"
T = 116.85'
L = 233.70'
R = 12,012.00'
PC = 585+37.80
PRC = 587+71.49
DESIGN SPEED = 70 MPH
e = 2.00% (RC)
Lr = 90'

Curve 495XL_NB-6
PI = 598+40.82
DELTA = 2° 18' 42.03" (RT)
D = 0° 06' 29"
T = 1,069.32'
L = 2,138.36'
R = 53,000.00'
PRC = 587+71.49
PT = 609+09.85
DESIGN SPEED = 70 MPH
e = NC
Lr = N/A

Curve 495XL_SB-5
PI = 190+89.27
DELTA = 0° 44' 51.98" (RT)
D = 0° 12' 17"
T = 182.72'
L = 365.43'
R = 28,000.00'
PC = 189+06.55
PCC = 192+71.98
DESIGN SPEED = 70 MPH
e = NC
Lr = N/A

Curve 495XL_SB-6
PI = 200+56.11
DELTA = 0° 17' 58.26" (RT)
D = 0° 01' 08.75"
T = 784.13'
L = 1,568.26
R = 300,000.00'
PC = 192+71.98
PT = 208+40.24
DESIGN SPEED = 70 MPH
e = NC
Lr = N/A

Curve LEW_TRL-4
PI = 24+25.96
DELTA = 2° 40' 06.24" (RT)
D = 11° 27' 33"
T = 11.65'
L = 23.29'
R = 500.00'
PC = 24+14.31
PT = 24+37.60
DESIGN SPEED = 20 MPH
e = NC
Lr = N/A



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1G(4)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(5)

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

Curve 495XL_NB-6
PI = 598+40.82
DELTA = 2°18' 42.03" (RT)
D = 0°06' 29"
T = 1,069.32'
L = 2,138.36'
R = 53,000.00'
PRC = 587+71.49
PT = 609+09.85
DESIGN SPEED = 70 MPH
e = 2.00% (NC)
Lr = N/A

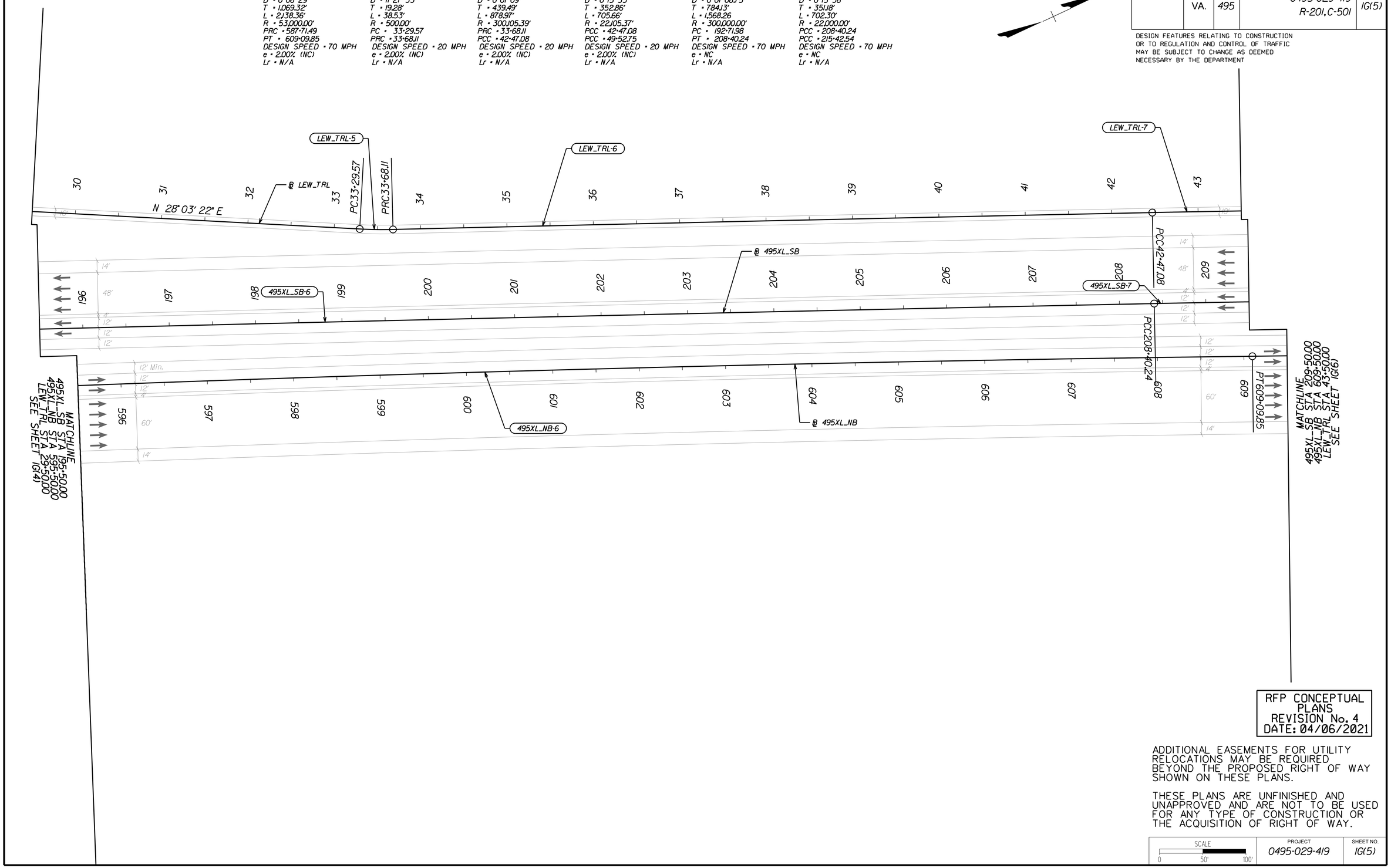
Curve LEW_TRL-5
PI = 33+48.85
DELTA = 4°24' 55.82" (LT)
D = 11°27' 33"
T = 19.28'
L = 38.53'
R = 500.00'
PC = 33+29.57
PRC = 33+68.11
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-6
PI = 38+07.59
DELTA = 0°10' 04.13" (RT)
D = 0°01' 09"
T = 439.49'
L = 878.97'
R = 3,005.39'
PRC = 33+68.11
PCC = 42+47.08
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-7
PI = 45+99.94
DELTA = 1°49' 44.54" (RT)
D = 0°15' 33"
T = 352.86'
L = 705.66'
R = 22,105.37'
PCC = 42+47.08
PCC = 49+52.75
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve 495XL_SB-6
PI = 200+56.11
DELTA = 0°17' 58.26" (RT)
D = 0°01' 08.75"
T = 784.13'
L = 1,568.26
R = 3,000,000.00'
PC = 192+71.98
PT = 208+40.24
DESIGN SPEED = 70 MPH
e = NC
Lr = N/A

Curve 495XL_SB-7
PI = 211+91.42
DELTA = 1°49' 44.54" (RT)
D = 0°15' 38"
T = 351.18'
L = 702.30'
R = 22,000.00'
PCC = 208+40.24
PCC = 215+42.54
DESIGN SPEED = 70 MPH
e = NC
Lr = N/A



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1G(5)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

MATCHLINE ODD STA 17+50.00 SC-RUN_TRL STA 11+50.00 SEE SHEET 1G(17)

S 78° 37' 45" E

PC12+21.09

SC-RUN_TRL-2

℄ SC-RUN TRL

PT14+01.15

END CONSTRUCTION SCOTTS RUN CONNECTOR SHARED USE PATH
℄ SC_RUN_TRL POT 15+91.39 =
℄ LEW_TRL STA. 45+08.52

SC-RUN_TRL-3

S 24° 32' 06" W

PC14+51.14

PT15+67.44

LEW_TRL-7

S 65° 30' 45" E

ODD-2

PT19+28.96

BEGIN BRIDGE B-6XX
℄ ODD STA. 20+52.96

PC50+45.00

PC49+52.75

LEW_TRL-8

LEW_TRL-9

PT50+69.22

BEGIN BRIDGE B-6XX
℄ 495XL_SB STA. 217+45.15

END BRIDGE B-6XX
℄ 495XL_SB STA. 219+08.55

PC54+95.85

LEW_TRL-10

PCC55+20.07

LEW_TRL-11

℄ LEW_TRL

N 29° 29' 26" E

℄ 495XL_SB

495XL_SB-7

600' Taper

1440' Acceleration Lane

495XL_SB-8

TIE TO EXIST BARRIER

S 70° 47' 26" E

PCC25+42.54

N 24° 18' 11" E

PC613+81.36

℄ 495XL_NB

495XL_NB-7

MATCHLINE 495XL_SB STA 209+50.00 495XL_NB STA 609+50.00 LEW_TRL STA 43+50.00 SEE SHEET 1G(15)

MATCHLINE 495XL_SB STA 223+50.00 495XL_NB STA 623+50.00 LEW_TRL STA 57+75.00 SEE SHEET 1G(7)

END BRIDGE B-6XX
℄ ODD STA. 24+93.33

℄ ODD

PC25+03.88

ODD-3

BEGIN BRIDGE B-6XX
℄ 495XL_NB STA. 616+37.38

END BRIDGE B-6XX
℄ 495XL_NB STA. 618+02.38

MATCHLINE ODD STA 26+50.00 SEE SHEET 1G(17)

Curve 495XL_SB-7
PI = 211+91.42
DELTA = 1° 49' 44.54" (RT)
D = 0° 15' 38"
T = 351.18'
L = 702.30'
R = 22,000.00'
PCC = 208+40.24
PCC = 215+42.54
DESIGN SPEED = 70 MPH
e = NC
Lr = N/A

Curve 495XL_SB-8
PI = 223+23.06
DELTA = 18° 28' 18.58" (RT)
D = 1° 11' 37"
T = 780.52'
L = 1,547.49'
R = 4,800.00'
PCC = 215+42.54
PT = 230+90.03
DESIGN SPEED = 70 MPH
e = 4.30%
Lr = 473'

Curve SC-RUN_TRL-2
PI = 13+47.18
DELTA = 103° 09' 50.63" (RT)
D = 57° 17' 45"
T = 126.09'
L = 180.06'
R = 100.00'
PC = 12+21.09
PT = 14+01.15
DESIGN SPEED = 20 MPH
e = NC
Lr = N/A

Curve SC-RUN_TRL-3
PI = 15+25.20
DELTA = 90° 02' 51.56" (LT)
D = 77° 25' 36"
T = 74.06'
L = 116.30'
R = 74.00'
PC = 14+51.14
PT = 15+67.44
DESIGN SPEED = 20 MPH
e = NC
Lr = N/A

Curve LEW_TRL-7
PI = 45+99.94
DELTA = 1° 49' 44.54" (RT)
D = 0° 15' 33"
T = 352.86'
L = 705.66'
R = 22,105.37'
PCC = 42+47.08
PCC = 49+52.75
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-8
PI = 49+98.87
DELTA = 1° 04' 39.02" (RT)
D = 1° 10' 05"
T = 46.13'
L = 92.25'
R = 4,905.37'
PCC = 49+52.75
PCC = 50+45.00
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-9
PI = 50+57.11
DELTA = 2° 46' 31.73" (RT)
D = 11° 27' 33"
T = 12.11'
L = 24.22'
R = 500.00'
PCC = 50+45.00
PT = 50+69.22
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-10
PI = 55+07.97
DELTA = 2° 46' 31.73" (RT)
D = 11° 27' 33"
T = 12.11'
L = 24.22'
R = 500.00'
PC = 54+95.85
PCC = 55+20.07
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-11
PI = 60+28.87
DELTA = 11° 50' 36.11" (RT)
D = 1° 10' 05"
T = 508.80'
L = 1,013.97'
R = 4,905.37'
PCC = 55+20.07
PT = 65+34.04
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve ODD-2
PI = 17+48.87
DELTA = 19° 31' 55.79" (RT)
D = 5° 22' 11"
T = 183.65'
L = 363.74'
R = 1,067.00'
PC = 15+65.22
PT = 19+28.96
DESIGN SPEED = 45 MPH
e = 3.7%
Lr = 83'

Curve ODD-3
PI = 27+16.14
DELTA = 5° 59' 18.17" (RT)
D = 1° 24' 43"
T = 212.26'
L = 424.13'
R = 4,058.00'
PC = 25+03.88
PRC = 29+28.01
DESIGN SPEED = 45 MPH
e = 2.0%
Lr = 45'

Curve 495XL_NB-7
PI = 621+95.39
DELTA = 19° 49' 26.95" (RT)
D = 1° 13' 48"
T = 814.03'
L = 1,611.79'
R = 4,658.40'
PC = 613+81.36
PT = 629+93.15
DESIGN SPEED = 70 MPH
e = 4.40%
Lr = 484'

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1G(6)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(7)

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

Curve LEW_TRL-11
PI = 60+28.87
DELTA = 11° 50' 36.1" (RT)
D = 1° 10' 05"
T = 508.80'
L = 1,013.97'
R = 4,905.37'
PCC = 55+20.07
PT = 65+34.04
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

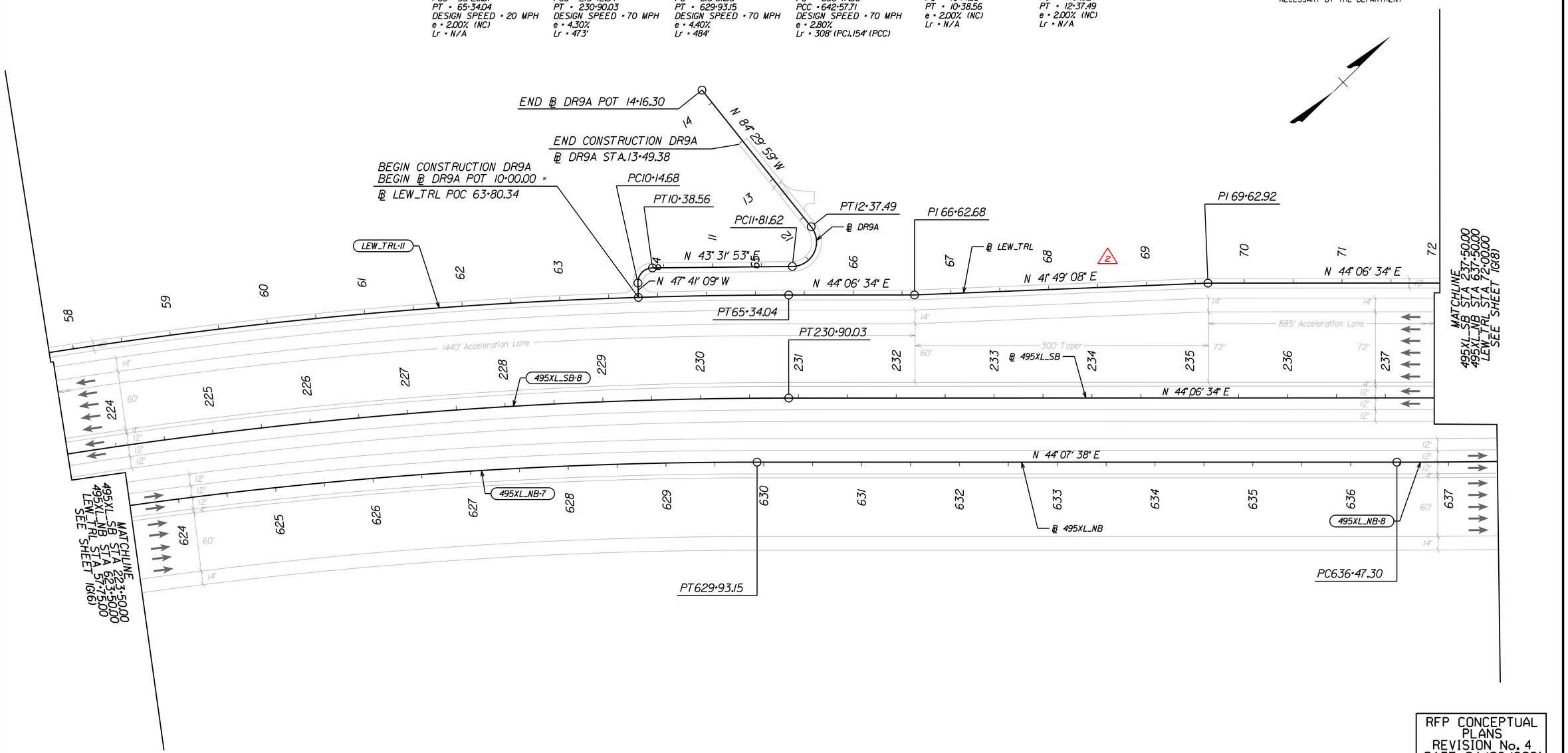
Curve 495XL_SB-8
PI = 223+23.06
DELTA = 18° 28' 18.58" (RT)
D = 1° 11' 37"
T = 780.52'
L = 1,547.49'
R = 4,800.00'
PCC = 215+42.54
PT = 230+90.03
DESIGN SPEED = 70 MPH
e = 4.30%
Lr = 473'

Curve 495XL_NB-7
PI = 621+95.39
DELTA = 19° 49' 26.95" (RT)
D = 1° 13' 48"
T = 814.03'
L = 1,611.79'
R = 4,658.40'
PC = 613+81.36
PT = 629+93.15
DESIGN SPEED = 70 MPH
e = 4.40%
Lr = 484'

Curve 495XL_NB-8
PI = 639+52.66
DELTA = 4° 30' 21.00" (LT)
D = 0° 44' 17"
T = 305.37'
L = 610.42'
R = 7,762.00'
PC = 636+47.30
PCC = 642+57.71
DESIGN SPEED = 70 MPH
e = 2.80%
Lr = 308' (PC), 154' (PCC)

Curve DR9A-1
PI = 10+30.00
DELTA = 91° 13' 01.9" (RT)
D = 381° 58' 19"
T = 15.32'
L = 23.88'
R = 15.00'
PC = 10+14.68
PT = 10+38.56
e = 2.00% (NC)
Lr = N/A

Curve DR9A-2
PI = 12+32.92
DELTA = 128° 01' 52.2" (LT)
D = 229° 10' 59"
T = 51.29'
L = 55.86'
R = 25.00'
PC = 11+81.62
PT = 12+37.49
e = 2.00% (NC)
Lr = N/A



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Modified alignment	12/18/2020

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1G(7)

Thursday, April 01, 2021 05:51:13 PM
5:51:13 PM

dxxxxxxsht-01(G08).dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IG(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 MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

Curve 495XL_SB-9
PI = 250+90.06
DELTA = 27° 06' 59.87" (LT)
D = 1° 11' 28"
T = 1,159.96'
L = 2,276.45'
R = 4,810.00'
PC = 239+30.10
PT = 262+06.55
DESIGN SPEED = 70 MPH
e = 4.20%
Lr = 525' (PC)
409' (PT)

Curve 495XL_NB-8
PI = 639+52.66
DELTA = 4° 30' 21.00" (LT)
D = 0° 44' 17"
T = 305.37'
L = 610.42'
R = 7,762.00'
PC = 636+47.30
PCC = 642+57.71
DESIGN SPEED = 70 MPH
e = 2.80%
Lr = 308' (PC)
154' (PCC)

Curve 495XL_NB-9
PI = 652+25.82
DELTA = 22° 34' 36.77" (LT)
D = 1° 10' 53"
T = 968.11'
L = 1,911.10'
R = 4,850.00'
PCC = 642+57.71
PT = 661+68.81
DESIGN SPEED = 70 MPH
e = 4.20%
Lr = 154' (PCC)
399' (PT)

Curve GTP_RMP_SW-1
PI = 13+34.19
DELTA = 19° 32' 51.68" (LT)
D = 3° 17' 34"
T = 299.73'
L = 593.64'
R = 1,740.00'
PC = 10+34.45
PT = 16+28.09
DESIGN SPEED = 50 MPH
e = 5.70%
Lr = 160' (PC) 206' (PT)

Curve LEW_TRL-12
PI = 76+60.37
DELTA = 9° 22' 56.76" (LT)
D = 1° 14' 12"
T = 380.16'
L = 758.61'
R = 4,632.63'
PC = 72+80.22
PCC = 80+38.83
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-13
PI = 80+92.28
DELTA = 20° 12' 11.27" (LT)
D = 19° 05' 55"
T = 53.45'
L = 105.78'
R = 300.00'
PCC = 80+38.83
PRC = 81+44.61
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-14
PI = 82+00.74
DELTA = 21° 11' 44.23" (RT)
D = 19° 05' 55"
T = 56.13'
L = 110.98'
R = 300.00'
PRC = 81+44.61
PRC = 82+55.59
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-15
PI = 83+34.76
DELTA = 29° 33' 57.05" (LT)
D = 19° 05' 55"
T = 79.17'
L = 154.81'
R = 300.00'
PRC = 82+55.59
PRC = 84+10.40
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-16
PI = 84+95.00
DELTA = 31° 29' 44.55" (RT)
D = 19° 05' 55"
T = 84.60'
L = 164.91'
R = 300.00'
PRC = 84+10.40
PRC = 85+75.31
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-17
PI = 86+24.73
DELTA = 18° 42' 32.57" (LT)
D = 19° 05' 55"
T = 49.42'
L = 97.96'
R = 300.00'
PRC = 85+75.31
PT = 86+73.27
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

BEGIN CONSTRUCTION
GEORGETOWN PIKE RAMP SW
BEGIN ℄ GTP_RMP_SW PC 10+34.45 =
℄ 495XL_SB STA. 244+02.03, 76.00' LT

PC72+80.22
PC239+30.10
PCC642+57.71
PRC84+10.40
PRC81+44.61
PCC80+38.83
PRC82+55.59
PT16+28.09
PRC15+22.03

LEW_TRL-12
℄ LEW_TRL
LEW_TRL-13
LEW_TRL-14
LEW_TRL-15
LEW_TRL-16
GTP_RMP_SW-1
℄ GTP_RMP_SW
495XL_SB-9
℄ 495XL_SB
495XL_NB-8
℄ 495XL_NB
495XL_NB-9
GTP_RMP_SE-1
℄ GTP_RMP_SE
GTP_RMP_SE-2
℄ BH_RD

885' Acceleration Lane
120' Taper
N 44° 06' 34" E

MATCHLINE
495XL_SB STA 237+50.00
495XL_NB STA 637+50.00
LEW_TRL STA 72+00.00
SEE SHEET IG(7)

MATCHLINE STA 17+50.00
GTP_RMP_SW STA 85+50.00
LEW_TRL STA 85+50.00
SEE SHEET IG(9)

MATCHLINE STA 251+50.00
495XL_SB STA 651+50.00
495XL_NB STA 651+18.00.00
GTP_RMP_SE STA 651+18.00
SEE SHEET IG(9)

MATCHLINE
SEE SHEET IG(8)

BEGIN CONSTRUCTION
GEORGETOWN PIKE RAMP SE
BEGIN ℄ GTP_RMP_SE PT 10+00.00 =
℄ 495XL_NB STA. 643+77.94, 64.00' RT.

BEGIN ℄ BH_RD POT 10+00.00

Curve GTP_RMP_SE-1
PI = 12+61.23
DELTA = 5° 41' 49.61" (RT)
D = 1° 05' 29"
T = 261.23'
L = 522.03'
R = 5,250.00'
PC = 10+00.00
PRC = 15+22.03
DESIGN SPEED = 50 MPH
e = 2.30%
Lr = 65'

Curve GTP_RMP_SE-2
PI = 18+33.26
DELTA = 18° 36' 21.67" (LT)
D = 3° 00' 56"
T = 311.24'
L = 617.00'
R = 1,900.00'
PRC = 15+22.03
PT = 21+39.02
DESIGN SPEED = 50 MPH
e = 5.30%
Lr = 128'

REVISIONS		
No.	Description	Date
2	Modified alignments and curve data	12/18/2020
4	Revised Lewinsville SUP Alignment	04/06/2021

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	IG(8)

Thursday, April 01, 2021 05:51:18 PM
5:51:18 PM

dxxxxxxsht-01(G09).dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY, DATE _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IG(9)

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

MATCHLINE GTP STA 17+00.00 SEE SHEET IG(18)

END CONSTR. LEWINSVILLE SHARED USE PATH
℄ LEW_TRL PT 89+74.92
℄ GTP STA. 17+46.57, 66.33' RT
END CONSTRUCTION - GTP RAMP SW
END ℄ GTP_RMP_SW POT 21+72.30 =
℄ GTP POC 18+83.40
PRC85+75.31
℄ LEW_TRL N 18° 56' 25" E
PT86+73.27
N 18° 56' 25" E
PC88+35.33
℄ GTP_RMP_SW
LEW_TRL-19
LEW_TRL-18
LEW_TRL-17

BEGIN CONSTRUCTION GWMP RAMP G21
BEGIN ℄ GWMP_RMP_G21 PC 2+06.49 =
℄ 495XL_SB STA. 254+04.04, 64.00' LT.
PT19+49.15

MATCHLINE GTP_RMP_SE STA 17+50.00 SEE SHEET IG(8)

PCC89+09.40

BEGIN CONSTRUCTION
GEORGETOWN PIKE RAMP NW
BEGIN ℄ GTP_RMP_NW POT 4+61.06 =
℄ GTP POC 18+74.49
BEGIN BRIDGE B-6XX
℄ GTP STA. 19+77.97
℄ GTP_RMP_NW
N 35° 19' 17" E

Curve GTP_RMP_NW-1
PI = 10+11.00
DELTA = 16° 44' 17.73" (LT)
D = 5° 31' 11"
T = 152.71'
L = 303.24'
R = 1,038.00'
PC = 8+58.30
PCC = 11+61.53
DESIGN SPEED = 30 MPH
e = 4.00%
Lr = 110'

BEGIN BRIDGE B-6XX
℄ GTP_RMP_NW STA. 7+55.96
PC8+58.30

Curve GTP_RMP_NW-2
PI = 13+05.71
DELTA = 2° 36' 55.19" (LT)
D = 0° 54' 26"
T = 144.18'
L = 288.30'
R = 6,316.00'
PCC = 11+61.53
PRC = 14+49.84
DESIGN SPEED = 30 MPH
e = NC
Lr = N/A

END BRIDGE B-6XX
℄ GTP_RMP_NW STA. 9+00.56
PRC9+97.09

Curve GWMP_RMP_G21-1
PI = 4+60.78
DELTA = 24° 00' 25.23" (LT)
D = 4° 47' 26"
T = 254.29'
L = 501.13'
R = 1,196.00'
PC = 2+06.49
PRC = 7+07.61
DESIGN SPEED = 50 MPH
e = 7.00%
Lr = 197'

Curve GWMP_RMP_G21-2
PI = 8+54.22
DELTA = 22° 21' 09.81" (RT)
D = 7° 43' 18"
T = 146.60'
L = 289.48'
R = 742.00'
PRC = 7+07.61
PRC = 9+97.09
DESIGN SPEED = 30 MPH
e = 5.00%
Lr = 107'

Curve GWMP_RMP_G21-3
PI = 13+66.23
DELTA = 7° 00' 55.90" (LT)
D = 0° 57' 05"
T = 369.14'
L = 737.36'
R = 6,022.00'
PRC = 9+97.09
PRC = 17+34.45
DESIGN SPEED = 30 MPH
e = N/C

℄ GWMP_RMP_G21
GWMP_RMP_G21-3
GWMP_RMP_G21-2
PCC11+61.53
GTP_RMP_NW-2
PRC14+49.84
GWMP_RMP_G21-1
℄ GWMP_RMP_G21
PRC7+07.61
GTP_RMP_NW-1

MATCHLINE 495XL_SB STA 265+50.00
495XL_NB STA 665+50.00
GTP_RMP_NW STA 14+50.00
GWMP_RMP_G21 STA 13+50.00
SEE SHEET IG(10)

PT 262+06.55
℄ 495XL_SB
N 16° 59' 34" E
495XL_SB-9

MATCHLINE 495XL_NB STA 655+50.00
GWMP_RMP_G21 STA 251+50.00
SEE SHEET IG(8)

℄ GTP POT 21+68.89 =
℄ 495XL_NB POC 655+20.00
S 65° 44' 48" E
℄ 495XL_NB
495XL_NB-9
PT661+68.81
N 17° 02' 41" E

END BRIDGE B-6XX
℄ GTP STA. 22+67.31
PT21+39.02

BEGIN CONSTRUCTION
GTP RAMP NE
BEGIN ℄ GTP_RMP_NE POT 10+00.00 =
℄ GTP POT 23+97.43
N 12° 48' 11" E
PC17+45.04
GTP_RMP_NE-1
PT 28+95.54

GTP_RMP_SE-2
℄ GTP_RMP_SE
℄ GTP_RMP_NE
℄ GTP
PC24+58.08
GTP_3

Curve 495XL_SB-9
PI = 250+90.06
DELTA = 27° 06' 59.87" (LT)
D = 1° 11' 28"
T = 1,159.96'
L = 2,276.45'
R = 4,810.00'
PC = 239+30.10
PT = 262+06.55
DESIGN SPEED = 70 MPH
e = 4.20%
Lr = 525' (PC), 409' (PT)

END CONSTRUCTION GTP RAMP SE
END ℄ GTP_RMP_SE POT 21+81.02 =
℄ GTP POT 21+81.02

Curve GTP-3
PI = 29+65.77
DELTA = 14° 28' 01.10" (LT)
D = 1° 25' 57"
T = 507.69'
L = 1,009.99'
R = 4,000.00'
PC = 24+58.08
PT = 34+68.06
DESIGN SPEED = 40 MPH
e = 2.0%
Lr = 104'

Curve BH_RD-3
PI = 28+58.66
DELTA = 2° 06' 49.77" (LT)
D = 2° 51' 53.24"
T = 36.90'
L = 73.79'
R = 2,000.00'
PC = 28+21.76
PT = 28+95.54
FOR INFORMATION ONLY

Curve GTP_RMP_NE-1
PI = 19+67.72
DELTA = 4° 14' 29.99" (RT)
D = 0° 57' 10"
T = 222.68'
L = 445.15'
R = 6,013.00'
PC = 17+45.04
PT = 21+90.19
DESIGN SPEED = 50 MPH
e = 2.0%
Lr = 64'

Curve 495XL_NB-9
PI = 652+25.82
DELTA = 22° 34' 36.77" (LT)
D = 1° 10' 53"
T = 968.11'
L = 1,911.10'
R = 4,850.00'
PCC = 642+57.71
PT = 661+68.81
DESIGN SPEED = 70 MPH
e = 4.20%
Lr = 154' (PCC)
399' (PT)

Curve LEW_TRL-18
PI = 88+77.92
DELTA = 70° 43' 56.96" (LT)
D = 95° 29' 35"
T = 42.59'
L = 74.07'
R = 60.00'
PC = 88+35.33
PCC = 89+09.40
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve LEW_TRL-19
PI = 89+42.33
DELTA = 14° 26' 15.42" (LT)
D = 22° 02' 13"
T = 32.93'
L = 65.52'
R = 260.00'
PCC = 89+09.40
PT = 89+74.92
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

MATCHLINE 29+50.00
BH_RD STA 20+84.50
BH_TRL STA 20+84.50
SEE SHEET IG(10)

BH_TRL-4
℄ BH_TRL
PCI8+19.59
PC28+21.76
BH_RD-3

Curve BH_TRL-4
PI = 20+12.19
DELTA = 2° 25' 43.28" (LT)
D = 0° 37' 50"
T = 192.60'
L = 385.14'
R = 9,085.98'
PC = 18+19.59
PT = 22+04.73
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

N 2° 06' 00" E
N 1° 58' 09" E
℄ BH_RD

MATCHLINE GTP STA 25+50.00
SEE SHEET IG(18)

MATCHLINE BH_RD STA 23+09.00
BH_TRL STA 14+35.08
SEE SHEET IG(18)

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Modified alignments and curve data	12/18/2020
4	Revised Lewinsville SUP Alignment	04/06/2021

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	IG(9)

Thursday, April 01, 2021 05:51:23 PM
5:51:23 PM

dxxxxxxsht-01G(10).dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(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 MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

Curve 495XL_SB-10
PI = 275+88.40
DELTA = 38° 08' 51.00" (RT)
D = 3° 03' 50"
T = 646.59'
L = 1,245.05'
R = 1,870.00'
PC = 269+41.82
PCC = 281+86.86
DESIGN SPEED = 60 MPH
e = 7.00%
Lr = 685'

Curve 495XL_NB-10
PI = 675+78.40
DELTA = 43° 25' 53.26" (RT)
D = 2° 55' 24"
T = 780.58'
L = 1,485.68'
R = 1,959.94'
PC = 667+97.82
PT = 682+83.50
DESIGN SPEED = 60 MPH
e = 6.80%
Lr = 665'

3

Curve GTP_RMP_NW-3
PI = 16+90.07
DELTA = 5° 25' 40.57" (RT)
D = 1° 07' 50"
T = 240.24'
L = 480.12'
R = 5,068.00'
PRC = 14+49.84
PCC = 19+29.95
DESIGN SPEED = 30 MPH
e = NC
Lr = N/A

Curve GTP_RMP_NW-4
PI = 22+01.41
DELTA = 16° 47' 05.17" (RT)
D = 3° 06' 50"
T = 271.46'
L = 539.03'
R = 1,840.00'
PCC = 19+29.95
PT = 24+68.98
DESIGN SPEED = 50 MPH
e = 5.40%
Lr = 152'

Curve GWMP_RMP_G21-4
PI = 21+72.47
DELTA = 24° 45' 16.32" (RT)
D = 2° 52' 14"
T = 438.02'
L = 862.37'
R = 1,996.00'
PRC = 17+34.45
PCC = 25+96.82
DESIGN SPEED = 30 MPH
e = 2.40%
Lr = 52'

Curve LOD-1
PI = 12+48.46
DELTA = 1° 27' 09.26" (RT)
D = 5° 43' 46"
T = 65.13'
L = 130.07'
R = 1,000.00'
PC = 11+83.33
PCC = 13+13.40
DESIGN SPEED = 25 MPH
e = NC
Lr = N/A

2

Curve GTP_NW_SLIP-1
PI = 10+55.22
DELTA = 1° 57' 10.43" (LT)
D = 1° 46' 06"
T = 55.22'
L = 110.43'
R = 3,240.00'
PC = 10+00.00
PRC = 11+10.43
DESIGN SPEED = 30 MPH
e = NC

Curve GTP_NW_SLIP-2
PI = 11+75.68
DELTA = 2° 18' 26.29" (RT)
D = 1° 46' 06"
T = 65.25'
L = 130.47'
R = 3,240.00'
PRC = 11+10.43
PT = 12+40.91
DESIGN SPEED = 30 MPH
e = NC

Curve GWMP_RMP_E21-1
PI = 8+01.10
DELTA = 14° 55' 39.13" (RT)
D = 4° 11' 30"
T = 179.08'
L = 356.13'
R = 1,366.93'
PC = 6+22.02
PT = 9+78.15
DESIGN SPEED = 60 MPH
e = 8.00%
Lr = 251'

END BRIDGE B-6XX
℄ LOD_BR STA. 14+40.43

2

END CONSTRUCTION GTP RAMP NW
END ℄ GTP_RMP_NW POT 25+53.73 =
℄ 495XL_SB STA. 276+33.33, 64.00' LT

BEGIN CONSTRUCTION
LIVE OAK DRIVE
℄ LOD STA. 10+00.00=
℄ LOD_BR STA. 14+72.28

END CONSTRUCTION GTP NW SLIP RAMP
END ℄ GTP_NW_SLIP PT 12+40.91 =
℄ GWMP_RMP_G21 STA. 17+34.45

PRC17+34.45
PCC19+29.95
PRC11+10.43
PC269+41.82
PC667+97.82
PC24+50.31
PCC26+16.26
PT35+21.19
PC32+99.30
PT22+04.73
PCC25+96.82
PT24+68.98
PC39+02.20
PT41+44.15

GTP_RMP_NW-5
GWMP_RMP_G21-4
℄ GTP_RMP_NW
GTP_RMP_NW-4
GTP_RMP_NW-3
℄ GTP_NW_SLIP
℄ GTP_RMP_G21
GWMP_RMP_G21-3
GTP_NW_SLIP-2
GTP_NW_SLIP-1
495XL_SB-10
℄ 495XL_SB
℄ 495XL_NB
495XL_NB-10
BH_TRL-6
BH_TRL-5
BH_RD-4
GTP_RMP_NE-1
BH_TRL-4
BH_RD-5
GWMP_RMP_E21-1
℄ LOD
℄ LOD_BR
℄ BH_TRL
℄ BH_RD

N 49° 03' 51" E
N 38° 10' 49" E
N 16° 59' 34" E
N 17° 02' 41" E
N 0° 19' 43" W
N 0° 08' 40" W
N 38° 22' 50" E
N 87° 53' 26" E
N 47° 00' 10" W

300' Taper
840' Transition
645' Acceleration Lane
545' Deceleration Lane

BEGIN CONSTRUCTION GWMP RAMP E21
BEGIN ℄ GWMP_RMP_E21 PC 6+22.02 =
℄ 495XL_SB STA. 278+04.43, 12.00' RT.

BEGIN CONSTRUCTION
BALLS HILL ROAD
℄ BH_RD STA. 33+69.17

END CONSTRUCTION BALLS HILL
SHARED USE PATH PAVEMENT
BEGIN CONSTRUCTION OF
GRADING AND GRAVEL FOR FUTURE
BALLS HILL SHARED USE PATH
℄ BH_TRL STA. 27+00.00

BEGIN CONSTRUCTION
LIVE OAK DRIVE
℄ LOD_BR STA. 10+25.00
BEGIN ℄ LOD_BR POT 10+00.00 =
℄ BH_RD STA. 40+14.84, 23.83' RT.

BEGIN BRIDGE B-6XX
℄ LOD_BR STA. 10+81.10

END CONSTR.
BALLS HILL RD
℄ BH_RD STA. 40+53.03

END ℄ BH_RD
POT 42+60.82

BEGIN CONSTRUCTION
GTP NW SLIP RAMP
BEGIN ℄ GTP_NW_SLIP
PC 10+00.00 =
℄ GTP_RMP_NW
STA. 15+87.85, 12.00' LT

END CONSTRUCTION GTP RAMP NE
END ℄ GTP_RMP_NE PT 21+90.19=
℄ 495XL_NB STA. 666+87.05, 64.00' RT.

MATCHLINE
495XL_SB STA 279+50.00
495XL_NB STA 679+50.00
GWMP_RMP_G21 STA 28+00.00
GWMP_RMP_E21 STA 13+25.00
LOD_BR STA 7+66.62
BH_RL STA 34+00.00
SEE SHEET 1G(11)

MATCHLINE
495XL_SB STA 265+50.00
495XL_NB STA 665+50.00
GTP_RMP_NW STA 14+50.00
GWMP_RMP_G21 STA 13+50.00
SEE SHEET 1G(9)

MATCHLINE
BH_RD STA 29+50.00
BH_TRL STA 20+84.50
SEE SHEET 1G(9)

Curve BH_RD-4
PI = 34+14.62
DELTA = 38° 31' 30.20" (RT)
D = 17° 21' 44"
T = 115.32'
L = 221.89'
R = 330.00'
PC = 32+99.30
PT = 35+21.19
FOR INFORMATION ONLY

Curve BH_TRL-5
PI = 25+34.88
DELTA = 27° 10' 46.3" (RT)
D = 16° 22' 13"
T = 84.57'
L = 165.96'
R = 350.00'
PC = 24+50.31
PCC = 26+16.26
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

Curve BH_RD-5
PI = 40+31.31
DELTA = 49° 30' 36.53" (RT)
D = 20° 27' 46"
T = 129.11'
L = 241.95'
R = 280.00'
PC = 39+02.20
PT = 41+44.15
DESIGN SPEED = 25 MPH
e = 2.00% (NC)
Lr = N/A

Curve BH_TRL-6
PI = 30+92.37
DELTA = 28° 51' 21.27" (RT)
D = 3° 05' 46"
T = 476.11'
L = 932.01'
R = 1,850.57'
PCC = 26+16.26
PCC = 35+48.27
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A

2

Curve GTP_RMP_NE-1
PI = 18+92.12
DELTA = 1° 41' 29.51" (RT)
D = 0° 57' 23"
T = 402.66'
L = 804.11'
R = 5,990.00'
PC = 14+89.45
PT = 22+93.57
DESIGN SPEED = 50 MPH
e = 2.00%
Lr = 64'

REVISIONS		
No.	Description	Date
2	Modified alignments, labels, and curve data	12/18/2020
3	Modified design speed	03/09/2021

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100'	PROJECT	SHEET NO.
	0495-029-419	1G(10)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IG(II)

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

Curve 495XL_SB-11
PI = 285+12.41
DELTA = 3° 44' 06.41" (RT)
D = 0° 34' 26"
T = 325.54'
L = 650.86'
R = 9,984.00'
PCC = 281+86.86
PCC = 288+37.72
DESIGN SPEED = 60 MPH
e = 2.00%

Curve 495XL_SB-12
PI = 290+81.94
DELTA = 5° 04' 25.79" (RT)
D = 1° 02' 22"
T = 244.22'
L = 488.12'
R = 5,512.00'
PCC = 288+37.72
PT = 293+25.83
DESIGN SPEED = 60 MPH
e = 3.80%
Lr = 321' (PT)
3

Curve 495XL_NB-10
PI = 675+78.40
DELTA = 43° 25' 53.26" (RT)
D = 2° 55' 24"
T = 780.58'
L = 1,485.68'
R = 1,959.94'
PC = 667+97.82
PT = 682+83.50
DESIGN SPEED = 60 MPH
e = 6.80%
Lr = 665'
3

Curve 495XL_NBC-1
PI = 692+63.61
DELTA = 3° 40' 55.64" (LT)
D = 0° 20' 13"
T = 546.44'
L = 1,092.51'
R = 17,000.00'
PC = 687+17.16
PT = 698+09.67
DESIGN SPEED = 60 MPH
e = NC
Lr = N/A

Curve GWMP_RMP_E21-1
PI = 8+06.30
DELTA = 15° 21' 22.15" (RT)
D = 4° 11' 30"
T = 184.28'
L = 366.36'
R = 1,366.93'
PC = 6+22.02
PT = 9+88.38
DESIGN SPEED = 50 MPH
e = 6.60%
Lr = 186' (PT)

Curve GWMP_RMP_E21-2
PI = 17+25.35
DELTA = 56° 28' 24.28" (LT)
D = 16° 22' 13"
T = 187.96'
L = 344.98'
R = 350.00'
PC = 15+37.40
PT = 18+82.37
DESIGN SPEED = 30 MPH
e = 8.00%
Lr = 181'

Curve GWMP_RMP_E21-3
PI = 23+85.44
DELTA = 53° 38' 05.01" (RT)
D = 13° 58' 28"
T = 207.26'
L = 383.80'
R = 410.00'
PC = 21+78.18
PCC = 25+61.98
DESIGN SPEED = 30 MPH
e = 6.70%
Lr = 143'

Curve LOD-2
PI = 21+07.73
DELTA = 51° 07' 56.17" (LT)
D = 17° 54' 18"
T = 153.09'
L = 285.58'
R = 320.00'
PC = 19+54.65
PT = 22+40.22
DESIGN SPEED = 25 MPH
e = 3.40%
Lr = 59'

Curve LOD-3
PI = 24+32.25
DELTA = 13° 12' 20.36" (RT)
D = 8° 43' 20"
T = 76.04'
L = 151.40'
R = 656.90'
PC = 23+56.21
PT = 25+07.62
DESIGN SPEED = 25 MPH
e = 4.90%
Lr = 84'
FOR INFORMATION ONLY

Curve GWMP_RMP_E21-5
PI = 28+47.91
DELTA = 13° 52' 47.04" (RT)
D = 2° 46' 39"
T = 251.10'
L = 499.52'
R = 2,062.92'
PCC = 25+96.82
PT = 30+96.55
DESIGN SPEED = 30 MPH
e = 2.30%
Lr = 50'

Curve GWMP_RMP_G21-6
PI = 37+90.81
DELTA = 50° 40' 34.10" (LT)
D = 12° 24' 06"
T = 218.76'
L = 408.62'
R = 462.00'
PC = 35+72.05
PT = 39+80.67
DESIGN SPEED = 30 MPH
e = 6.40%
Lr = 137'

Curve GWMP_RMP_G21-7
PI = 43+66.68
DELTA = 58° 04' 14.40" (RT)
D = 10° 48' 38"
T = 294.21'
L = 537.17'
R = 530.00'
PC = 40+72.47
PCC = 46+09.64
DESIGN SPEED = 30 MPH
e = 6.00%
Lr = 128'

Curve GWMP_RMP_G22-2
PI = 23+33.76
DELTA = 121° 36' 12.42" (RT)
D = 26° 38' 57"
T = 384.72'
L = 456.31'
R = 215.00'
PCC = 19+49.04
PCC = 24+05.35
DESIGN SPEED = 30 MPH
e = 8.00%
Lr = 171'

Curve GWMP_RMP_E22-1
PI = 13+99.34
DELTA = 5° 36' 37.28" (LT)
D = 0° 42' 11"
T = 399.34'
L = 798.04'
R = 8,150.00'
PC = 10+00.00
PRC = 17+98.04
DESIGN SPEED = 50 MPH
e = 2.00%
Lr = 163' (PC)

Curve GWMP_RMP_E22-2
PI = 19+37.29
DELTA = 31° 07' 32.05" (RT)
D = 11° 27' 33"
T = 139.25'
L = 271.62'
R = 500.00'
PRC = 17+98.04
PT = 20+69.66
DESIGN SPEED = 35 MPH
e = 7.20%
Lr = 154'

Curve GWMP_RMP_G23-1
PI = 12+47.88
DELTA = 4° 36' 58.25" (RT)
D = 0° 55' 54"
T = 247.88'
L = 495.49'
R = 6,150.00'
PC = 10+00.00
PT = 14+95.49
DESIGN SPEED = 50 MPH
e = 2.00%
Lr = N/A

Curve BH_TRL-7
PI = 36+73.50
DELTA = 4° 46' 50.82" (RT)
D = 1° 54' 35"
T = 125.23'
L = 250.32'
R = 3000.00'
PCC = 35+48.27
PT = 37+98.59
DESIGN SPEED = 20 MPH

Curve BH_TRL-8
PI = 45+95.05
DELTA = 4° 36' 58.74" (RT)
D = 0° 47' 49"
T = 289.81'
L = 579.30'
R = 7,190.00'
PC = 43+05.25
PT = 48+84.54
DESIGN SPEED = 20 MPH
e = 2.00%
Lr = N/A

END ℄ LOD PT 25+07.62

℄ LOD-3
℄ GWMP_RMP_G21-7
PC23+56.21
N 5° 23' 04" E
END CONSTRUCTION
LIVE OAK DRIVE
℄ LOD STA. 22+40.22
PT22+40.22
PC40+72.47
PC21+78.18
N 5° 50' 26" E
PT39+80.67
GWMP_RMP_G21-6
℄ LOD-2
N 2° 18' 20" E
℄ GWMP_RMP_G21
PT18+82.37
℄ GWMP_RMP_E21
℄ GWMP_RMP_G22
END BRIDGE B-6XX
℄ GWMP_RMP_E21
STA. 20+93.68
GWMP_RMP_G22-2
BEGIN BRIDGE B-6XX
℄ GWMP_RMP_E22
STA. 18+55.27
MATCHLINE
GWMP_RMP_G22 STA 42+00.00
GWMP_RMP_G21 STA 23+50.00
SEE GWMP_G22 STA 23+50.00
SHEET IG(12)

BEGIN BRIDGE B-6XX
℄ GWMP_RMP_E21
Sta.13+74.85
℄ GWMP RMP G21
PT13+13.40
GWMP_RMP_G21-5
℄ LOD
PC19+54.65
PC35+72.05
N 56° 31' 00" E
N 56° 31' 00" E
GWMP_RMP_E21-2
495XL_SB-12
℄ 495XL_SB
PRC17+98.04
PT30+96.55
PCC28+37.72
PC16+10.39
PC15+37.40
495XL_SB-11
N 58° 21' 01" E
N 58° 46' 45" E
℄ GWMP_RMP_E22
PT29+93.83
495XL_SB-10
PCC29+86.96
PT 9+88.38
GWMP_RMP_E21-1
GWMP_RMP_E22-1
N 60° 28' 34" E
℄ 495XL_NBC-1
℄ GWMP_RMP_E22-2
℄ 495XL_NBC
℄ GWMP_RMP_G23
PT29+86.96
PT682+83.50
℄ 495XL_NB
N 60° 28' 34" E
495XL_NB-10
BH_TRL-6
PT 37+98.59
N 60° 28' 34" E
PCC35+48.27
℄ BH_TRL
BH_TRL-7
PC10+00.00
PC43+05.25
GWMP_RMP_G23-1
BH_TRL-8

MATCHLINE
495XL_SB STA 293+50.00
495XL_NBC STA 693+50.00
GWMP_RMP_E22 STA 20+50.00
GWMP_RMP_G22 STA 21+54.79
GWMP_RMP_G23 STA 14+40.46
BH_TRL STA 47+75.00
SEE SHEET IG(12)

MATCHLINE
495XL_SB STA 279+50.00
495XL_NB STA 679+50.00
GWMP_RMP_E21 STA 28+00.00
GWMP_RMP_G21 STA 7+66.62
LOD STA 13+25.00
BH_TRL STA 34+00.00
SEE SHEET IG(10)

BEGIN CONSTRUCTION GWMP RAMP E22
BEGIN ℄ GWMP_RMP_E22 PC 10+00.00 =
℄ 495XL_NB STA. 682+35.20, 12.00' RT.

END ℄ 495XL_NB POT 687+17.16
BEGIN ℄ 495XL_NBC PC 687+17.16 =
℄ 495XL_NB STA. 687+17.16, 16.00' RT.

BEGIN CONSTRUCTION GWMP RAMP G23
BEGIN ℄ GWMP_RMP_G23 POT 8+12.49 =
℄ 495XL_NB STA. 687+17.16, 64.00' RT.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS

No.	Description	Date
2	Revised Roadway Lane Configuration	12/18/2020
3	Revised Design Speed	03/09/2021

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	IG(II)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(12)

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

Curve 495XL_SB-13
PI = 301+28.82
DELTA = 5° 01' 25.78" (LT)
D = 1° 08' 06"
T = 221.45'
L = 442.62'
R = 5,048.00'
PC = 299+07.36
PCC = 303+49.98
DESIGN SPEED = 60 MPH
e = 3.3%
Lr = 264'

Curve 495XL_SB-14
PI = 305+97.79
DELTA = 15° 15' 30.04" (LT)
D = 3° 05' 49"
T = 247.80'
L = 492.67'
R = 1,850.00'
PCC = 303+49.98
PT = 308+42.65
DESIGN SPEED = 60 MPH
e = 7.00%
Lr = 374'
FOR INFORMATION ONLY

Curve GWMP_RMP_G22-1
PI = 15+85.08
DELTA = 9° 05' 08.85" (RT)
D = 1° 14' 44"
T = 365.49'
L = 729.45'
R = 4,600.00'
PC = 12+19.59
PCC = 19+49.04
DESIGN SPEED = 30 MPH
e = NC
Lr = N/A

Curve GWMP_RMP_G22-2
PI = 23+33.76
DELTA = 12° 36' 12.42" (RT)
D = 26° 38' 57"
T = 384.72'
L = 456.31'
R = 215.00'
PCC = 19+49.04
PCC = 24+05.35
DESIGN SPEED = 30 MPH
e = 8.00%
Lr = 171'

Curve GWMP_RMP_G22-3
PI = 25+10.17
DELTA = 44° 50' 53.63" (RT)
D = 22° 33' 26"
T = 104.82'
L = 198.82'
R = 254.00'
PCC = 24+05.35
PCC = 26+04.17
FOR INFORMATION ONLY

Curve GWMP_RMP_G22-4
PI = 28+43.96
DELTA = 51° 09' 14.08" (RT)
D = 11° 26' 11"
T = 239.79'
L = 447.29'
R = 501.00'
PCC = 26+04.17
PT = 30+51.47
FOR INFORMATION ONLY

Curve GWMP_RMP_G21-8
PI = 47+86.26
DELTA = 38° 37' 29.45" (RT)
D = 11° 22' 06"
T = 176.62'
L = 339.76'
R = 504.00'
PCC = 46+09.64
PT = 49+49.40
DESIGN SPEED = 30 MPH
e = 6.20%
Lr = 149'

Curve GWMP_RMP_G21-9
PI = 50+34.89
DELTA = 3° 32' 58.01" (RT)
D = 10° 01' 00"
T = 177.12'
L = 35.44'
R = 572.00'
PC = 50+17.16
PT = 50+52.60
DESIGN SPEED = 30 MPH
e = 5.80%
Lr = 159'

Curve GWMP_RMP_E21-3
PI = 23+85.44
DELTA = 53° 38' 05.01" (RT)
D = 13° 58' 28"
T = 207.26'
L = 383.80'
R = 410.00'
PC = 21+78.18
PCC = 25+61.98
DESIGN SPEED = 30 MPH
e = 6.70%
Lr = 143'

Curve GWMP_RMP_E21-4
PI = 27+73.87
DELTA = 40° 23' 39.30" (RT)
D = 9° 56' 50"
T = 211.89'
L = 406.09'
R = 576.00'
PCC = 25+61.98
PT = 29+68.07
DESIGN SPEED = 30 MPH
e = 5.70%
Lr = 122' (PT)

Curve 495XL_NBC-1
PI = 692+63.61
DELTA = 3° 40' 55.64" (LT)
D = 1° 20' 13"
T = 546.44'
L = 1,092.51'
R = 17,000.00'
PC = 687+17.16
PT = 698+09.67
DESIGN SPEED = 60 MPH
e = NC
Lr = N/A

Curve 495XL_NBC-2
PI = 705+29.79
DELTA = 14° 54' 41.10" (LT)
D = 2° 44' 48"
T = 272.99'
L = 542.89'
R = 2,086.00'
PC = 702+56.80
PCC = 707+99.69
DESIGN SPEED = 60 MPH
e = 5.00% (MATCH EXISTING)
Lr = 334'

PROPOSED NOISE BARRIER C

GWMP_RMP_G21-7
GWMP_RMP_E21-3
GWMP_RMP_E21
GWMP_RMP_G21-8
GWMP_RMP_G22-4
GWMP_RMP_E21-4
GWMP_RMP_G22-3
GWMP_RMP_G21-9
GWMP_RMP_G22-2
GWMP_RMP_G22-1
GWMP_RMP_G22
GWMP_RMP_G21
495XL_SB
495XL_SB-14
495XL_SB-13
495XL_NBC-1
GWMP_RMP_E22
BH_TRL
BH_TRL-8
GWMP_RMP_G23
495XL_NBC-2
495XL_NBC

PCC25+61.98
PCC26+04.17
PCC24+05.35
PCC46+09.64
PCC19+49.04
PC299+07.36
PCC303+49.98
PT29+68.07
PC30+17.16
PT30+51.47
PT698+09.67
PC702+56.80
PT14+95.49
PT48+84.54
PC12+19.59

MATCHLINE
GWMP_RMP_G21 STA 42+00.00
GWMP_RMP_G22 STA 22+50.00
GWMP_RMP_G23 STA 23+50.00
SEE SHEET 1G(11)

MATCHLINE
495XL_SB STA 307+00.00
SEE SHEET 1G(13)

MATCHLINE
495XL_SB STA 293+50.00
495XL_NBC STA 693+50.00
GWMP_RMP_G22 STA 20+50.00
GWMP_RMP_E22 STA 21+54.79
GWMP_RMP_G23 STA 14+40.46
BH_TRL STA 47+75.00
SEE SHEET 1G(11)

MATCHLINE
GWMP_RMP_G21 STA 57+95.04
GWMP_RMP_G22 STA 38+00.00
GWMP_RMP_G22 STA 24+22.05
GWMP_RMP_E22 STA 17+15.00
BH_TRL STA 50+25.00
SEE SHEET 1G(11)

END CONSTRUCTION GWMP RAMP G22
℄ GWMP_RMP_G22 STA. 24+00.00

END CONSTRUCTION GWMP RAMP E21
END ℄ GWMP_RMP_E21 PT 29+68.07 =
℄ GWMP_RMP_G21 PT 49+49.40

END CONSTRUCTION GWMP RAMP G21
℄ GWMP_RMP_G21 STA. 51+50.00

BEGIN CONSTRUCTION GWMP RAMP G22
℄ GWMP_RMP_G22 STA. 11+95.66

BEGIN BRIDGE B-6XX
℄ GWMP_RMP_G21 STA. 54+96.28

END CONSTRUCTION
495 EXPRESS LANES SOUTHBOUND
I-495 GP LANES SOUTHBOUND
℄ 495XL_SB STA. 302+24.26

END ℄ GWMP_RMP_G22 POT 10+00.00 =
℄ 495XL_SB STA. 304+21.95, 71.95' LT

END PROJECT 0495-029-419
END CONSTRUCTION 495 EXPRESS/GP LANES NB
℄ 495XL_NBC STA. 702+83.29

700' Merge Lane
365' Taper
Varies

N 63° 56' 57" E
S 59° 55' 44" W
S 73° 21' 35" E
S 73° 32' 47" E
N 56° 47' 38" E
N 84° 34' 46" E
N 65° 05' 32" E
N 65° 05' 33" E

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS

No.	Description	Date
2	Revised Curve Data	12/18/2020
3	Revised Curve Data, Design Speed	03/09/2021

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	1G(12)

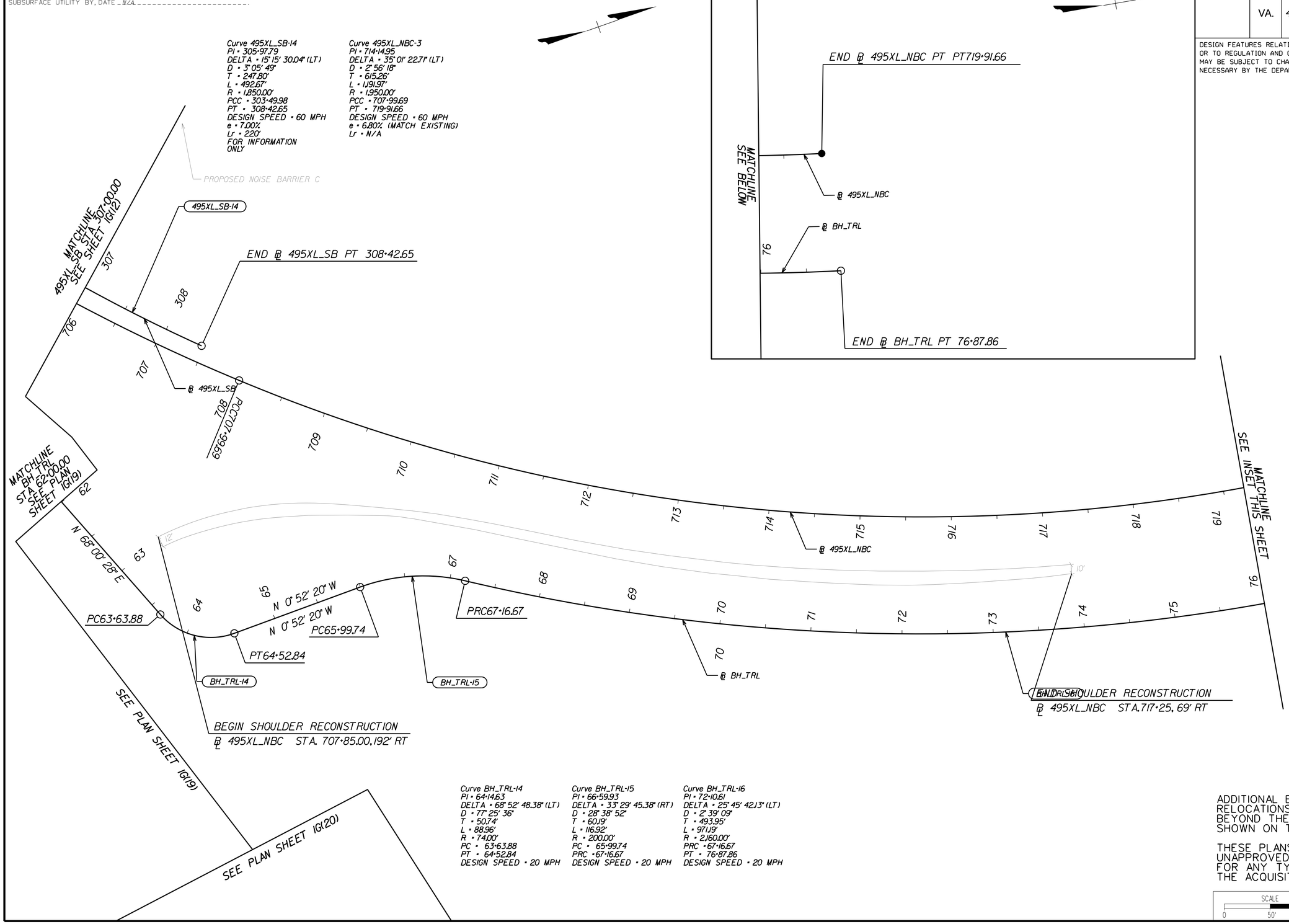
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(13)

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 _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____



Curve BH_TRL-14
PI = 64+14.63
DELTA = 68° 52' 48.38" (LT)
D = 77° 25' 36"
T = 50.74'
L = 88.96'
R = 74.00'
PC = 63+63.88
PT = 64+52.84
DESIGN SPEED = 20 MPH

Curve BH_TRL-15
PI = 66+59.93
DELTA = 33° 29' 45.38" (RT)
D = 28° 38' 52"
T = 60.19'
L = 116.92'
R = 200.00'
PC = 65+99.74
PRC = 67+16.67
DESIGN SPEED = 20 MPH

Curve BH_TRL-16
PI = 72+10.61
DELTA = 25° 45' 42.13" (LT)
D = 2° 39' 09"
T = 493.95'
L = 971.19'
R = 2,160.00'
PRC = 67+16.67
PT = 76+87.86
DESIGN SPEED = 20 MPH

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100'	PROJECT	SHEET NO.
	0495-029-419	1G(13)

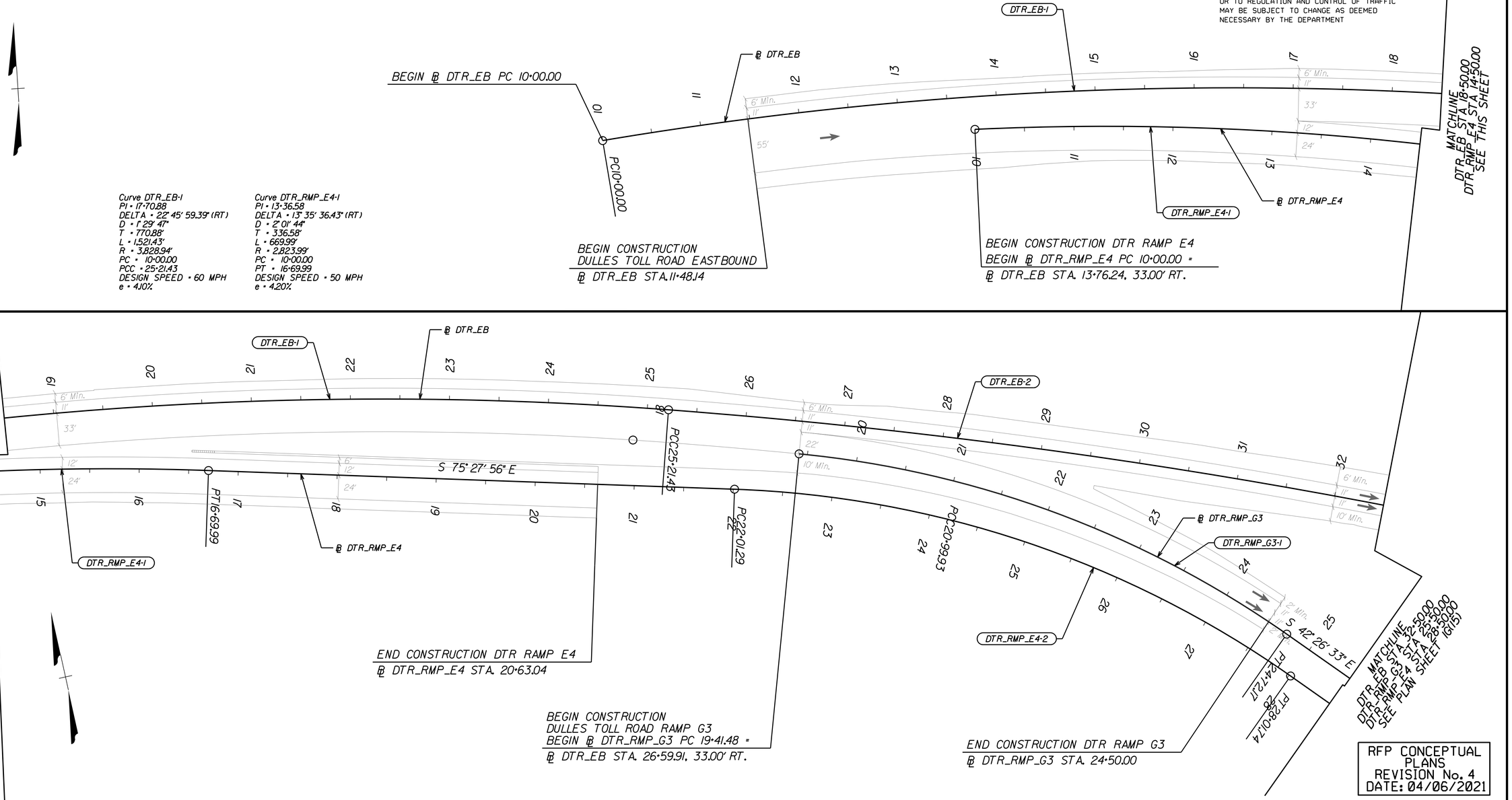
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(14)

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



Curve DTR_EB-1
PI = 17+70.88
DELTA = 22° 45' 59.39" (RT)
D = 1° 29' 47"
T = 770.88'
L = 1,521.43'
R = 3,828.94'
PC = 10+00.00
PCC = 25+21.43
DESIGN SPEED = 60 MPH
e = 4.10%

Curve DTR_RMP_E4-1
PI = 13+36.58
DELTA = 13° 35' 36.43" (RT)
D = 2° 01' 44"
T = 336.58'
L = 669.99'
R = 2,823.99'
PC = 10+00.00
PT = 16+69.99
DESIGN SPEED = 50 MPH
e = 4.20%

Curve DTR_EB-2
PI = 29+31.36
DELTA = 7° 23' 14.51" (RT)
D = 0° 54' 08"
T = 409.93'
L = 818.73'
R = 6,350.00'
PCC = 25+21.43
PT = 33+40.16
DESIGN SPEED = 60 MPH
e = 2.70%

Curve DTR_RMP_G3-1
PI = 22+12.86
DELTA = 29° 31' 16.20" (RT)
D = 5° 33' 46"
T = 271.38'
L = 530.70'
R = 1,030.00'
PC = 19+41.48
PT = 24+72.17
DESIGN SPEED = 30 MPH
e = 4.20%
Lr = 115'

Curve DTR_RMP_E4-1
PI = 13+36.58
DELTA = 13° 35' 36.43" (RT)
D = 2° 01' 44"
T = 336.58'
L = 669.99'
R = 2,823.99'
PC = 10+00.00
PT = 16+69.99
DESIGN SPEED = 50 MPH
e = EXIST

Curve DTR_RMP_E4-2
PI = 25+10.14
DELTA = 33° 04' 47.78" (RT)
D = 5° 30' 33"
T = 308.85'
L = 600.45'
R = 1,040.00'
PC = 22+01.29
PT = 28+01.74
FOR INFORMATION ONLY

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1G(14)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	1G(15)

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

Curve DTR_EB-2
PI = 29+31.36
DELTA = 7° 23' 14.51" (RT)
D = 0° 54' 08"
T = 409.93'
L = 818.73'
R = 6,350.00'
PCC = 25+21.43
PT = 33+40.16
DESIGN SPEED = 60 MPH
e = 2.70%

END ℄ DTR_EB POT 40+02.02

DTR_EB-2

℄ DTR_EB

PT 33+40.16

S 65° 47' 55" E

END CONSTRUCTION
DULLES TOLL ROAD EASTBOUND
℄ DTR_EB STA. 36+50.00

BEGIN CONSTRUCTION
DULLES TOLL ROAD RAMP D2
℄ DTR_RMP_D2 STA. 16+09.48

DTR_RMP_D2-1

DTR_RMP_D2-2

DTR_RMP_G3-2

PC 13+58.20

℄ DTR_RMP_G3

℄ DTR_RMP_D2

PCC 16+65.76

440' TAPER

MATCHLINE
DTR_EB STA 32+50.00
DTR_RMP_G3 STA 25+50.00
DTR_RMP_E4 STA 28+50.00
SEE PLAN SHEET 1G(14)

S 42° 26' 33" E

S 42° 23' 08" E

℄ DTR_RMP_E4

BEGIN CONSTRUCTION
DULLES TOLL ROAD RAMP G3
℄ DTR_RMP_G3 PC 31+56.18

BEGIN CONSTRUCTION
DULLES TOLL ROAD RAMP E1
℄ DTR_RMP_E1 POT STA.15+79.23±
℄ DTR_RMP_E4 STA. 34+75.00, 16.00' LT.

℄ DTR_RMP_E1

MATCHLINE
DTR_RMP_D2 STA 20+25.00
DTR_RMP_G3 STA 35+50.00
DTR_RMP_E1 STA 19+50.00
SEE SHEET 1G(11)

Curve DTR_RMP_G3-2
PI = 34+36.99
DELTA = 3° 03' 49.93" (LT)
D = 0° 32' 44"
T = 280.81'
L = 561.48'
R = 10,500.00'
PC = 31+56.18
PCC = 37+17.67
DESIGN SPEED = 30 MPH
e = NC

Curve DTR_RMP_D2-1
PI = 15+12.00
DELTA = 2° 12' 09.89" (LT)
D = 0° 42' 58"
T = 153.80'
L = 307.56'
R = 8,000.00'
PC = 13+58.20
PCC = 16+65.76
FOR INFORMATION ONLY

Curve DTR_RMP_D2-2
PI = 19+29.64
DELTA = 2° 37' 44.23" (LT)
D = 0° 29' 54"
T = 263.88'
L = 527.66'
R = 11,500.00'
PCC = 16+65.76
PCC = 21+93.43
DESIGN SPEED = 30 MPH
e = NC

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1G(15)

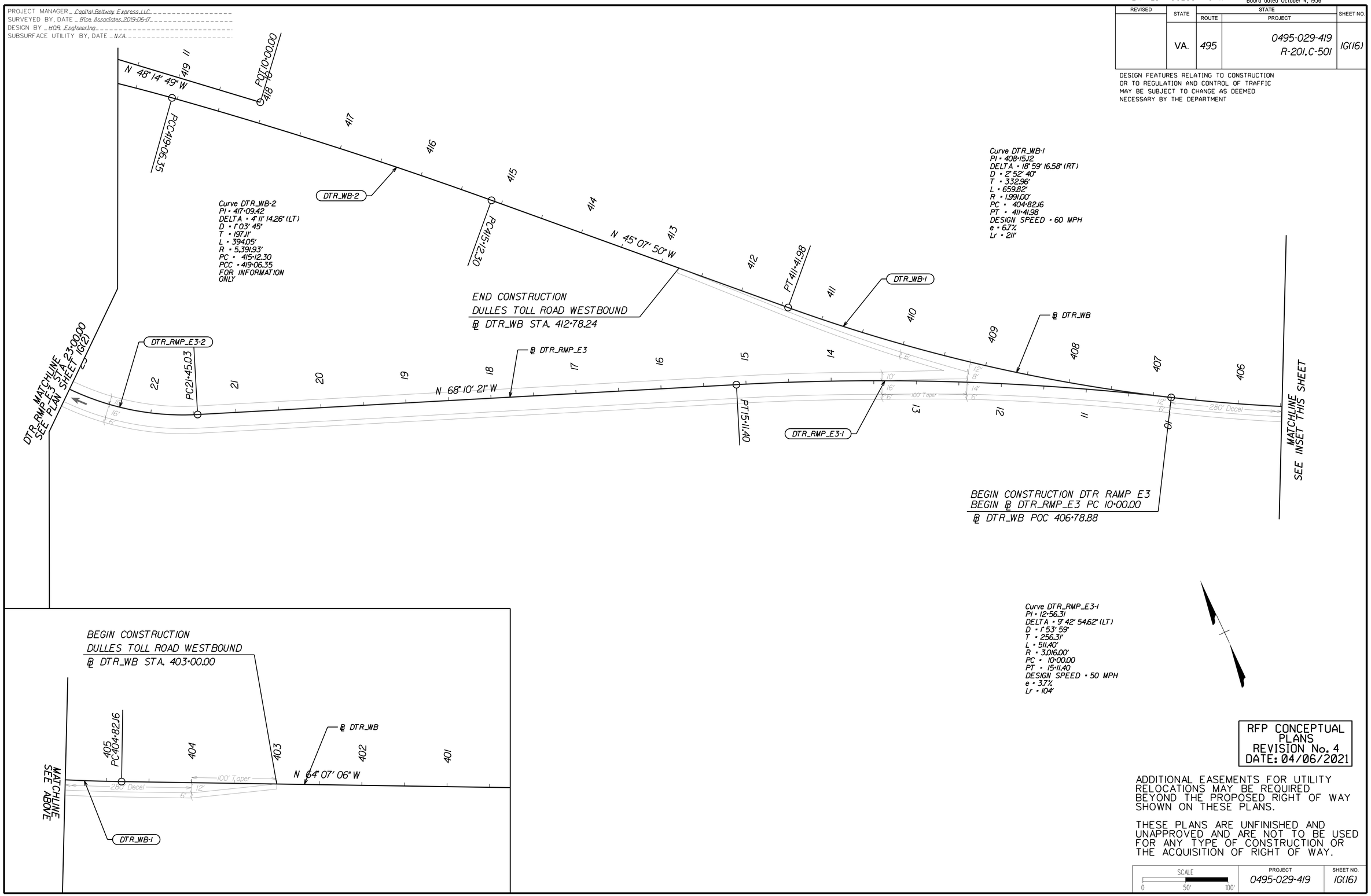
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(16)

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1G(16)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

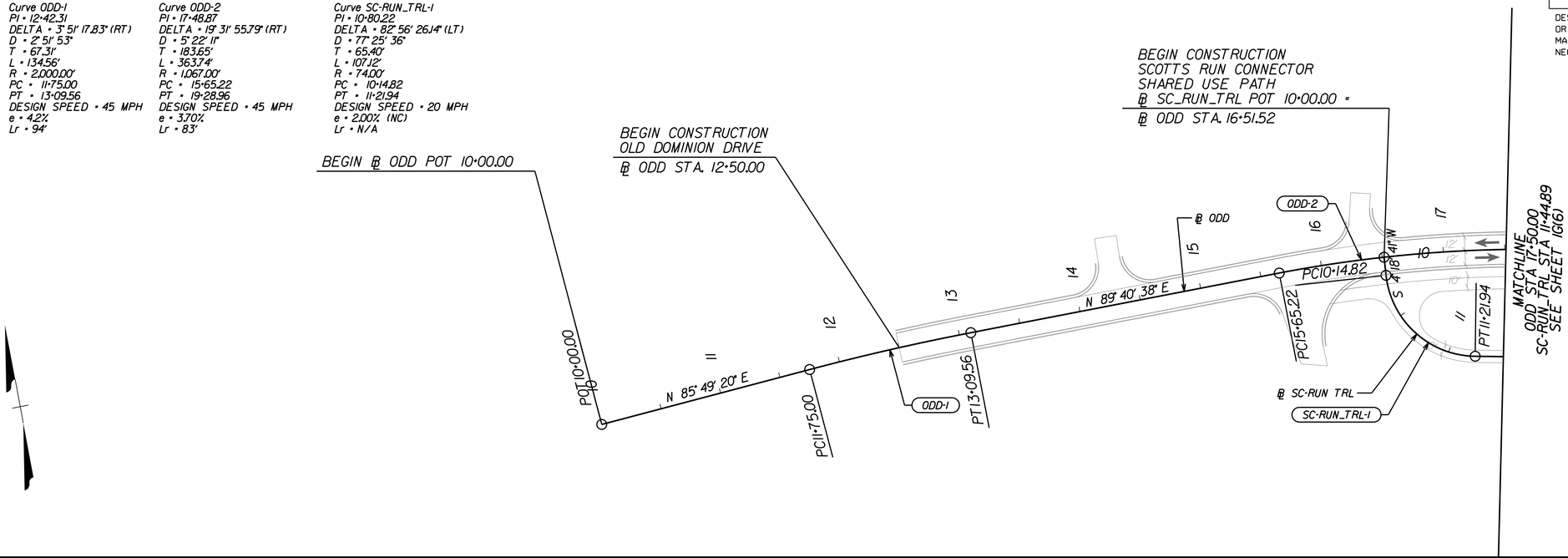
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(17)

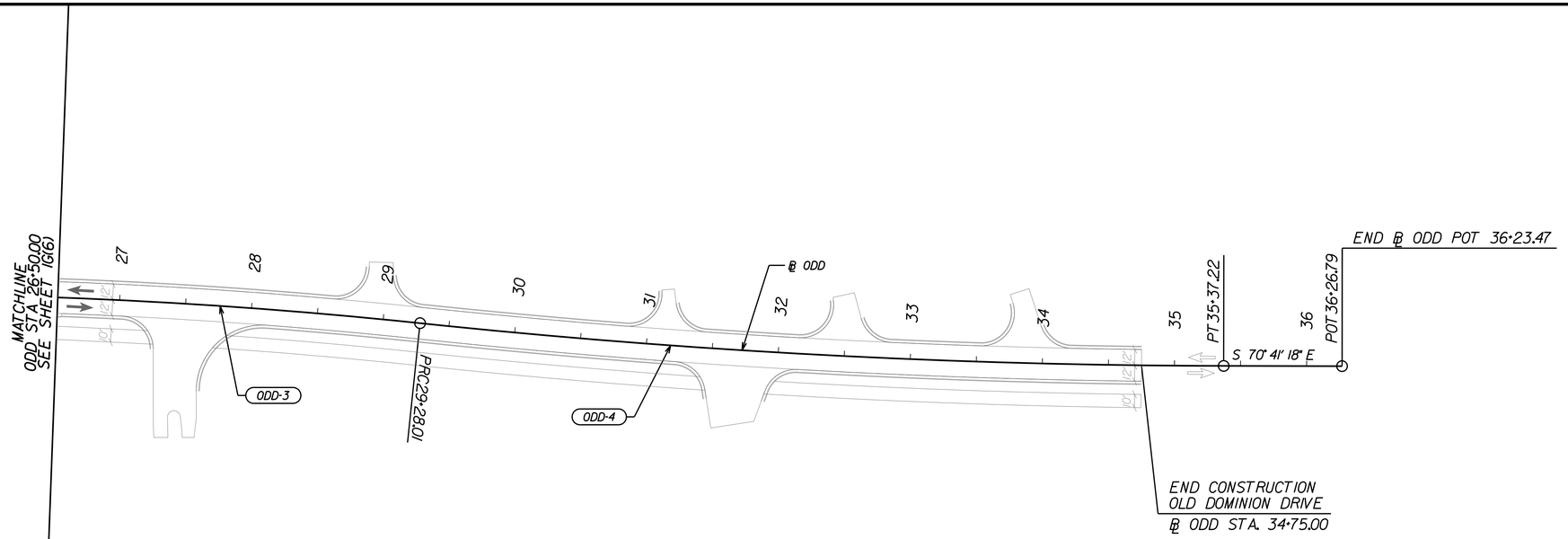
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

Curve ODD-1
PI = 12+42.31
DELTA = 3° 51' 17.83" (RT)
D = 2° 51' 53"
T = 67.31'
L = 134.56'
R = 2,000.00'
PC = 11+75.00
PT = 13+09.56
DESIGN SPEED = 45 MPH
e = 4.2%
Lr = 94'

Curve ODD-2
PI = 17+48.87
DELTA = 19° 31' 55.79" (RT)
D = 5° 22' 11"
T = 183.65'
L = 363.74'
R = 1,067.00'
PC = 15+65.22
PT = 19+28.96
DESIGN SPEED = 45 MPH
e = 3.70%
Lr = 83'

Curve SC-RUN_TRL-1
PI = 10+80.22
DELTA = 82° 56' 26.14" (LT)
D = 71° 25' 36"
T = 65.40'
L = 107.12'
R = 74.00'
PC = 10+14.82
PT = 11+21.94
DESIGN SPEED = 20 MPH
e = 2.00% (NC)
Lr = N/A





Curve ODD-3
PI = 27+16.14
DELTA = 5° 59' 18.17" (RT)
D = 1° 24' 43"
T = 212.26'
L = 424.13'
R = 4,058.00'
PC = 25+03.88
PRC = 29+28.01
DESIGN SPEED = 45 MPH
e = 2.00%
Lr = 45'

Curve ODD-4
PI = 32+32.88
DELTA = 5° 53' 10.57" (LT)
D = 0° 57' 58"
T = 304.88'
L = 609.22'
R = 5,930.00'
PRC = 29+28.01
PT = 35+37.22
DESIGN SPEED = 45 MPH
e = NC
Lr = N/A

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100'	PROJECT	SHEET NO.
	0495-029-419	1G(17)

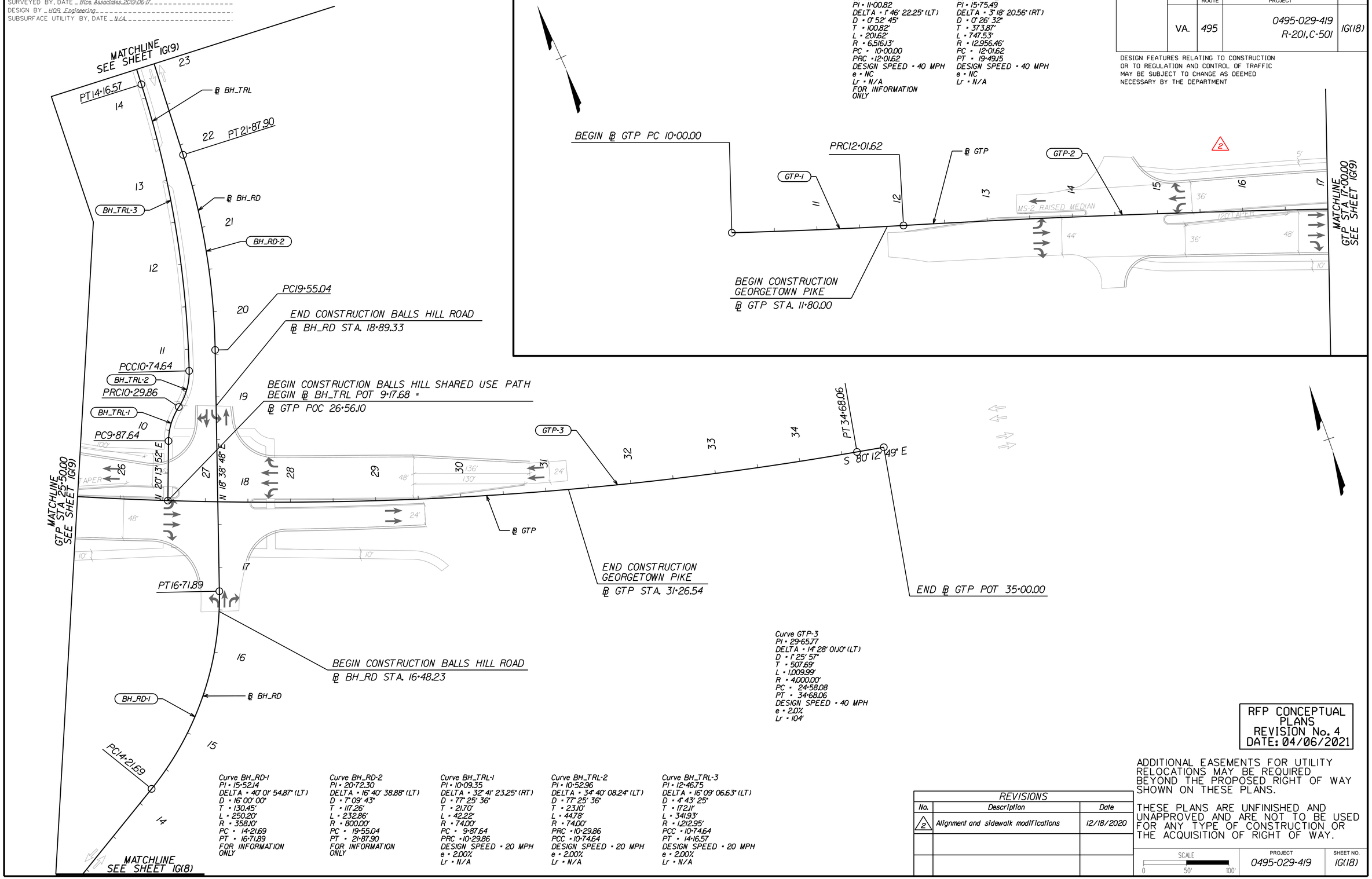
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A



Curve GTP-1
PI = 11+00.82
DELTA = 1° 46' 22.25" (LT)
D = 0° 52' 45"
T = 100.82'
L = 201.62'
R = 6,516.13'
PC = 10+00.00
PRC = 12+01.62
DESIGN SPEED = 40 MPH
e = NC
Lr = N/A
FOR INFORMATION ONLY

Curve GTP-2
PI = 15+75.49
DELTA = 3° 18' 20.56" (RT)
D = 0° 26' 32"
T = 373.87'
L = 747.53'
R = 12,956.46'
PC = 12+01.62
PT = 19+49.15
DESIGN SPEED = 40 MPH
e = NC
Lr = N/A

Curve GTP-3
PI = 29+65.77
DELTA = 14° 28' 01.10" (LT)
D = 1° 25' 57"
T = 507.69'
L = 1,009.99'
R = 4,000.00'
PC = 24+58.08
PT = 34+68.06
DESIGN SPEED = 40 MPH
e = 2.0%
Lr = 104'

Curve BH_RD-1
PI = 15+52.14
DELTA = 40° 01' 54.87" (LT)
D = 16° 00' 00"
T = 130.45'
L = 250.20'
R = 358.10'
PC = 14+21.69
PT = 16+71.89
FOR INFORMATION ONLY

Curve BH_RD-2
PI = 20+72.30
DELTA = 16° 40' 38.88" (LT)
D = 7° 09' 43"
T = 117.26'
L = 232.86'
R = 800.00'
PC = 19+55.04
PT = 21+87.90
FOR INFORMATION ONLY

Curve BH_TRL-1
PI = 10+09.35
DELTA = 32° 41' 23.25" (RT)
D = 77° 25' 36"
T = 21.70'
L = 42.22'
R = 74.00'
PC = 9+87.64
PRC = 10+29.86
DESIGN SPEED = 20 MPH
e = 2.00%
Lr = N/A

Curve BH_TRL-2
PI = 10+52.96
DELTA = 34° 40' 08.24" (LT)
D = 77° 25' 36"
T = 23.10'
L = 44.78'
R = 74.00'
PRC = 10+29.86
PCC = 10+74.64
DESIGN SPEED = 20 MPH
e = 2.00%
Lr = N/A

Curve BH_TRL-3
PI = 12+46.75
DELTA = 16° 09' 06.63" (LT)
D = 4° 43' 25"
T = 172.91'
L = 341.93'
R = 1,212.95'
PCC = 10+74.64
PT = 14+16.57
DESIGN SPEED = 20 MPH
e = 2.00%
Lr = N/A

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Alignment and sidewalk modifications	12/18/2020

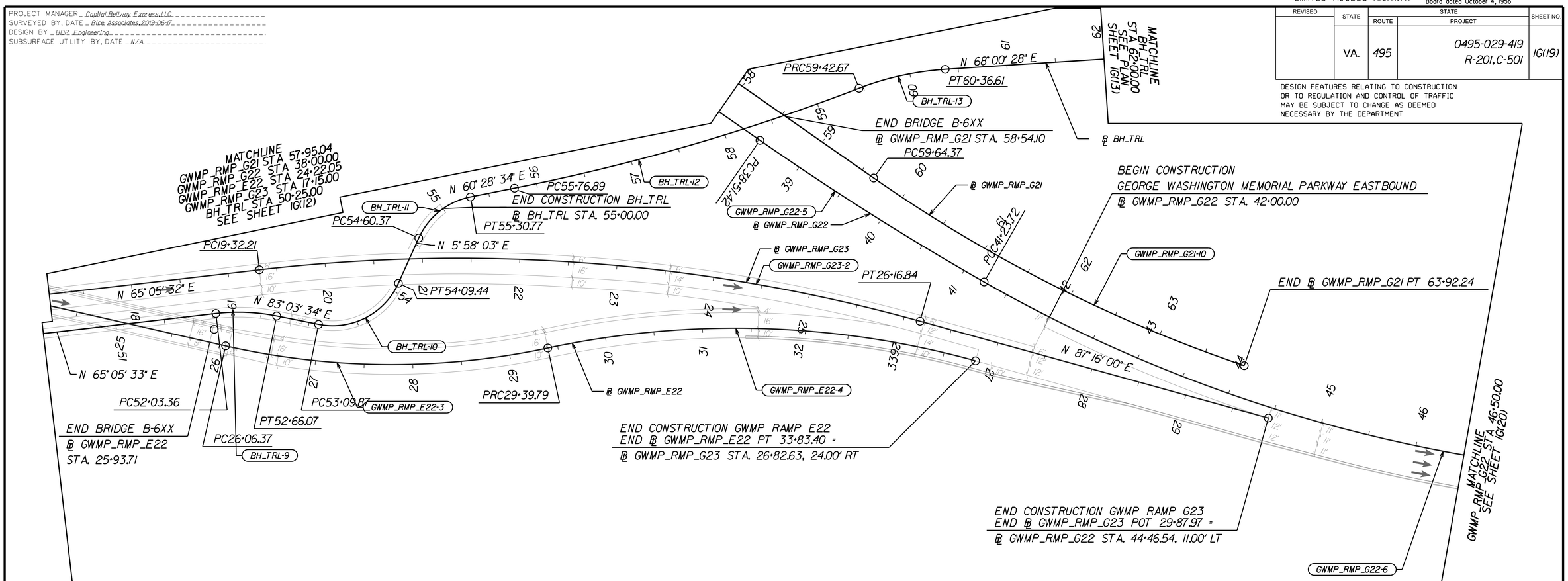
SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1G(18)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(19)

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



Curve GWMP_RMP_E22-3
PI = 27+75.76
DELTA = 24° 56' 23.92" (LT)
D = 7° 28' 48"
T = 169.40'
L = 333.43'
R = 766.00'
PC = 26+06.37
PRC = 29+39.79
DESIGN SPEED = 35 MPH
e = 5.90%
Lr = 133'

Curve GWMP_RMP_E22-4
PI = 31+66.00
DELTA = 27° 37' 37.37" (RT)
D = 6° 13' 40"
T = 226.20'
L = 443.61'
R = 920.00'
PRC = 29+39.79
PT = 33+83.40
DESIGN SPEED = 35 MPH
e = 5.40%
Lr = 122'

Curve GWMP_RMP_G23-2
PI = 22+78.86
DELTA = 22° 10' 27.69" (RT)
D = 3° 14' 20"
T = 346.65'
L = 684.63'
R = 1,769.00'
PC = 19+32.21
PT = 26+16.84
DESIGN SPEED = 40 MPH
e = 4.00%
Lr = 100' (PT), 112' (PC)

Curve GWMP_RMP_G22-5
PI = 39+87.67
DELTA = 5° 12' 02.29" (LT)
D = 1° 54' 35"
T = 136.25'
L = 272.30'
R = 3,000.00'
PC = 38+51.42
PCC = 41+23.72
DESIGN SPEED = 50 MPH
EXISTING CURVE
FOR INFORMATION ONLY

Curve GWMP_RMP_G22-6
PI = 45+31.73
DELTA = 29° 51' 46.85" (LT)
D = 3° 44' 41"
T = 408.00'
L = 797.45'
R = 1,530.00'
PCC = 41+23.72
PT = 49+21.17
DESIGN SPEED = 50 MPH
e = 6.00%
Lr = 147' (PCC)
293' (PT)

Curve BH_TRL-9
PI = 52+34.97
DELTA = 17° 58' 01.71" (RT)
D = 28° 38' 52"
T = 31.62'
L = 62.72'
R = 200.00'
PC = 52+03.36
PT = 52+66.07
DESIGN SPEED = 20 MPH
e = 2.00%
Lr = N/A

Curve BH_TRL-10
PI = 53+68.83
DELTA = 77° 05' 31.09" (LT)
D = 77° 25' 36"
T = 58.96'
L = 99.57'
R = 74.00'
PC = 53+09.87
PT = 54+09.44
DESIGN SPEED = 20 MPH
e = 2.00%
Lr = N/A

Curve BH_TRL-11
PI = 54+98.49
DELTA = 54° 30' 30.65" (RT)
D = 77° 25' 36"
T = 38.12'
L = 70.40'
R = 74.00'
PC = 54+60.37
PT = 55+30.77
DESIGN SPEED = 20 MPH
e = 2.00%
Lr = N/A

Curve BH_TRL-12
PI = 57+61.73
DELTA = 9° 50' 12.29" (LT)
D = 2° 40' 03"
T = 184.84'
L = 368.78'
R = 2,148.00'
PC = 55+76.89
PRC = 59+45.66
DESIGN SPEED = 20 MPH
e = 2.00%
Lr = N/A

Curve BH_TRL-13
PI = 59+91.49
DELTA = 17° 22' 06.84" (RT)
D = 19° 05' 55"
T = 45.82'
L = 90.94'
R = 300.00'
PRC = 59+45.66
PT = 60+36.61
DESIGN SPEED = 20 MPH
e = 2.00%
Lr = N/A

Curve GWMP_RMP_G21-10
PI = 61+79.72
DELTA = 16° 05' 48.07" (LT)
D = 3° 45' 43"
T = 215.35'
L = 427.87'
R = 1,523.00'
PC = 59+64.37
PT = 63+92.24
FOR INFORMATION ONLY

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1G(19)

dxxxxxxsht-01G(20).dgn
Plotted By: ETWRIGHT

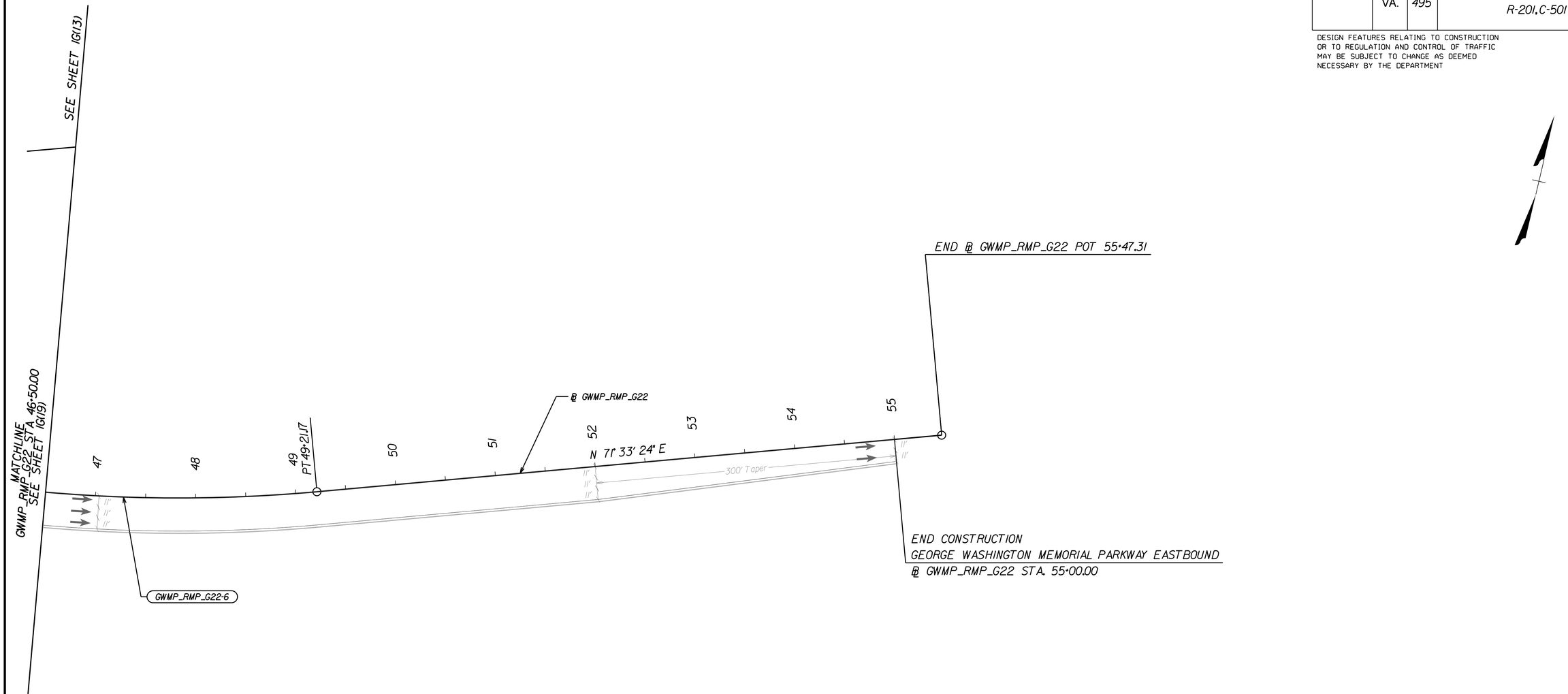
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1G(20)

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



Curve GWMP_RMP_G22-6
PI = 45+31.73
DELTA = 29° 51' 46.85" (LT)
D = 3° 44' 41"
T = 408.00'
L = 797.45'
R = 1,530.00'
PCC = 41+23.72
PT = 49+21.17
DESIGN SPEED = 50 MPH
e = 6.10%
Lr = 147' (PCC)
293' (PT)

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	1G(20)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

EXISTING DRAINAGE DESCRIPTION SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	IH(1)

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

001
In Pl. SSMH
Rim = 133.40'
Inv. In = 127.23'
In Pl. 24" Conc. Pipe
Inv. Out = 127.08'

002
In Pl. Metal Grate
Rim = 148.91'
Inv. In = 143.99'
In Pl. 24" Conc. Pipe
Inv. Out = 130.24'

003
In Pl. Metal Grate
Rim = 149.15'
In Pl. 15" Conc. Pipe
Inv. Out = 144.12'
(Surcharged)

004
In Pl. Conc. Endwall
In Pl. 54" x 60" Metal Pipe
Inv. Out = 110.27'

005
In Pl. Conc. Headwall
Inv. In = 143.54
In Pl. 54" x 60" Metal Pipe

006
In Pl. Conc. Endwall
In Pl. 24" Conc. Pipe
Inv. Out = 138.67'

007
In Pl. Metal Grate
Rim = 152.55'
In Pl. 24" Conc. Pipe
Bottom Of Structure = 139.21'

008
In Pl. Metal Grate
Rim = 155.50'
Inv. In = 150.36'
In Pl. 24" Conc. Pipe
Inv. Out = 150.34'

009
In Pl. Metal Grate
Rim = 157.83'
Inv. In = 153.80'
In Pl. 24" Conc. Pipe
Inv. Out = 153 48'

010
In Pl. Metal Grate
Rim = 165.42'
Inv. In = 160.27'
In Pl. 24" Conc. Pipe
Inv. Out = 160.22'

011
In Pl. Metal Grate
Rim = 165.95'
Inv. In = 161.88'
In Pl. 24" Conc. Pipe
Inv. Out = 161.87'

012
In Pl. Metal Grate
Rim = 173.60'
Inv. In = 169.81'
In Pl. 24" Conc. Pipe
Inv. Out = 169.65'

013
In Pl. Metal Grate
Rim = 175.43'
Inv. In = 170.93'
In Pl. 18" Conc. Pipe
Inv. Out = 170.91'

014
In Pl. 24" Metal Pipe
Inv. Out = 175.43'

015
In Pl. 24" Metal Pipe
Inv. In = 181.82'

016
In Pl. Metal Grate
Rim = 181.23'
Inv. In = 177.62'
In Pl. 18" Conc. Pipe
Inv. Out = 177.56'

017
In Pl. Metal Grate
Rim = 187.08'
Inv. In = 183.70'
In Pl. 15" Conc. Pipe
Inv. Out = 182.62'

018
In Pl. Metal Grate
Rim = 192.19'
Inv. In = 188.10'
In Pl. 15" Conc. Pipe
Inv. Out = 188.05'

019
In Pl. Metal Grate
Rim = 193.33'
In Pl. 15" Conc. Pipe
Inv. Out = 189.51'

020
In Pl. Metal Grate
Rim = 188.25'
Inv. In = 185.11'
In Pl. 18" Conc. Pipe
Inv. Out = 184.95'

021
In Pl. Metal Grate
Rim = 191.52'
(a) Inv. In = 187.84'
(b) Inv. In = 187.47'
In Pl. 15" Conc. Pipe
Inv. Out = 187.45'

022
In Pl. Metal Grate
Rim = 193.42'
In Pl. 15" Conc. Pipe
Inv. Out = 189.87'

023
In Pl. Metal Grate
Rim = 196.12'
In Pl. 15" Conc. Pipe
Inv. Out = 191.18'

024
In Pl. FES
In Pl. 18" Conc. Pipe
Inv. Out = 201.98'

025
In Pl. Metal Grate
Rim = 207.51
Bottom Of Structure = 202.07'
In Pl. 18" Conc. Pipe

026
In Pl. Metal Grate
Rim = 208.12'
Bottom Of Structure = 202.09'
(Surcharged)

027
In Pl. Metal Grate
Rim = 208.85'
Bottom Of Structure = 202.75'
In Pl. 15" Metal Pipe

028
In Pl. Metal Grate
Rim = 210.55'
Bottom Of Structure = 207.05'
In Pl. Conc. Pipe

029
In Pl. FES
In Pl. 15" Metal Pipe
Inv. Out = 201.97'

030
In Pl. Slot Drain
Rim = 209.02
Inv. Out = 205.97'
In Pl. 15" Metal Pipe

031
In Pl. Metal Grate
Rim = 210.18'
Bottom Of Structure = 206.37'
In Pl. 15" Conc. Pipe

032
In Pl. Metal Grate
Rim = 210.28
Bottom Of Structure = 206.68'
In Pl. 15" Conc. Pipe

033
In Pl. Metal Grate
Rim = 213.97'
In Pl. 15" Conc. Pipe
Inv. Out = 210.85'

034
In Pl. Metal Grate
Rim = 213.11'
(a) Inv. In = 208.99'
(b) Inv. In = 208.99'
In Pl. 18" Plastic Pipe
Inv. Out = 208.81'

035
In Pl. 18" Plastic Pipe
Inv. Out = 195.09'

036
In Pl. Conc. Headwall
Inv. In = 186.18'
In Pl. 57" x 60" Metal Pipe

037
In Pl. Metal Grate
Rim = 213.41'
Bottom Of Structure = 209.96'
In Pl. 15" Conc. Pipe

038
In Pl. Metal Grate
Rim = 213.55'
In Pl. 15" Conc. Pipe
Inv. Out = 210.37'

039
In Pl. Conc. Endwall
In Pl. 57" x 60" Metal Pipe
Inv. Out = 172.79'

040
In Pl. Conc. Headwall
In Pl. 60" Metal Pipe
Inv. Out = 163.52'

041
In Pl. Conc. Endwall
In Pl. 60" Metal Pipe
Inv. Out = 151.44'

042
In Pl. Conc. Endwall
In Pl. 72" Metal Pipe
Inv. Out = 150.90'

043
In Pl. Conc. DI
Rim = 213.24'
Bottom Of Structure = 210.65'
In Pl. 60" Conc. Pipe

044
In Pl. 12" Conc. Pipe
Inv. Out = 214.19'

045
In Pl. 12" Conc. Pipe
Inv. In = 214.52'

046
In Pl. Conc. Endwall
In Pl. 15" Conc. Pipe
Inv. Out = 213.51'

047
In Pl. Metal Grate/Slot Drain
Rim = 218.51'
In Pl. 15" Conc. Pipe
Inv. Out = 215.80'

048
In Pl. Metal Grate
Rim = 221.88'
Bottom Of Structure = 218.11'
In Pl. Conc. Pipe

049
In Pl. Metal Grate
Rim = 223.06'
Bottom Of Structure = 216.30'
In Pl. 18" Conc. Pipe

050
In Pl. Metal Grate
Rim = 221.67'
(a) Inv. In = 212.77'
(b) Inv. In = 216.81'
In Pl. 18" Plastic Pipe
Inv. Out = 212.64'

051
In Pl. Conc. Endwall
In Pl. 18" Plastic Pipe
Inv. Out = 211.32'

052
In Pl. Metal Grate
Rim = 221.93'
In Pl. 15" Conc. Pipe
Inv. Out = 218.19'

053
In Pl. Endwall
In Pl. 15" Conc. Pipe
Inv. Out = 220.50'

054
In Pl. Metal Grate w/ Slot Drain
Rim = 224.55'
Bottom Of Structure = 221.73'
In Pl. 15" Conc. Pipe

055
In Pl. Conc. Headwall
In Pl. 30" Metal Pipe
Inv. Out = 205.98'

056
In Pl. Conc. Endwall
In Pl. 15" Conc. Pipe
Inv. Out = 225.99'

057
In Pl. Metal Grate/Slot Drain
Rim = 231.75'
In Pl. 15" Conc. Pipe
Inv. Out = 226.85'

058
In Pl. Metal Grate
Rim = 233.11'
Bottom Of Structure = 229.34'
In Pl. Conc. Pipe

059
In Pl. Metal Grate
Rim = 233.41'
Bottom Of Structure = 226.65'
In Pl. 18" Conc. Pipe

060
In Pl. Metal Grate
Rim = 232.37'
(a) Inv. In = 227.34'
(b) Inv. In = 225.55'
In Pl. 18" Plastic Pipe
Inv. Out = 225.09'

061
In Pl. Conc. Endwall
In Pl. 18" Plastic Pipe
Inv. Out = 183.80'

062
In Pl. Metal Grate
Rim = 232.90'
In Pl. 15" Conc. Pipe
Inv. Out = 228.99'

063
In Pl. Conc. Headwall
In Pl. 72" Metal Pipe
Inv. Out = 178.32'

064
In Pl. Conc. DI
Rim = 224.30'
Inv. Out = 221.45'
In Pl. 15" Conc. Pipe

065
In Pl. 15" Conc. Pipe
Inv. Out = 220.95'

066
In Pl. 60" Conc. Pipe
Inv. Out = 220.12'

067
In Pl. SSMH
Rim = 240.28'
(Unable to Open)

068
In Pl. Metal Grate
Rim = 240.48'
Bottom Of Structure = 235.36'
In Pl. 15" Conc. Pipe

069
In Pl. Metal Grate
Rim = 240.02'
Bottom Of Structure = 235.50'
In Pl. Conc. Pipe

070
In Pl. Conc. DI
Rim = 230.89'
Inv. Out = 226.79'
In Pl. 15" Conc. Pipe
(Temlus not Found)

071
In Pl. 15" Conc. Pipe
Inv. Out = 236.57'

072
In Pl. Metal Grate
Rim = 241.00'
Bottom Of Structure = 237.58'
In Pl. 15" Conc. Pipe

073
In Pl. SSMH
Rim = 247.51'
Bottom Of Structure = 235.72'
In Pl. 60" Metal Pipe

074
In Pl. Headwall
Inv. In = 239.78'
In Pl. 60" Metal Pipe
Inv. Out = 239.24'

075
In Pl. Metal Grate
Rim = 253.08'
Bottom Of Structure = 243.35'
In Pl. 36" Conc. Pipe

076
In Pl. Metal Grate
Rim = 249.92'
Bottom Of Structure = 245.00'
In Pl. 15" Conc. Pipe

077
In Pl. Metal Grate
Rim = 249.91'
Bottom Of Structure = 246.25'
In Pl. Conc. Pipe

078
In Pl. Metal Grate
Rim = 248.92'
Bottom Of Structure = 241.56'
In Pl. Conc. Pipe

079
In Pl. Metal Grate
Rim = 246.48'
Bottom Of Structure = 242.66'
In Pl. 18" Conc. Pipe

080
In Pl. 18" Conc. Pipe
Inv. Out = 242.13'

081
In Pl. 48" Conc. Pipe
Inv. Out = 239.23'

082
In Pl. 48" Conc. Pipe
Inv. In = 239.44'

083
In Pl. Metal Grate
Rim = 258.23'
Bottom Of Structure = 249.69'
In Pl. 36" Conc. Pipe

084
In Pl. Metal Grate
Rim = 255.54'
Bottom Of Structure = 252.62'
In Pl. 15" Conc. Pipe

085
In Pl. Metal Grate
Rim = 255.76'
Bottom Of Structure = 252.87'
In Pl. Conc. Pipe

086
In Pl. Metal Grate
Rim = 251.52'
Bottom Of Structure = 248.25'
In Pl. 15" Conc. Pipe

087
In Pl. Metal Grate
Rim = 256.73'
Bottom Of Structure = 251.72'
In Pl. 18" Conc. Pipe

088
In Pl. Metal Grate
Rim = 263.89'
In Pl. 15" Conc. Pipe
Inv. Out = 260.39'

089
In Pl. SSMH
Rim = 264.91'
Bottom Of Structure = 258.04'
In Pl. 36" Conc. Pipe

090
In Pl. Metal Grate
Rim = 262.40'
Bottom Of Structure = 259.40'
In Pl. 15" Conc. Pipe

091
In Pl. Metal Grate
Rim = 263.98'
Bottom Of Structure = 259.61'
In Pl. Conc. Pipe

092
In Pl. Conc. DI
Rim = 281.81'
In Pl. 15" Conc. Pipe
Inv. Out = 273.86'

093
In Pl. FES
In Pl. 15" Conc. Pipe
Inv. Out = 271.53'

094
In Pl. Metal Grate
Rim = 258.09'
Bottom Of Structure = 254.80'
In Pl. 15" Conc. Pipe

095
In Pl. SSMH
Rim = 271.03'
Bottom Of Structure = 263.15'
In Pl. 36" Conc. Pipe

096
In Pl. Metal Grate
Rim = 268.87'
Bottom Of Structure = 265.43'
In Pl. 15" Conc. Pipe

097
In Pl. Metal Grate
Rim = 268.74'
Bottom Of Structure = 265.23'
In Pl. Conc. Pipe

098
In Pl. Metal Grate
Rim = 265.60'
Bottom Of Structure = 260.81'
In Pl. 18" Conc. Pipe

099
In Pl. Metal Grate
Rim = 264.12'
In Pl. 15" Conc. Pipe
Inv. Out = 261.40'

100
In Pl. SSMH
Rim = 277.98'
Bottom Of Structure = 268.45'
In Pl. 36" Conc. Pipe

101
In Pl. Metal Grate
Rim = 274.85'
Bottom Of Structure = 270.68'
In Pl. 15" Conc. Pipe

102
In Pl. Metal Grate
Rim = 273.95'
Bottom Of Structure = 270.87'
In Pl. Conc. Pipe

103
In Pl. SSMH
Rim = 280.64'
Bottom Of Structure = 270.60'
In Pl. 36" Conc. Pipe

104
In Pl. Metal Grate
Rim = 277.54'
Bottom Of Structure = 273.19'
In Pl. 15" Conc. Pipe

105
In Pl. Metal Grate
Rim = 277.35'
Bottom Of Structure = 274.10'
In Pl. Conc. Pipe

106
In Pl. Metal Grate
Rim = 273.78'
Bottom Of Structure = 268.86'
In Pl. 18" Conc. Pipe

107
In Pl. Metal Grate
Rim = 278.50'
Bottom Of Structure = 272.84'
In Pl. 36" Conc. Pipe

108
In Pl. Metal Grate
Rim = 279.78'
Bottom Of Structure = 274.23'
In Pl. 15" Conc. Pipe

109
In Pl. Metal Grate
Rim = 280.89'
Bottom Of Structure = Inaccessable

110
In Pl. SSMH
Rim = 280.65'
Bottom Of Structure = 273.73'
In Pl. 36" Conc. Pipe

111
In Pl. Metal Grate
Rim = 281.31'
Bottom Of Structure = 277.41'
In Pl. 15" Conc. Pipe

112
In Pl. Metal Grate
Rim = 281.51'
Bottom Of Structure = 275.89'
In Pl. 30" Conc. Pipe

113
In Pl. SSMH
Rim = 285.09'
(a) Inv. In = 277.62'
(b) Inv. In = 280.45'
In Pl. 30" Conc. Pipe
Inv. Out = 277.19'

114
In Pl. Metal Grate
Rim = 286.60'
Bottom Of Structure = 281.92'
In Pl. 24" Metal Pipe

115
In Pl. Metal Grate
Rim = 286.64'
Bottom Of Structure = 281.27'
In Pl. Conc. Pipe

116
In Pl. SSMH
Rim = 288.58'
Bottom Of Structure = 282.02'
In Pl. 24" Metal Pipe

117
In Pl. Metal Grate
Rim = 288.35
In Pl. 18" Conc. Pipe
Inv. Out = 283.70'

118
In Pl. Metal Grate
Rim = 283.78'
Bottom Of Structure = 279.04'
In Pl. 24" Metal Pipe

119
In Pl. Metal Grate
Rim = 291.85'
Bottom Of Structure = 287.05'
In Pl. Conc. Pipe

120
In Pl. Metal Grate
Rim = 290.26
Bottom Of Structure = 285.31'
In Pl. 18" Conc. Pipe

121
In Pl. Metal Grate
Rim = 294.80'
Bottom Of Structure = 289.74'
In Pl. 18" Metal Pipe

122
In Pl. Metal Grate
Rim = 293.52'
Bottom Of Structure = 288.65'
In Pl. 15" Metal Pipe

123
In Pl. 15" Conc. Pipe
Inv. In = 195.19'
In Pl. 15" Conc. Pipe
Inv. Out = 194.35'

124
In Pl. 15" Conc. Pipe
Inv. In = 203.42'
In Pl. 15" Conc. Pipe
Inv. Out = 202.06

125
In Pl. 15" Conc. Pipe
Inv. In = 215.85'
In Pl. 15" Conc. Pipe
Inv. Out = 213.51'

126
In Pl. 15" Conc. Pipe
Inv. In = 224.96'
In Pl. 15" Conc. Pipe
Inv. Out = 224.85'

127
In Pl. 15" Conc. Pipe
Inv. In = 227.55'
In Pl. 15" Conc. Pipe
Inv. Out = 226.75'

128
In Pl. 15" Conc. Pipe
Inv. In = 229.09'
In Pl. 15" Conc. Pipe
Inv. Out = 228.57'

129
In Pl. 15" Conc. Pipe
Inv. In = 231.12'
In Pl. 15" Conc. Pipe
Inv. Out = 231.02'

130
In Pl. 15" Conc. Pipe
Inv. In = 232.04'
In Pl. 15" Conc. Pipe
Inv. Out = 231.61'

131
In Pl. Conc. DI
Rim = 216.00'
In Pl. 15" Metal Pipe
Inv. Out = 210.00'

132
In Pl. FES
In Pl. 15" Metal Pipe
Inv. Out = 207.65'

133
In Pl. 15" Conc. Pipe
Inv. Out = 217.91'
(Abandoned)

134
In Pl. Conc. DI
Rim = 199.23'
In Pl. 15" Metal Pipe
Inv. Out = 195.18'

135
In Pl. 24" Metal Pipe
Inv. Out = 189.92'

136
In.Pl. SSMH
Rim = 301.74'
(Surcharched)

137
In.Pl. Drop Inlet
Rim = 302.12'
In Pl. 15" Metal Pipe
Inv. Out = 297.82'

138
In.Pl. SSMH
Rim = 299.14'
Inv. In = 292.94'
In Pl. 15" Conc. Pipe
Inv. Out = 291.39'

139
In.Pl. SSMH
Rim = 291.98'
(a) Inv. In = 280.93'
(b) Inv. In = 280.78'
(c) Inv. In = 280.83'
In Pl. 21" Conc. Pipe
Inv. Out = 278.65'

140
In.Pl. Conc. Drop Inlet
Rim = 298.21'
In Pl. 24" Metal Pipe
Inv. Out = 290.76'

141
In.Pl. SSMH
Rim = 300.79'
Inv. In = 288 54'
In Pl. 24" Conc. Pipe
Inv. Out = 288.46'

142
In.Pl. Drop Inlet
Rim = 271.01'
Inv. In = 264.47'
In Pl. 21" Conc. Pipe
Inv. Out = 264.45'

143
In.Pl. Drop Inlet
Rim = 270.36'
In Pl. 15" Conc. Pipe
Inv. Out = 264.31'
(Terminus Unknown)
(Possible Blind Connection)

144
In.Pl. Drop Inlet
Rim = 269.26'
(Surcharged)

145
In.Pl. Drop Inlet
Rim = 260.60'
Inv. In = 250.10'
In Pl. 24" Conc. Pipe
Inv. Out = 250.02'

146
In.Pl. Endwall
In Pl. 24" Conc. Pipe
Inv. Out = 248.32'

147
In Pl. 15" Conc. Pipe
Inv. In = 311.45'
In Pl. 15" Conc. Pipe
Inv. Out = 309.75'

148
In.Pl. FES
In Pl. 18" Conc. Pipe
Inv. Out = 219.80'

149
In.Pl. Drop Inlet
Rim = 241.32'
Inv. In = 224.32'
In Pl. 18" Conc. Pipe
Inv. Out = 223.12'

150
In.Pl. Drop Inlet
Rim = 229.38'
(Full of Debris)

151
In.Pl. Drop Inlet
Rim = 230.01'
(a) Inv. In = 225.81'
(b) Inv. In = 225.71'
In Pl. 18" Conc. Pipe
Inv. Out = 225.65'

152
In.Pl. Drop Inlet
Rim = 229.98'
Inv. In = 226.78'
In Pl. 15" Conc. Pipe
Inv. Out = 226.68'

153
In.Pl. Drop Inlet
Rim = 243.43'
Inv. In = 238.93'
In Pl. 15" Conc. Pipe
Inv. Out = 229.83'

154
In.Pl. Drop Inlet
Rim = 244.15'
Inv. In = 239.43'
In Pl. 15" Conc. Pipe
Inv. Out = 239.35'

155
In.Pl. Drop Inlet
Rim = 244.53'
Inv. In = 240.68'
In Pl. 15" Conc. Pipe
Inv. Out = 240.58'

156
In.Pl. Drop Inlet
Rim = 245.53'
In Pl. 15" Conc. Pipe
Inv. Out = 241.36'

157
In.Pl. Drop Inlet
Rim = 236.97'
(Full of Debris)
(Terminus Unknown)

158
In.Pl. Drop Inlet
Rim = 237.98'
Inv. In = 233.83'
In Pl. 15" Conc. Pipe
Inv. Out = 233.73'

159
In.Pl. Drop Inlet
Rim = 237.97'
Inv. In = 233.44'
In Pl. 15" Conc. Pipe
Inv. Out = 233.37'

160
In.Pl. Drop Inlet
Rim = 238.99'
Inv. In = 234.34'
In Pl. 15" Conc. Pipe
Inv. Out = 234.29'

161
In.Pl. Drop Inlet
Rim = 239.48'
In Pl. 15" Conc. Pipe
Inv. Out = 235.53'

162
In Pl. 15" Metal Pipe
Inv. In = 289.43'
In Pl. 15" Metal Pipe
Inv. Out = 286.71'

163
In Pl. 15" Metal Pipe
Inv. In = 261.58'
In Pl. 15" Metal Pipe
Inv. Out = 259.99'

164
In Pl. 15" Metal Pipe
Inv. In = 309.42'
In Pl. 15" Metal Pipe
Inv. Out = 309.36'

165
In Pl. 15" Conc. Pipe
Inv. In = 307.70'
In Pl. 15" Conc. Pipe
Inv. Out = 303.95'

166
In.Pl. Drop Inlet
Rim = 312.12'
In Pl. 15" Conc. Pipe
Inv. Out = 306.52

167
In.Pl. Drop Inlet
Rim = 311.87'
Inv. In = 306.12'
In Pl. 15" Conc. Pipe
Inv. Out = 306.07'

168
In.Pl. Drop Inlet
Rim = 300.73'
Inv. In = 297.98'
In Pl. 18" Conc. Pipe
Inv. Out = 297.93'

169
In.Pl. FES
In Pl. 18" Conc. Pipe
Inv. Out = 297.57'

170
In Pl. Metal Grate
Rim = 301.50'
In Pl. 18" Metal Pipe
Inv. Out = 295.04'

171
In Pl. Metal Grate
Rim = 300.89'
(Full of Debris)

172
In Pl. Metal Grate
Rim = 302.19'
(Full of Debris)

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

EXISTING DRAINAGE DESCRIPTION SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IH(2)

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

173 In Pl. Metal Grate
Rim = 296.92'
In Pl. 24" Metal Pipe
Inv. Out = 293.31'

174 In Pl. Metal Grate
Rim = 300.94'
Inv. In = 293.44'
In Pl. 24" Metal Pipe
Inv. Out = 293.39'

175 In Pl. Metal Grate
Rim = 296.00'
Inv. In = 292.00'
In Pl. 36" Conc. Pipe
Inv. Out = 291.95'

176 In Pl. Metal Grate
Rim = 296.42'
(a) Inv. In = 291.72'
(b) Inv. In = 291.37'
In Pl. 36" Conc. Pipe
Inv. Out = 291.36'

177 In Pl. Metal Grate
Rim = 299.74'
In Pl. 15" Conc. Pipe
Inv. Out = 293.24'

178 In Pl. Metal Grate
Rim = 298.09'
In Pl. 15" Conc. Pipe
Inv. Out = 282.29'

179 In Pl. Metal Grate
Rim = 296.21'
(a) Inv. In = 290.61'
(b) Inv. In = 290.61'
In Pl. 36" Conc. Pipe
Inv. Out = 290.51'

180 In Pl. FES
In Pl. 36" Conc. Pipe
Inv. Out = 290.01'

181 In Pl. Conc. Endwall
In Pl. 24" Metal Pipe
Inv. Out = 281.17'

182 In Pl. Headwall
Inv. In = 299.91'
In Pl. 24" Metal Pipe

183 In Pl. 15" Conc. Pipe
Inv. Out = 301.33'
In Pl. 15" Conc. Pipe
Inv. In = 302.97'

184 In Pl. 24" Metal Pipe
Inv. Out = 291.68'

185 In Pl. Metal Grate
Rim = 305.73'
Bottom Of Structure = 300.89'
In Pl. Conc. Pipe

186 In Pl. Metal Grate
Rim = 304.09'
Bottom Of Structure = 296.54'
In Pl. 24" Metal Pipe

187 In Pl. FES
In Pl. 24" Metal Pipe
Inv. Out = 299.96'

188 In Pl. 15" Conc. Pipe
Inv. In = 304.06'
In Pl. 15" Conc. Pipe
Inv. Out = 302.34'

189 In Pl. 15" Conc. Pipe
Inv. In = 300.94'
In Pl. 15" Conc. Pipe
Inv. Out = 300.48'

190 In Pl. Metal Grate
Rim = 301.08'
In Pl. 15" Conc. Pipe
Inv. Out = 299.08'

191 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. Out = 298.18'

192 In Pl. Metal Grate
Rim = 290.76'
In Pl. 15" Conc. Pipe
Inv. Out = 287.21'

193 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. Out = 286.83'

194 In Pl. Metal Grate
Rim = 300.50'
In Pl. 15" Conc. Pipe
Bottom Of Structure = 295.22'

195 In Pl. Metal Grate
Rim = 292.98'
(a) Inv. In = 288.76'
(b) Inv. In = 281.10'
In Pl. 18" Conc. Pipe
Inv. Out = 281.11'

196 In Pl. Metal Grate
Rim = 292.50'
In Pl. Conc. Pipe
Bottom of Structure = 285.65

197 In Pl. Metal Grate
Rim = 292.70'
In Pl. Conc. Pipe
Bottom of Structure = 285.57

198 In Pl. 18" Conc. Pipe
Inv. In = 280.22'

199 In Pl. Metal Grate
Rim = 292.68'
Bottom Of Structure = Inaccessable

200 In Pl. Conc. Headwall
In Pl. 54" Metal Pipe
Inv. In = 270.60'
In Pl. 54" Metal Pipe
Inv. Out = 266.30'

201 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. Out = 271.42'

202 In Pl. Metal Grate
Rim = 285.26'
In Pl. 15" Conc. Pipe
Inv. Out = 274.12'

203 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. Out = 272.15'

204 In Pl. Metal Grate
Rim = 276.18'
In Pl. 15" Conc. Pipe
Inv. Out = 273.07'

205 In Pl. Metal Grate
Rim = 284.60
Bottom Of Structure = 279.84'
In Pl. 15" Conc. Pipe

206 In Pl. Metal Grate
Rim = 277.21'
Bottom Of Structure = 273.39'
In Pl. 15" Conc. Pipe

207 In Pl. Metal Grate
Rim = 269.97'
Bottom Of Structure = 263.90'
In Pl. 15" Conc. Pipe

208 In Pl. Metal Grate
Rim = 262.98'
(a) Inv. In = 257.26'
(b) Inv. In = 257.21'
In Pl. 24" Conc. Pipe
Inv. Out = 257.79'

209 In Pl. Metal Grate
Rim = 277.08
Bottom Of Structure = 270.92
In Pl. 12" Metal Pipe

210 In Pl. Metal Grate
Rim = 274.92'
Bottom Of Structure = 270.59'
In Pl. 15" Conc. Pipe

211 In Pl. Metal Grate
Rim = 264.74'
Bottom Of Structure = 258.94'
In Pl. Conc. Pipe

212 In Pl. Metal Grate
Rim = 266.48'
Bottom Of Structure = 257.91'
In Pl. 18" Conc. Pipe

213 In Pl. 24" Conc. Pipe
Inv. Out = 255.83'

214 In Pl. 15" Conc. Pipe
Inv. Out = 256.49'

215 In. Pl. Conc. DI
Rim = 245.54'
In Pl. 15" Conc. Pipe
Inv. Out = 242.59'

216 In Pl. 15" Conc. Pipe
Inv. Out = 230.72'

217 In. Pl. SSMH
Rim = 243.98'
Inv. In = 234.58'
In Pl. 15" Conc. Pipe
Inv. Out = 233.08'

218 In. Pl. Conc. DI
Rim = 252.43'
Full of Debris

219 In Pl. Endwall
In Pl. 60" Metal Pipe
Inv. Out = 227.03'

220 In Pl. Metal Grate
Rim = 257.21'
(Inaccessable)

221 In Pl. Headwall
In Pl. 60" Metal Pipe
Inv. In = 233.05'

222 In Pl. Metal Grate
Rim = 255.75'
In Pl. 15" Conc. Pipe
Bottom Of Structure = 243.98'

223 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. Out = 243.20'

224 In Pl. Metal Grate
Rim = 248.68'
Bottom Of Structure = 238.30'
In Pl. 15" Conc. Pipe

225 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. Out = 237.95'

226 In Pl. Metal Grate
Rim = 244.85'
Bottom Of Structure = 237.80'
In Pl. 15" Conc. Pipe

227 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. Out = 237.13'

228 In Pl. Metal Grate
Rim = 247.93'
In Pl. 15" Conc. Pipe
Full of Debris

229 In Pl. F.E.S
In Pl. 15" Conc. Pipe
Inv. = 232.22'

230 In Pl. Endwall
In Pl. 24" Conc. Pipe
Inv. = 230.51'

231 In Pl. Metal Grate
Rim = 237.92'
In Pl. 24" Conc. Pipe
Bottom of Structure = 232.29'

232 In Pl. Metal Grate
Rim = 241.21'
In Pl. 18" Conc. Pipe
Bottom of Structure = 233.71'

233 In Pl. Metal Grate
Rim = 241.08'
In Pl. 18" Conc. Pipe
Bottom of Structure = 237.2' +/-

234 In Pl. Metal Grate
Rim = 241.37'
In Pl. 18" Conc. Pipe
Bottom of Structure = 237.2' +/-

235 In Pl. F.E.S
In Pl. 15" Conc. Pipe
Inv. = 229.17'

236 In Pl. SSMH
Rim = 241.56'
(a) Inv. In = 231.36'
(b) Inv. In = 232.26'
In Pl. 15" Conc. Pipe
Inv. Out = 231.26'

237 In Pl. Metal Grate
Rim = 240.74'
In Pl. 15" Conc. Pipe
Inv. Out = 235.64'

238 In Pl. Metal Grate
Rim = 235.27'
In Pl. 15" Conc. Pipe
Inv. Out = 231.97'

239 In Pl. 24" x 12" Metal Pipe
Inv. In = 284.91'
In Pl. 24" x 12" Metal Pipe
Inv. Out = 282.76'

240 In Pl. 21" Conc. Pipe
Inv. In = 263.70'
In Pl. 21" Conc. Pipe
Inv. Out = 263.36'

241 In Pl. 18" Conc. Pipe
Inv. In = 259.18'
In Pl. 18" Conc. Pipe
Inv. Out = 257.26'

242 In Pl. 24" Metal Pipe
Inv. In = 252.73'
In Pl. 24" Metal Pipe
Inv. Out = 247.13'

243 In Pl. 24" Conc. Pipe
Inv. In = 259.89'
In Pl. 24" Conc. Pipe
Inv. Out = 255.06'

244 In Pl. 15" Metal Pipe
Inv. In = 254.35'
In Pl. 15" Metal. Pipe
Inv. Out = 251.74'

245 In Pl. Conc. Headwall
In Pl. 15" Metal Pipe
Inv. In = 259.32'
In Pl. Conc. Endwall
In Pl. 15" Metal. Pipe
Inv. Out = 257.27'

246 In Pl. Headwall
In Pl. 7' x 6' Box Culvert
Inv. = 228.04'

247 In Pl. Metal Grate
Rim = 242.16'
Drops Into Box Culvert

248 In Pl. Metal Grate
Rim = 241.49'
Drops Into Box Culvert

249 In Pl. Endwall
In Pl. 7' x 6' Box Culvert
Inv. = 227.28'

250 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 232.85'

251 In Pl. Metal Grate
Rim = 242.86'
In Pl. 18" Conc. Pipe
Inv. Out = 233.66'

252 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 233.28'

253 In Pl. Metal Grate
Rim = 244.74'
Inv. In = 234.84'
In Pl. 18" Conc. Pipe
Inv. Out = 234.84'

254 In Pl. Metal Grate
Rim = 245.59'
Inv. In = 237.59'
In Pl. 18" Conc. Pipe
Inv. Out = 237.59'

255 In Pl. Metal Grate
Rim = 247.95'
In Pl. 18" Conc. Pipe
Bottom of Structure = 241.33'

256 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 241.61'

257 In Pl. Metal Grate
Rim = 248.57'
In Pl. 18" Conc. Pipe
Inv. Out = 242.02'

258 In Pl. Endwall
In Pl. 7' x 6' Box Culvert
(a) Inv. = 237.73'
In Pl. 7' x 6' Box Culvert
(b) Inv. = 237.72'

259 In Pl. Headwall
In Pl. 7' x 6' Box Culvert
(a) Inv. = 239.35'
In Pl. 7' x 6' Box Culvert
(b) Inv. = 239.38'

260 In Pl. Metal Grate
Rim = 252.35'
Drops Into Box Culvert

261 In Pl. Metal Grate
Rim = 255.65'
In Pl. 15" Conc. Pipe
Inv. Out = 246.85'

262 In Pl. Metal Grate
Rim = 250.88'
(a) Inv. In = 245.68'
(b) Inv. In = 245.68'
In Pl. 15" Conc. Pipe
Inv. Out = 241.18'

263 In Pl. Metal Grate
Rim = 254.49'
Inv. In = 250.29'
In Pl. 15" Conc. Pipe
Inv. Out = 250.24'

264 In Pl. Metal Grate
Rim = 260.70'
In Pl. 15" Conc. Pipe
Inv. Out = 251.00'

265 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 246.96'

266 In Pl. Metal Grate
Rim = 253.57'
In Pl. 18" Conc. Pipe
Inv. Out = 247.27'

267 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 243.18'

268 In Pl. Metal Grate
Rim = 256.88'
Inv. In = 249.38'+/-
In Pl. 18" Conc. Pipe
Inv. Out = 242.18'

269 In Pl. Metal Grate
Rim = 264.55'
In Pl. 18" Conc. Pipe
Inv. Out = 253.20'

270 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 247.11'

271 In Pl. Metal Grate
Rim = 257.98'
In Pl. 18" Conc. Pipe
Inv. Out = 249.18'

272 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 242.69'

273 In Pl. Metal Grate
Rim = 259.39'
Inv. In = 250.19
In Pl. 18" Conc. Pipe
Inv. Out = 250.09'

274 In Pl. Metal Grate
Rim = 268.45'
In Pl. 18" Conc. Pipe
Inv. Out = 255.75'

275 In Pl. Metal Grate
Rim = 272.58'
In Pl. 18" Conc. Pipe
Inv. Out = 264.98'

276 In Pl. SSMH
Rim = 274.71'
(a) Inv. In = 263.91'
(b) Inv. In = 263.91'
(c) Inv. In = 258.41'
In Pl. 30" Plastic Pipe
Inv. Out = 258.36'

277 In Pl. Metal Grate
Rim = 275.91'
Inv. In = 265.36'
In Pl. 18" Conc. Pipe
Inv. Out = 265.31'

278 In Pl. Metal Grate
Rim = 274.57'
In Pl. 18" Conc. Pipe
Inv. Out = 265.77'

279 In Pl. Metal Grate
Rim = 274.82'
In Pl. 18" Conc. Pipe
Inv. Out = 259.37'

280 In Pl. Metal Grate
Rim = 263.14'
Inv. In = 258.46
In Pl. 18" Conc. Pipe
Inv. Out = 258.42'

281 In Pl. SSMH
Rim = 263.93'
(a) Inv. In = 255.68'
(b) Inv. In = 259.25'
(c) Inv. In = 253.93'
In Pl. 36" Plastic Pipe
Inv. Out = 248.03'

282 In Pl. Metal Grate
Rim = 265.75'
Inv. In = 258.95'
In Pl. 18" Conc. Pipe
Inv. Out = 258.85'

283 In Pl. Metal Grate
Rim = 265.43'
Inv. In = 259.53'
In Pl. 18" Conc. Pipe
Inv. Out = 259.43'

284 In Pl. Metal Grate
Rim = 277.03'
In Pl. 18" Conc. Pipe
Inv. Out = 256.77'

285 In Pl. Metal Grate
Rim = 263.12'
In Pl. 18" Conc. Pipe
Inv. Out = 256.77'

286 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 251.80'

287 In Pl. Endwall
In Pl. 42" Conc. Pipe
Inv. = 246.63'

288 In Pl. Headwall
In Pl. 42" Conc. Pipe
Inv. Out = 260.72'

289 In Pl. Headwall
In Pl. 42" Conc. Pipe
Inv. = 268.67'

290 In Pl. SSMH
Rim = 269.05'
(a) Inv. In = 262.73'
(b) Inv. In = 255.35'
In Pl. 36" Plastic Pipe
Inv. Out = 255.30'

291 In Pl. Metal Grate
Rim = 269.76'
Inv. In = 264.78'
In Pl. 18" Conc. Pipe
Inv. Out = 264.73'

292 In Pl. Metal Grate
Rim = 269.49'
Inv. In = 265.00'
In Pl. 18" Conc. Pipe
Inv. Out = 264.89'

293 In Pl. Metal Grate
Rim = 278.50'
Inv. In = 271.00'
In Pl. 18" Conc. Pipe
Inv. Out = 267.25'

294 In Pl. Metal Grate
Rim = 278.24'
Inv. In = 272.44'
In Pl. 18" Conc. Pipe
Inv. Out = 272.39'

295 In Pl. Metal Grate
Rim = 278.28'
In Pl. 18" Conc. Pipe
Inv. Out = 273.32'

296 In Pl. Metal Grate
Rim = 271.10'
In Pl. 18" Conc. Pipe
Inv. Out = 262.00'

297 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 253.48'

298 In Pl. Endwall
In Pl. 10' x 10' Box Culvert
(a) Inv. = 249.90'
In Pl. 10' x 10' Box Culvert
(b) Inv. = 249.96'
In Pl. 10' x 10' Box Culvert
(c) Inv. = 249.87'

299 In Pl. Headwall
In Pl. 10' x 10' Box Culvert
(a) Inv. = 255.96'
In Pl. 10' x 10' Box Culvert
(b) Inv. = 255.73'
In Pl. 10' x 10' Box Culvert
(c) Inv. = 256.03'

300 In Pl. Metal Grate
Rim = 272.09'
In Pl. 18" Conc. Pipe
Inv. Out = 266.94'

301 In Pl. Metal Grate
Rim = 272.86'
Inv. In = 266.46'
In Pl. 18" Conc. Pipe
Inv. Out = 266.41'

302 In Pl. Metal Grate
Rim = 273.69'
Inv. In = 266.14'
In Pl. 18" Conc. Pipe
Inv. Out = 266.09'

303 In Pl. SSMH
Rim = 274.48'
(a) Inv. In = 265.48'
(b) Inv. In = 265.48'
Connects to Box Culvert

304 In Pl. Metal Grate
Rim = 274.24'
Inv. In = 266.10'
In Pl. 18" Conc. Pipe
Inv. Out = 266.04'

305 In Pl. 24" Conc. Pipe
Inv. = 306.18'

306 In Pl. 24" Conc. Pipe
Inv. = 313.92'

307 In Pl. 24" Conc. Pipe
Inv. = 303.26'

308 In Pl. 24" Conc. Pipe
Inv. = 309.78'

309 In Pl. Metal Grate
Rim = 289.26'
In Pl. 18" Conc. Pipe
Inv. Out = 272.96'

310 In Pl. Metal Grate
Rim = 265.38'
Inv. In = 262.38'
In Pl. 18" Conc. Pipe
Inv. Out = 259.98'

311 In Pl. Endwall
In Pl. 36" Plastic Pipe
Inv. = 247.48'

312 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 255.17'

313 In Pl. Metal Grate
Rim = 268.31'
Inv. In = 259.51'
In Pl. 36" Plastic Pipe
Inv. Out = 259.41'

314 In. Pl. Conc. DI
Rim = 280.69'
Inv. In = 276.67'
In Pl. 24" Conc. Pipe
Inv. Out = 276.61'

315 In. Pl. Metal Grate
Rim = 279.37'
Inv. In = 276.77'
In Pl. 18" Conc. Pipe
Inv. Out = 276.75'

316 In. Pl. Metal Grate
Rim = 280.81'
In Pl. 18" Conc. Pipe
Inv. Out = 277.21'

317 In. Pl. Metal Grate
Rim = 288.46'
In Pl. 18" Conc. Pipe
Inv. Out = 283.34'

318 In. Pl. Metal Grate
Rim = 293.54'
Inv. In = 278.24'
In Pl. 18" Conc. Pipe
Inv. Out = 278.19'

319 In. Pl. Metal Grate
Rim = 293.44'
(a) Inv. In = 276.34'
(b) Inv. In = 281.64'
In Pl. 18" Conc. Pipe
Inv. Out = 276.29'

320 In. Pl. SSMH
Rim = 295.72'
(a) Inv. In = 274.99'
(b) Inv. In = 276.29'
In Pl. 24" Conc. Pipe

321 In Pl. FES
In Pl. 24" Conc. Pipe
Inv. Out = 274.81'

322 In Pl. SSMH
Rim = 292.13'
Inv. In = 286.18'
In Pl. 18" Conc. Pipe
Inv. Out = 279.93'

323 In Pl. Endwall
In Pl. 60" Metal Pipe
Inv. = 260.02'

324 In Pl. Headwall
In Pl. 60" Metal Pipe
Inv. = 261.62'

325 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 296.55'

326 In Pl. Metal Grate
Rim = 301.26'
Inv. In = 296.56'
In Pl. 18" Conc. Pipe
Inv. Out = 296.52'

327 In Pl. Conc. DI
Rim = 301.80'
Inv. In = 297.16'
In Pl. 18" Conc. Pipe
Inv. Out = 297.06'

328 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 297.48'

329 In Pl. Conc. Endwall
In Pl. 30" Conc. Pipe
Inv. = 266.73'

330 In. Pl. SSMH
Rim = 292.43'
(a) Inv. In = 285.83'
(b) Inv. In = 287.33'
In Pl. 30" Conc. Pipe
Inv. Out = 275.63'

331 In. Pl. Metal Grate
Rim = 299.69'
(a) Inv. In = 290.99'
(b) Inv. In = 292.69'
In Pl. 24" Conc. Pipe
Inv. Out = 286.29'

332 In Pl. Metal Grate
Rim = 301.17'
Inv. In = 294.47'
In Pl. 18" Conc. Pipe
Inv. Out = 294.22'

333 In Pl. Metal Grate
Rim = 301.03'
In Pl. 18" Conc. Pipe
Inv. Out = 295.41'

334 In Pl. Metal Grate
Rim = 299.56'
Inv. In = 291.56'
In Pl. 21" Conc. Pipe
Inv. Out = 291.48'

335 In Pl. Metal Grate
Rim = 299.97'
Inv. In = 292.05'
In Pl. 18" Conc. Pipe
Inv. Out = 292.00'

336 In. Pl. Metal Grate
Rim = 300.31'
(a) Inv. In = 293.36'
(b) Inv. In = 294.81'
In Pl. 18" Conc. Pipe
Inv. Out = 293.31'

337 In Pl. Metal Grate
Rim = 300.10'
In Pl. 18" Conc. Pipe
Inv. Out = 295.94'

338 In Pl. Metal Grate
Rim = 300.24'
Inv. In = 295.44'
In Pl. 18" Conc. Pipe
Inv. Out = 293.54'

339 In Pl. Metal Grate
Rim = 303.69'
Inv. In = 299.04'
In Pl. 18" Conc. Pipe
Inv. Out = 289.99'

340 In Pl. SSMH
Rim = 302.31'
Inv. In = 292.61'
In Pl. 15" Conc. Pipe
Inv. Out = 292.31'

341 In Pl. Metal Grate
Rim = 303.93'
In Pl. 15" Conc. Pipe
Inv. Out = 299.46'

342 In Pl. Metal Grate
Rim = 289.05'
Inv. In = 282.90'
In Pl. 18" Conc. Pipe
Inv. Out = 282.80'

343 In Pl. Metal Grate
Rim = 291.40'
(a) Inv. In = 283.30'
(b) Inv. In = 283.30'
In Pl. 18" Conc. Pipe
Inv. Out = 283.20'

344 In Pl. Metal Grate
Rim = 334.92'
In Pl. 18" Plastic Pipe
Inv. Out = 330.52'

345 In Pl. Metal Grate
Rim = 331.21'
Inv. In = 325.91'
In Pl. 18" Plastic Pipe
Inv. Out = 325.71'

346 In Pl. SSMH
Rim = 325.70'
(a) Inv. In = 319.55'
(b) Inv. In = 319.55'
In Pl. 18" Plastic Pipe
Inv. Out = 319.50'

347 In Pl. Metal Grate
Rim = 324.65'
Inv. In = 318.70'
In Pl. 18" Conc. Pipe
Inv. Out = 318.63'

348 In Pl. Metal Grate
Rim = 296.88'
In Pl. 18" Conc. Pipe
Inv. Out = 294.58'

349 In Pl. Metal Grate
Rim = 294.82'
Inv. In = 292.72'
In Pl. 18" Conc. Pipe
Inv. Out = 292.62'

350 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. Out = 282.32'

351 In Pl. Endwall
In Pl. 8' x 8' Box Culvert
(a) Inv. Out = 270.29'
(b) Inv. Out = 270.30'

352 In Pl. Headwall
(a) Inv. In = 272.22'
(b) Inv. In = 272.24'
In Pl. 8' x 8' Box Culvert

353 In Pl. End Section
In Pl. 24" Conc. Pipe
Inv. In = 284.91'

354 In Pl. Metal Grate
Rim = 302.98'
Inv. In = 298.38'
In Pl. 24" Conc. Pipe
Inv. Out = 298.33'

355 In Pl. Metal Grate
Rim = 302.90'
In Pl. 24" Conc. Pipe
Inv. Out = 299.50'

356 In Pl. Endwall
In Pl. 5' x 6 Box Culvert
Inv. Out = 280.86'

357 In Pl. Endwall
In Pl. 15" Conc. Pipe
Inv. = 288.89'

358 Buried Structure
Not Found

359 In Pl. Headwall
In Pl. 7' x 10' Box Culvert
(a) Inv. Out = 265.21'
(b) Inv. Out = 265.13'

360 In Pl. Headwall
In Pl. 18" Metal
Inv. Out = 274.52'

361 In Pl. Endwall
In Pl. 36" Conc. Pipe
Inv. = 282.34'

362 In Pl. Metal Grate
Rim = 287.24'
Inv. In = 282.84'
In Pl. 36" Conc. Pipe
Inv. Out = 282.74'

363 In Pl. FES
In Pl. 36" Conc. Pipe
Inv. Out = 287.04'

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

EXISTING DRAINAGE DESCRIPTION SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IH(3)

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

364 In Pl. Endwall
In Pl. 24" Conc. Pipe
Inv. = 304.71'

365 In Pl. FES
In Pl. 24" Conc. Pipe
Inv. = 313.09'

366 In Pl. Metal Grate
Rim = 320.06'
Inv. In = 314.31'
In Pl. 24" Conc. Pipe
Inv. Out = 314.26'

367 In Pl. Metal Grate
Rim = 318.99'
In Pl. 24" Conc. Pipe
Inv. Out = 315.32'

368 In Pl. Endwall
In Pl. 5' By 6' Box Culvert
Inv. = 284.89'

369 In Pl. Metal Grate
Rim = 355.38'
In Pl. 24" Plastic Pipe
Inv. In = 350.16'
In Pl. 24" Plastic Pipe
Inv. Out = 349.74'

370 In Pl. Metal Grate
Rim = 353.44'
Inv. In = 347.84'
In Pl. 24" Plastic Pipe
Inv. Out = 347.79'

371 In Pl. SSMH
Rim = 353.35'
(a) Inv. In = 347.55'
(b) Inv. In = 329.80'
(c) Inv. In = 347.55'
In Pl. 39" Plastic Pipe
Inv. Out = 329.70'

372 In Pl. Metal Grate
Rim = 352.17'
In Pl. 18" Plastic Pipe
Inv. Out = 348.37'

373 In Pl. Headwall
In Pl. 39" Plastic Pipe
Inv. = 329.79'

374 In Pl. Headwall
In Pl. 48" Conc. Pipe
Inv. = 329.74'

375 In Pl. SSMH
Rim = 352.18'
(a) Inv. In = 343.13'
(b) Inv. In = 322.68'
(c) Inv. In = 342.23'
(d) Inv. In = 342.43'
In Pl. 42" Conc. Pipe
Inv. Out = 322.58'

376 In Pl. Metal Grate
Rim = 349.60'
In Pl. 18" Conc. Pipe
Inv. Out = 343.10'

377 In Pl. Metal Grate
Rim = 350.63'
Inv. In = 344.17'
In Pl. 18" Conc. Pipe
Inv. Out = 344.13'

378 In Pl. Metal Grate
Rim = 350.47'
Inv. In = 344.74'
In Pl. 18" Conc. Pipe
Inv. Out = 344.70'

379 In Pl. Metal Grate
Rim = 347.57'
In Pl. 18" Conc. Pipe
Inv. Out = 345.37'

380 In Pl. SSMH
Rim = 354.15'
Inv. In = 346.80'
In Pl. 24" Conc. Pipe
Inv. Out = 344.70'

381 In Pl. Metal Grate
Rim = 359.25'
In Pl. 24" Conc. Pipe
Inv. In = 354.59'
In Pl. 24" Conc. Pipe
Inv. Out = 352.84'

382 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 347.56'

541 In Pl. Metal Grate
Rim = 355.61'
In Pl. 18" Conc. Pipe
Inv. Out = 348.11'

384 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 343.12'

385 In Pl. Metal Grate
Rim = 364.23'
Inv. In = 358.93'
In Pl. 18" Conc. Pipe
Inv. Out = 345.18'

386 In Pl. Metal Grate
Rim = 364.89'
In Pl. 18" Conc. Pipe
Inv. Out = 359.64'

387 In Pl. 12" Plastic Pipe
Inv. In = 343.58'

388 In Pl. 12" Plastic Pipe
Inv. Out = 343.35'

389 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 349.59'

390 In Pl. Metal Grate
Rim = 358.57'
Inv. In = 353.97'
In Pl. 18" Conc. Pipe
Inv. Out = 350.77'

391 In Pl. Metal Grate
Rim = 359.48'
In Pl. 18" Conc. Pipe
Inv. Out = 354.53'

392 In Pl. SSMH
Rim = 340.86'
In Pl. 24" Plastic Pipe
Inv. In = 333.66'
In Pl. 24" Plastic Pipe
Inv. Out = 333.62'

393 In Pl. SSMH
Rim = 339.95'
Inv. In = 332.90'
In Pl. 24" Conc. Pipe
Inv. Out = 332.85'

394 In Pl. Metal Grate
Rim = 338.52'
(a) Inv. In = Inaccessible
(b) Inv. In = Inaccessible
In Pl. 24" Conc. Pipe
Inv. Out = Inaccessible

395 In Pl. Metal Grate
Rim = 338.15'
Inv. In = 335.01'
In Pl. 18" Conc. Pipe
Inv. Out = 333.05'

396 In Pl. Metal Grate
Rim = 339.65'

397 In Pl. SSMH
Rim = 334.30'
(a) Inv. In = 324.80'
(b) Inv. In = 324.50'
In Pl. 24" Conc. Pipe
Inv. Out = 320.00'

398 In Pl. Metal Grate
Rim = 341.17'
In Pl. 18" Conc. Pipe
Inv. Out = 335.87'

399 In Pl. Endwall
Inv. Out = 307.24'

400 In Pl. SSMH
Rim = 314.50'
Inv. In = 307.52'
In Pl. 24" Conc. Pipe
Inv. Out = 307.47'

401 In Pl. Metal Grate
Rim = 320.03'
(a) Inv. In = 314.91'
(b) Inv. In = 312.53'
In Pl. 24" Conc. Pipe
Inv. Out = 309.03'

402 In Pl. Metal Grate
Rim = 318.63'
Inv. In = 313.63'
In Pl. 18" Conc. Pipe
Inv. Out = 312.88'

403 In Pl. Metal Grate
Rim = 340.45'
Inv. In = 335.45'
In Pl. 18" Conc. Pipe
Inv. Out = 313.45'

404 In Pl. Metal Grate
Rim = 341.98'
In Pl. 18" Conc. Pipe
Inv. Out = 336.98'

405 In Pl. Metal Grate
Rim = 326.39'
(a) Inv. In = 321.49'
(b) Inv. In = 321.39'
In Pl. 18" Conc. Pipe
Inv. Out = 317.09'

406 In Pl. Metal Grate
Rim = 326.19'
In Pl. 18" Conc. Pipe
Inv. Out = 321.99'

407 In Pl. SSMH
Rim = 339.62'
Inv. In = 332.85'
In Pl. 18" Conc. Pipe
Inv. Out = 325.17'

408 In Pl. Metal Grate
Rim = 349.95'
In Pl. 18" Conc. Pipe
Inv. Out = 341.20'

409 In Pl. SSMH
Rim = 328.45'
Inv. In = 319.95'
In Pl. 30" Conc. Pipe
Inv. Out = 305.95'

410 In Pl. Metal Grate
Rim = 332.99'
(a) Inv. In = 328.59'
(b) Inv. In = 328.09'
In Pl. 30" Conc. Pipe
Inv. Out = 321.99'

411 In Pl. SSMH
Rim = 336.99'
(a) Inv. In = 329.49'
(b) Inv. In = 329.99'
In Pl. 24" Plastic Pipe
Inv. Out = 328.39'

412 In Pl. SSMH
Rim = 336.99'
(a) Inv. In = 329.49'
(b) Inv. In = 329.99'
In Pl. 24" Plastic Pipe
Inv. Out = 328.39'

413 In Pl. Metal Grate
Rim = 351.34'
Inverts Inaccessible
Bottom of Structure = 331.30' +/-

414 In Pl. Metal Grate
Rim = 350.69'
Inv. In = 341.49'
In Pl. 18" Conc. Pipe
Inv. Out = 341.34'

415 In Pl. Metal Grate
Rim = 350.54'
Inv. In = 341.24'

416 In Pl. Metal Grate
(a) Inv. In = 344.81'
(b) Inv. In = 341.85'
In Pl. 18" Conc. Pipe
Inv. Out = 341.71'

417 In Pl. Metal Grate
Rim = 357.54'
In Pl. 18" Conc. Pipe
Inv. Out = 352.54'

418 In Pl. Metal Grate
Rim = 347.09'
In Pl. 18" Conc. Pipe
Inv. Out = 342.37'

419 In Pl. Metal Grate
Rim = 348.04'
In Pl. 18" Conc. Pipe
Inv. Out = 343.29'

420 In Pl. Metal Grate
Rim = 335.77'
In Pl. 18" Conc. Pipe
Inv. Out = 331.50'

421 In Pl. SSMH
Rim = 336.43'
(a) Inv. In = 329.28'
(b) Inv. In = 330.18'
In Pl. 24" Plastic Pipe
Inv. Out = 329.23'

422 In Pl. Metal Grate
Rim = 336.33'
In Pl. 18" Conc. Pipe
Inv. Out = 330.18'

423 In Pl. Metal Grate
Rim = 335.61'
Inv. In = 329.87'
In Pl. 18" Plastic Pipe
Inv. Out = 329.83'

424 In Pl. Metal Grate
Rim = 340.64' +/-
Under Const.
Inverts Inaccessible

425 In Pl. Metal Grate
Rim = 368.30'
In Pl. 18" Conc. Pipe
Invert Inaccessible
Bottom of Structure = 343.60' +/-

426 Rim = 341.70' +/-
Under Const.
Inverts Inaccessible

427 In Pl. SSMH
Rim = 342.72'
Inv. In = 336.72'
In Pl. 18" Plastic Pipe
Inv. Out = 336.65'

428 In Pl. SSMH
Rim = 345.94'
Inv. In = 338.52'
In Pl. 18" Plastic Pipe
Inv. Out = 338.47'

429 In Pl. Metal Grate
Rim = 342.27' +/-
In Pl. 18" Plastic Pipe
Invert Inaccessible

430 In Pl. SSMH
Rim = 337.04'
(a) Inv. In = 330.64'
(b) Inv. In = 330.64'
In Pl. 18" Plastic Pipe
Inv. Out = 330.59'

431 In Pl. Metal Grate
Rim = 340.65'
Inv. In = 336.26'
In Pl. 18" Plastic Pipe
Inv. Out = 336.16'

432 In Pl. Metal Grate
Rim = 344.70'
Inv. In = 339.10'
In Pl. 18" Plastic Pipe
Inv. Out = 339.04'

433 In Pl. Metal Grate
Rim = 347.48'
In Pl. 18" Plastic Pipe
Inv. Out = 343.08'

434 In Pl. Metal Grate
Rim = 349.17'
In Pl. 18" Plastic Pipe Stubbed
Inv. Out = 346.59'

435 In Pl. Metal Grate
Rim = 346.35'
Inv. Inaccessible
Under Const.

436 In Pl. Metal Grate
Rim = 325.95'
(a) Inv. In = 316.55'
(b) Inv. In = 316.35'
In Pl. 60" Conc. Pipe
Inv. Out = 316.30'

437 In Pl. SSMH
Rim = 327.35'
Inv. In = 316.60'
In Pl. 48" Conc. Pipe
Inv. Out = 316.56'

438 In Pl. Endwall
In Pl. 36" Conc. Pipe
Inv. = 294.48'

439 In Pl. Headwall
In Pl. 36" Conc. Pipe
Inv. Out = 295.47'

440 In Pl. Endwall
In Pl. 36" Conc. Pipe
Inv. = 395.30'

441 In Pl. SSMH
Inv. In = 298.38'
In Pl. 36" Conc. Pipe
Inv. Out = 298.18'

442 In Pl. Headwall
In Pl. 60" Conc. Pipe
(a) Inv. = 292.44'
In Pl. 4'(h) x 7'(w) Box Culvert
(b) Inv. = 292.56'
In Pl. 4'(h) x 7'(w) Box Culvert
(c) Inv. = 292.73'

443 In Pl. Metal Grate
Rim = 291.53'
Inv. In = 287.91'
In Pl. 18" Conc. Pipe
Inv. Out = 287.88'

444 In Pl. Metal Grate
Rim = 297.33'
Inv. In = 290.71'
In Pl. 18" Conc. Pipe
Inv. Out = 290.68'

445 In Pl. Metal Grate
Rim = 303.19'
In Pl. 18" Conc. Pipe
Inv. Out = 294.79'

446 In Pl. Endwall
In Pl. 30" Conc. Pipe
Inv. 278.59'

447 In Pl. SSMH
Rim = 290.25'
(a) Inv. In = 279.35'
(b) Inv. In = 279.35'
In Pl. 30" Conc. Pipe
Inv. Out = 279.30'

448 In Pl. SSMH
Rim = 288.56'
(a) Inv. In = 281.56'
(b) Inv. In = 281.56'
In Pl. 30" Conc. Pipe
Inv. Out = 281.51'

449 In Pl. SSMH
Rim = 292.39'
(a) Inv. In = 285.89'
(b) Inv. In = 285.89'
In Pl. 30" Conc. Pipe
Inv. Out = 285.82'

450 In Pl. Metal Grate
Rim = 294.17'
(a) Inv. In = 287.22'
(b) Inv. In = 287.22'
In Pl. 30" Conc. Pipe
Inv. Out = 287.17'

451 In Pl. SSMH
Rim = 298.44'
In Pl. 24" Conc. Pipe
Inv. In = 290.49'
In Pl. 30" Conc. Pipe
Inv. Out = 290.44'

452 In Pl. Metal Grate
Rim = 295.33'
Inv. In = 288.63'
In Pl. 18" Conc. Pipe
Inv. Out = 288.53'

453 In Pl. Metal Grate
Rim = 297.60'
In Pl. 18" Conc. Pipe
Inv. Out = 289.00'

454 In Pl. Metal Grate
Rim = 294.53'
In Pl. 18" Conc. Pipe
Inv. Out = 288.03'

455 In Pl. Metal Grate
Rim = 291.95'
Same Str. As C113
Bottom of Structure = 286.05'

456 In Pl. Metal Grate
Rim = 292.95'
Same Str. As C112
Bottom of Structure = 286.05'
In Pl. 18" Conc. Pipe
Inv. Out = 285.95'

457 In Pl. Metal Grate
Rim = 292.29'
(a) Inv. In = 283.35'
(b) Inv. In = 283.35'
In Pl. 18" Conc. Pipe
Inv. Out = 283.29'

458 In Pl. Metal Grate
Rim = 292.20'
In Pl. 18" Conc. Pipe
Inv. Out = 285.20'

459 In Pl. Metal Grate
Rim = 289.12'
In Pl. 18" Conc. Pipe
Inv. Out = 283.52'

460 In Pl. Metal Grate
Rim = 289.13'
Inv. In = 282.98'
In Pl. 18" Conc. Pipe
Inv. Out = 282.96'

461 In Pl. Metal Grate
Rim = 293.08'
Same Str. As C119
Bottom of Structure = 284.38'

462 In Pl. Metal Grate
Rim = 289.44'
Same Str. As C118
Inv. In = 283.04'
In Pl. 18" Conc. Pipe
Inv. Out = 282.98'

463 In Pl. Metal Grate
Rim = 289.44'
(a) Inv. In = 281.77'
(b) Inv. In = 281.77'
In Pl. 18" Conc. Pipe
Inv. Out = 281.70'

464 In Pl. Metal Grate
Rim = 291.54'
Same Str. As C122
Inv. Out = 283.98'

465 In Pl. Metal Grate
Rim = 293.43'
Same Str. As C121
Bottom of Structure = 284.73'

466 In Pl. Endwall
In Pl. 72" Conc. Pipe
Inv. = 283.55'

467 In Pl. SSMH
Rim = 300.12'
(a) Inv. In = 282.77'
(b) Inv. In = 282.77'
Drops Into Box Culvert

468 In Pl. Metal Grate
Rim = 293.48'
In Pl. 18" Conc. Pipe
Inv. Out = 288.98'

469 In Pl. Metal Grate
Rim = 290.91'
Inv. In = 285.35'
In Pl. 18" Conc. Pipe
Inv. Out = 285.31'

470 In Pl. SSMH
Rim = 292.29'
Inv. In = 285.22'
In Pl. 18" Conc. Pipe
Inv. Out = 285.18'

471 In Pl. Metal Grate
Rim = 291.32'
(a) Inv. In = 285.44'
(b) Inv. In = 285.44'
In Pl. 18" Conc. Pipe
Inv. Out = 285.40'

472 In Pl. Metal Grate
Rim = 290.24'
In Pl. 18" Conc. Pipe
Inv. Out = 285.99'

473 In Pl. Metal Grate
Rim = 290.99'
Inv. In = 287.42'
In Pl. 18" Conc. Pipe
Inv. Out = 287.37'

474 In Pl. Metal Grate
Rim = 290.97'
In Pl. 18" Conc. Pipe
Inv. Out = 287.97'

475 In Pl. Headwall
In Pl. 72" Conc. Pipe
(a) Inv. = 274.79'
In Pl. 6'(h) x 8'(w) Box Culvert
(b) Inv. = 274.66'
In Pl. 6'(h) x 8'(w) Box Culvert
(c) Inv. = 274.70'

476 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 283.64'

477 In Pl. Metal Grate
Rim = 291.93'
Inv. In = 286.93'
In Pl. 18" Conc. Pipe
Inv. Out = 285.43'

478 In Pl. Metal Grate
Rim = 296.70'
In Pl. 18" Conc. Pipe
Inv. Out = 285.43'

479 In Pl. Endwall
In Pl. 60" Conc. Pipe
Inv. = 287.48'

480 In Pl. SSMH
Rim = 307.51'
Inv. Inaccessible
In Pl. 60" Conc. Pipe
Bottom of Structure = 289.40' +/-

481 In Pl. Metal Grate
Rim = 298.54'
In Pl. 18" Conc. Pipe
Inv. Out = 289.29'

482 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 291.78'

483 In Pl. Metal Grate
In Pl. 18" Conc. Pipe
Inv. Out = 298.71'

484 In Pl. Endwall
In Pl. 24" Conc. Pipe
Inv. = 312.18'

485 In Pl. SSMH
Rim = 321.51'
(a) Inv. In = 313.84'
(b) Inv. In = 313.84'
In Pl. 24" Conc. Pipe

486 In Pl. Metal Grate
Rim = 322.50'
In Pl. 18" Conc. Pipe
Inv. Out = 316.40'

487 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 323.90'

488 In Pl. Metal Grate
Rim = 330.56'
Inv. In = 323.84'
In Pl. 18" Conc. Pipe
Inv. Out = 323.81'

489 In Pl. Metal Grate
Rim = 330.80'
In Pl. 18" Conc. Pipe
Inv. Out = 327.10'

490 In Pl. SSMH
Rim = 330.98'
(a) Inv. In = 324.25'
(b) Inv. In = 324.26'
In Pl. 18" Conc. Pipe
Inv. Out = 324.25'

491 In Pl. Metal Grate
Rim = 330.68'
In Pl. 18" Conc. Pipe
Inv. Out = 325.96'

492 In Pl. SSMH
Rim = 329.58'
Inv. In = 325.28'
In Pl. 18" Conc. Pipe
Inv. Out = 325.52'

493 In Pl. Metal Grate
Rim = 329.12'
In Pl. 18" Conc. Pipe
Inv. Out = 325.52'

494 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 268.94'

495 In Pl. Metal Grate
Rim = 288.76'
In Pl. 18" Conc. Pipe
Inv. Out = 273.86'

496 In Pl. Metal Grate
Rim = 270.40'
Bottom of Structure = 268.55'

497 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 273.81'

498 In Pl. Metal Grate
Rim = 284.92'
Inv. In = 279.62'
In Pl. 18" Conc. Pipe
Inv. Out = 274.42'

499 In Pl. Metal Grate
Rim = 290.34'
In Pl. 18" Conc. Pipe
Inv. Out = 285.44'

500 In Pl. Metal Grate
Rim = 286.43'
In Pl. 18" Conc. Pipe
Inv. Out = 273.03'

501 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 272.68'

502 In Pl. Metal Grate
Rim = 281.40'
In Pl. 18" Conc. Pipe
Inv. Out = 275.57'

503 In Pl. Metal Grate
Rim = 279.96'
Inv. In = 275.21'
In Pl. 18" Conc. Pipe
Inv. Out = 275.16'

504 In Pl. Metal Grate
Rim = 276.51'
Inv. In = 271.76'
In Pl. 18" Conc. Pipe
Inv. Out = 271.66'

505 In Pl. Metal Grate
Rim = 277.68'
(a) Inv. In = 269.68'
(b) Inv. In = 269.68'
Bottom of Structure = 253.98'

506 In Pl. Metal Grate
Rim = 278.51'
Same Str. As C164

507 In Pl. Metal Grate
Rim = 277.62'
Inv. In = 270.72'
In Pl. 18" Conc. Pipe
Inv. Out = 270.42'

508 In Pl. Metal Grate
Rim = 279.05'
Inv. In = 272.65'
In Pl. 18" Conc. Pipe
Inv. Out = 272.55'

509 In Pl. Metal Grate
Rim = 284.54'
In Pl. 18" Conc. Pipe
Inv. Out = 279.34'

510 In Pl. Metal Grate
Rim = 277.98'
Inv. In = 272.34'
In Pl. 18" Conc. Pipe
Inv. Out = 270.68'

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

EXISTING DRAINAGE DESCRIPTION SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IH(4)

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

511 In Pl. Metal Grate
Rim = 278.14'
Inv. In = 272.44'
In Pl. 18" Conc. Pipe
Inv. Out = 270.74'

512 In Pl. Metal Grate
Rim = 278.23'
In Pl. 18" Conc. Pipe
Inv. Out = 273.53'

513 In Pl. Endwall
In Pl. 30" Conc. Pipe
Inv. = 256.18'

514 In Pl. Metal Grate
Rim = 272.23'
Inv. In = 264.48'
In Pl. 30" Conc. Pipe
Inv. Out = 264.48'

515 In Pl. Metal Grate
Rim = 271.99'
Inv. In = 265.54'
In Pl. 30" Conc. Pipe
Inv. Out = 265.49'

516 In Pl. Metal Grate
Rim = 272.25'
Inv. In = 265.65'
In Pl. 30" Conc. Pipe
Inv. Out = 265.61'

517 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. Out = 259.92'

518 In Pl. Metal Grate
Rim = 273.88'
In Pl. 18" Conc. Pipe
Inv. Out = 260.88'

519 In Pl. Headwall
In Pl. 8'(w) x 6'(h) Box Culvert
Inv. = 253.98'

520 In Pl. Metal Grate
Rim = 274.58'
Inv. In = 267.48'
In Pl. 18" Conc. Pipe
Inv. Out = 267.41'

521 In Pl. Metal Grate
Rim = 275.66'
Same As Str. C178

522 In Pl. Metal Grate
Rim = 274.65'
(a) Inv. In = 266.65'
(b) Inv. In = 268.25'
In Pl. 30" Conc. Pipe
Inv. Out = 266.65'

523 In Pl. Metal Grate
Rim = 274.72'
Inv. In = 268.52'
In Pl. 24" Conc. Pipe
Inv. Out = 268.62'

524 In Pl. SSMH
Rim = 292.25'
Inv. In = 283.15'
In Pl. 24" Conc. Pipe
Inv. Out = 269.75'

525 In Pl. Metal Grate
Rim = 298.15'
Inv. In = 294.55'
In Pl. 24" Conc. Pipe
Inv. Out = 286.98'

526 In Pl. F.E.S
In Pl. 18" Conc. Pipe
Inv. = 295.07'

527 In Pl. Metal Grate
Rim = 276.94'
In Pl. 18" Conc. Pipe
Inv. Out = 272.24'

528 In Pl. Metal Grate
Rim = 278.35'
Inverts Inaccessible
Str. Full Of Debris

529 In Pl. Metal Grate
Rim = 278.79'
Inverts Inaccessible
Str. Full Of Debris

530 In Pl. Headwall
In Pl. 24" Conc. Pipe
Inv. = 301.70'

531 In Pl. SSMH
Rim = 307.51
(a) Inv. In = 302.01
(b) Inv. In = 299.51
In Pl. 36" Conc. Pipe
Inv. Out = 292.51

532 In Pl. SSMH
Rim = 304.11
Inv. In = 293.34'
In Pl. 39" Plastic Pipe
Inv. Out = 289.89'

533 In Pl. Endwall
In Pl. 39" Plastic Pipe
Inv.Out = 289.74'

1005 In Pl. Metal Grate
Rim = 308.77'
Inv. In = 301.52'
In Pl. 36" Conc. Pipe
Inv. Out = 301.47'

535 In Pl. Metal Grate
Rim = 308.82'
Inv. In = 302.67'
In Pl. 36" Conc. Pipe
Inv. Out = 302.62'

536 In Pl. Metal Grate
Rim = 309.68'
Inv. In = 304.38'
In Pl. 36" Conc. Pipe
Inv. Out = 304.35'

537 In Pl. Headwall
In Pl. 54" Conc. Pipe
Inv. = 289.75'

538 In Pl. SSMH
Rim = 296.89'
Inv. In = 288.39'
In Pl. 54" Conc. Pipe
Inv. Out = 281.04'

539 In Pl. FES
In Pl. 54" Conc. Pipe
Inv. = 281.09'

540 In Pl. FES
In Pl. 30" Conc. Pipe
Inv. = 283.54'

541 In Pl. SSMH
Rim = 292.36'
(a) Inv. In = 284.76'
(b) Inv. In = 284.86'
In Pl. 30" Conc. Pipe
Inv. Out = 284.06'

542 In Pl. SSMH
Rim = 308.26'
Inv. In = 286.96'
In Pl. 30" Conc. Pipe
Inv. Out = 286.91'

543 In Pl. Metal Grate
Rim = 297.22'
Inv. In = 288.14'
In Pl. 36" Conc. Pipe
Inv. Out = 288.10'

544 In Pl. Metal Grate
Rim = 300.82'
(a) Inv. In = 290.22'
(b) Inv. In = 296.07'
In Pl. 18" Conc. Pipe
Inv. Out = 290.12'

545 In Pl. Metal Grate
Rim = 297.56'
In Pl. 18" Conc. Pipe
Inv. Out = 292.26'

546 In Pl. Metal Grate
Rim = 302.48'
In Pl. 18" Conc. Pipe
Inv. Out = 298.28'

547 In Pl. SSMH
Rim = 291.89'
Inv. In = 286.13'
In Pl. 18" Conc. Pipe
Inv. Out = 286.09'

548 In Pl. SSMH
Rim = 319.52'
Inv. In = 313.02'
In Pl. 18" Conc. Pipe
Inv. Out = 295.96'

549 In Pl. SSMH
Rim = 328.45'
(a) Inv. In = 321.20'
(b) Inv. In = 320.55'
In Pl. 18" Conc. Pipe
Inv. Out = 313.85'

550 In Pl. Metal Grate
Rim = 327.44'
Inv. In = 321.60'
In Pl. 18" Conc. Pipe
Inv. Out = 321.54'

551 In Pl. Metal Grate
Rim = 328.90'
Inv. In = 322.70'
In Pl. 18" Conc. Pipe
Inv. Out = 322.60'

552 In Pl. SSMH
Rim = 330.95'
Inv. In = 323.45'
In Pl. 18" Conc. Pipe
Inv. Out = 323.35'

553 In Pl. Metal Grate
Rim = 330.55'
In Pl. 18" Conc. Pipe
Inv. Out = 324.55'

554 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv.Out = 292.96'

555 In Pl. Metal Grate
Rim = 300.75'
Inv. In = 295.50'
In Pl. 18" Conc. Pipe
Inv. Out = 293.68'

556 In Pl. Metal Grate
Rim = 299.99
In Pl. 18" Conc. Pipe
Inv. Out = 295.99'

557 In Pl. Endwall
In Pl. 36" Conc. Pipe
Inv.Out = 291.12'

558 In Pl. SSMH
Rim = 300.04'
(a) Inv. In = 293.24'
(b) Inv. In = 292.09'
In Pl. 36" Conc. Pipe
Inv. Out = 292.06'

559 In Pl. Metal Grate
Rim = 299.88'
Inv. In = 294.60'
In Pl. 18" Conc. Pipe
Inv. Out = 294.56'

560 In Pl. Metal Grate
Rim = 299.96'
Inv. In = 295.94'
In Pl. 18" Conc. Pipe
Inv. Out = 295.89'

561 In Pl. Metal Grate (2)
Rim = 300.75' (North)
Rim = 304.68' (South)
(a) Inv. In = 294.48'
(b) Inv. In = 293.85'
(c) Inv. In = 294.42
In Pl. 36" Conc. Pipe
Inv. Out = 292.88'

562 In Pl. Metal Grate
Rim = 300.81'
In Pl. 18" Conc. Pipe
Inv. Out = 295.43'

563 In Pl. Metal Grate
Rim = 304.17'
In Pl. 18" Conc. Pipe
Inv. Out = 299.34'

564 In Pl. Metal Grate
Rim = 301.19'
In Pl. 27" Conc. Pipe
Inv. Out = 295.49'

565 In Pl. Metal Grate
Rim = 301.25'
Inv. In = 296.75'
In Pl. 18" Conc. Pipe
Inv. Out = 296.65'

566 In Pl. Metal Grate
Rim = 302.16'
(a) Inv. In = 298.18'
(b) Inv. In = 298.18'
In Pl. 18" Conc. Pipe
Inv. Out = 298.14'

567 In Pl. Metal Grate
Rim = 302.54'
In Pl. 18" Conc. Pipe
Inv. Out = 299.54'

568 In Pl. Metal Grate
Rim = 303.12'
In Pl. 18" Conc. Pipe
Inv. Out = 299.42'

569 In Pl. Conc. Riser
Top = 283.97'
In Pl. 12'(w) x 1'(h) Wier
Inv. = 281.00'
In Pl. 4" Weep Hole
Inv. = 278.51'
(a) In Pl. 30" Conc. Pipe
Inv. Out = 278.05'
(b) In Pl. 36" Conc. Pipe
Inv. Out = 278.09'

570 In Pl. Metal Grate
Rim = 289.89'
Inv. In = 273.82'
In Pl. 36" Conc. Pipe
Inv. Out = 273.77'

571 In Pl. Endwall
In Pl. 30" Conc. Pipe
(a) Inv. = 265.32'
In Pl. 36" Conc. Pipe
(b) Inv. = 265.30'

572 In Pl. 18" Conc. Pipe
Inv. = 276.18'

573 In Pl. Metal Grate
Rim = 286.10'
In Pl. 18" Conc. Pipe
Inv. Out = 278.90'

574 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 316.42'

575 In Pl. Metal Grate
Rim = 323.62'
Inv. In = 316.72'
In Pl. 18" Conc. Pipe
Inv. Out = 316.67'

576 In Pl. Metal Grate
Rim = 322.82'
In Pl. 18" Conc. Pipe
Inv. Out = 317.72'

577 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 316.63'

578 In Pl. Metal Grate
Rim = 328.08'
Inv. In = 320.68'
In Pl. 18" Conc. Pipe
Inv. Out = 318.08'

579 In Pl. Metal Grate
Rim = 326.92'
In Pl. 18" Conc. Pipe
Inv. Out = 321.92'

580 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 295.02'

581 In Pl. Metal Grate
Rim = 299.85
Inv. In = 295.27'
In Pl. 18" Conc. Pipe
Inv. Out = 295.23'

582 In Pl. Metal Grate
Rim = 298.81
In Pl. 18" Conc. Pipe
Inv. Out = 295.91'

583 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 304.90'

584 In Pl. Metal Grate
Rim = 311.27'
Inv. In = 305.2' +/-
In Pl. 18" Conc. Pipe
Inv. Out = 305.1' +/-
(Structure Has Debris)

585 In Pl. Metal Grate
Rim = 310.62'
In Pl. 18" Conc. Pipe
Inv. Out = 306.1' +/-
(Structure Has Debris)

586 In Pl. Endwall
In Pl. 24" Conc. Pipe
Inv. = 262.07'

587 In Pl. FES
In Pl. 24" Conc. Pipe
Inv. = 268.12'

588 In Pl. Endwall
In Pl. 7'(h)x 10'(w) Box Culvert
(a) Inv. = 263.90'
In Pl. 7'(h)x 10'(w) Box Culvert
(b) Inv. = 263.84'

589 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 286.59'

590 In Pl. Metal Grate
Rim = 293.52'
In Pl. 18" Conc. Pipe
Inv. Out = 287.42'

591 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 286.52'

592 In Pl. Metal Grate
Rim = 291.77'
In Pl. 18" Conc. Pipe
Inv. Out = 286.97'

593 In Pl. Endwall
In Pl. 48" Conc. Pipe
Inv. = 278.91'

594 In Pl. Headwall
In Pl. 48" Conc. Pipe
Inv. = 285.75'

595 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 275.97'

596 In Pl. Metal Grate
Rim = 285.50'
In Pl. 18" Conc. Pipe
Inv. Out = 277.20'

597 In Pl. Headwall
In Pl. 8'(h)x 8'(w) Box Culvert
(a) Inv. = 260.92'
In Pl. 8'(h)x 8'(w) Box Culvert
(b) Inv. = 260.80'

598 In Pl. FES
In Pl. 24" Conc. Pipe
Inv. = 270.13'

599 In Pl. SSMH
Rim = 281.71'
Inv. In = 273.21'
In Pl. 24" Conc. Pipe
Inv. Out = 272.11'

600 In Pl. Metal Grate
Rim = 281.46'
Inv. In = 273.65'
In Pl. 18" Conc. Pipe
Inv. Out = 273.60'

601 In Pl. Metal Grate
Rim = 281.38'
Inv. In = 274.53'
In Pl. 18" Conc. Pipe
Inv. Out = 274.48'

602 In Pl. Metal Grate
Rim = 281.79'
Inv. In = 275.01'
In Pl. 18" Conc. Pipe
Inv. Out = 274.96'

603 In Pl. SSMH
Rim = 280.31'
(a) Inv. In = 274.93'
(b) Inv. In = 274.93'
In Pl. 18" Conc. Pipe
Inv. Out = 274.91'

604 In Pl. Metal Grate
Rim = 279.67'
In Pl. 18" Conc. Pipe
Inv. Out = 275.27'

605 In Pl. Metal Grate
Rim = 280.23'
Inv. In = 275.75'
In Pl. 18" Conc. Pipe
Inv. Out = 275.70'

606 In Pl. Metal Grate
Rim = 280.23'
In Pl. 18" Conc. Pipe
Inv. Out = 276.19'

607 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 275.35'

608 In Pl. SSMH
Rim = 283.29'
(a) Inv. In = 280.79'
(b) Inv. In = 276.84'
In Pl. 18" Conc. Pipe
Inv. Out = 276.79'

609 In Pl. Metal Grate
Inaccessible

610 In Pl. Metal Grate
Rim = 281.34'
In Pl. 15" Conc. Pipe
Inv. Out = 277.15'

611 In Pl. Endwall
In Pl. 8'(h)x 8'(w) Box Culvert
(a) Inv. = 265.45'
In Pl. 8'(h)x 8'(w) Box Culvert
(b) Inv. = 265.38'

612 In Pl. Headwall
In Pl. 8'(h)x 8'(w) Box Culvert
(a) Inv. = 266.51'
In Pl. 8'(h)x 8'(w) Box Culvert
(b) Inv. = 266.58'

613 In Pl. Endwall
In Pl. 18" Conc. Pipe
Inv. = 280.68'

614 In Pl. Metal Grate
Rim = 288.68'
In Pl. 18" Conc. Pipe
Inv. Out = 283.34'

615 In Pl. Endwall
In Pl. 24" Conc. Pipe
Inv. = 280.68'

616 In Pl. Metal Grate
Rim = 283.98'
In Pl. 24" Conc. Pipe
Inv. Out = 273.28'

617 In Pl. Endwall
In Pl. 60" Conc. Pipe
(a) Inv. = 268.25'
In Pl. 4'(h)x 7'(w) Box Culvert
(b) Inv. = 268.29'
In Pl. 4'(h)x 7'(w) Box Culvert
(c) Inv. = 268.44'

618 In Pl. Endwall
In Pl. 72" Conc. Pipe
(a) Inv. = 270.39'
In Pl. 6'(h)x 8'(w) Box Culvert
(b) Inv. = 270.53'
In Pl. 6'(h)x 8'(w) Box Culvert
(c) Inv. = 270.57'

619 In Pl. SSMH
Rim = 292.79'
(a) Inv. In = 286.19'
(b) Inv. In = 286.19'
In Pl. 6'(h)x 8'(w) Box Culvert
Inv. = 272.44'

620 In Pl. Metal Grate
Rim = 290.55'
In Pl. 18" Conc. Pipe
Inv. Out = 287.20'

621 In Pl. Metal Grate
Rim = 290.33'
In Pl. 18" Conc. Pipe
Inv. Out = 287.38'

622 In Pl. Metal Grate
Rim = 285.24'
In Pl. 24" Plastic Pipe Pipe
Inv. Out = 276.48'
(direct connect to 6'(h)x 8'(w) Box Culvert)

623 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 329.18'

624 In Pl. Metal Grate
Rim = 334.27'
In Pl. 18" Conc. Pipe
Inv. Out = 329.77'

625 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 327.94'

626 In Pl. Metal Grate
Rim = 336.34'
(a) Inv. In = 328.47'
(b) Inv. In = 331.31'
In Pl. 18" Conc. Pipe
Inv. Out = 328.44'

627 In Pl. Metal Grate
Rim = 334.17'
In Pl. 18" Conc. Pipe
Inv. Out = 329.32'

628 In Pl. Metal Grate
Rim = 337.29'
In Pl. 18" Conc. Pipe
Inv. Out = 332.14'

629 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 321.55'

630 In Pl. Metal Grate
Rim = 331.54'
Inv. In = 323.14'
In Pl. 18" Conc. Pipe
Inv. Out = 322.54'

631 In Pl. Metal Grate
Rim = 331.69
Inv. In = 324.37'
In Pl. 18" Conc. Pipe
Inv. Out = 324.34'

632 In Pl. Metal Grate
Rim = 332.20'
(a) Inv. In = 324.80'
(b) Inv. In = 324.80'
In Pl. 18" Conc. Pipe
Inv. Out = 324.75'

633 In Pl. Metal Grate
Rim = 330.32'
Inv. In = 325.65'
In Pl. 18" Conc. Pipe
Inv. Out = 325.60'

634 In Pl. Metal Grate
Rim = 334.12'
In Pl. 18" Conc. Pipe
Inv. Out = 326.27'

635 In Pl. Metal Grate
Rim = 332.23'
Inv. In = 325.53'
In Pl. 18" Conc. Pipe
Inv. Out = 325.48'

636 In Pl. Metal Grate
Rim = 332.28'
In Pl. 18" Conc. Pipe
Inv. Out = 326.93'

637 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 317.66'

638 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 317.66'

639 In Pl. Metal Grate
Rim = 337.61'
In Pl. 18" Conc. Pipe
Inv. Out = 321.31'

640 In Pl. Metal Grate
Rim = 337.69'
In Pl. 18" Conc. Pipe
Inv. Out = 326.69'

641 In Pl. Endwall
In Pl. 8'(h)x 8'(w) Box Culvert
(a) Inv. = 259.01'
In Pl. 8'(h)x 8'(w) Box Culvert
(b) Inv. = 259.24'

642 In Pl. FES
In Pl. 24" Conc. Pipe
Inv. = 283.49'

643 In Pl. Metal Grate
Rim = 288.39'
Inv. In = 284.02'
In Pl. 24" Conc. Pipe
Inv. Out = 283.99'

644 In Pl. Metal Grate
Rim = 288.31'
Inv. In = 284.67'
In Pl. 24" Conc. Pipe
Inv. Out = 284.60'

645 In Pl. Metal Grate
Rim = 288.56'
Inv. In = 285.06'
In Pl. 18" Conc. Pipe
Inv. Out = 285.02'

646 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 302.92'

647 In Pl. Metal Grate
Rim = 308.40'
In Pl. 18" Conc. Pipe
Inv. Out = 303.50'

648 In Pl. Metal Grate
Rim = 327.25'
Inv. In = 322.23'
In Pl. 18" Conc. Pipe
Inv. Out = 322.21'

649 In Pl. Metal Grate
Rim = 327.88'
In Pl. 18" Conc. Pipe
Inv. Out = 322.93'

650 In Pl. Metal Grate
Rim = 288.94'
In Pl. 18" Conc. Pipe
Inv. Out = 277.04'

651 In Pl. End Wall
In Pl. 18" Conc. Pipe
Inv. = 289.35'

652 In Pl. Head Wall
In Pl. 18" Conc. Pipe
Inv. = 289.91

653 In Pl. Metal Grate
Rim = 291.36'
In Pl. 18" Conc. Pipe
Inv. Out = 286.26'

654 In Pl. Metal Grate
Rim = 290.88'
Inv. In = 285.88'
In Pl. 18" Conc. Pipe
Inv. Out = 285.86'

655 In Pl. FES
In Pl. 18" Conc. Pipe
Inv. = 283.08'

656 In Pl. Metal Grate
Inaccessible

657 In Pl. Metal Grate
Inaccessible

658 In Pl. Metal Grate
Rim = 310.04'In Pl. 15" Conc. Pipe
Inv. In = 304.54'
In Pl. 38 x 60 Conc. Pipe
Inv. In = 304.34'
In Pl. 15" Conc. Pipe
Inv. Out = 304.29'

659 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. = 303.53'

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

EXISTING DRAINAGE DESCRIPTION SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	1H(5)

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

660 In Pl. FES
In Pl. 42" Conc. Pipe
Inv. = 265.02'

661 In Pl. SSMH
Rim = 271.58'
Inv. In = 263.68'
In Pl. 42" Conc. Pipe
Inv. Out = 263.63'

662 In Pl. Stormwater Mgmt. Str.
Metal Lid = 271.11'
Inv. In = 262.3' +/-
(a) In Pl. Unknown
Inv. Out = 260.3' +/-
(b) In Pl. 42" Conc. Pipe
Inv. Out = 262.3' +/-
Structure Is Surcharged

663 In Pl. SSMH
Rim = 273.12'
(a) In Pl. 21" Conc. Pipe
Inv. In = 259.72'
(b) In Pl. 42" Conc. Pipe
Inv. In = 259.72'
In Pl. 21" Conc. Pipe
Inv. Out = 259.52'

664 In Pl. Stormwater Mgmt. Str.
Metal Lid = 267.21'
Inv. In = 258.4' +/-
(a) In Pl. 1" PVC
Inv. Out = Inacessible
(b) In Pl. 6" Iron
Inv. Out = Inaccessible
Structure Is Surcharged

665 In Pl. SSMH
Rim = 266.03'
(a) Inv. In = 259.33'
(b) Inv. In = 257.48'
(c) Inv. In = 258.28'
(d) Inv. In = 258.88'
(e) Inv. In = 259.08'
In Pl. 52" Conc. Pipe
Inv. Out = 256.83'

666 In Pl. Metal Grate
Rim = 262.93'
In Pl. 18" Conc. Pipe
Inv. Out = 259.33'

667 In Pl. Metal Grate
Rim = 263.53'
In Pl. 15" Conc. Pipe
Inv. Out = 259.93'

668 In Pl. FES
In Pl. 52" Conc. Pipe
Inv. = 253.24'

669 In Pl. FES
In Pl. 15" Conc. Pipe
Inv. = 255.48'

670 In Pl. Metal Grate
Rim = 267.68'
In Pl. 15" Conc. Pipe
Inv. In = 263.96'
In Pl. 15" Conc. Pipe
Inv. Out = 261.08'

671 In Pl. 24" Plastic Pipe
Inv. In = 233.17'
In Pl. 24" Plastic Pipe
Inv. Out = 232.65'

672 In Pl. 6" Plastic Pipe
Inv. In = 232.72'
In Pl. 6" Plastic Pipe
Inv. Out = 232.38

673 In Pl. 10" Conc. Pipe
Inv. In = 232.14'
Terminus Not Found

674 In Pl. 12" Metal Pipe
Inv. In = 285.38'.
In Pl. 12" Metal Pipe
Inv. Out = 280.51'

675 In Pl. 10" Plastic
Inv. Out = 281.21'
(Origin Not Found)

676 In Pl. YDI
Rim = 282.71'
In Pl. 8" x 48" Slot (Sides)
Inv. In = 281.72'
In Pl. 8" x 10" Slot (At Ditch)
Inv. In = 278.72'
In Pl. 24" Conc. Pipe
Inv. Out = 277.81

677 In Pl. Conc. DI
Rim = 284.07'
(a) Inv. In = 277.87'
(b) Inv. In = 278.22'
In Pl. 24" Conc. Pipe
Inv. Out = 277.82'

678 In Pl. SSMH
Rim = 283.13'
Inv. In = 277.03'
In Pl. 24" Conc. Pipe
Inv. Out = 274.23'

679 In Pl. Conc. DI
Rim = 283.05'
In Pl. 15" Conc. Pipe
Inv. Out = 280.05'

680 In Pl. 15" Metal Pipe
Inv. In = 280.95'
In Pl. 15" Metal Pipe
Inv. Out = 280.04'

681 In Pl. Conc. Endwall
In Pl. 15" Conc. Pipe
Inv. = 292.05'

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

	PROJECT	SHEET NO.
	0495-029-419	1H(5)

LIMITED ACCESS HIGHWAY

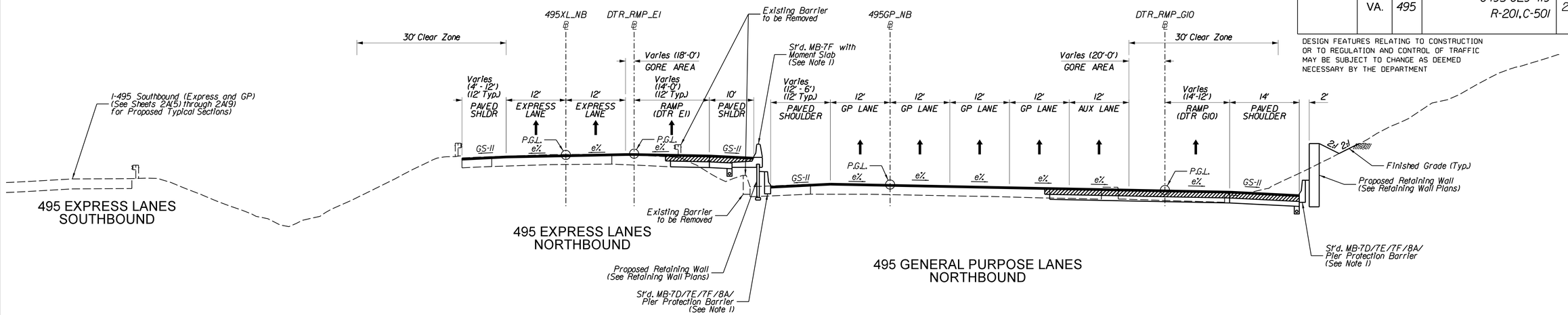
By Resolution of Commonwealth Transportation Board dated October 4, 1956

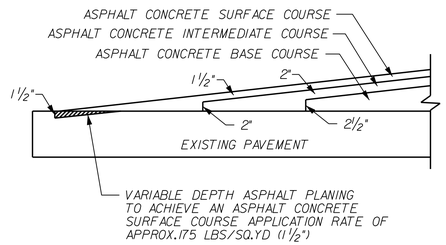
PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	2A(1)

TYPICAL SECTIONS

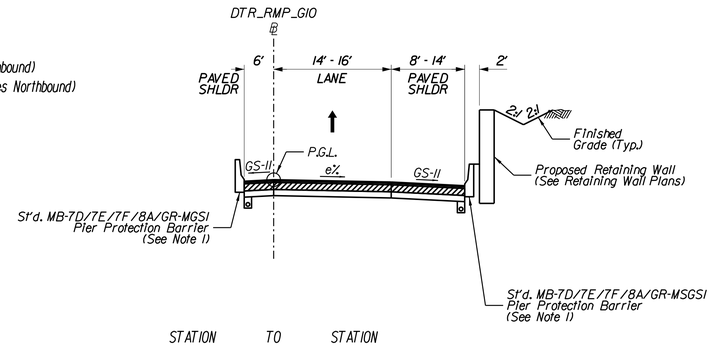
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT





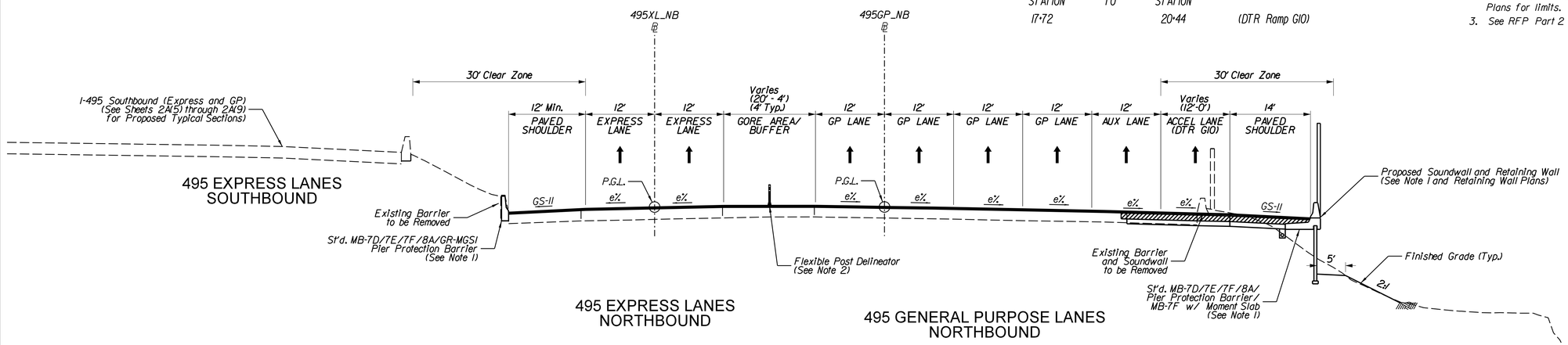
ASPHALT CONCRETE BUILD-UP DETAIL

STATION	TO	STATION	
567+00		576+50	(495 Express Lanes Northbound)
1073+03		1078+22	(495 General Purpose Lanes Northbound)
45+64		50+03	(DTR Ramp E1)
20+44		25+64	(DTR Ramp G10)



STATION	TO	STATION	
17+72		20+44	(DTR Ramp G10)

NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.



STATION	TO	STATION	
576+50		583+00	(495 Express Lanes Northbound)
1078+22		1092+43	(495 General Purpose Lanes Northbound)

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(1)

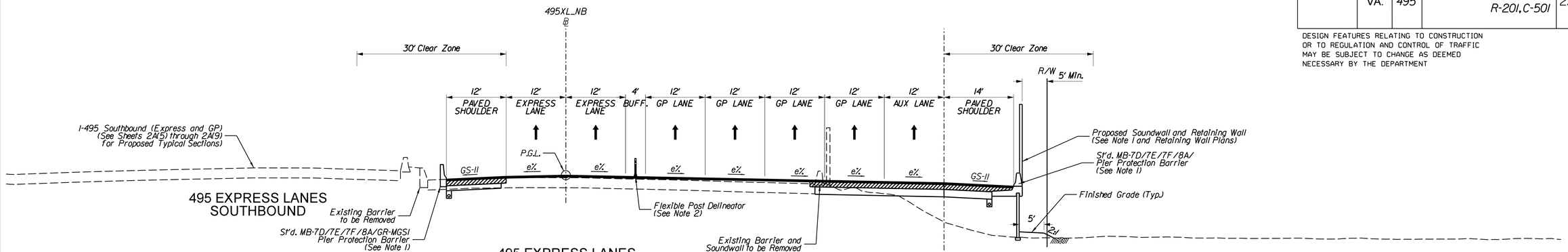
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	2A(2)

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

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

TYPICAL SECTIONS

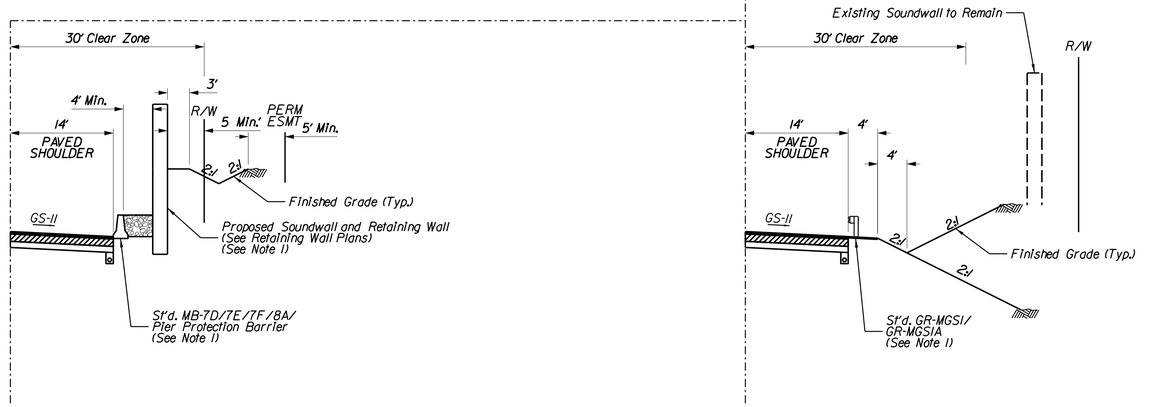


495 EXPRESS LANES SOUTHBOUND

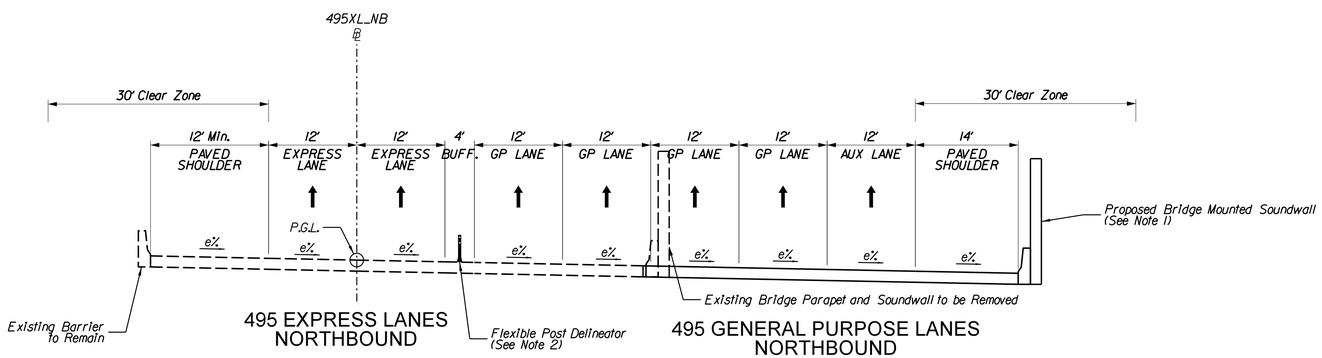
495 EXPRESS LANES NORTHBOUND

495 GENERAL PURPOSE LANES NORTHBOUND

STATION	TO	STATION	
583+00		616+37.38	(495 Express Lanes Northbound)
618+02.38		643+78	(495 Express Lanes Northbound)



NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.



495 EXPRESS LANES NORTHBOUND

495 GENERAL PURPOSE LANES NORTHBOUND

STATION	TO	STATION	
616+37.38		618+02.38	(495 Express Lanes Northbound)

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(2)

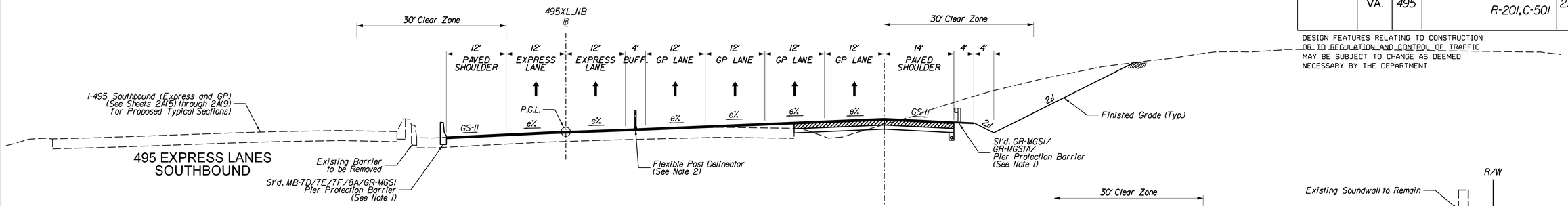
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Boord dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	2A(3)

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

TYPICAL SECTIONS

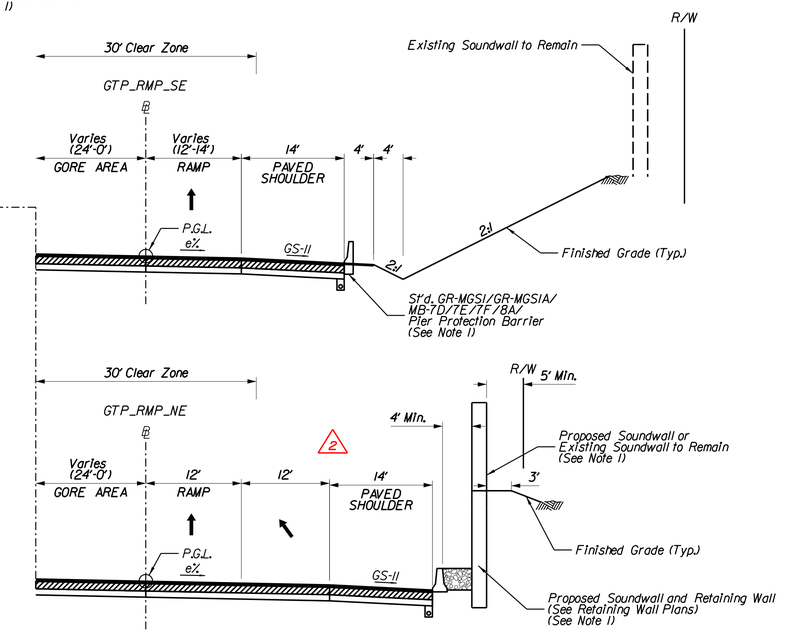


495 EXPRESS LANES NORTHBOUND

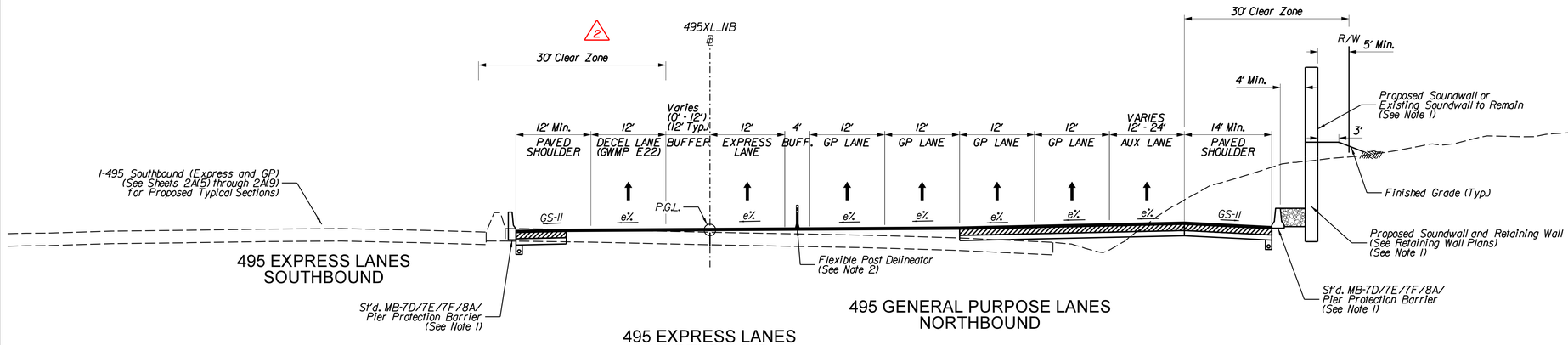
495 GENERAL PURPOSE LANES NORTHBOUND

2	STATION	TO	STATION	
	643+78		666+87	(495 Express Lanes Northbound)
	10+00		13+49	(GTP Ramp SE)
	16+71		21+90	(GTP Ramp NE)

2



NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.



495 EXPRESS LANES NORTHBOUND

2	STATION	TO	STATION	
	666+87		670+98	(495 Express Lanes Northbound)

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Revised Typical Sections	12/18/2020

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(3)

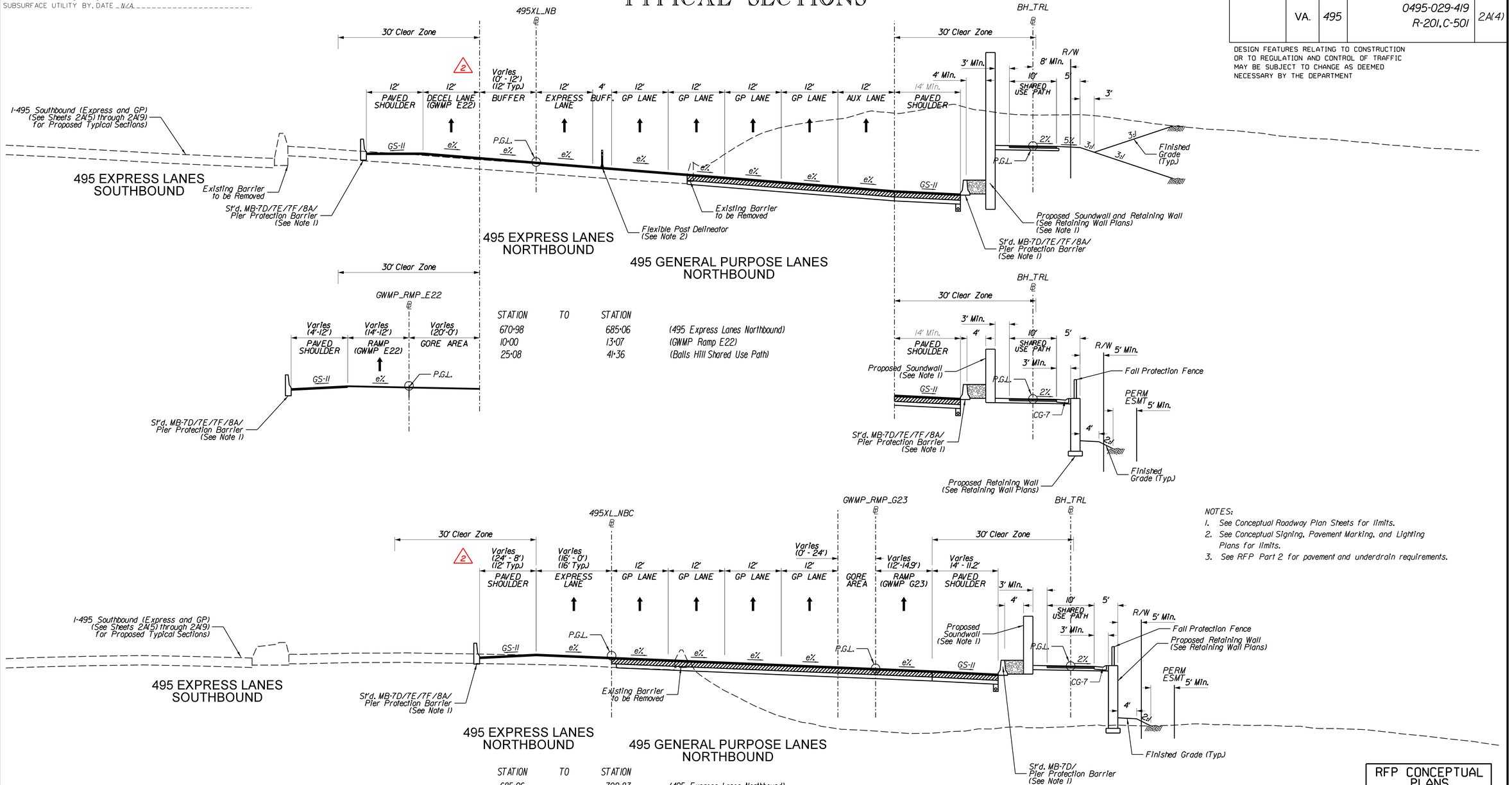
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

TYPICAL SECTIONS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	2A(4)

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



STATION	TO	STATION	
670+98		685+06	(495 Express Lanes Northbound)
10+00		13+07	(GWMP Ramp E22)
25+08		41+36	(Balls Hill Shared Use Path)

STATION	TO	STATION	
685+06		702+83	(495 Express Lanes Northbound)
10+00		15+86	(GWMP Ramp G23)
41+36		49+07	(Balls Hill Shared Use Path)

NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Revised Typical Sections	12/18/2020

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(4)

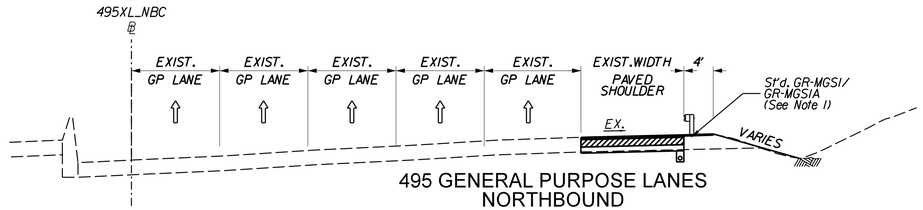
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Boord dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	2A(5)

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

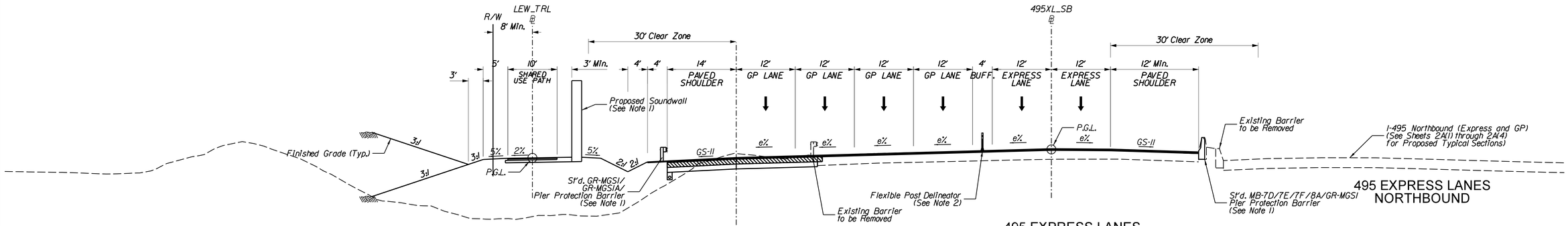
PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

TYPICAL SECTIONS



495 GENERAL PURPOSE LANES NORTHBOUND

STATION	TO	STATION	
707+85		717+25	(495 General Purpose Lanes Shoulder Northbound)

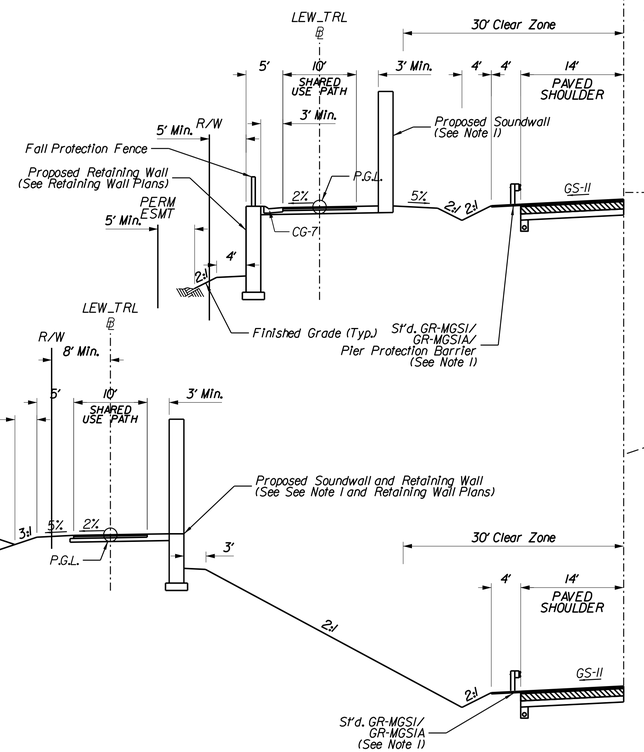


495 EXPRESS LANES NORTHBOUND

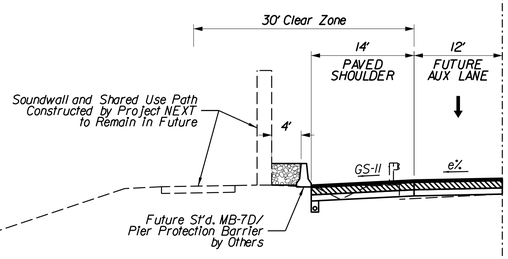
495 EXPRESS LANES SOUTHBOUND

495 GENERAL PURPOSE LANES SOUTHBOUND

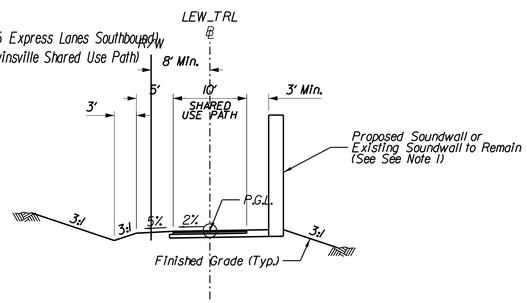
STATION	TO	STATION	
192+50		215+00	(495 Express Lanes Southbound)
26+50		49+00	(Lewinsville Shared Use Path)



NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.



FUTURE SOUTHBOUND AUXILIARY LANE (BY OTHERS) FOR INFORMATION ONLY



STATION	TO	STATION	
10+00		26+50	(Lewinsville Shared Use Path)

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(5)

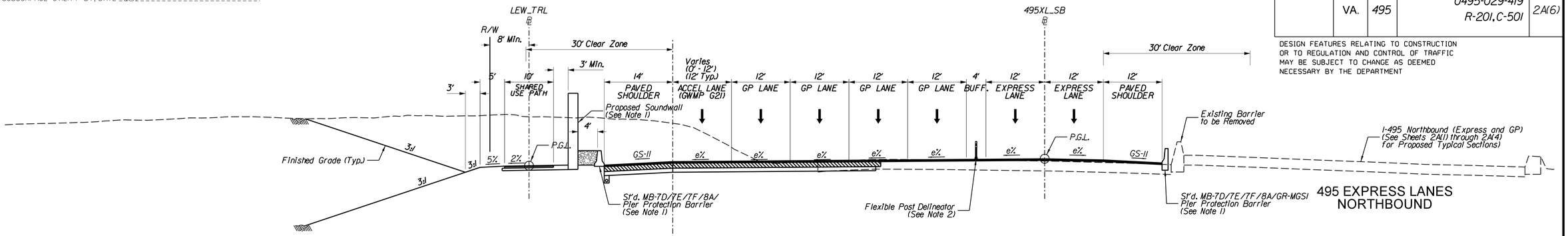
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Boord dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO
	VA.	495	0495-029-419 R-201, C-501	2A(6)

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

TYPICAL SECTIONS

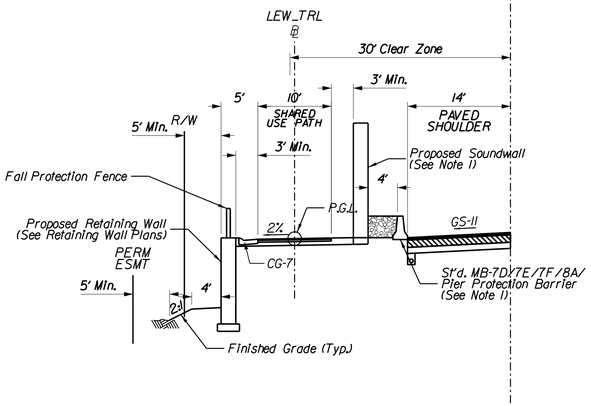


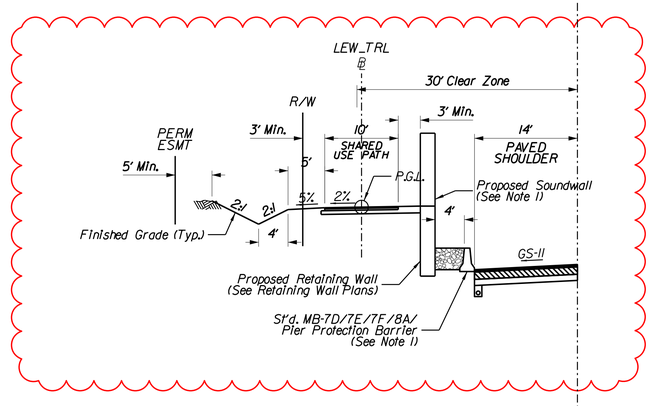
495 EXPRESS LANES NORTHBOUND

495 EXPRESS LANES SOUTHBOUND

STATION	TO	STATION	
215+00		217+45.15	(495 Express Lanes Southbound)
219+08.55		232+20	(495 Express Lanes Southbound)
49+00		52+59.60	(Lewinsville Shared Use Path)
54+25.19		66+63	(Lewinsville Shared Use Path)

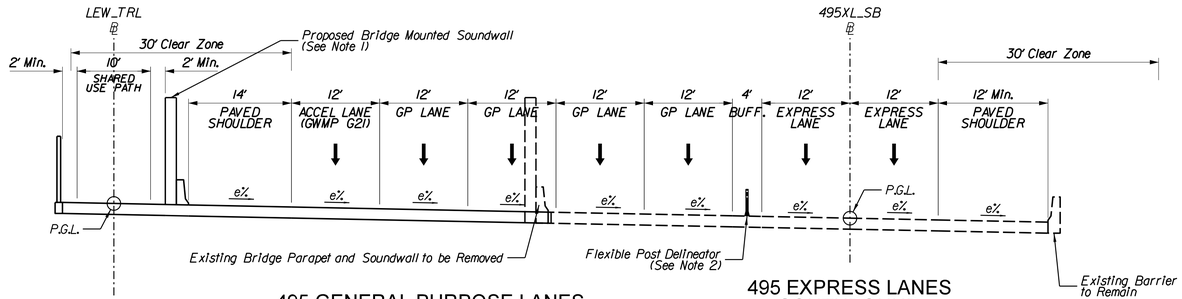
495 GENERAL PURPOSE LANES SOUTHBOUND





4

1



495 GENERAL PURPOSE LANES SOUTHBOUND

495 EXPRESS LANES SOUTHBOUND

STATION	TO	STATION	
217+45.15		219+08.55	(495 Express Lanes Southbound)
52+59.60		54+25.19	(Lewinsville Shared Use Path)

NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
1	Revised Typical Section	11/13/2020
4	Revised Typical Section	04/06/2021

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(6)

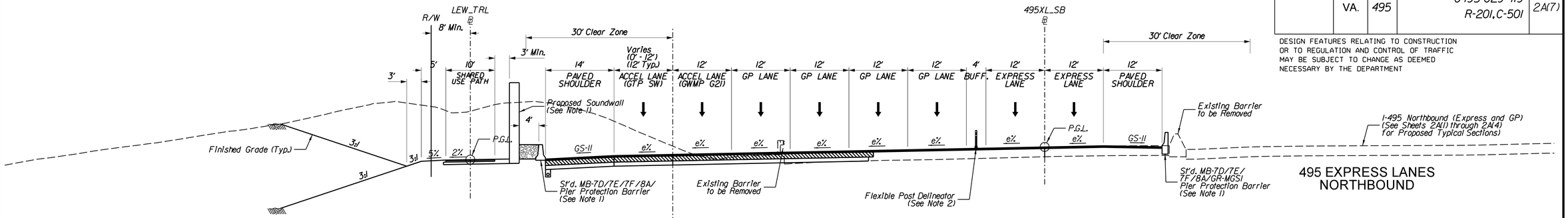
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	2A(7)

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

TYPICAL SECTIONS



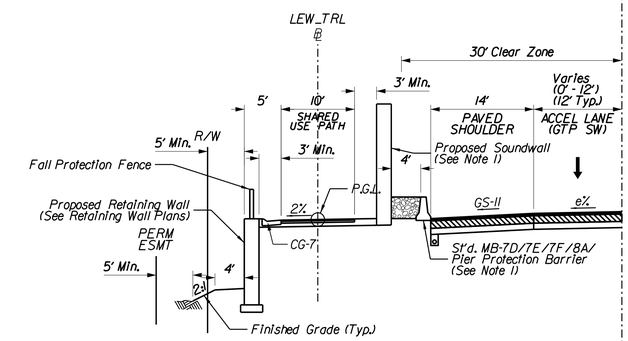
495 EXPRESS LANES NORTHBOUND

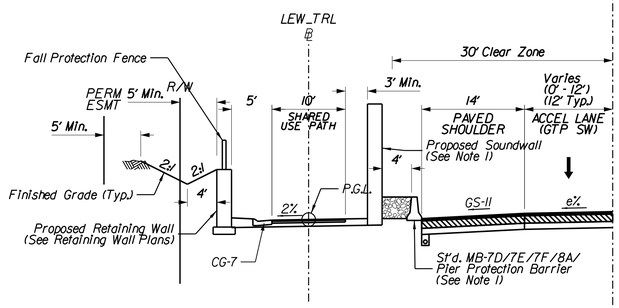
495 EXPRESS LANES SOUTHBOUND

495 GENERAL PURPOSE LANES SOUTHBOUND

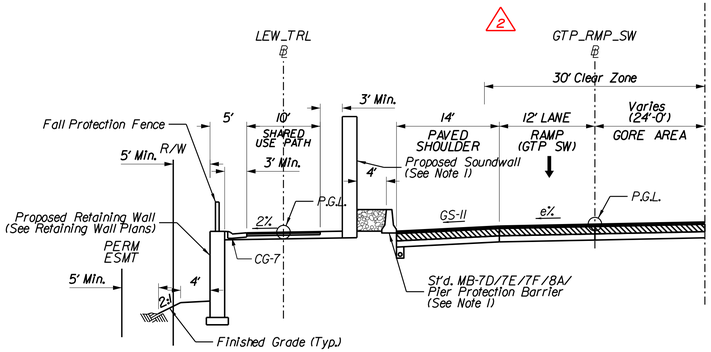
2

STATION	TO	STATION	
232+20		247+56	(495 Express Lanes Southbound)
10+34		13+82	(GTP Ramp SW)
66+63		89+72	(Lewinsville Shared Use Path)

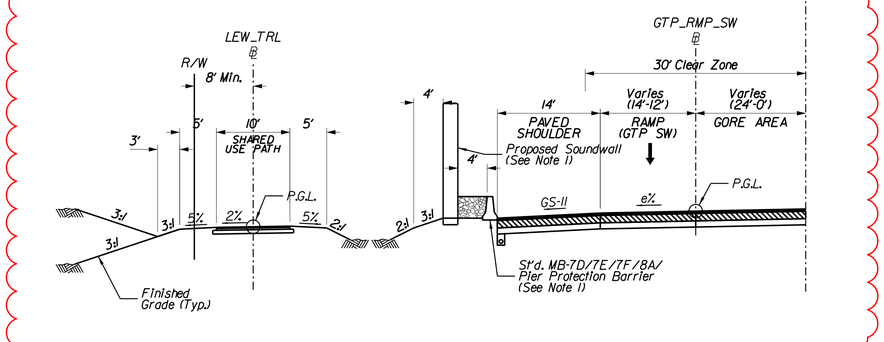




2



4



NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Revised Typical Sections	12/18/2020
4	Revised Typical Sections	04/06/2021

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(7)

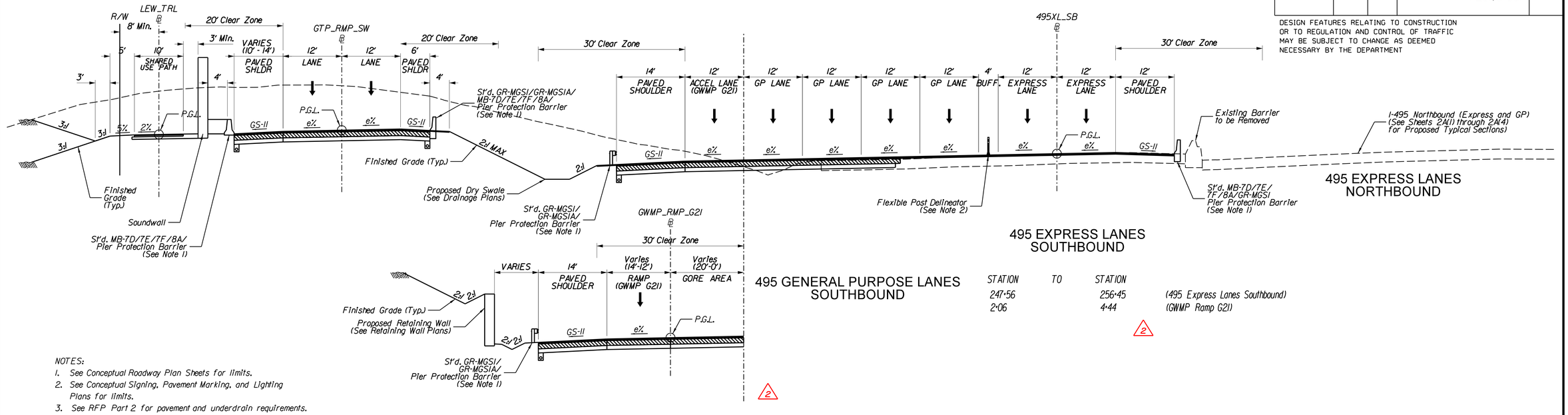
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

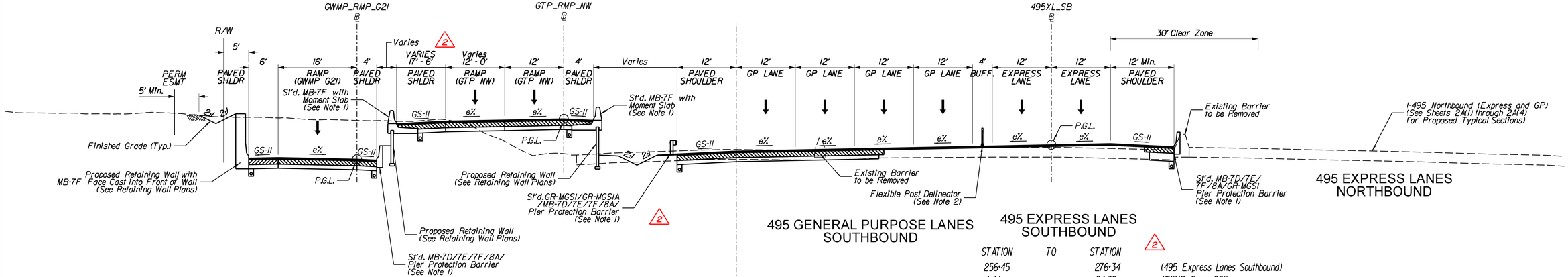
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	2A(8)

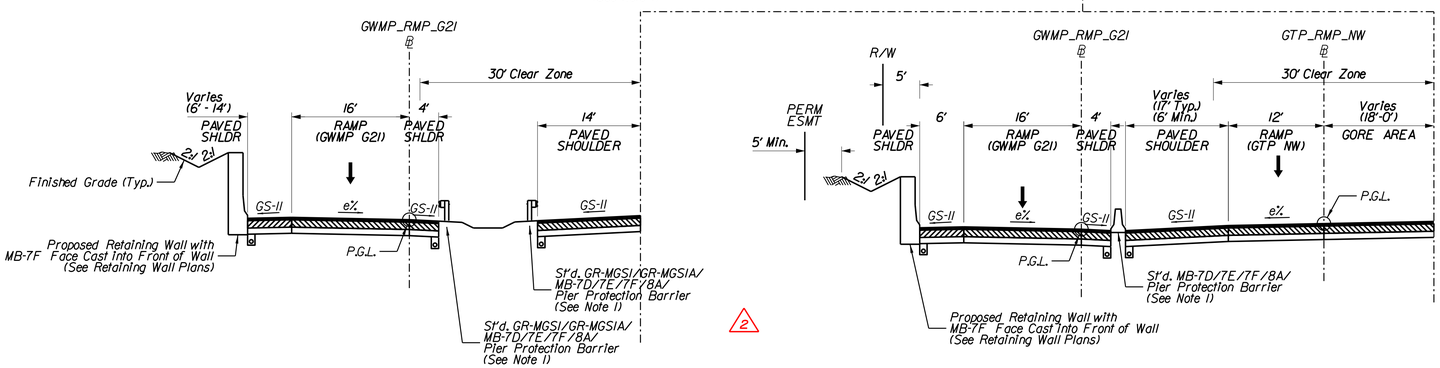
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TYPICAL SECTIONS



NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.





RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Revised Typical Sections	12/18/2020

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(8)

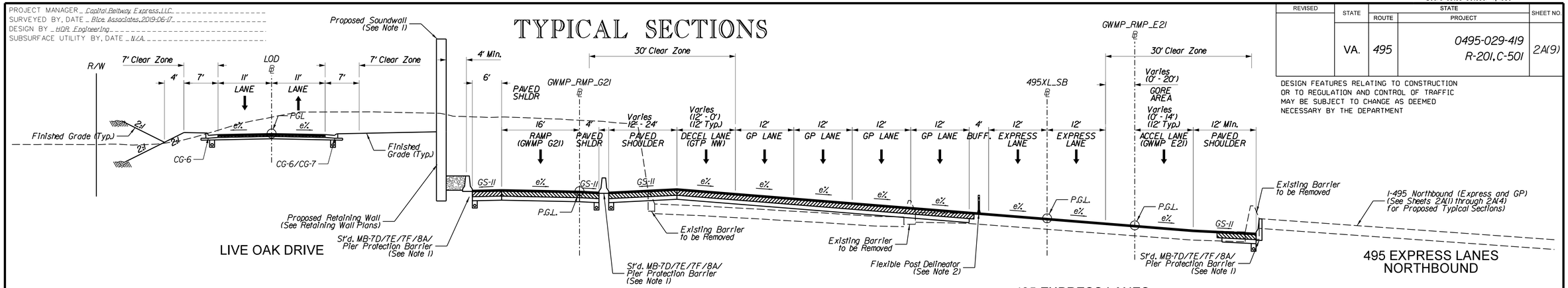
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Boord dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	2A(9)

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

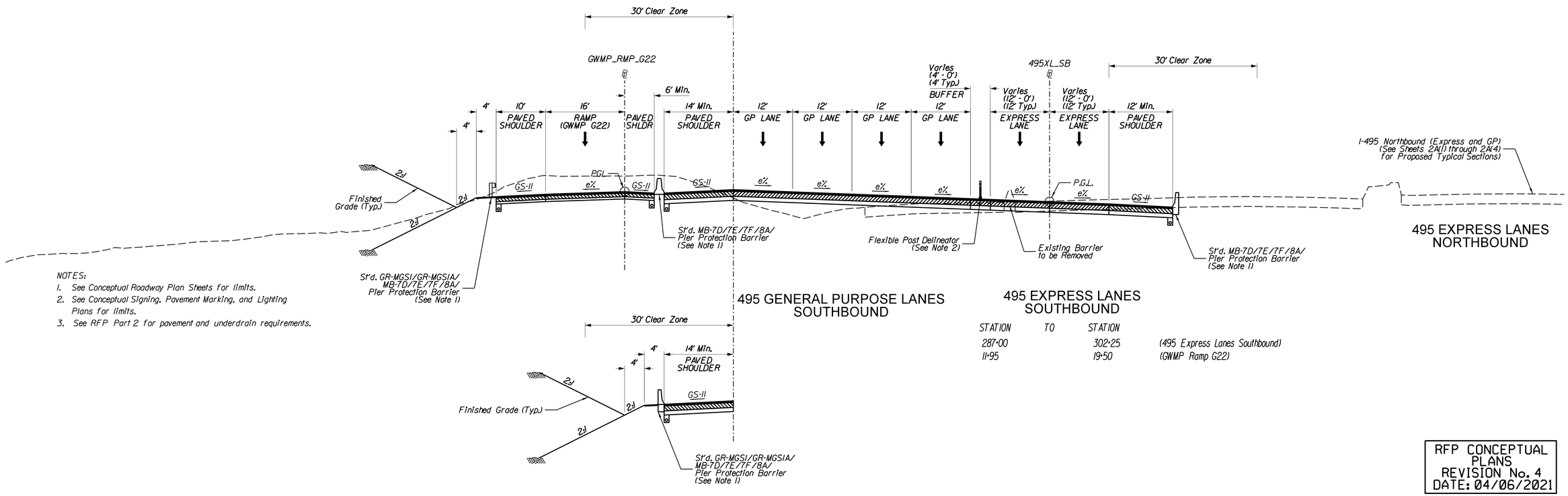
TYPICAL SECTIONS



495 GENERAL PURPOSE LANES SOUTHBOUND

495 EXPRESS LANES SOUTHBOUND

STATION	TO	STATION	
276+34		287+00	(495 Express Lanes Southbound)
11+23		21+00	(Live Oak Drive)
24+70		36+00	(GWMP Ramp G21)
6+22		11+30	(GWMP Ramp E21)



495 GENERAL PURPOSE LANES SOUTHBOUND

495 EXPRESS LANES SOUTHBOUND

STATION	TO	STATION	
287+00		302+25	(495 Express Lanes Southbound)
11+95		19+50	(GWMP Ramp G22)

NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(9)

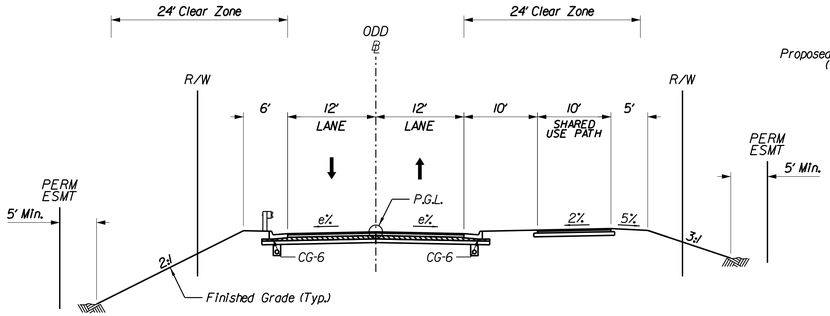
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	2A(10)

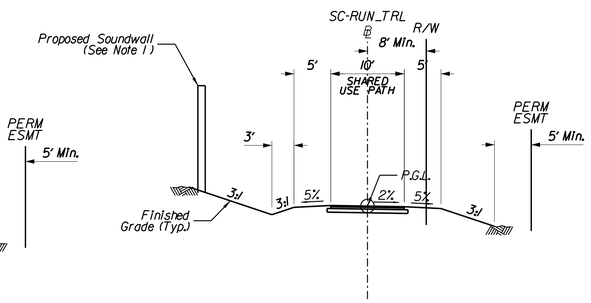
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

TYPICAL SECTIONS

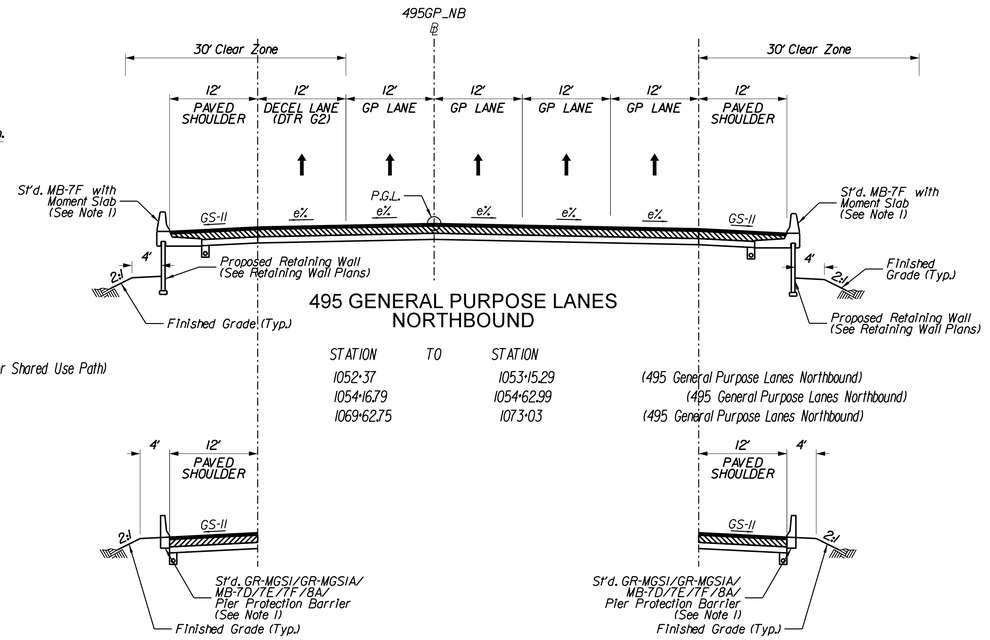


OLD DOMINION DRIVE

STATION	TO	STATION	
12+50		20+52.96	(Old Dominion Drive)
24+93.33		34+75	(Old Dominion Drive)

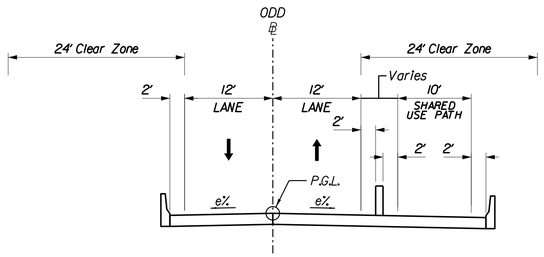


STATION	TO	STATION	
10+00		15+91	(Connector Shared Use Path)



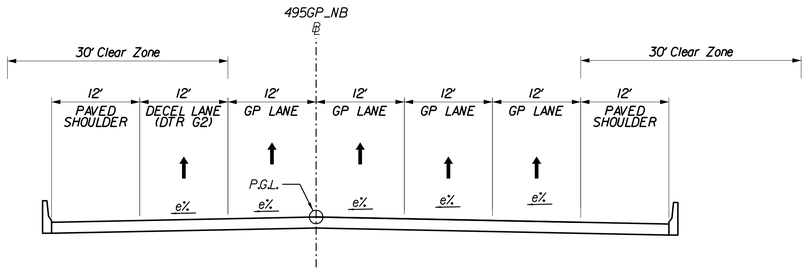
495 GENERAL PURPOSE LANES NORTHBOUND

STATION	TO	STATION	
1052+37		1053+15.29	(495 General Purpose Lanes Northbound)
1054+16.79		1054+62.99	(495 General Purpose Lanes Northbound)
1069+62.75		1073+03	(495 General Purpose Lanes Northbound)



OLD DOMINION DRIVE

STATION	TO	STATION	
20+52.96		24+93.33	(Old Dominion Drive)



495 GENERAL PURPOSE LANES NORTHBOUND

STATION	TO	STATION	
1053+15.29		1054+16.79	(495 General Purpose Lanes Northbound)

NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(10)

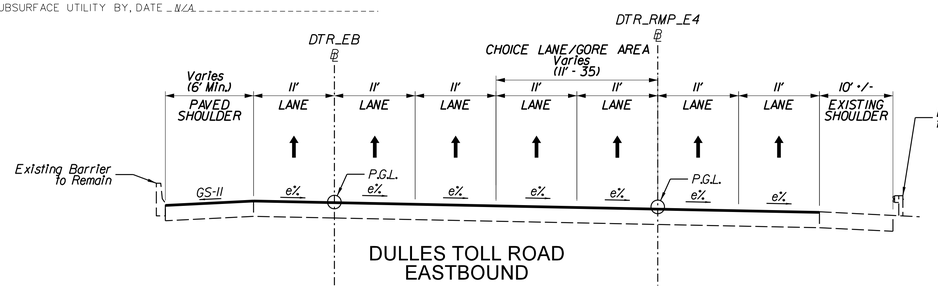
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Boord dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	2A(II)

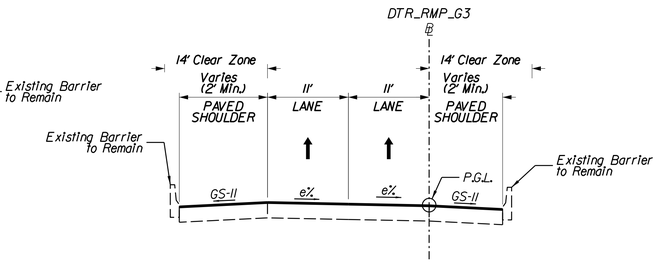
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

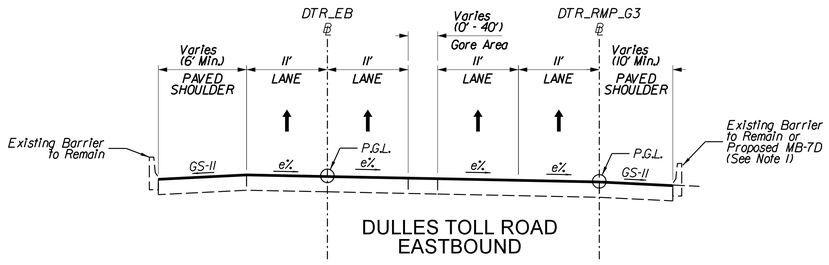
TYPICAL SECTIONS



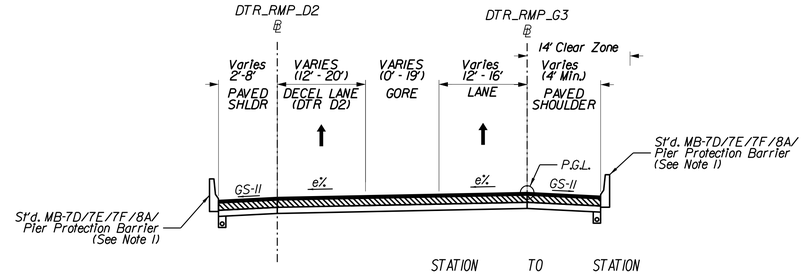
STATION	TO	STATION	
11+48		17+05	(Dulles Toll Road Eastbound)
10+00		16+75	(DTR Ramp E4)



STATION	TO	STATION	
22+35		25+31	(DTR Ramp G3)

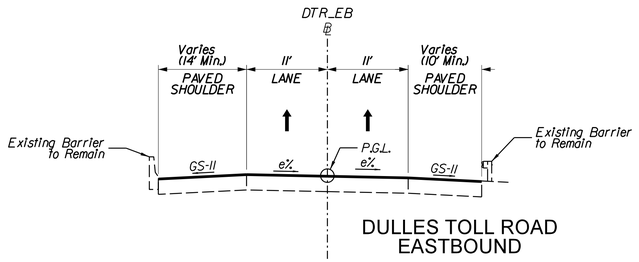


STATION	TO	STATION	
20+60		29+58	(Dulles Toll Road Eastbound)
17+75		22+00	(DTR Ramp G3)

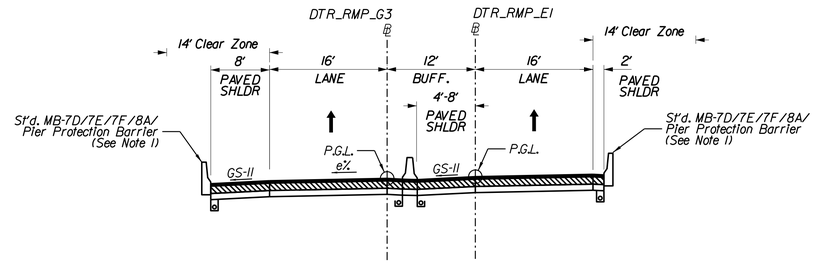


STATION	TO	STATION	
31+32		38+83	(DTR Ramp G3)

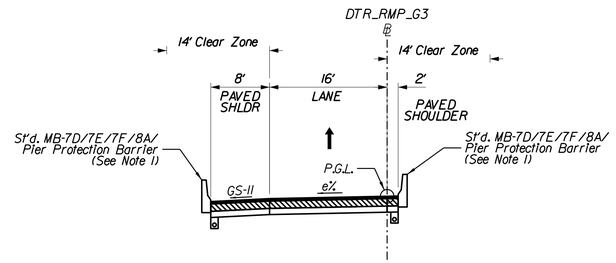
NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.



STATION	TO	STATION	
29+58		36+50	(Dulles Toll Road Eastbound)



STATION	TO	STATION	
38+83		43+92	(DTR Ramp G3)
19+29		28+18	(DTR Ramp E1)



STATION	TO	STATION	
43+92		46+66	(DTR Ramp G3)

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(II)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

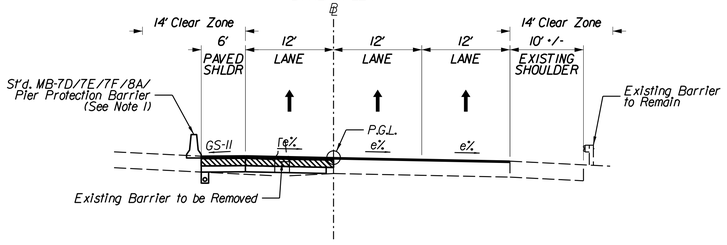
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	2A(12)

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

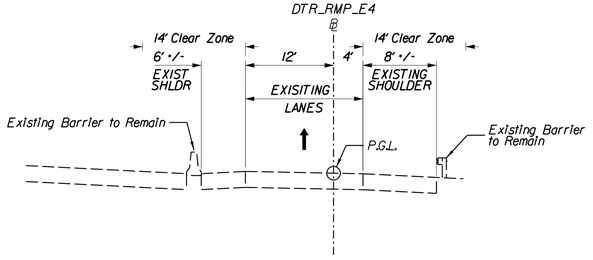
TYPICAL SECTIONS

DTR_RMP_E4



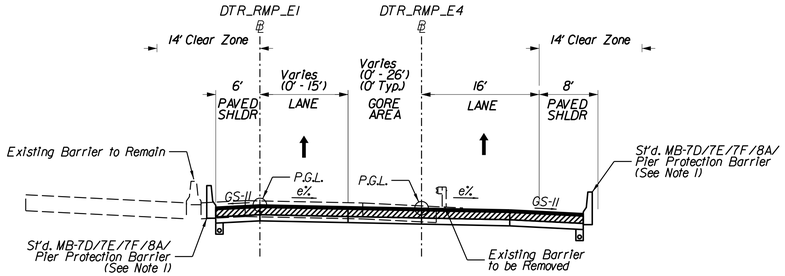
STATION	TO	STATION	
16+75		20+63	(DTR Ramp E4)

DTR_RMP_E4



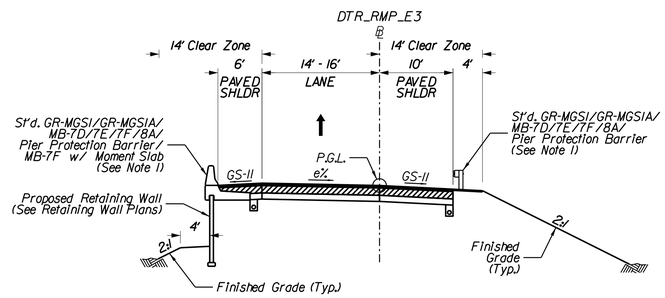
STATION	TO	STATION	
20+63		34+75	(DTR Ramp E4)

DTR_RMP_E4 / DTR_RMP_E1



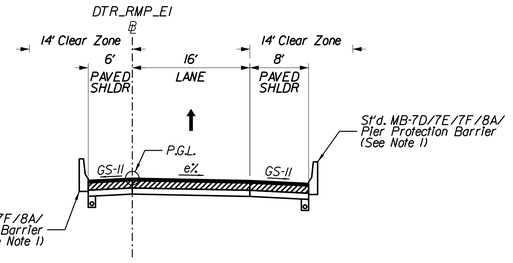
STATION	TO	STATION	
34+75		38+23	(DTR Ramp E4)
15+79		19+29	(DTR Ramp E1)

DTR_RMP_E3



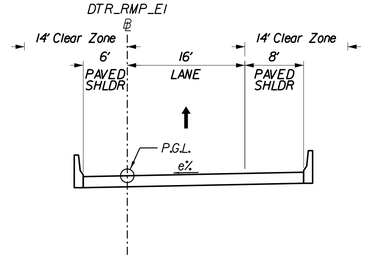
STATION	TO	STATION	
12+68		24+21	(DTR Ramp E3)

DTR_RMP_E1



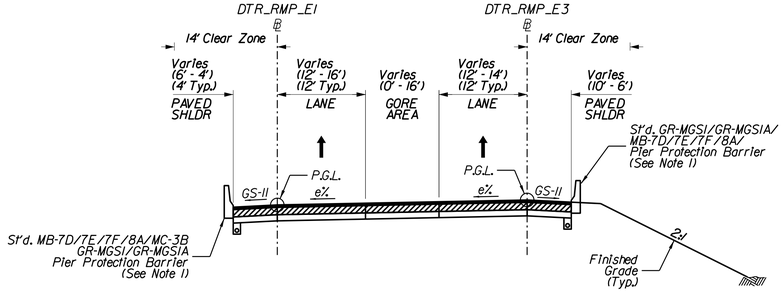
STATION	TO	STATION	
29+62		30+29.48	(DTR Ramp E1)

DTR_RMP_E1



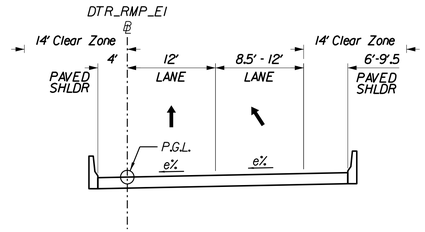
STATION	TO	STATION	
30+29.48		33+90.62	(DTR Ramp E1)

DTR_RMP_E1 / DTR_RMP_E3



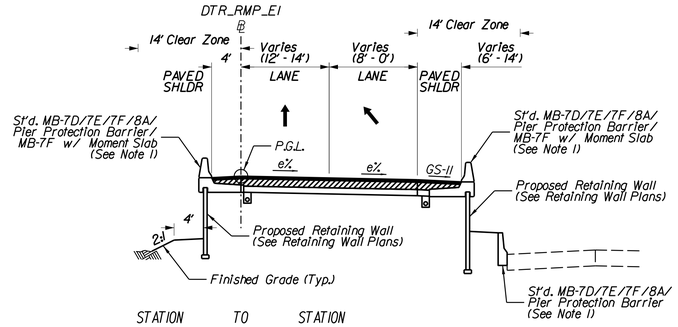
STATION	TO	STATION	
33+90.62		36+74.56	(DTR Ramp E1)
24+21		25+78.42	(DTR Ramp E3)

DTR_RMP_E1



STATION	TO	STATION	
36+74.56		41+26.17	(DTR Ramp E1)

DTR_RMP_E1



STATION	TO	STATION	
41+26.17		45+64	(DTR Ramp E1)

NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(12)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

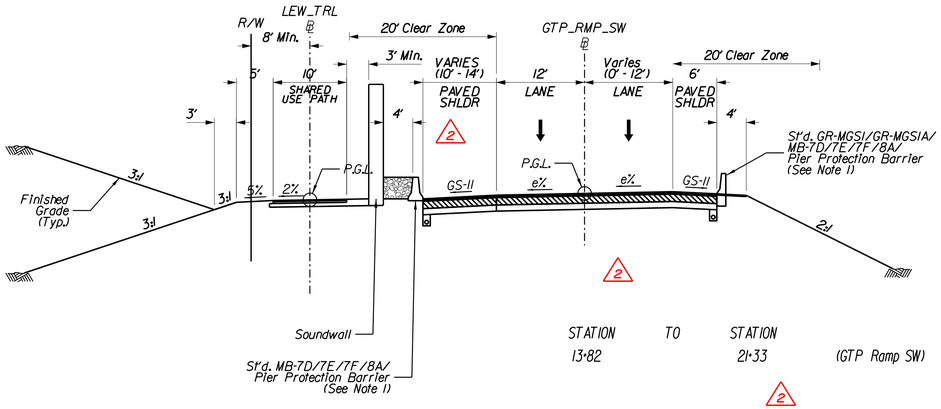
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	2A(13)

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

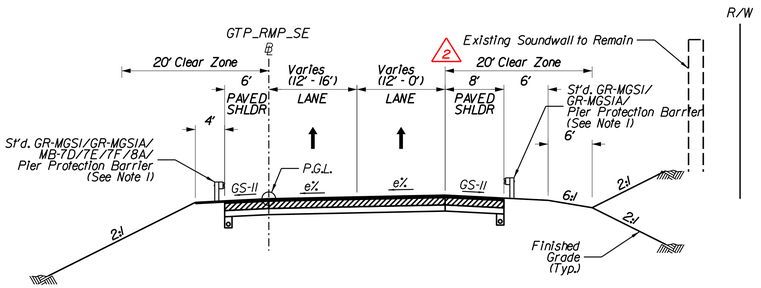
TYPICAL SECTIONS

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

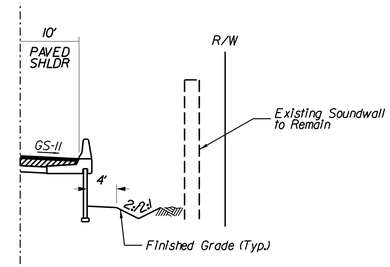
NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.

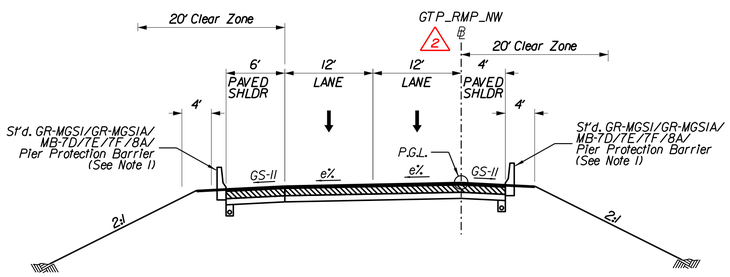


STATION 13+82 TO STATION 21+33 (GTP Ramp SW)

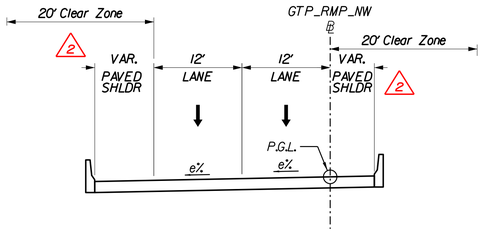


STATION 13+49 TO STATION 21+42 (GTP Ramp SE)

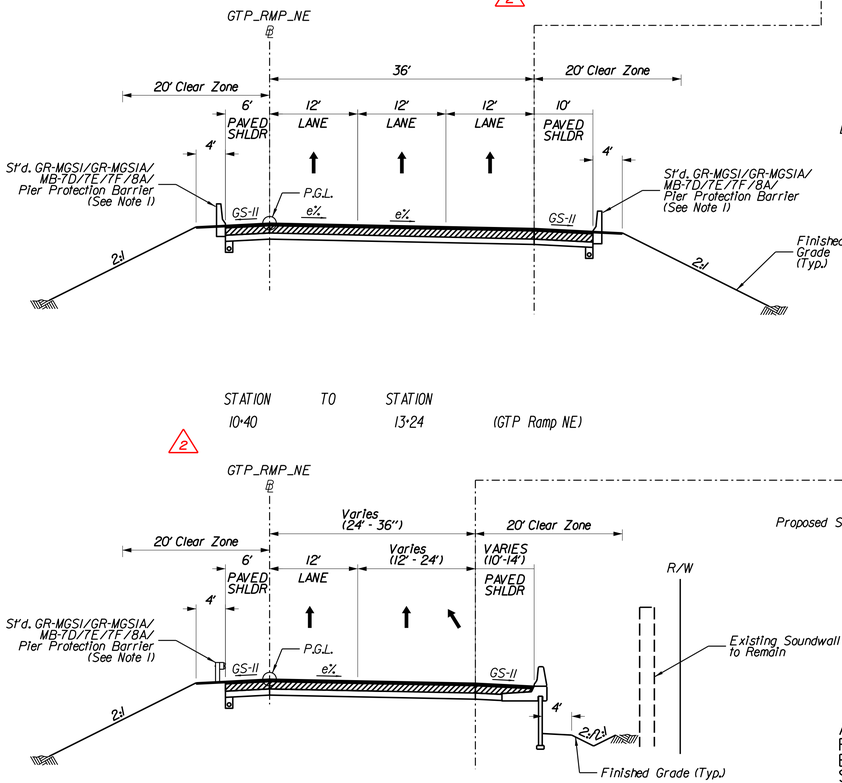




STATION 5+00 TO STATION 7+55.96 (GTP Ramp NW)

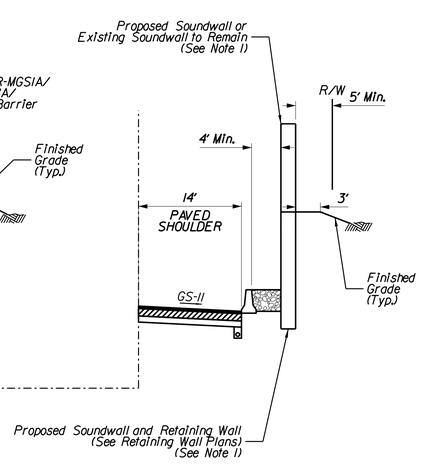


STATION 7+55.96 TO STATION 9+00.56 (GTP Ramp NW)



STATION 10+40 TO STATION 13+24 (GTP Ramp NE)

STATION 13+24 TO STATION 16+71 (GTP Ramp NE)



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Revised Typical Sections	12/18/2020

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(13)

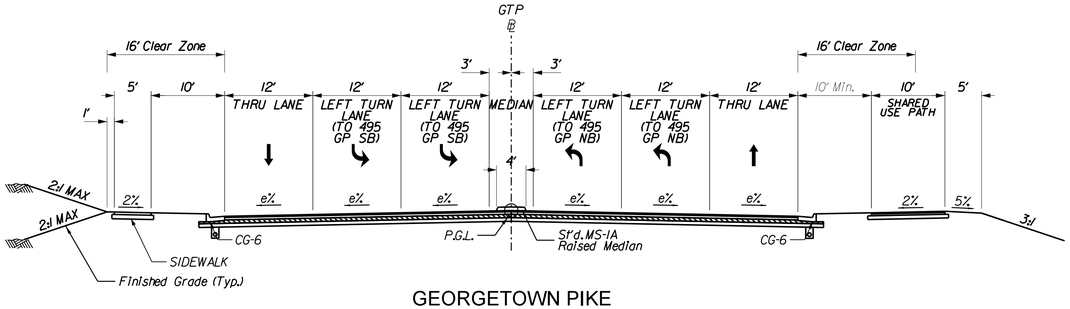
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Boord dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	2A(14)

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

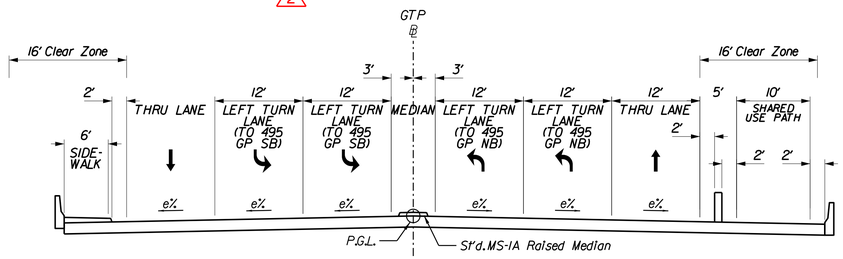
TYPICAL SECTIONS



GEORGETOWN PIKE

STATION	TO	STATION	
11+80		19+77.97	(Georgetown Pike)
22+67.31		31+27	(Georgetown Pike)

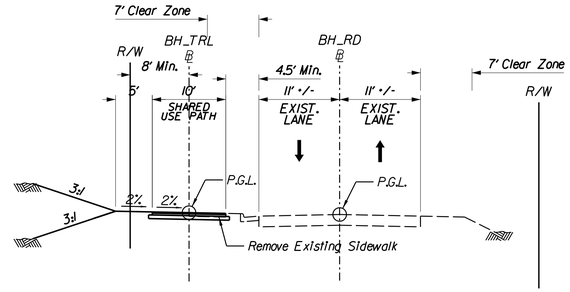
2



GEORGETOWN PIKE

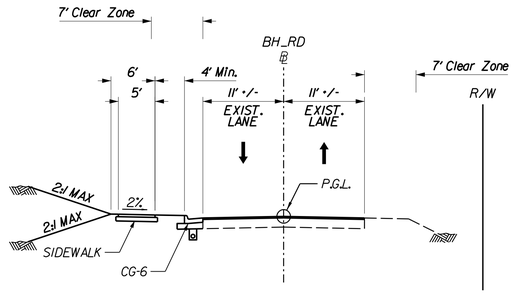
STATION	TO	STATION	
19+77.97		22+67.31	(Georgetown Pike)

2



BALLS HILL ROAD

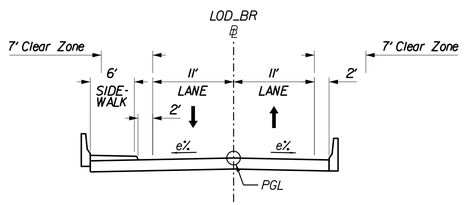
STATION	TO	STATION	
18+90		33+70	(Balls Hill Road)
10+35		25+08	(Balls Hill Shared Use Path)



BALLS HILL ROAD

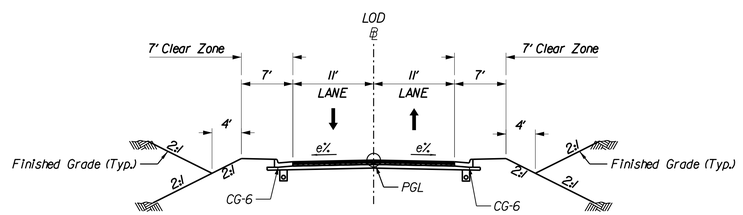
STATION	TO	STATION	
33+70		40+53	(Balls Hill Road)

NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.



LIVE OAK DRIVE

STATION	TO	STATION	
10+81.10		14+31.43	(Live Oak Drive)



LIVE OAK DRIVE

STATION	TO	STATION	
21+00		23+67	(Live Oak Drive)

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Revised Typical Section limits	12/18/2020

N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(14)

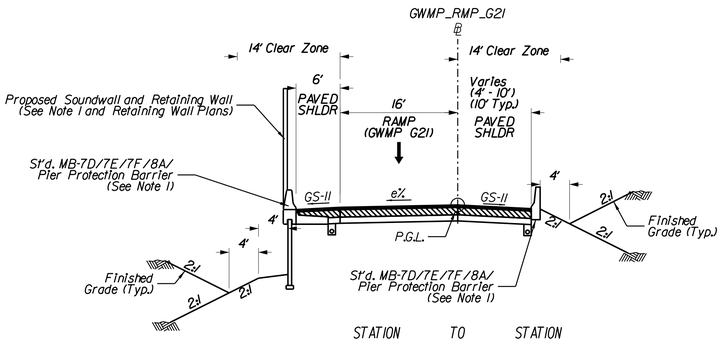
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	2A(15)

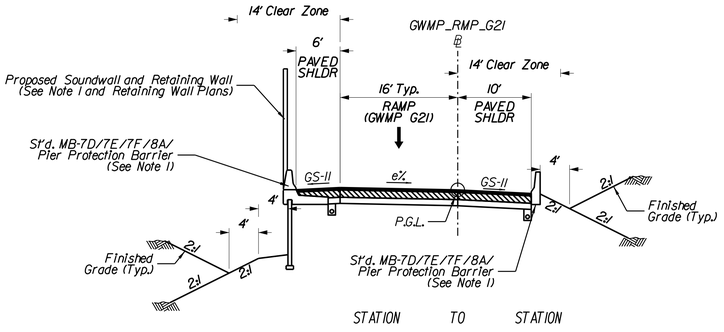
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

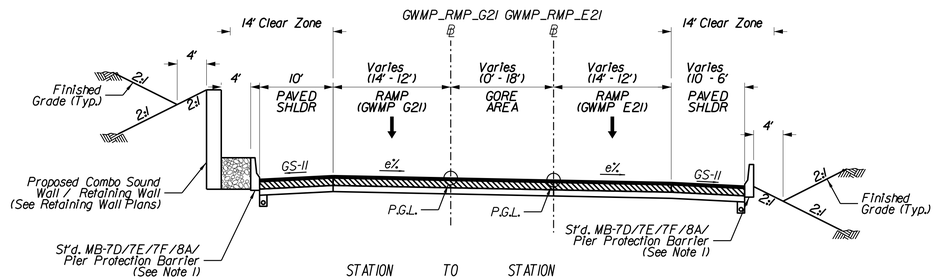
TYPICAL SECTIONS



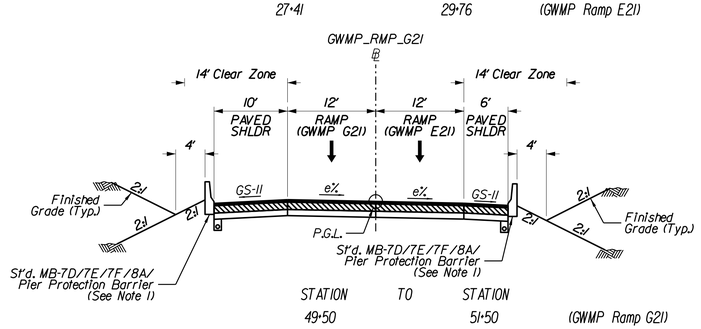
STATION	TO	STATION	
36+00		40+50	(GWMP Ramp G21)



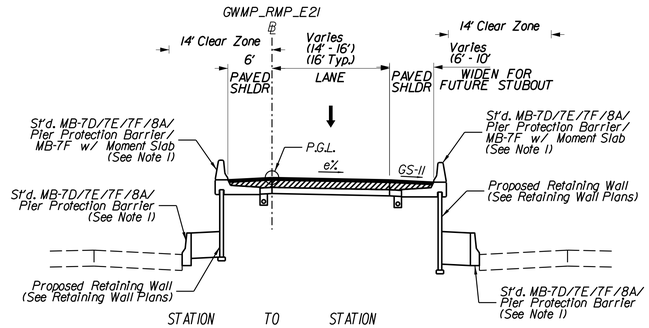
STATION	TO	STATION	
40+50		47+10	(GWMP Ramp G21)



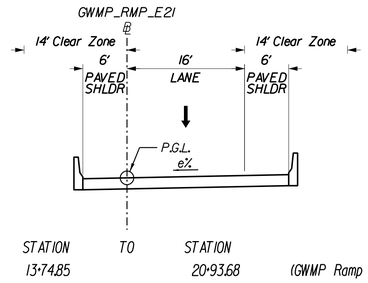
STATION	TO	STATION	
47+10		49+50	(GWMP Ramp G21)
27+41		29+76	(GWMP Ramp E21)



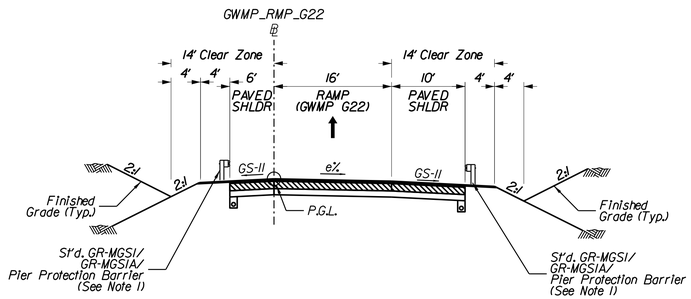
STATION	TO	STATION	
49+50		51+50	(GWMP Ramp G21)



STATION	TO	STATION	
11+30		13+74.85	(GWMP Ramp E21)
20+93.68		27+41	(GWMP Ramp E21)



STATION	TO	STATION	
13+74.85		20+93.68	(GWMP Ramp E21)



STATION	TO	STATION	
19+50		24+00	(GWMP Ramp G22)

NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

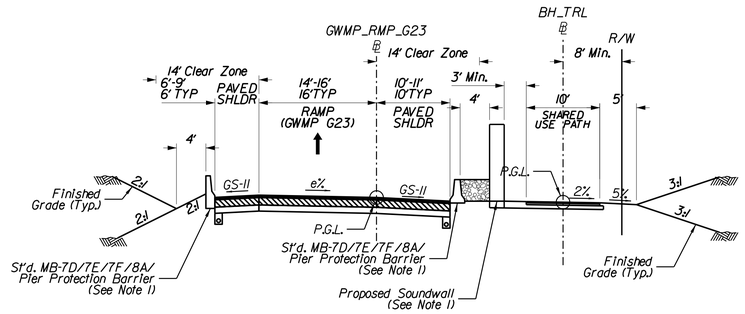
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	2A(16)

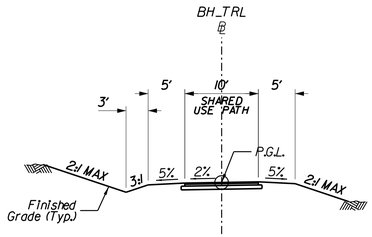
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

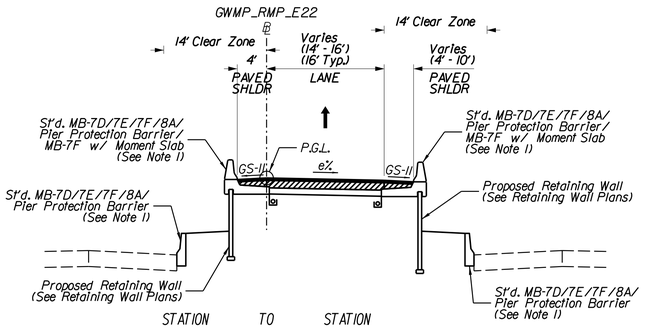
TYPICAL SECTIONS



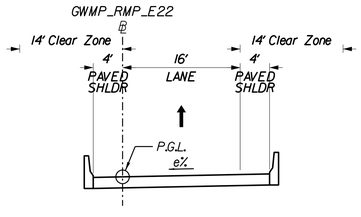
STATION	TO	STATION	
15+86		23+55	(GWMP Ramp G23)
49+07		50+31	(Balls Hill Shared Use Path)



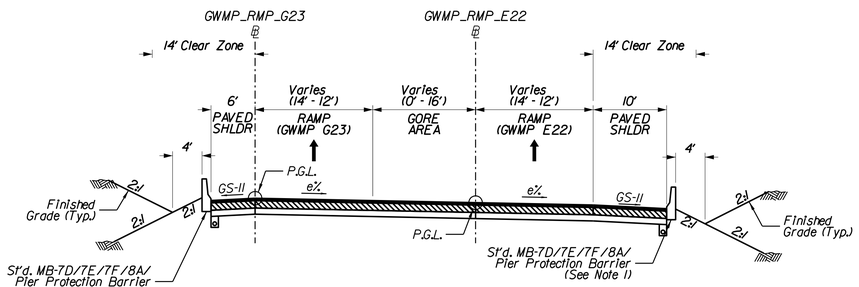
STATION	TO	STATION	
9+73.44		10+35	(Balls Hill Shared Use Path)
50+31		54+77	(Balls Hill Shared Use Path)



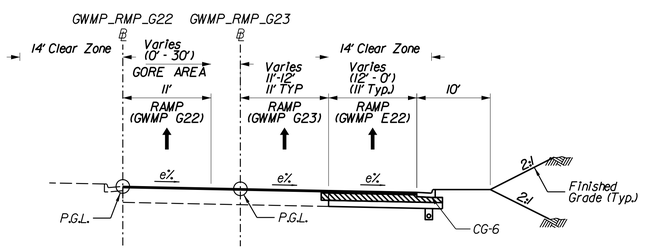
STATION	TO	STATION	
13+07		18+55.27	(GWMP Ramp E22)
25+97.11		30+94	(GWMP Ramp E22)



STATION	TO	STATION	
18+55.27		25+97.11	(GWMP Ramp E22)



STATION	TO	STATION	
30+94		33+58	(GWMP Ramp E22)
23+55		26+21	(GWMP Ramp G23)



STATION	TO	STATION	
26+21		29+88	(Ramp G23)
42+00		55+00	(GWMP Ramp G22)

NOTES:
1. See Conceptual Roadway Plan Sheets for limits.
2. See Conceptual Signing, Pavement Marking, and Lighting Plans for limits.
3. See RFP Part 2 for pavement and underdrain requirements.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

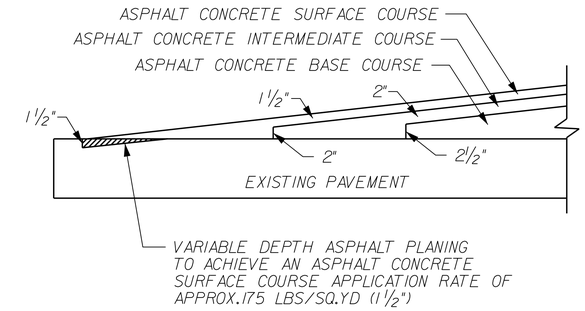
N.T.S.	PROJECT 0495-029-419	SHEET NO. 2A(16)

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

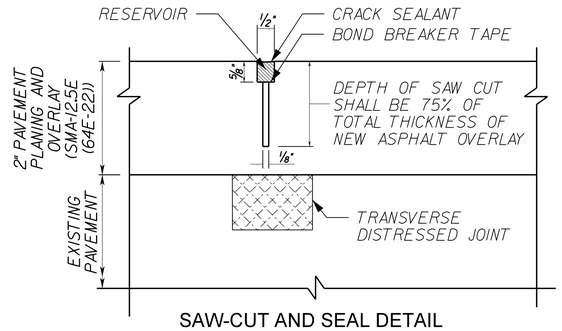
PAVEMENT JOINT REPAIR DETAILS AND LOCATIONS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	2C(1)

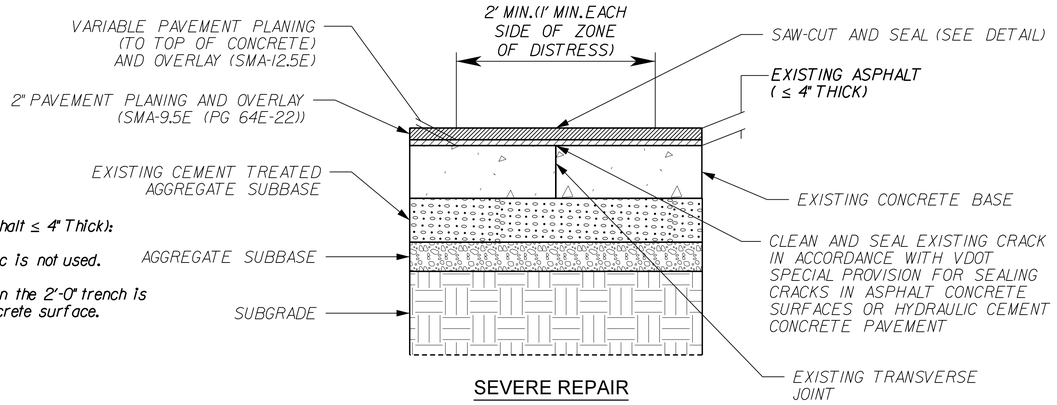
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



ASPHALT CONCRETE BUILD-UP DETAIL



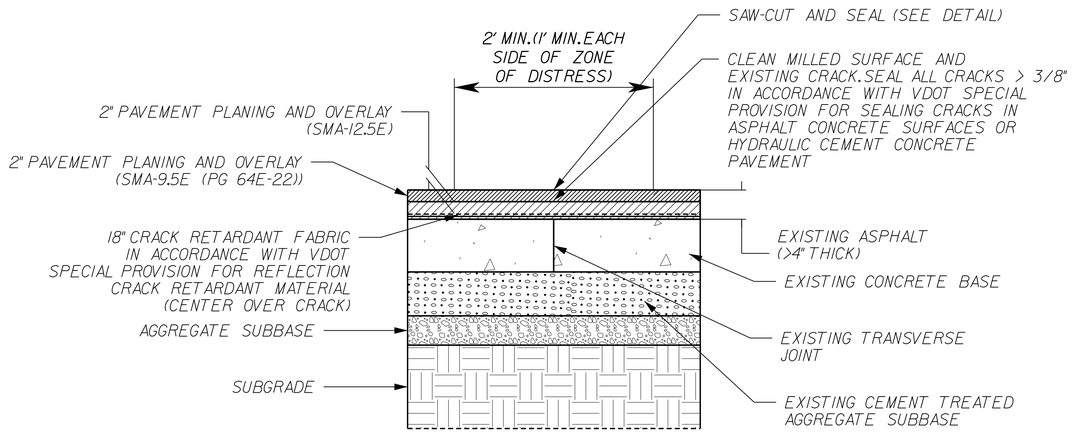
SAW-CUT AND SEAL DETAIL



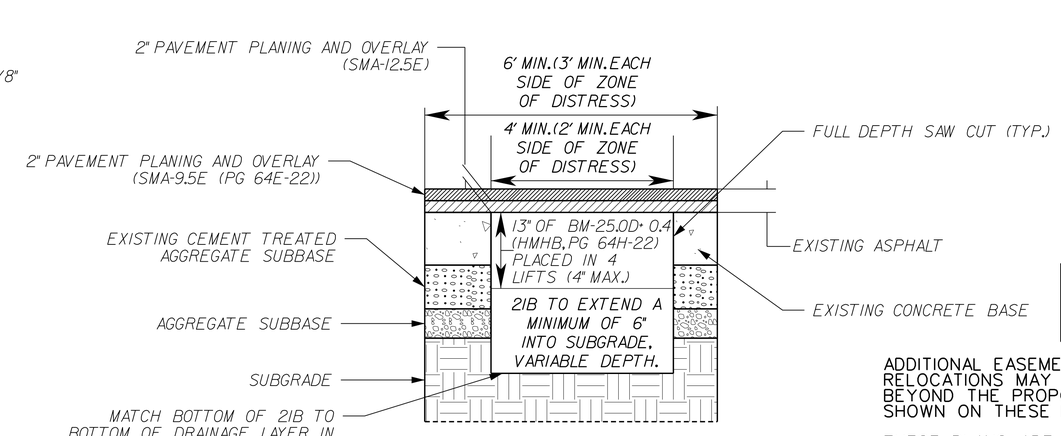
Notes (Type 3, Existing Asphalt ≤ 4" Thick):

1. Crack retardant fabric is not used.
2. Existing asphalt within the 2'-0" trench is removed down to concrete surface.

SEVERE REPAIR
(TYPE 3)
FOR USE WHERE EXISTING ASPHALT IS ≤ 4".



SEVERE REPAIR
(TYPE 3)
FOR USE WHERE EXISTING ASPHALT IS > 4" THICK



WIDE FULL-DEPTH REPAIR
(TYPE 4)

Notes:

1. Where the existing composite pavement is to be reused and resurfaced, repairs to transverse joints and the sawcutting and sealing of transverse joints shall be performed in accordance with Section 3.8.4 of the Technical Requirements and the repair details shown on this Sheet.
2. Two types of joint repairs are shown:
   a. Type 3 Repairs - Type 3 repair locations are typically characterized by a primary reflective crack over a joint surrounded by greater than 1/2 inch of additional cracking.
   b. Type 4 Repairs - Type 4 repair locations are typically characterized by one of the following: a previous utility crossing; previous repair work over an existing joint; open or degraded expansion joints; evidence of failed concrete slabs; or as mutually-agreed upon by the Design-Builder and the Concessionaire.
3. After final resurfacing, all transverse joints, including those requiring Type 3 repairs, shall be saw cut and sealed in accordance with the VDOT Special Provision "Sawing and Sealing Joints in Asphalt Overlays Over Jointed Concrete Pavements," dated February 27, 2019 and as shown on this Sheet.
4. I-495 SB General Purpose Lanes: A field evaluation of the existing composite pavement joints in the I-495 southbound General Purpose lanes between approximately 0.45 miles south of the overpass at Old Dominion Drive (approximate Station 191+25) and the south abutment to the American Legion Bridge was conducted by the Concessionaire and the results are provided in the Geotechnical and Pavement Data Report (TR Attachment 3.4a), Appendix C. The approximate joint location, distress width, distress length, and anticipated repair type are shown in tabular form on the Sheet 2C series. The joint locations and joint repair types shall be confirmed by the Design-Builder and approved by the Concessionaire prior to completing the repair work.
5. I-495 NB General Purpose Lanes, North of Old Dominion Drive: VDOT previously surveyed and repaired joints in the existing composite pavements in the I-495 northbound General Purpose lanes between the overpass at Old Dominion Drive (approximate Station 614+00 as shown on the RFP Conceptual Plans) and the south abutment to the American Legion Bridge. The Design-Builder shall evaluate the existing pavement conditions to determine if additional Type 3 or Type 4 repairs are required. Any additional joint repair locations and joint repair types shall be approved by the Concessionaire prior to completing the repair work.
6. I-495 NB General Purpose Lanes, South of Old Dominion Drive: No previous joint surveys or repairs have been conducted on the I-495 northbound General Purpose lanes between the southern project limits and the Old Dominion Drive overpass bridge (approximate Station 614+00 as shown on the RFP Conceptual Plans). The joint locations and joint repair types for this area of the project shall be determined by the Design-Builder and approved by the Concessionaire prior to completing any identified repair work.
7. The Design-Builder shall notify the Concessionaire and the VDOT Northern Virginia District Materials Engineer (DME) at least 48 hours in advance of each joint repair, so that the Concessionaire and DME can verify the correct repair locations on the pavement.
8. The locations of all transverse joints requiring sawcutting and sealing, Type 3 Repairs, and Type 4 Repairs in the southbound and northbound lanes shall be determined or confirmed by the Design-Builder in the field prior to final resurfacing of all existing pavements. The Design-Builder shall confirm and/or identify the type, width, length, and if needed, depth of the repair, and with mutual agreement and direction from the Concessionaire's on-site authorized representative, complete the repair. All applicable Type 3 and 4 repairs shall be made prior to final milling and overlay/build-up.
9. Pavement subbase layers (cement treated aggregate and aggregate subbase) beneath the concrete slabs are shown for graphical purposes only. The thickness of individual layers are not drawn to scale, and the presence of layers and/or actual layer thickness (including the asphalt and concrete) may differ from what is depicted.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	2C(1)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

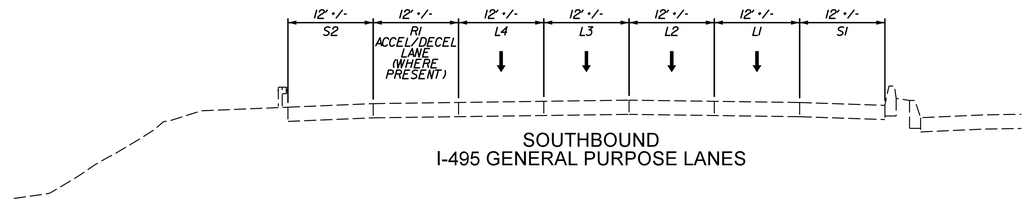
PAVEMENT JOINT REPAIR DETAILS AND LOCATIONS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	2C(2)

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

JOINT NUMBER	APPROX. STATION (495XL_SB)	LANES	JOINT/CRACK LENGTH (LF)	CRACK WIDTH (IN)	REPAIR TYPE
45	302+05	LI	12.0'	0.50	Sawcut and Seal
46	301+96	L3,L4	22.0'	0.40	Sawcut and Seal
47	301+94	L2	12.0'	0.35	Sawcut and Seal
48	301+53	LI	12.0'	0.50	Sawcut and Seal
49	301+47	SI	10.0'	0.35	Sawcut and Seal
50	301+44	L4	12.0'	3.00	Type 3 Repair
51	301+14	SI,LI	22.0'	0.25	Sawcut and Seal
52	300+93	L4	12.0'	4.00	Type 3 Repair
53	300+49	SI,LI	11.0'	0.50	Sawcut and Seal
54	300+44	LI,L2	24.0'	10.00	Type 3 Repair
55	300+42	L3	12.0'	0.50	Sawcut and Seal
56	300+42	L4	12.0'	3.00	Type 3 Repair
57	300+30	S2	9.0'	0.50	Sawcut and Seal
58	299+90	L3,L4	24.0'	0.50	Sawcut and Seal
59	299+53	SI,LI,L2	34.0'	0.50	Sawcut and Seal
60	298+90	L3	12.0'	0.40	Sawcut and Seal
61	298+90	L4	12.0'	11.00	Type 3 Repair
62	298+88	LI,L2	24.0'	0.50	Sawcut and Seal
63	298+68	LI	12.0'	0.50	Sawcut and Seal
64	298+40	SI	12.0'	0.25	Sawcut and Seal
65	298+39	L3,L4	24.0'	0.50	Sawcut and Seal
66	298+15	LI	12.0'	0.35	Sawcut and Seal
67	297+90	L3,L4,S2	26.0'	15.00	Type 3 Repair
68	297+41	SI,LI,L2	35.0'	0.50	Sawcut and Seal
69	297+39	L3,L4	24.0'	8.00	Type 3 Repair
70	297+29	SI	5.0'	0.35	Sawcut and Seal
71	297+10	LI	12.0'	0.25	Sawcut and Seal
72	296+91	L4	12.0'	7.00	Type 3 Repair
73	296+81	LI	12.0'	0.50	Sawcut and Seal
74	296+59	SI,LI	25.0'	0.50	Sawcut and Seal
75	296+45	LI	12.0'	0.25	Sawcut and Seal
76	296+41	L2	12.0'	0.35	Sawcut and Seal
77	296+22	LI	9.0'	0.35	Sawcut and Seal
78	296+12	L4	12.0'	0.50	Sawcut and Seal
79	296+02	LI	12.0'	0.50	Sawcut and Seal
80	295+76	L3,L4,S2	33.0'	0.50	Sawcut and Seal
81	295+63	L2,L4	24.0'	0.50	Sawcut and Seal
82	295+63	SI,LI	23.0'	8.00	Type 3 Repair
83	295+51	L4	12.0'	0.35	Sawcut and Seal
84	295+44	L3,L4	24.0'	0.50	Sawcut and Seal
85	295+40	L2	12.0'	0.50	Sawcut and Seal
86	295+28	L4	12.0'	11.00	Type 3 Repair
87	294+91	SI,LI,L2,L3	47.0'	0.50	Sawcut and Seal
88	294+48	SI	11.0'	0.25	Sawcut and Seal
89	294+42	LI,L2	20.0'	0.50	Sawcut and Seal
90	294+02	SI,LI	18.0'	0.35	Sawcut and Seal
91	293+93	L3	12.0'	0.50	Sawcut and Seal
92	293+49	LI	12.0'	8.00	Type 3 Repair
93	293+43	L2	12.0'	5.00	Type 3 Repair
94	292+93	L2	12.0'	0.50	Sawcut and Seal
95	292+88	SI,LI	23.0'	0.50	Sawcut and Seal
96	292+57	L2	12.0'	0.50	Sawcut and Seal
97	292+47	LI	12.0'	0.35	Sawcut and Seal
98	292+12	LI	12.0'	0.25	Sawcut and Seal
99	291+93	L2	12.0'	0.35	Sawcut and Seal
100	291+69	SI	12.0'	0.25	Sawcut and Seal
101	291+54	LI	12.0'	0.50	Sawcut and Seal
102	291+47	L3	12.0'	7.00	Type 3 Repair
103	291+43	L2	12.0'	0.50	Sawcut and Seal
104	291+26	S2	4.0'	0.50	Sawcut and Seal
105	291+07	LI	12.0'	0.50	Sawcut and Seal
106	290+93	L2	12.0'	0.50	Sawcut and Seal
107	290+90	SI	12.0'	0.35	Sawcut and Seal
108	290+74	LI	12.0'	0.50	Sawcut and Seal
109	290+64	L3	12.0'	12.00	Type 3 Repair
110	290+44	L2	12.0'	0.50	Sawcut and Seal
111	290+38	LI	12.0'	0.50	Sawcut and Seal
112	289+63	LI	12.0'	0.35	Sawcut and Seal
113	289+45	LI	12.0'	0.50	Sawcut and Seal
114	289+45	L2,L3	24.0'	12.00	Sawcut and Seal
115	289+16	SI,LI	18.0'	0.50	Sawcut and Seal
116	288+96	L3	12.0'	8.00	Type 3 Repair
117	288+95	SI,LI	24.0'	0.50	Sawcut and Seal
118	288+95	L2	12.0'	8.00	Type 3 Repair
119	288+69	SI	12.0'	0.25	Sawcut and Seal
120	288+55	LI	12.0'	0.35	Sawcut and Seal
121	288+45	L3	12.0'	8.00	Type 3 Repair
122	288+20	LI	12.0'	0.50	Sawcut and Seal
123	288+20	L2,L3,L4	36.0'	12.00	Type 3 Repair
124	288+02	LI	12.0'	0.25	Sawcut and Seal

JOINT NUMBER	APPROX. STATION (495XL_SB)	LANES	JOINT/CRACK LENGTH (LF)	CRACK WIDTH (IN)	REPAIR TYPE
125	287+82	LI	12.0'	0.35	Sawcut and Seal
126	287+79	SI	11.0'	0.25	Sawcut and Seal
127	287+65	L2,L3,L4	29.0'	10.00	Type 3 Repair
128	287+16	LI	12.0'	0.50	Sawcut and Seal
129	287+16	L2,L3,L4	25.0'	10.00	Type 3 Repair
130	287+10	SI	11.0'	0.25	Sawcut and Seal
131	286+94	LI	12.0'	0.35	Sawcut and Seal
132	286+30	L2,L3	24.0'	12.00	Type 3 Repair
133	286+28	LI	12.0'	0.50	Type 4 Repair (due to LTE < 50%)
134	286+20	L2,L3	24.0'	20.00	Type 3 Repair
135	286+18	SI	11.0'	0.50	Sawcut and Seal
136	286+18	LI	12.0'	15.00	Type 3 Repair
137	285+77	L4	12.0'	6.00	Type 3 Repair
138	285+45	LI	12.0'	0.35	Sawcut and Seal
139	285+14	SI,L3	23.0'	0.50	Sawcut and Seal
140	285+14	LI,L2,L4	36.0'	12.00	Type 3 Repair
141	284+86	SI	11.0'	0.25	Sawcut and Seal
142	284+78	LI,L2,L3,L4	48.0'	16.00	Type 3 Repair
143	284+34	SI	11.0'	1.00	Type 3 Repair
144	284+25	L3	12.0'	0.50	Sawcut and Seal
145	284+25	LI,L2,L4	36.0'	7.00	Type 3 Repair
146	283+96	SI	11.0'	0.25	Sawcut and Seal
147	283+53	SI,LI,L2	26.0'	0.50	Type 4 Repair (due to LTE < 50%)
148	283+24	LI,L2,L3	36.0'	0.50	Sawcut and Seal
149	283+24	L4	12.0'	6.00	Type 3 Repair
150	283+00	SI,LI,L2	35.0'	0.50	Sawcut and Seal
151	282+74	L4	12.0'	0.50	Sawcut and Seal
152	282+22	SI,LI,L2,L3	47.0'	0.50	Sawcut and Seal
153	282+22	L4,S2	19.0'	5.00	Type 3 Repair
154	281+73	L3	12.0'	0.50	Sawcut and Seal
155	281+73	L4,S2	17.0'	5.00	Type 3 Repair
156	281+62	SI,LI,L2	30.0'	0.50	Type 4 Repair (due to LTE < 50%)
157	281+30	LI	3.0'	0.35	Sawcut and Seal
158	281+21	L4,S2	16.0'	8.00	Type 3 Repair
159	280+91	SI,LI,L2	35.0'	0.50	Sawcut and Seal
160	280+74	L3,L4,S2	34.0'	10.00	Type 3 Repair
161	280+23	SI,LI,L2	29.0'	0.50	Sawcut and Seal
162	279+97	SI	11.0'	11.00	Sawcut and Seal
163	279+97	LI,L2,L3,L4,S2	58.0'	14.00	Type 3 Repair
164	279+84	SI,LI,L2	29.0'	6.00	Type 3 Repair
165	279+70	L3,L4	24.0'	0.50	Sawcut and Seal
166	279+14	L3,L4	22.0'	10.00	Type 3 Repair
167	279+05	L2	12.0'	0.50	Sawcut and Seal
168	279+01	SI,LI	23.0'	0.35	Sawcut and Seal
169	278+70	L4	3.0'	4.00	Type 3 Repair
170	278+53	SI,LI,L2	25.0'	0.50	Sawcut and Seal
171	278+42	L4	3.0'	4.00	Type 3 Repair
172	278+28	SI,LI,L2	28.0'	0.50	Sawcut and Seal
173	278+08	SI	9.0'	0.25	Sawcut and Seal
174	278+06	L4	4.0'	3.00	Type 3 Repair
175	278+04	L2,L3,L4	29.0'	0.50	Sawcut and Seal
176	277+54	SI,LI	22.0'	0.35	Sawcut and Seal
177	277+36	L4	5.0'	4.00	Type 3 Repair
178	276+90	SI,LI	22.0'	0.35	Sawcut and Seal
179	276+66	L3,L4,S2	26.0'	0.50	Sawcut and Seal
180	276+50	SI,LI,L2	33.0'	0.50	Sawcut and Seal
181	275+81	SI,LI	23.0'	0.25	Sawcut and Seal
182	275+66	SI,LI,L2,L4	28.0'	0.50	Sawcut and Seal
183	275+46	SI	11.0'	0.25	Sawcut and Seal
184	275+28	SI,LI,L2	29.0'	0.50	Sawcut and Seal
185	275+21	L3,L4	24.0'	0.50	Sawcut and Seal
186	274+92	SI,LI,L2	29.0'	0.35	Sawcut and Seal
187	274+60	LI,L2	15.0'	0.50	Sawcut and Seal
188	274+28	SI,LI,L2	28.0'	0.50	Sawcut and Seal
189	274+18	LI,L2,L3,L4	42.0'	6.00	Type 3 Repair
190	273+88	SI,LI	23.0'	0.35	Sawcut and Seal
191	273+67	SI,LI,L2	30.0'	0.35	Sawcut and Seal
192	273+58	L4,S2	7.0'	0.50	Sawcut and Seal
193	273+48	LI,L2	12.0'	0.25	Sawcut and Seal
194	273+17	LI,L2	24.0'	0.35	Sawcut and Seal
195	273+02	S2	4.0'	0.50	Sawcut and Seal
196	272+79	L4,S2	9.0'	4.00	Type 3 Repair
197	272+75	SI,LI	17.0'	0.25	Sawcut and Seal
198	272+67	LI,L2,L3,L4	37.0'	0.50	Sawcut and Seal
199	272+51	SI,LI	17.0'	0.35	Sawcut and Seal
200	272+16	SI,LI,L2	20.0'	0.35	Sawcut and Seal
201	271+92	L4,S2	9.0'	6.00	Type 3 Repair
202	271+85	SI	10.0'	0.13	Sawcut and Seal
203	271+68	L3,L4	24.0'	0.50	Sawcut and Seal
204	271+57	SI,LI,L2	25.0'	0.50	Sawcut and Seal



SOUTHBOUND
I-495 GENERAL PURPOSE LANES

JOINT NUMBER	APPROX. STATION (495XL_SB)	LANES	JOINT/CRACK LENGTH (LF)	CRACK WIDTH (IN)	REPAIR TYPE
205	271+47	L4	3.0'	0.13	Sawcut and Seal
206	271+28	SI	5.0'	0.13	Sawcut and Seal
207	271+21	L4,S2	9.0'	4.00	Type 3 Repair
208	271+17	L3,L4	17.0'	0.50	Sawcut and Seal
209	271+14	LI,L2	10.0'	0.35	Sawcut and Seal
210	270+89	SI,LI,L2	25.0'	0.35	Sawcut and Seal
211	270+69	L3,L4	20.0'	0.50	Sawcut and Seal
212	270+64	SI,LI,L2	34.0'	0.50	Sawcut and Seal
213	270+58	L4,S2	6.0'	0.35	Sawcut and Seal
214	270+30	SI,LI,L2	26.0'	0.25	Sawcut and Seal
215	270+27	L4	4.0'	0.35	Sawcut and Seal
216	269+93	SI	5.0'	0.35	Sawcut and Seal
217	269+93	LI,L2,L3,L4,S2	53.0'	12.00	Type 3 Repair
218	269+67	L4,S2	8.0'	0.35	Sawcut and Seal
219	269+38	LI,L2	15.0'	0.35	Sawcut and Seal
220	269+24	L3,L4	17.0'	0.50	Sawcut and Seal
221	269+16	SI,LI,L2	27.0'	0.50	Sawcut and Seal
222	268+83	SI,LI	22.0'	0.25	Sawcut and Seal
223	268+83	L2	4.0'	6.00	Type 3 Repair
224	268+56	SI,LI,L2	28.0'	0.50	Sawcut and Seal
225	268+32	SI,LI,L2	26.0'	0.50	Sawcut and Seal
226	268+26	L4,S2	16.0'	0.25	Sawcut and Seal
227	268+26	L3	12.0'	3.00	Type 3 Repair
228	268+17	SI,LI,L2	26.0'	0.35	Sawcut and Seal
229	267+96	SI,LI,L2	26.0'	0.25	Sawcut and Seal
230	267+76	L4	3.0'	0.25	Sawcut and Seal
231	267+29	SI,LI	22.0'	1.00	Type 3 Repair
232	267+26	L2,L3,L4	36.0'	0.50	Sawcut and Seal
233	266+92	SI,LI,L2	25.0'	0.50	Sawcut and Seal
234	266+76	L3	12.0'	0.50	Sawcut and Seal
235	266+76	L4	12.0'	6.00	Type 3 Repair
236	266+63	SI,LI,L2	26.0'	0.50	Sawcut and Seal
237	266+40	SI,LI,L2	26.0'	0.25	Sawcut and Seal
238	266+26	S2	9.0'	0.50	Sawcut and Seal
239	266+26	L3,L4	24.0'	6.00	Type 3 Repair
240	265+96	L3,L4	24.0'	0.50	Sawcut and Seal
241	265+73	L4	4.0'	0.35	Sawcut and Seal
242	265+65	SI,LI,L2	26.0'	0.50	Sawcut and Seal
243	265+47	L3,L4	24.0'	0.50	Sawcut and Seal
244	265+36	L4	6.0'	4.00	Type 3 Repair
245	265+25	SI,LI,L2	27.0'	0.35	Sawcut and Seal
246	264+97	L3,L4	14.0'	0.50	Sawcut and Seal
247	264+82	SI,LI,L2	28.0'	0.50	Sawcut and Seal
248	264+59	L4,S2	9.0'	6.00	Type 3 Repair
249	264+39	SI,LI,L2	26.0'	0.50	Sawcut and Seal
250	264+17	SI,LI	17.0'	0.35	Sawcut and Seal
251	263+91	SI,LI,L2,L3,L4,S2	49.0'	0.50	Sawcut and Seal
252	263+60	LI,L2	15.0'	0.50	Sawcut and Seal
253	263+44	L3,L4	24.0'	0.50	Sawcut and Seal
254	263+27	SI,LI,L2	28.0'	0.50	Sawcut and Seal

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	2C(2)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

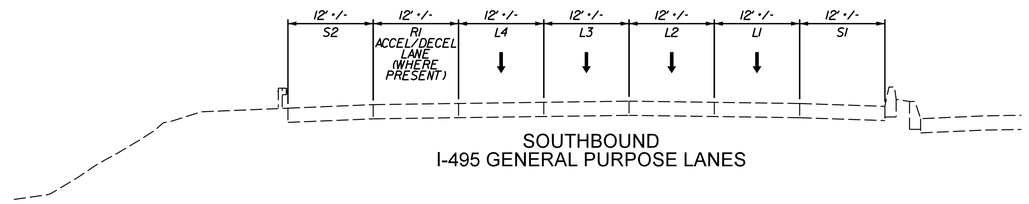
PAVEMENT JOINT REPAIR DETAILS AND LOCATIONS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	2C(3)

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

JOINT NUMBER	APPROX. STATION (495XL_SB)	LANES	JOINT/CRACK LENGTH (LF)	CRACK WIDTH (IN.)	REPAIR TYPE
255	263+22	L4,S2	16.0'	0.50	Sawcut and Seal
256	262+39	S1,L1,L2	26.0'	0.35	Sawcut and Seal
257	262+33	L4,R1	24.0'	0.50	Sawcut and Seal
258	262+19	S1	10.0'	0.13	Sawcut and Seal
259	261+82	L4,R1	24.0'	0.50	Sawcut and Seal
260	261+56	S1,L1,L2	25.0'	0.25	Sawcut and Seal
261	261+00	L4,R1	17.0'	0.25	Sawcut and Seal
262	260+86	L1,L2	16.0'	0.50	Sawcut and Seal
263	260+45	S1	10.0'	0.25	Sawcut and Seal
264	260+45	L1,L2	14.0'	10.00	Type 3 Repair
265	260+21	S1,L1,L2,L3,L4,R1	70.0'	6.00	Type 3 Repair
266	260+12	R1	12.0'	1.00	Type 3 Repair
267	259+92	S1	10.0'	0.13	Sawcut and Seal
268	259+36	L3,L4	24.0'	0.50	Sawcut and Seal
269	258+79	L4	12.0'	0.50	Sawcut and Seal
270	257+96	L3,L4	16.0'	0.50	Sawcut and Seal
271	257+45	L4	5.0'	0.25	Sawcut and Seal
272	257+11	L4,S2	15.0'	0.50	Sawcut and Seal
273	257+04	L1	12.0'	0.25	Sawcut and Seal
274	256+24	S2	9.0'	0.13	Sawcut and Seal
275	254+96	S1,L4	18.0'	0.50	Sawcut and Seal
276	254+96	L3	12.0'	4.00	Type 3 Repair
277	254+80	S2	5.0'	0.13	Sawcut and Seal
278	254+09	L4,S2	15.0'	0.13	Sawcut and Seal
279	253+96	L3,L4,S2	35.0'	0.50	Sawcut and Seal
280	253+78	L1	12.0'	0.25	Sawcut and Seal
281	253+46	L3,L4,S2	16.0'	0.35	Sawcut and Seal
282	253+37	L4,S2	6.0'	0.13	Sawcut and Seal
283	253+30	S1	10.0'	0.13	Sawcut and Seal
284	252+98	L3,L4,S2	32.0'	0.50	Sawcut and Seal
285	252+59	S2	9.0'	0.13	Sawcut and Seal
286	252+47	L3,L4	19.0'	0.50	Sawcut and Seal
287	252+06	L4,S2	8.0'	0.25	Sawcut and Seal
288	251+97	L4	4.0'	0.25	Sawcut and Seal
289	251+47	L3,L4,S2	35.0'	0.50	Sawcut and Seal
290	251+09	L4,S2	16.0'	0.35	Sawcut and Seal
291	250+67	L4,S2	16.0'	2.00	Type 3 Repair
292	250+20	S1,L1,L2,L3,L4,S2	70.0'	8.00	Type 3 Repair
293	249+24	L4	6.0'	0.50	Sawcut and Seal
294	249+24	S2	11.0'	1.00	Type 3 Repair
295	248+53	L4,S2	14.0'	0.75	Type 3 Repair
296	248+43	L2,L3,L4	28.0'	0.50	Sawcut and Seal
297	248+11	S2	10.0'	0.13	Sawcut and Seal
298	247+98	L4	4.0'	0.50	Sawcut and Seal
299	247+45	L3,L4	24.0'	0.35	Sawcut and Seal
300	247+42	L2	12.0'	0.25	Sawcut and Seal
301	246+97	L4,R1	24.0'	0.50	Sawcut and Seal
302	246+53	R1,S2	18.0'	0.13	Sawcut and Seal
303	246+18	R1	12.0'	0.35	Sawcut and Seal
304	245+87	L2	12.0'	0.50	Sawcut and Seal
305	245+83	L3,L4	18.0'	0.50	Sawcut and Seal
306	245+34	L3,L4,R1	36.0'	0.50	Sawcut and Seal
307	244+98	R1	12.0'	0.13	Sawcut and Seal
308	244+84	L1,L3,L4,R1	40.0'	0.50	Sawcut and Seal
309	244+84	L2	12.0'	12.00	Type 3 Repair
310	244+34	L4	12.0'	0.50	Sawcut and Seal
311	243+83	L3,L4,R1	34.0'	0.50	Sawcut and Seal
312	243+83	L2	7.0'	3.00	Type 3 Repair
313	243+44	R1	8.0'	0.13	Sawcut and Seal
314	243+32	L3,L4,R1	21.0'	0.50	Sawcut and Seal
315	242+84	L2	12.0'	14.00	Type 3 Repair
316	242+82	L3,R1	24.0'	0.50	Sawcut and Seal
317	242+82	L4	12.0'	4.00	Type 3 Repair
318	242+33	L2,L3,L4,R1	39.0'	6.00	Type 3 Repair
319	242+24	R1,S2	17.0'	0.13	Sawcut and Seal
320	241+90	L2	5.0'	0.50	Sawcut and Seal
321	241+86	L2	5.0'	0.25	Sawcut and Seal
322	241+81	L3,L4	24.0'	0.50	Sawcut and Seal
323	241+69	R1,S2	12.0'	0.35	Sawcut and Seal
324	241+43	L4,R1,S2	27.0'	0.50	Sawcut and Seal
325	241+14	R1	9.0'	0.35	Sawcut and Seal
326	240+83	L3	16.0'	0.50	Sawcut and Seal
327	240+83	L2,L4	24.0'	6.00	Type 3 Repair
328	240+80	R1,S2	18.0'	0.13	Sawcut and Seal
329	240+75	S1,L1,L2	20.0'	0.50	Sawcut and Seal
330	240+32	L4	10.0'	0.50	Sawcut and Seal
331	240+30	L1	4.0'	0.50	Sawcut and Seal
332	240+24	R1	12.0'	1.00	Type 3 Repair
333	240+07	L2,L3,L4,R1	48.0'	12.00	Type 3 Repair
334	240+04	S1,L1,L2	17.0'	0.35	Type 4 Repair (due to LTE < 50%)

JOINT NUMBER	APPROX. STATION (495XL_SB)	LANES	JOINT/CRACK LENGTH (LF)	CRACK WIDTH (IN.)	REPAIR TYPE
335	239+80	L4,S2	16.0'	0.50	Sawcut and Seal
336	239+37	L4,S2	22.0'	0.50	Sawcut and Seal
337	239+31	L2,L4	13.0'	0.50	Sawcut and Seal
338	239+31	L3	12.0'	8.00	Type 3 Repair
339	239+29	L1	12.0'	0.35	Sawcut and Seal
340	239+11	S2	10.0'	0.25	Sawcut and Seal
341	238+81	L1,L2	16.0'	0.50	Sawcut and Seal
342	238+81	L3,L4	18.0'	10.00	Type 3 Repair
343	238+59	L4	12.0'	0.50	Sawcut and Seal
344	238+41	L2	6.0'	0.50	Sawcut and Seal
345	238+34	L1	12.0'	0.50	Sawcut and Seal
346	238+06	L4,S2	17.0'	0.50	Sawcut and Seal
347	237+99	L1,L2	16.0'	0.35	Sawcut and Seal
348	237+89	L3,L4	17.0'	0.50	Sawcut and Seal
349	237+79	L1	12.0'	0.50	Sawcut and Seal
350	237+54	L4,S2	22.0'	0.35	Sawcut and Seal
351	237+52	L1,L2	16.0'	0.35	Sawcut and Seal
352	237+39	L1,L2	18.0'	0.50	Sawcut and Seal
353	237+23	L1,L2	16.0'	0.25	Sawcut and Seal
354	237+17	L4	14.0'	0.50	Sawcut and Seal
355	236+90	L2,L4	16.0'	0.50	Sawcut and Seal
356	236+90	L3	12.0'	10.00	Type 3 Repair
357	236+85	L1,L4,S2	30.0'	0.35	Sawcut and Seal
358	236+62	L1	12.0'	0.13	Sawcut and Seal
359	236+45	L1,L2	6.0'	0.13	Sawcut and Seal
360	236+40	L2,L3,L4	24.0'	0.50	Sawcut and Seal
361	236+28	S1,L1,L4,S2	28.0'	0.50	Sawcut and Seal
362	235+99	L1,L2	15.0'	0.50	Sawcut and Seal
363	235+92	L2,L4,S2	27.0'	0.13	Sawcut and Seal
364	235+92	L3	12.0'	6.00	Type 3 Repair
365	235+83	S1,L1,L2	21.0'	0.50	Sawcut and Seal
366	235+71	L4,S2	11.0'	0.50	Sawcut and Seal
367	235+40	L1,L2,L3,L4	40.0'	0.50	Sawcut and Seal
368	235+26	L4,S2	18.0'	0.50	Sawcut and Seal
369	235+15	L1,L2	18.0'	0.50	Sawcut and Seal
370	234+98	L1,L2	18.0'	0.50	Sawcut and Seal
371	234+90	L3,L4	19.0'	0.35	Sawcut and Seal
372	234+85	L4,S2	12.0'	0.25	Sawcut and Seal
373	234+70	L1	8.0'	0.25	Sawcut and Seal
374	234+52	S2	16.0'	0.13	Sawcut and Seal
375	234+39	L2,L3,L4	20.0'	0.50	Sawcut and Seal
376	234+26	L4,S2	26.0'	0.35	Sawcut and Seal
377	234+22	L1,L2	6.0'	0.35	Sawcut and Seal
378	233+91	L1,L2	24.0'	0.50	Sawcut and Seal
379	233+88	L4	7.0'	0.50	Sawcut and Seal
380	233+88	L3	12.0'	12.00	Type 3 Repair
381	233+70	L1,L2	16.0'	0.13	Sawcut and Seal
382	233+59	L4,S2	21.0'	0.35	Sawcut and Seal
383	233+41	L1,L2,L3,L4,S2	49.0'	0.50	Sawcut and Seal
384	233+19	S1,L1	16.0'	0.50	Sawcut and Seal
385	232+95	L4,S2	19.0'	0.25	Sawcut and Seal
386	232+91	L1,L2,L4	24.0'	0.50	Sawcut and Seal
387	232+79	S1,L1	15.0'	3.00	Type 3 Repair
388	232+52	L4,S2	19.0'	7.00	Type 3 Repair
389	232+39	S1,L1	15.0'	0.50	Sawcut and Seal
390	232+39	L2,L3,L4	28.0'	6.00	Type 3 Repair
391	231+96	S1,L1,L2	27.0'	0.50	Sawcut and Seal
392	231+94	L4,S2	20.0'	6.00	Type 3 Repair
393	231+90	L2,L3,L4	22.0'	8.00	Type 3 Repair
394	231+67	L2	12.0'	0.50	Sawcut and Seal
395	231+65	S1,L1	22.0'	4.00	Type 3 Repair
396	231+46	L4	7.0'	0.35	Sawcut and Seal
397	231+40	L3,L4	17.0'	0.50	Sawcut and Seal
398	231+13	S1,L1,L2	27.0'	12.00	Type 3 Repair
399	231+05	S2	7.0'	0.50	Sawcut and Seal
400	231+05	L4	8.0'	6.00	Type 3 Repair
401	230+91	L1,L2	14.0'	0.50	Sawcut and Seal
402	230+91	L3,L4	16.0'	8.00	Type 3 Repair
403	230+78	S1,L1,L2	21.0'	0.50	Sawcut and Seal
404	230+40	S1	6.0'	0.25	Sawcut and Seal
405	230+40	L1,L2,L3,L4,S2	56.0'	12.00	Type 3 Repair
406	230+15	S1,L1,L2,L3,L4,S2	66.0'	12.00	Type 3 Repair
407	230+06	L4	5.0'	16.00	Type 3 Repair
408	229+93	L4,S2	8.0'	0.50	Sawcut and Seal
409	229+89	L1,L2	14.0'	0.50	Sawcut and Seal
410	229+57	S2	8.0'	0.50	Sawcut and Seal
411	229+57	L4	5.0'	12.00	Type 3 Repair
412	229+47	S1,L1,L2	23.0'	0.50	Sawcut and Seal
413	229+41	L2,L3,L4	24.0'	8.00	Type 3 Repair
414	229+11	L4	5.0'	14.00	Type 3 Repair



SOUTHBOUND
I-495 GENERAL PURPOSE LANES

JOINT NUMBER	APPROX. STATION (495XL_SB)	LANES	JOINT/CRACK LENGTH (LF)	CRACK WIDTH (IN.)	REPAIR TYPE
415	228+83	L1	3.0'	0.50	Sawcut and Seal
416	228+79	L1,L2	14.0'	0.35	Sawcut and Seal
417	228+69	L3,L4,S2	32.0'	9.00	Type 3 Repair
418	228+41	L3,L4	8.0'	0.50	Sawcut and Seal
419	228+20	S1,L1	8.0'	0.50	Sawcut and Seal
420	228+13	L4	8.0'	12.00	Type 3 Repair
421	228+03	L4,S2	20.0'	0.35	Sawcut and Seal
422	227+92	S1,L2	11.0'	0.50	Sawcut and Seal
423	227+92	L1,L3,L4	36.0'	6.00	Type 3 Repair
424	227+57	S1,L1	11.0'	0.25	Sawcut and Seal
425	227+44	S2	8.0'	0.25	Sawcut and Seal
426	227+44	L4	12.0'	8.00	Type 3 Repair
427	227+42	L2,L3	14.0'	4.00	Type 3 Repair
428	226+93	S1,L1,L2,L3,L4	39.0'	0.50	Sawcut and Seal
429	226+56	L4,S2	16.0'	0.25	Sawcut and Seal
430	226+49	S1,L1	18.0'	0.50	Sawcut and Seal
431	226+32	L3,L4	19.0'	0.50	Sawcut and Seal
432	225+93	L2,L3,L4	28.0'	0.50	Sawcut and Seal
433	225+89	L1,L2	6.0'	0.50	Sawcut and Seal
434	225+66	L1	8.0'	0.35	Sawcut and Seal
435	225+03	L1,L2	16.0'	0.50	Sawcut and Seal
436	224+93	L3,L4	17.0'	0.50	Sawcut and Seal
437	224+84	L4	4.0'	0.50	Sawcut and Seal
438	224+53	L1,L2	9.0'	0.25	Sawcut and Seal
439	224+43	L2,L3,L4	28.0'	0.50	Sawcut and Seal
440	224+22	L4	7.0'	0.50	Sawcut and Seal
441	223+94	L1,L2,L3,L4	31.0'	0.50	Sawcut and Seal
442	223+85	L4	7.0'	0.50	Sawcut and Seal
443	223+76	S1,L1	10.0'	0.25	Sawcut and Seal
444	223+45	S1,L1,L2,L3,L4	58.0'	0.50	Sawcut and Seal
445	223+45	S2	10.0'	1.00	Type 3 Repair
446	223+16	L4,S2	9.0'	0.25	Sawcut and Seal
447	222+95	S1,L1	17.0'	0.13	Sawcut and Seal
448	222+74	L4	7.0'	0.25	Sawcut and Seal
449	222+74	L3	12.0'	6.00	Type 3 Repair
450	222+70	L1,L2	24.0'	0.50	Sawcut and Seal
451	222+65	L4,S2	20.0'	10.00	Type 3 Repair
452	222+52	L1,L2	14.0'	0.25	Sawcut and Seal
453	222+16	S1,L1	16.0'	0.50	Sawcut and Seal
454	221+94	L2,L3,L4	29.0'	10.00	Type 3 Repair
455	221+91	S2	10.0'	0.35	Sawcut and Seal
456	221+58	L4	12.0'	0.35	Sawcut and Seal
457	221+58	S2	12.0'	1.00	Type 3 Repair
458	221+47	S1,L1,L4	17.0'	0.50	Sawcut and Seal
459	221+47	L2,L3	24.0'	6.00	Type 3 Repair
460	220+97	S1,L1,L2	30.0'	0.50	Sawcut and Seal
461	220+96	L2	5.0'	6.00	Type 3 Repair
462	220+72	L4	9.0'	0.50	Sawcut and Seal
463	220+65	L3,L4	15.0'	0.35	Sawcut and Seal
464	220+49	S1,L1,L2	25.0'	0.13	Sawcut and Seal

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

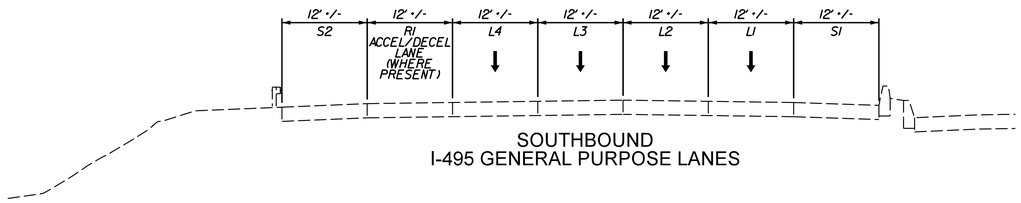
PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

PAVEMENT JOINT REPAIR DETAILS AND LOCATIONS

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	2C(4)

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

JOINT NUMBER	APPROX. STATION (495XL_SB)	LANES	JOINT/CRACK LENGTH (LF)	CRACK WIDTH (IN.)	REPAIR TYPE
465	220+40	L4,S2	17.0'	0.25	Sawcut and Seal
466	220+10	S2	10.0'	0.25	Sawcut and Seal
467	220+10	S1,I1,I2,L3,L4	58.0'	10.00	Type 3 Repair
468	219+52	L3,L4	15.0'	0.50	Sawcut and Seal
469	217+29	L4	5.0'	0.35	Sawcut and Seal
470	217+29	L2,L3	19.0'	8.00	Type 3 Repair
471	216+96	L2,L3	11.0'	15.00	Type 3 Repair
472	216+90	I1	6.0'	0.25	Type 4 Repair (due to LTE < 50%)
473	216+52	L4,S2	7.0'	0.25	Sawcut and Seal
474	216+29	S1,I1,I2,L3,L4,S2	61.0'	9.00	Type 3 Repair
475	216+15	S1,I1	13.0'	0.50	Sawcut and Seal
476	216+00	S1,I1	15.0'	0.25	Sawcut and Seal
477	216+00	L2	5.0'	6.00	Type 3 Repair
478	215+51	S1,I1,I2,L3,L4,S2	68.0'	10.00	Type 3 Repair
479	214+59	S1,I1,I2	24.0'	0.50	Sawcut and Seal
480	214+28	S1,L3,L4	21.0'	0.50	Sawcut and Seal
481	214+28	I1,I2	24.0'	3.00	Type 3 Repair
482	213+72	I1,I2	16.0'	1.00	Type 3 Repair
483	213+65	L4,S2	15.0'	4.00	Type 3 Repair
484	213+59	S1,I1,I2	26.0'	5.00	Type 3 Repair
485	213+31	S1,I2	7.0'	0.50	Sawcut and Seal
486	213+31	I1	12.0'	1.00	Type 3 Repair
487	212+68	S1,I1,I2,L3,L4,S2	62.0'	8.00	Type 3 Repair
488	212+32	S1,I1	22.0'	0.50	Sawcut and Seal
489	212+02	L4,S2	19.0'	0.50	Sawcut and Seal
490	211+63	I1	8.0'	0.35	Sawcut and Seal
491	211+63	S1	12.0'	2.00	Type 3 Repair
492	211+52	L4,S2	22.0'	0.50	Sawcut and Seal
493	211+52	L2,L3	24.0'	8.00	Type 3 Repair
494	211+28	S1,I1	9.0'	0.50	Sawcut and Seal
495	211+04	L2	12.0'	0.50	Sawcut and Seal
496	210+92	L3,L4	15.0'	0.50	Sawcut and Seal
497	210+76	S1,I1	24.0'	1.00	Type 3 Repair
498	210+53	L3	12.0'	6.00	Type 3 Repair
499	210+50	S1,I1,L2,L4	46.0'	8.00	Type 3 Repair
500	210+06	L4	5.0'	0.13	Sawcut and Seal
501	210+01	L3	12.0'	0.35	Sawcut and Seal
502	210+01	L2	12.0'	1.00	Type 3 Repair
503	209+84	S1,I1	22.0'	0.50	Sawcut and Seal
504	209+52	L2,L3,L4,S2	40.0'	0.50	Sawcut and Seal
505	209+44	S1,I1	24.0'	1.00	Type 3 Repair
506	209+03	L3,L4,S2	29.0'	0.50	Sawcut and Seal
507	209+03	S1,I1,I2	38.0'	2.00	Type 3 Repair
508	208+69	L4	4.0'	0.25	Sawcut and Seal
509	208+51	S1,I1,I2	20.0'	2.00	Type 3 Repair
510	208+44	L3,L4	14.0'	0.50	Sawcut and Seal
511	208+00	S1,I1,I2	28.0'	1.00	Type 3 Repair
512	207+81	L3,L4,S2	25.0'	4.00	Type 3 Repair
513	207+57	L3,L4	16.0'	0.50	Sawcut and Seal
514	207+51	I1,I2	24.0'	1.00	Type 3 Repair
515	207+10	I1,I2	24.0'	2.00	Type 3 Repair
516	207+01	L3,L4	24.0'	0.50	Sawcut and Seal
517	206+53	L3,L4	24.0'	0.50	Sawcut and Seal
518	206+25	I1,I2,L3,L4	48.0'	18.00	Type 3 Repair
519	206+12	L3,L4	18.0'	7.00	Type 3 Repair
520	206+05	I1,I2	24.0'	3.00	Type 3 Repair
521	205+08	I1,I2	24.0'	6.00	Type 3 Repair
522	205+02	L3,L4	24.0'	3.00	Type 3 Repair
523	204+62	I1,I2	19.0'	8.00	Type 3 Repair
524	204+03	L3,L4	24.0'	4.00	Type 3 Repair
525	203+76	I1,I2	18.0'	10.00	Type 3 Repair
526	203+52	L2	10.0'	1.00	Type 3 Repair
527	203+27	L3,L4	18.0'	0.50	Sawcut and Seal
528	202+74	I1,I2	19.0'	10.00	Type 3 Repair
529	202+56	L3,L4	24.0'	0.50	Sawcut and Seal
530	202+17	L3,L4	15.0'	0.50	Sawcut and Seal
531	202+15	I1,I2	19.0'	5.00	Type 3 Repair
532	201+97	I1,I2	19.0'	1.00	Type 3 Repair
533	201+32	L3,L4	24.0'	1.00	Type 3 Repair
534	201+26	I1,I2	17.0'	9.00	Type 3 Repair
535	200+69	L3,L4	15.0'	0.35	Sawcut and Seal
536	200+54	I1,I2	17.0'	2.00	Type 3 Repair
537	200+05	L3,L4	22.0'	0.25	Sawcut and Seal
538	199+95	I1,I2	14.0'	9.00	Type 3 Repair
539	199+45	S1,L4	14.0'	0.50	Sawcut and Seal
540	199+45	I1,I2,L3	36.0'	12.00	Type 3 Repair
541	198+73	L3,L4	24.0'	8.00	Type 3 Repair
542	198+69	I1,I2	17.0'	12.00	Type 3 Repair
543	197+90	L2	12.0'	10.00	Type 3 Repair
544	197+65	L3	10.0'	0.50	Sawcut and Seal
545	197+65	L4	10.0'	8.00	Type 3 Repair
546	197+57	L4	12.0'	0.50	Sawcut and Seal
547	197+57	L2,L3	24.0'	9.00	Type 3 Repair
548	197+20	L3,L4	14.0'	4.00	Type 3 Repair
549	197+09	L2	12.0'	14.00	Type 3 Repair
550	197+02	L4	10.0'	4.00	Type 3 Repair
551	196+98	L3	9.0'	6.00	Type 3 Repair
552	196+32	L2	12.0'	1.00	Type 3 Repair
553	196+28	S1,I1	22.0'	5.00	Type 3 Repair
554	196+10	L2	8.0'	6.00	Type 3 Repair
555	196+04	L2,L3,L4	35.0'	10.00	Type 3 Repair
556	195+73	L3,L4	12.0'	0.50	Sawcut and Seal
557	195+66	L2	12.0'	2.00	Type 3 Repair
558	195+34	S1,L3,L4	23.0'	0.50	Sawcut and Seal
559	194+99	L3,L4	14.0'	0.50	Sawcut and Seal
560	194+52	L3,L4	14.0'	0.50	Sawcut and Seal
561	193+89	L2,L3,L4	28.0'	0.50	Sawcut and Seal
562	193+29	L3,L4	24.0'	0.50	Sawcut and Seal
563	192+68	L3,L4	24.0'	0.50	Sawcut and Seal



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	2C(4)

Thursday, April 01, 2021 05:54:33 PM
5:54:33 PM

dxxxxxxsht-03.dgn
Plotted By: ETWRIGHT

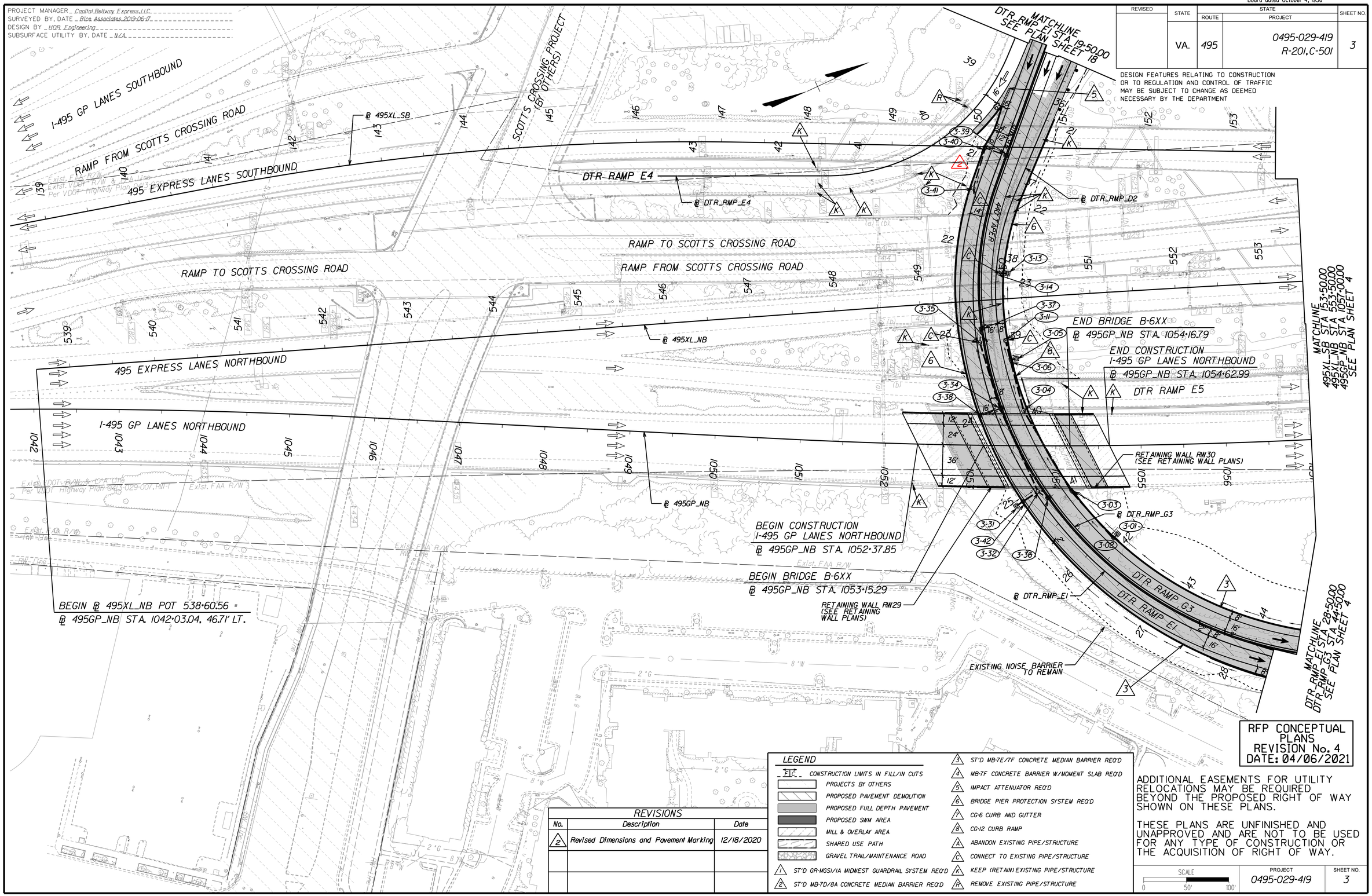
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	3

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



REVISIONS		
No.	Description	Date
2	Revised Dimensions and Pavement Marking	12/18/2020

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGS1/1A MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	3

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

495 EXPRESS LANES NORTHBOUND

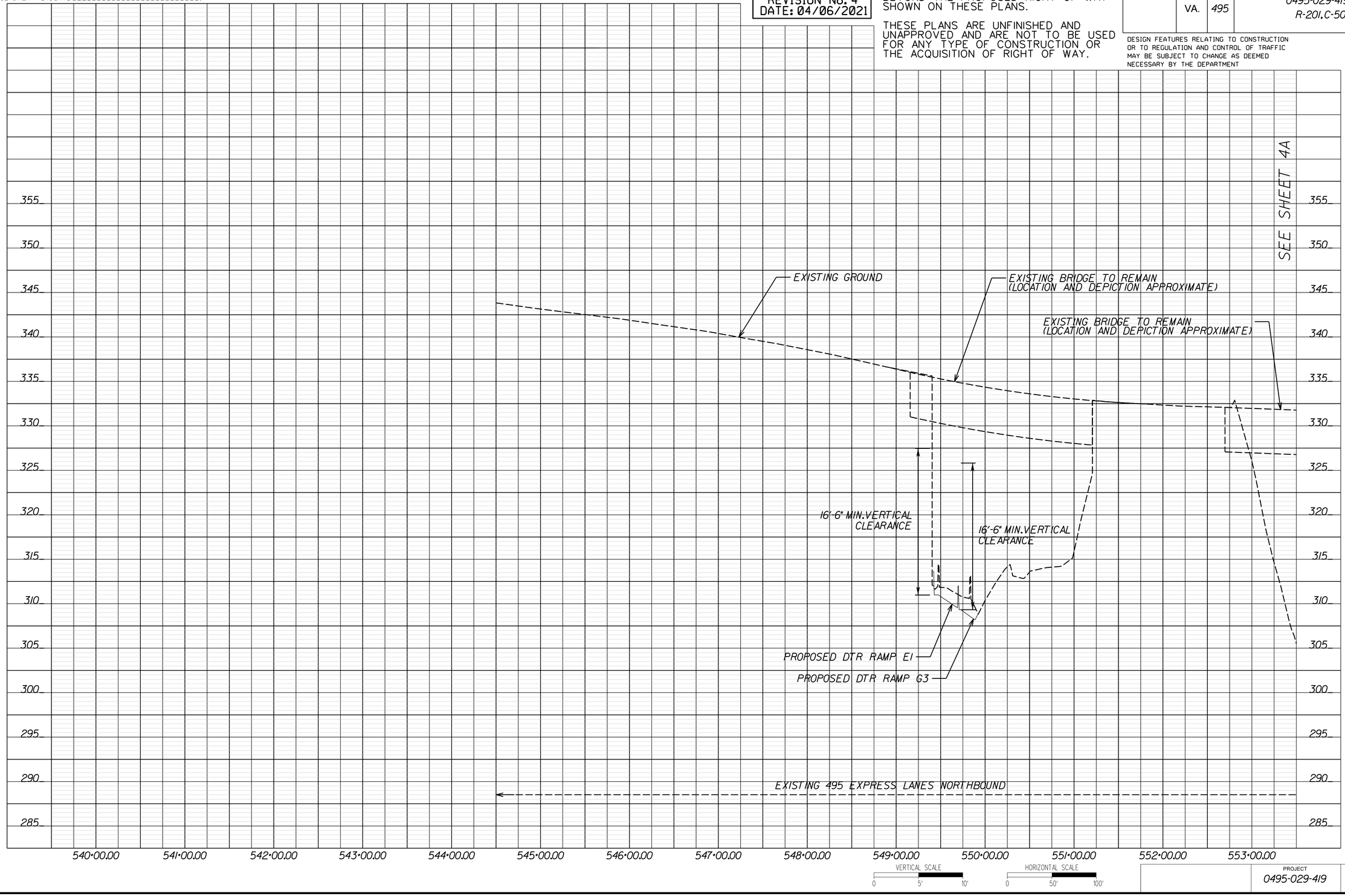
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	3A

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



VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	3A

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES SOUTHBOUND

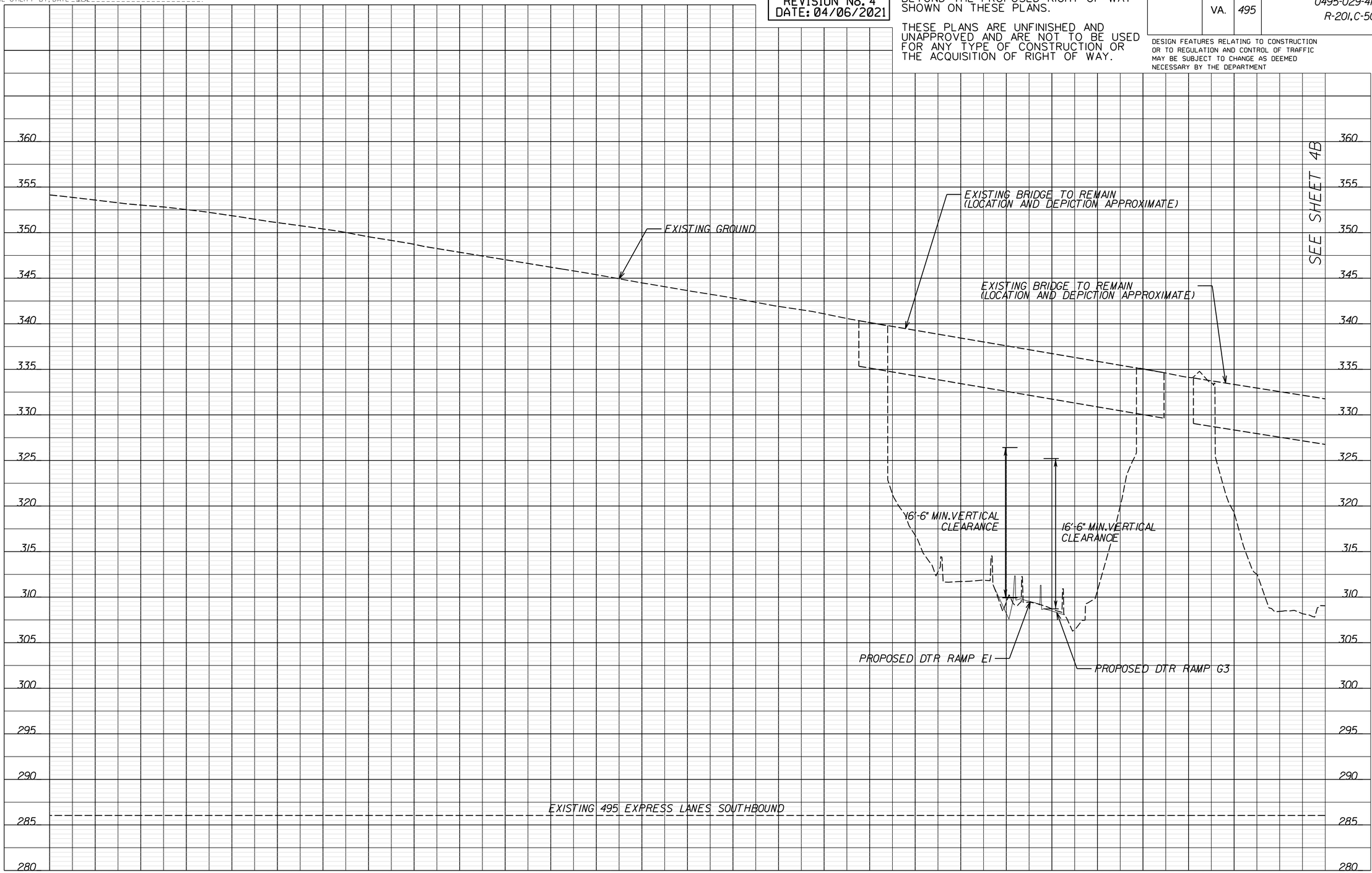
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	3B

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	3B

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DTR RAMP E1

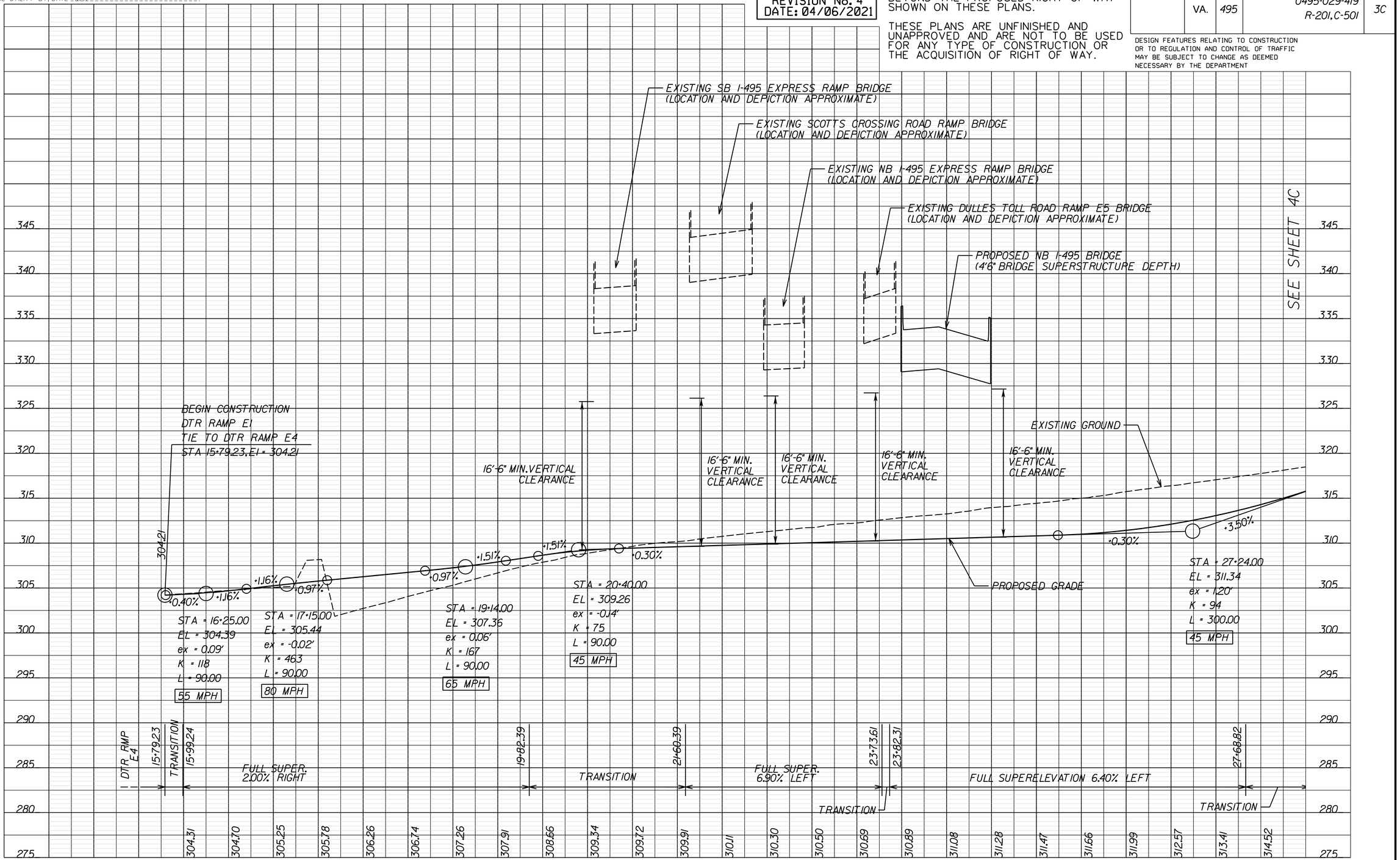
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	3C

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.
0495-029-419	3C

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DTR RAMP G3

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

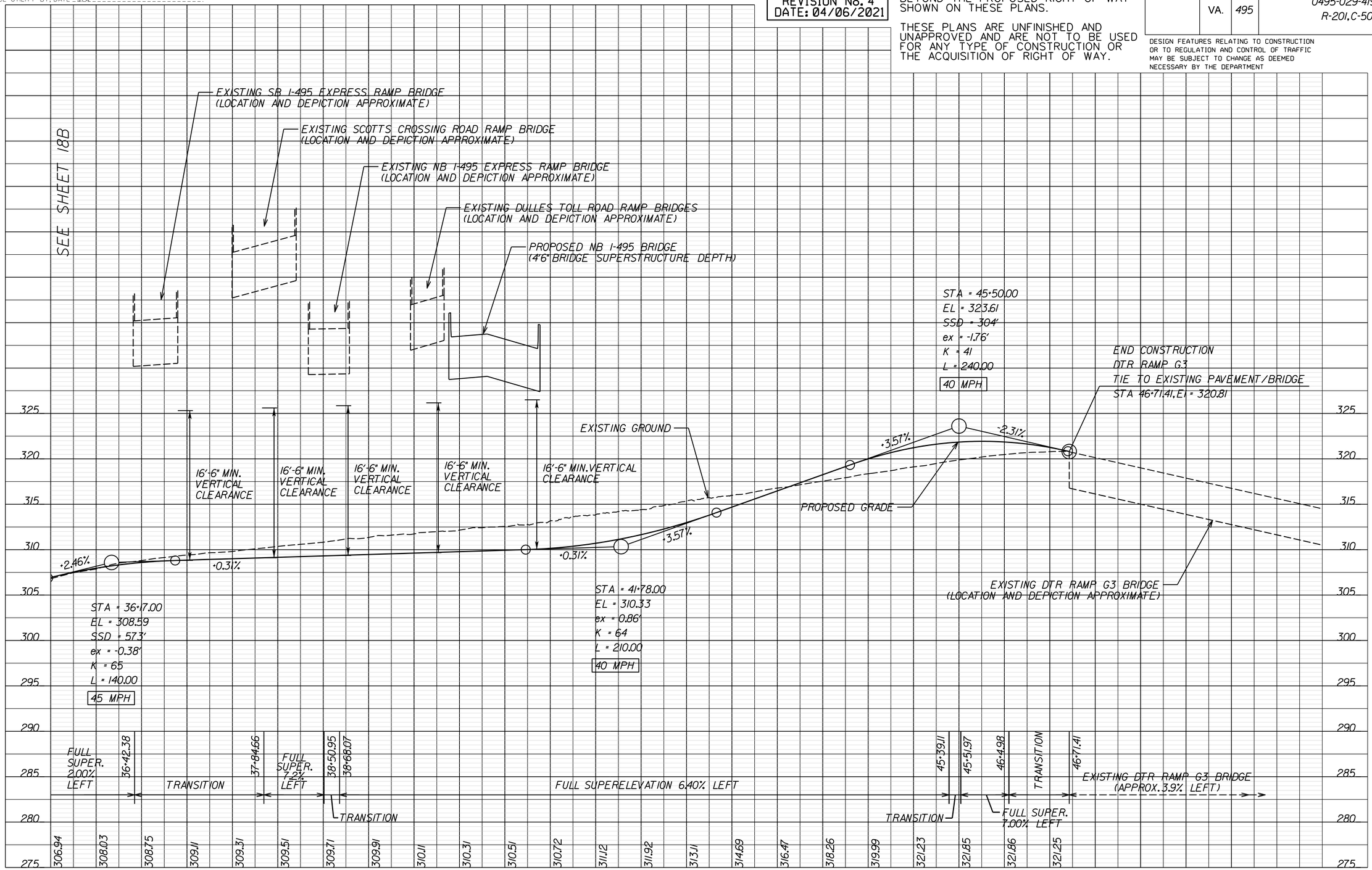
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	3D

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

SEE SHEET 18B



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	3D

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

I-495 GP LANES NORTHBOUND

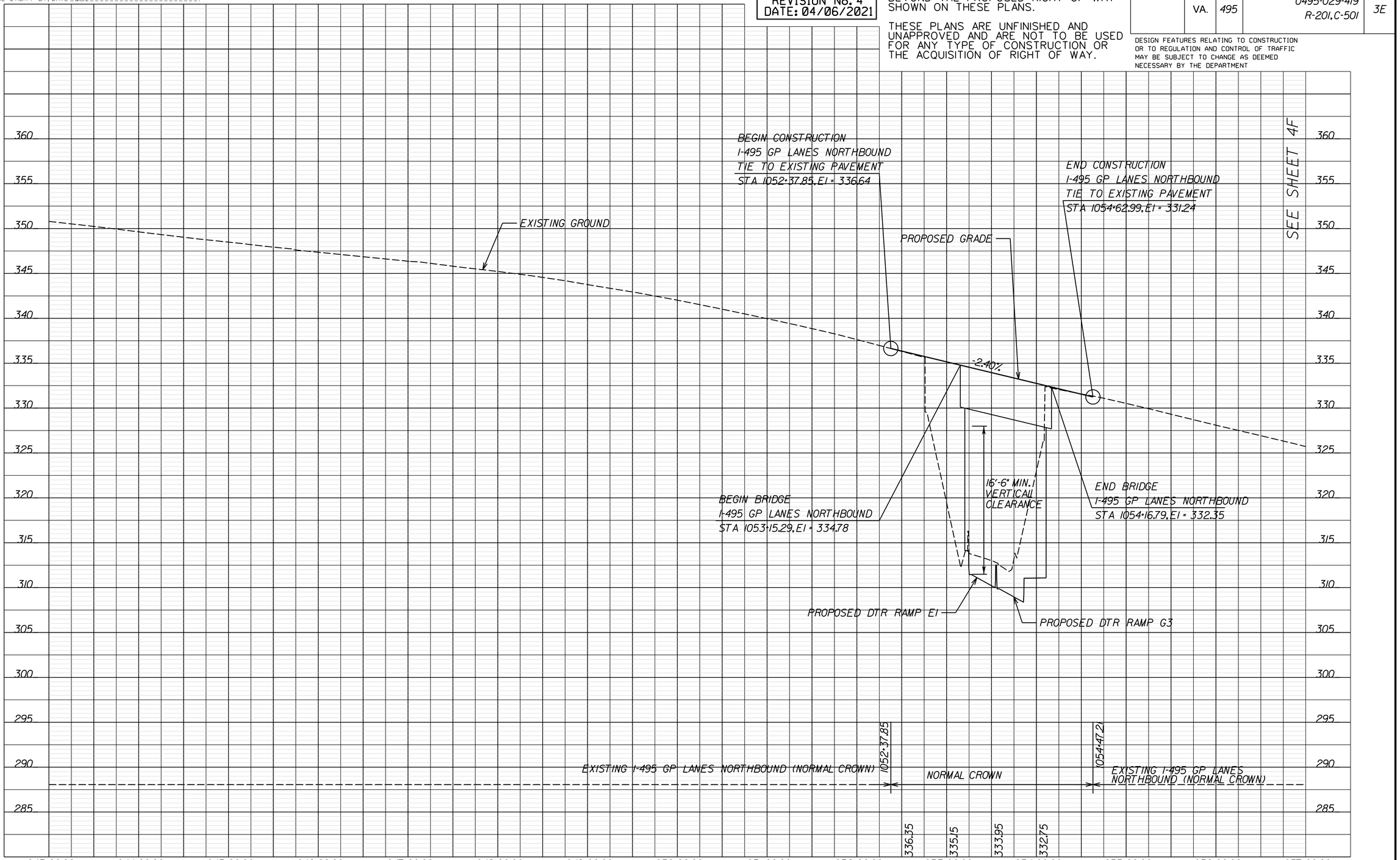
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	3E

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	3E

Thursday, April 01, 2021 05:55:06 PM
5:55:06 PM

dxxxxxxsht-03F.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

DTR RAMP E4

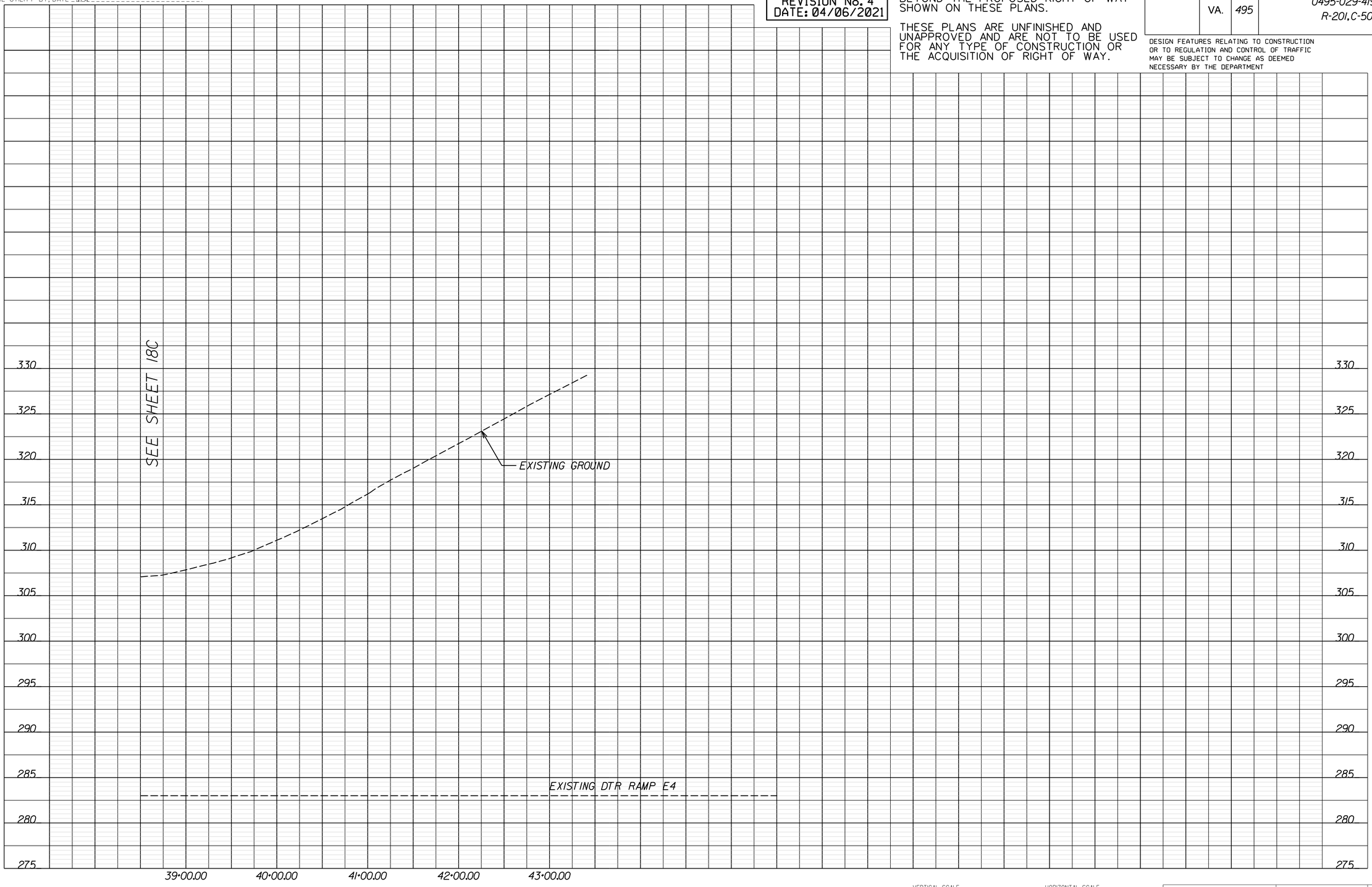
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	3F

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	3F

Thursday, April 01, 2021 05:55:18 PM
5:55:18 PM

dxxxxxxsht-03RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	3RW

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

I-495 GP LANES SOUTHBOUND
RAMP FROM SCOTTS CROSSING ROAD
495 EXPRESS LANES SOUTHBOUND
SCOTTS CROSSING PROJECT (BY OTHERS)
DTR RAMP E4
MATCHLINE DTR RMP E1 STA 19+50.00 SEE PLAN SHEET 18RW
RAMP TO SCOTTS CROSSING ROAD
RAMP FROM SCOTTS CROSSING ROAD
RAMP TO SCOTTS CROSSING ROAD
495 EXPRESS LANES NORTHBOUND
DTR RAMP E5
I-495 GP LANES NORTHBOUND
Exist. VDOT R/W & L/A Line
Per VDOT Highway Plan 0413-029-007, RW-1
Exist. FAA R/W
Exist. FAA R/W RW Line
RW Line
Exist. FAA R/W
Conc. Mon.
DTR RAMP G3
DTR RAMP E1
MATCHLINE 495XL-SB STA 153+50.00 495XL-NB STA 553+50.00 495GP-NB STA 1057+00.00 SEE PLAN SHEET 4RW
MATCHLINE DTR RMP E1 STA 28+50.00 DTR RMP G3 STA 44+50.00 SEE PLAN SHEET 4RW

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LEGEND

CONSTRUCTION LIMITS IN CUTS	Proposed R/W — PROPOSED RIGHT OF WAY
CONSTRUCTION LIMITS IN FILLS	Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
PROJECTS BY OTHERS	Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
PROPOSED PAVEMENT	Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT
PROPOSED SWM AREA	
EXISTING RIGHT OF WAY PROPERTY LINES	

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	3RW

Thursday, April 01, 2021 05:55:35 PM
5:55:35 PM

dxxxxxxsht-04.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISIONS		
No.	Description	Date
2	Updated SWM access road	12/18/2020

LEGEND

- FIC — CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECT'S BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGS1/1A MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	4

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

495 EXPRESS LANES SOUTHBOUND
RAMP TO SCOTTS CROSSING ROAD
RAMP FROM SCOTTS CROSSING ROAD
495 EXPRESS LANES NORTHBOUND
DTR RAMP E6
DTR RAMP E5
DTR RAMP G2
DTR RAMP G3
DTR RAMP GIO
DTR RAMP E3
DULLES TOLL ROAD EASTBOUND
DULLES INTERNATIONAL AIRPORT ACCESS HIGHWAY EASTBOUND
DULLES INTERNATIONAL AIRPORT ACCESS HIGHWAY WESTBOUND
DULLES TOLL ROAD WESTBOUND
I-495 GP LANES NORTHBOUND
SCOTTS RUN
CHANNEL RELOCATION
Exist. FAA R/W
Exist. VDOT R/W & FAA R/W Line Per VDOT Highway Plan 0413-029-007, RW-1

℄ 495XL_SB
℄ 495XL_NB
℄ 495GP_NB
℄ DTR_RMP_E1
℄ DTR_RMP_G3
℄ DTR_RMP_GIO
℄ DTR_WB

BEGIN PROJECT 0495-029-419
BEGIN CONSTRUCTION
495 EXPRESS LANES NORTHBOUND
℄ 495XL_NB STA. 567+00.00

RETAINING WALL RW01 (SEE RETAINING WALL PLANS)

END BRIDGE B-6XX
℄ DTR_RMP_E1 STA. 41+26.17

END ℄ DTR_RMP_G3 PT 53+96.27
℄ 495GP_NB, STA. 1065+75.00, 48.00' RT.

END CONSTRUCTION
DULLES TOLL ROAD RAMP G3
STA. 46+71.41

BEGIN BRIDGE B-6XX
℄ DTR_RMP_E1 STA. 36+74.56

END BRIDGE B-6XX
℄ DTR_RMP_E1 STA. 33+90.62

RETAINING WALL RW13 (SEE RETAINING WALL PLANS)
RET. WALL RW31 (SEE RETAINING WALL PLANS)
RETAINING WALL RW33 (SEE RETAINING WALL PLANS)

BEGIN BRIDGE B-6XX
℄ DTR_RMP_E1 STA. 30+29.48

EXISTING NOISE BARRIER TO REMAIN

END CONSTRUCTION
DTR RAMP E3
END ℄ DTR_RMP_E3
POT 25+78.42 -
℄ DTR_RMP_E1
STA. 36+53.02, 24.00' RT

BEGIN CONSTRUCTION
I-495 GP LANES NORTHBOUND
℄ 495GP_NB PC 1069+62.75

BEGIN CONSTRUCTION
DTR RAMP GIO
℄ DTR_RMP_GIO PCC 17+70.00

SWM DTR-B BIORETENTION

MATCHLINE 495XL_SB STA 153+50.00
495XL_NB STA 553+50.00
495GP_NB STA 1057+00.00
SEE PLAN SHEET 3

MATCHLINE DTR_RMP_E1 STA 28+50.00
DTR_RMP_G3 STA 44+50.00
SEE PLAN SHEET 3

MATCHLINE DTR_RMP_E3 STA 23+00.00
SEE PLAN SHEET 19

MATCHLINE DTR_RMP_GIO STA 18+50.00
SEE PLAN SHEET 5

MATCHLINE
495XL_SB STA 167+50.00
495XL_NB STA 567+50.00
495GP_NB STA 1057+00.00
DTR_RMP_E1 STA 44+25.00
SEE PLAN SHEET 5

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	4

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES NORTHBOUND

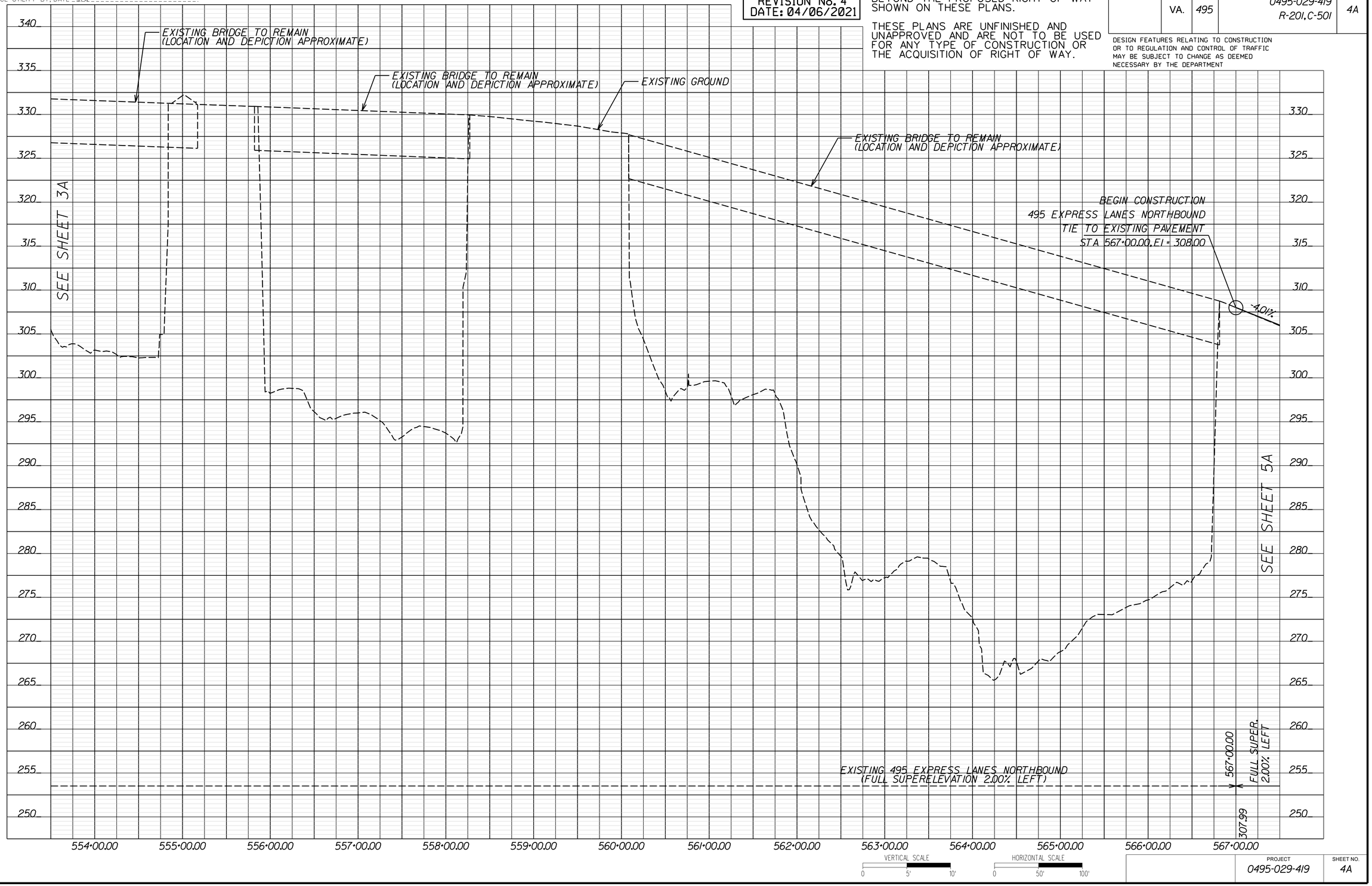
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	4A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	4A

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

495 EXPRESS LANES SOUTHBOUND

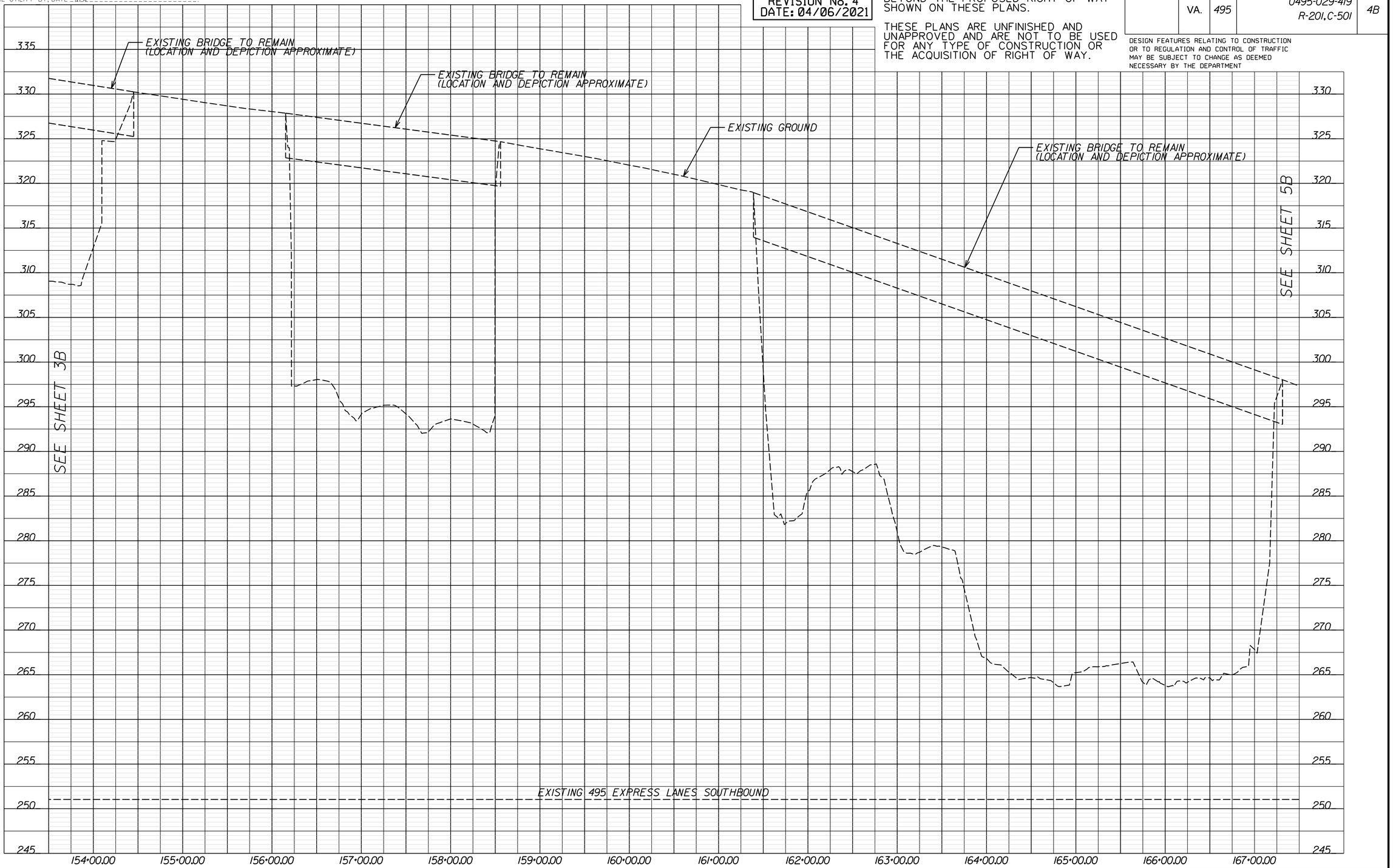
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	4B

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	4B

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DTR RAMP E1

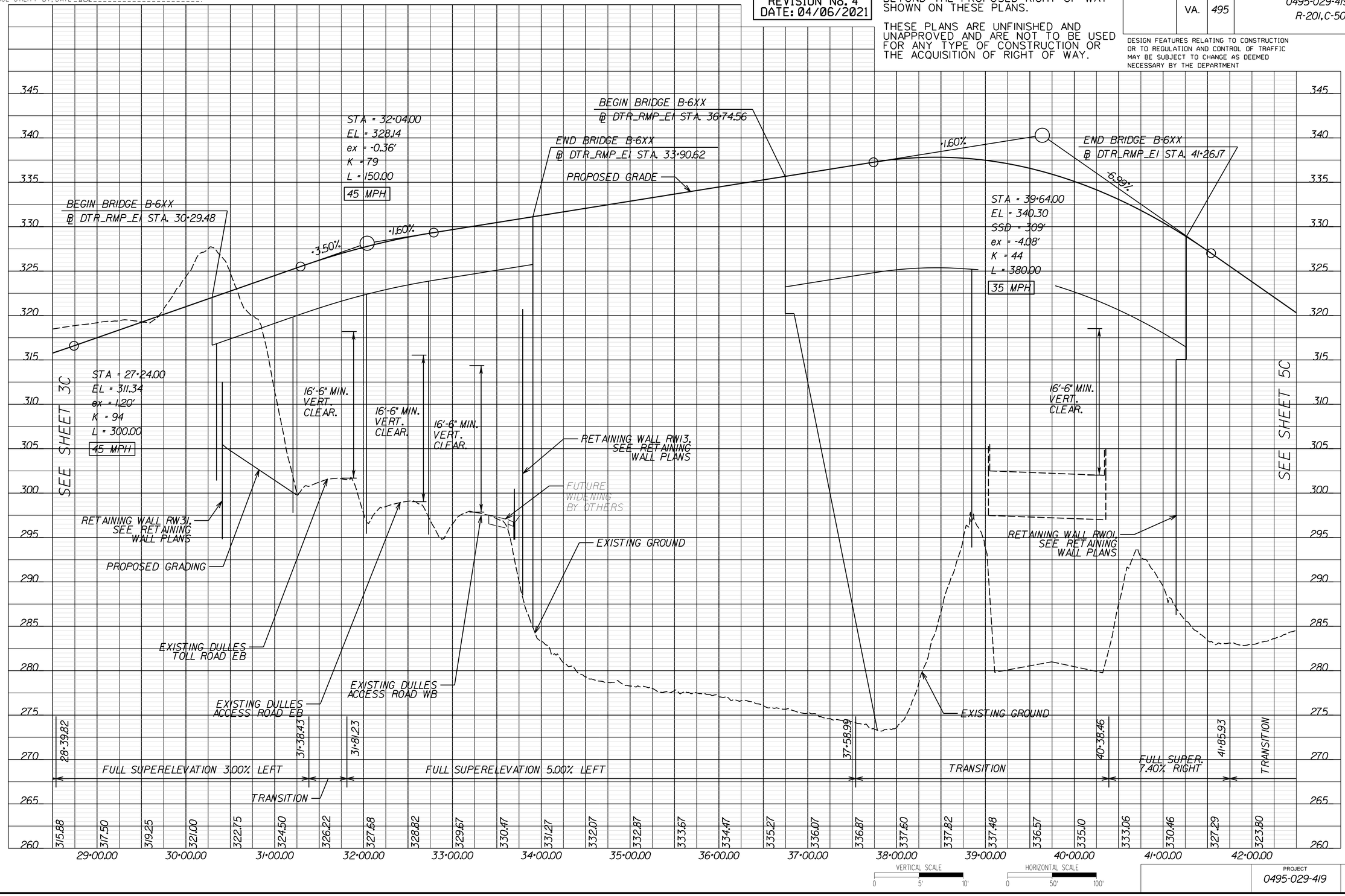
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	4C

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.
0495-029-419	4C

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DTR RAMP E3

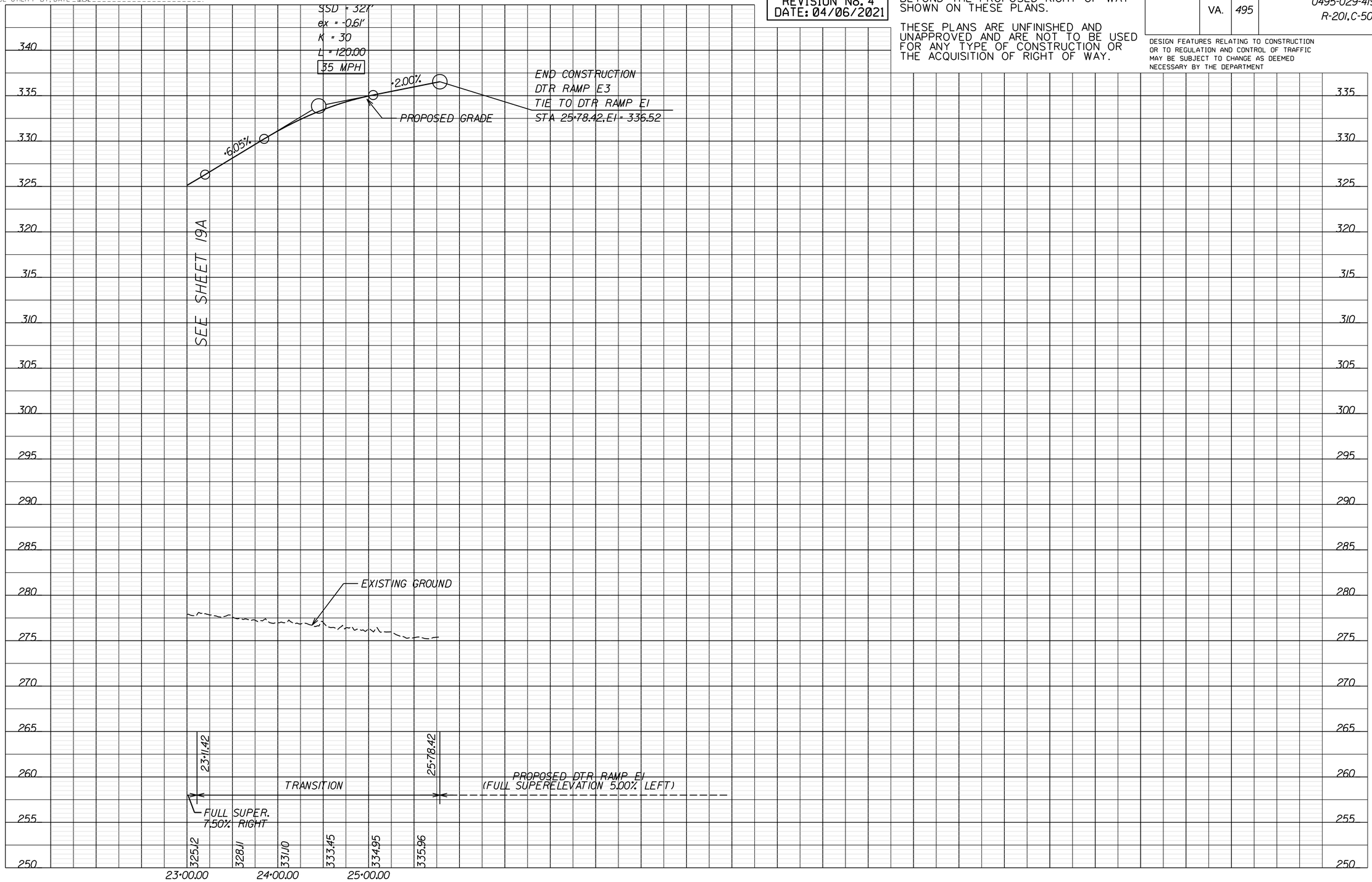
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	4D

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	4D

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

DTR RAMP G10

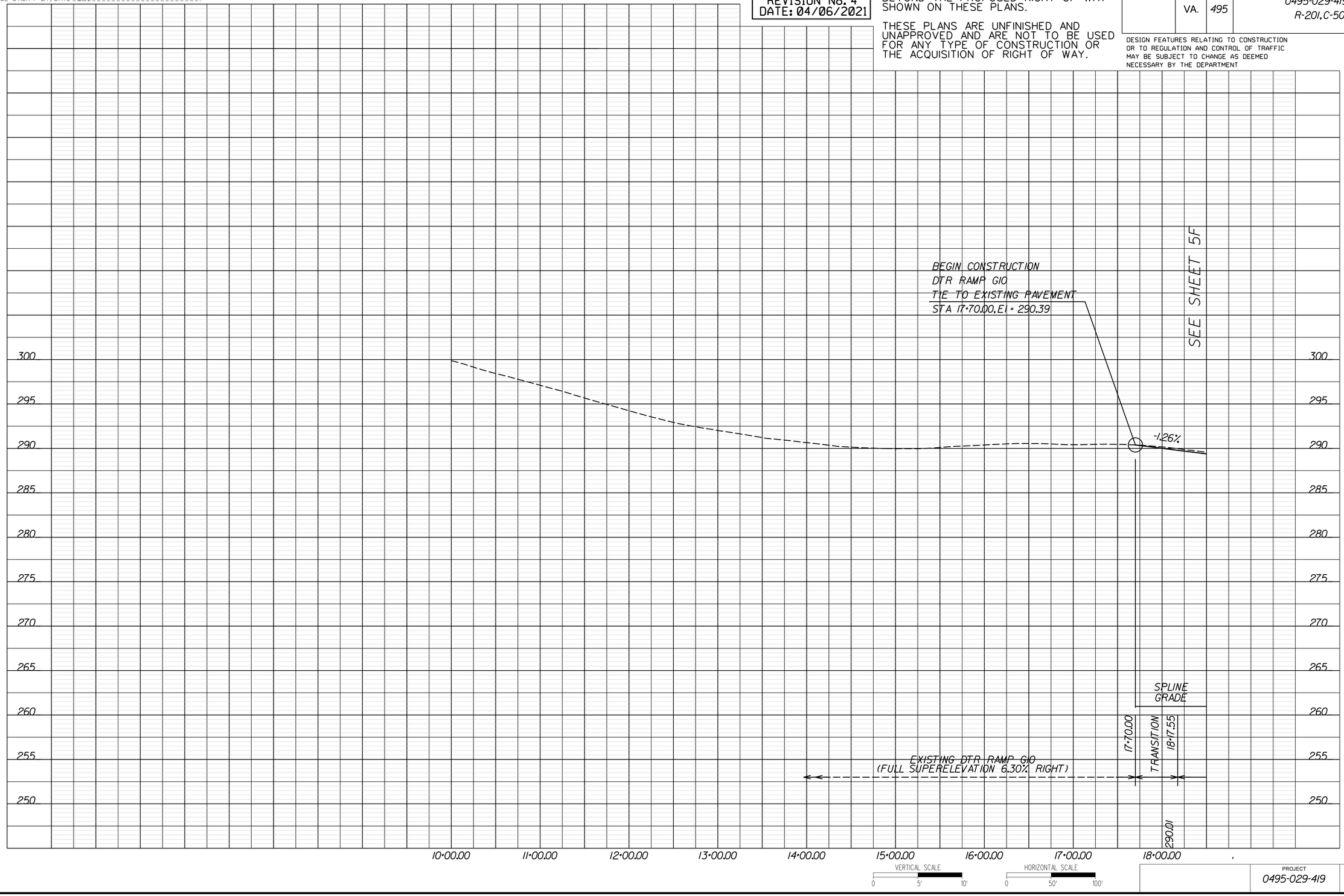
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	4E

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	4E

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

I-495 GP LANES NORTHBOUND

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	4F

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

SEE SHEET 3E

SEE SHEET 5E

EXISTING BRIDGE TO REMAIN (LOCATION AND DEPICTION APPROXIMATE)

EXISTING BRIDGE TO REMAIN (LOCATION AND DEPICTION APPROXIMATE)

EXISTING GROUND

BEGIN CONSTRUCTION
495 GP NORTHBOUND
TIE TO EXISTING PAVEMENT
STA 1069+62.75, El = 295.57

-2.38%

-2.30%

495GP_NB PROPOSED GRADE

EXISTING PAVEMENT (NORMAL CROWN)

1069+62.75

NORMAL CROWN

294.71

293.56

340 335 330 325 320 315 310 305 300 295 290 285 280 275 270 265 260 255

1057+00.00 1058+00.00 1059+00.00 1060+00.00 1061+00.00 1062+00.00 1063+00.00 1064+00.00 1065+00.00 1066+00.00 1067+00.00 1068+00.00 1069+00.00 1070+00.00 1071+00.00

VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	4F

Thursday, April 01, 2021 05:56:22 PM
5:56:22 PM

dxxxxxxsht-04RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	4RW

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

LEGEND

- CONSTRUCTION LIMITS IN CUTS
- CONSTRUCTION LIMITS IN FILLS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT
- PROPOSED SWM AREA
- EXISTING RIGHT OF WAY PROPERTY LINES
- Proposed R/W — PROPOSED RIGHT OF WAY
- Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
- Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT

DTR RAMP E6
495 EXPRESS LANES SOUTHBOUND
RAMP TO SCOTTS CROSSING ROAD
RAMP FROM SCOTTS CROSSING ROAD
495 EXPRESS LANES NORTHBOUND
DTR RAMP E5
SCOTTS RUN
DTR RAMP G2
DULLES INTERNATIONAL AIRPORT ACCESS HIGHWAY EASTBOUND
DULLES INTERNATIONAL AIRPORT ACCESS HIGHWAY WESTBOUND
I-495 GP LANES NORTHBOUND
DULLES TOLL ROAD EASTBOUND
DULLES TOLL ROAD WESTBOUND
DTR RAMP G3
DTR RAMP E3
DTR RAMP G10
Exist. FAA R/W
Exist. VDOT R/W & L/A Line
Per VDOT Highway Plan 0413-029-007, RW-1
PW Mon.

MATCHLINE 495XL_SB STA 153+50.00 495XL_NB STA 553+50.00 495GP_NB STA 1057+00.00 SEE PLAN SHEET 3RW

MATCHLINE 495XL_SB STA 167+50.00 495XL_NB STA 567+50.00 495GP_NB STA 1057+00.00 DTR_RMP_E1 STA 44+50.00 SEE PLAN SHEET 5RW

MATCHLINE DTR_RMP_G10 STA 18+50.00 SEE PLAN SHEET 5RW

MATCHLINE DTR_RMP_E1 STA 28+50.00 DTR_RMP_G3 STA 44+50.00 SEE PLAN SHEET 3RW

MATCHLINE DTR_RMP_E3 STA 23+00.00 SEE PLAN SHEET 19RW

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100'	PROJECT 0495-029-419	SHEET NO. 4RW

Thursday, April 01, 2021 05:56:34 PM
5:56:34 PM

dxxxxxxsht-05.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISIONS		
No.	Description	Date
2	Updated SWM access road	12/18/2020
4	Revised Lewinsville SUP Alignment. Added Crosswalk on Lewinsville Road	04/06/2021

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	5

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

BEGIN CONSTRUCTION
LEWINSVILLE SHARED USE PATH
BEGIN ℄ LEW_TRL POC 9+91.98

BEGIN ℄ LEW_TRL POC 9+00.00

END CONSTRUCTION
DULLES TOLL ROAD RAMP E1
END ℄ DTR_RMP_E1 PT 50+02.57 =
℄ 495XL_NB STA. 573+26.69, 12.00' RT.

END CONSTRUCTION
DULLES TOLL ROAD RAMP G10
END ℄ DTR_RMP_G10 POT 25+63.54 =
℄ 495GP_NB STA. 1078+22.23, 48.00' RT.

LEWINSVILLE ROAD VA RTE 694

TIMBERLY LN

041

090

I-495 GP LANES SOUTHBOUND

495 EXPRESS LANES SOUTHBOUND

I-495 GP LANES NORTHBOUND

495 EXPRESS LANES NORTHBOUND

SCOTTS RUN

DTR RAMP E1

DTR RAMP G10

℄ 495XL_SB

℄ 495XL_NB

℄ 495GP_NB

℄ DTR_RMP_E1

℄ DTR_RMP_G10

℄ LEW_TRL

EXISTING NOISE BARRIER TO REMAIN

EXISTING BRIDGE TO REMAIN

SWM FACILITY ACCESS FROM TRAIL

Proposed Perm. Esmt.

Proposed R/W

SWM-1B DRY SWALE

EXISTING NOISE BARRIER TO REMAIN

PROPOSED NOISE BARRIER 13B

MATCHLINE LEW_TRL STA 15+50.00 SEE PLAN SHEET 6

RETAINING WALL RW01 (SEE RETAINING WALL PLANS)

RETAINING WALL RW32 (SEE RETAINING WALL PLANS)

RETAINING WALL RW03 (SEE RETAINING WALL PLANS)

SWM-1A BIORETENTION

PROPOSED NOISE BARRIER 13D

PROPOSED CLASS I RIPRAP WITH GEOTEXTILE

580' Acceleration Lane

925' Acceleration Lane

300' Taper

MATCHLINE 495XL_SB STA 167+50.00 495XL_NB STA 567+50.00 495GP_NB STA 1057+40.00 DTR_RMP_E1 STA 44+50.00 SEE PLAN SHEET 4

MATCHLINE DTR_RMP_G10 STA 18+50.00 SEE PLAN SHEET 4

MATCHLINE 495XL_SB STA 181+50.00 495XL_NB STA 581+50.00 495GP_NB STA 1085+00.00 SEE PLAN SHEET 6

Exist. VDOT R/W & L/A Line Per Highway Plan 0495-029-138, R201

Exist. R/W & L/A Line Per Highway Plan 0413-029-007, RW-1

Exist. FAA R/W & L/A Line

Exist. VDOT R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-1

Exist. FAA R/W

Approximate Culvert Location

Temp. Const. Esmt.

PRIVATE CONSERVATION EASEMENT

Exist. R/W Per VDOT Highway Plan 0413-029-007, RW-1

Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-1

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	5

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES NORTHBOUND

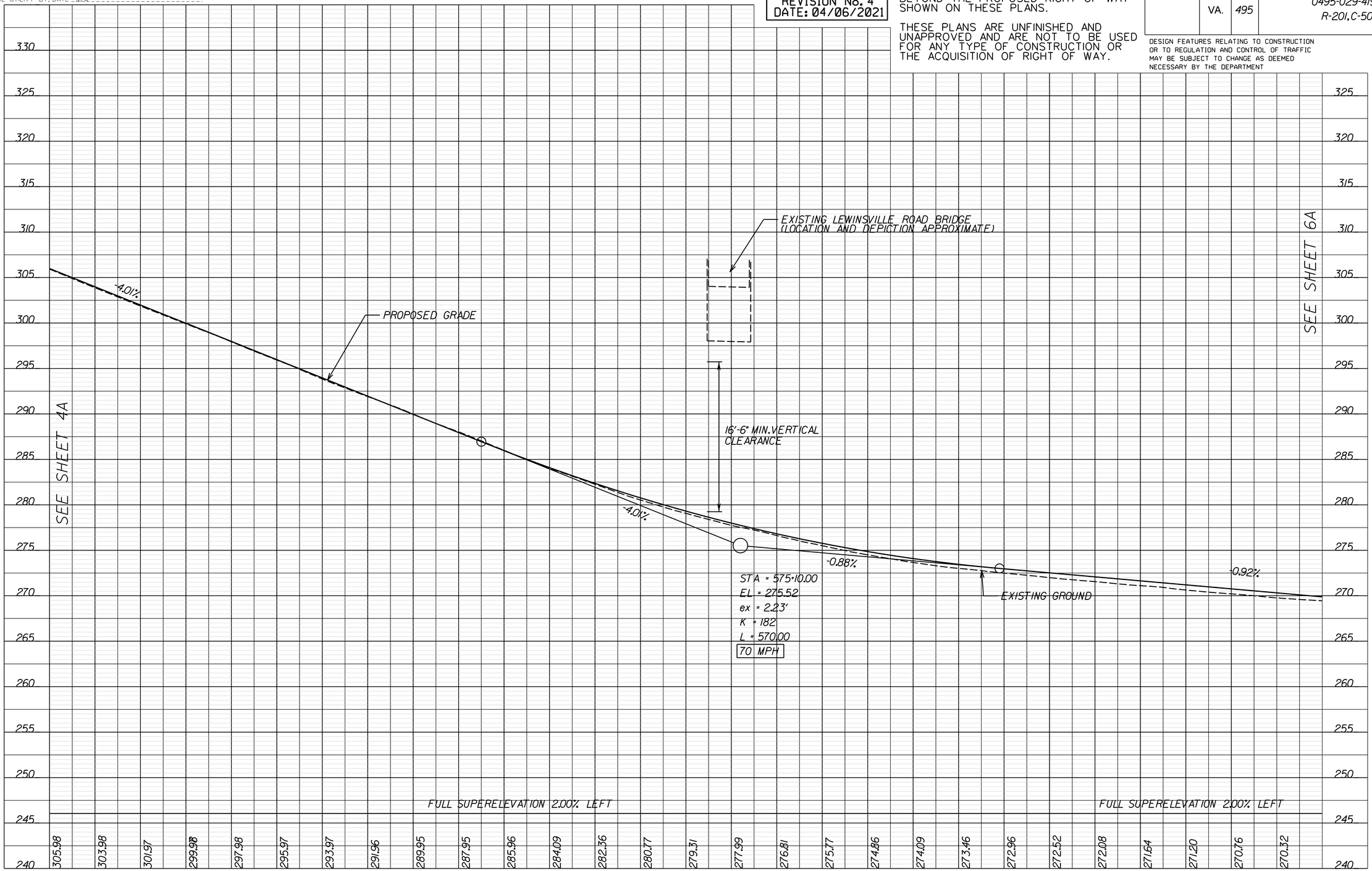
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	5A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	5A

Thursday, April 01, 2021 05:56:51 PM
5:56:51 PM

dxxxxxxsht-05B.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES SOUTHBOUND

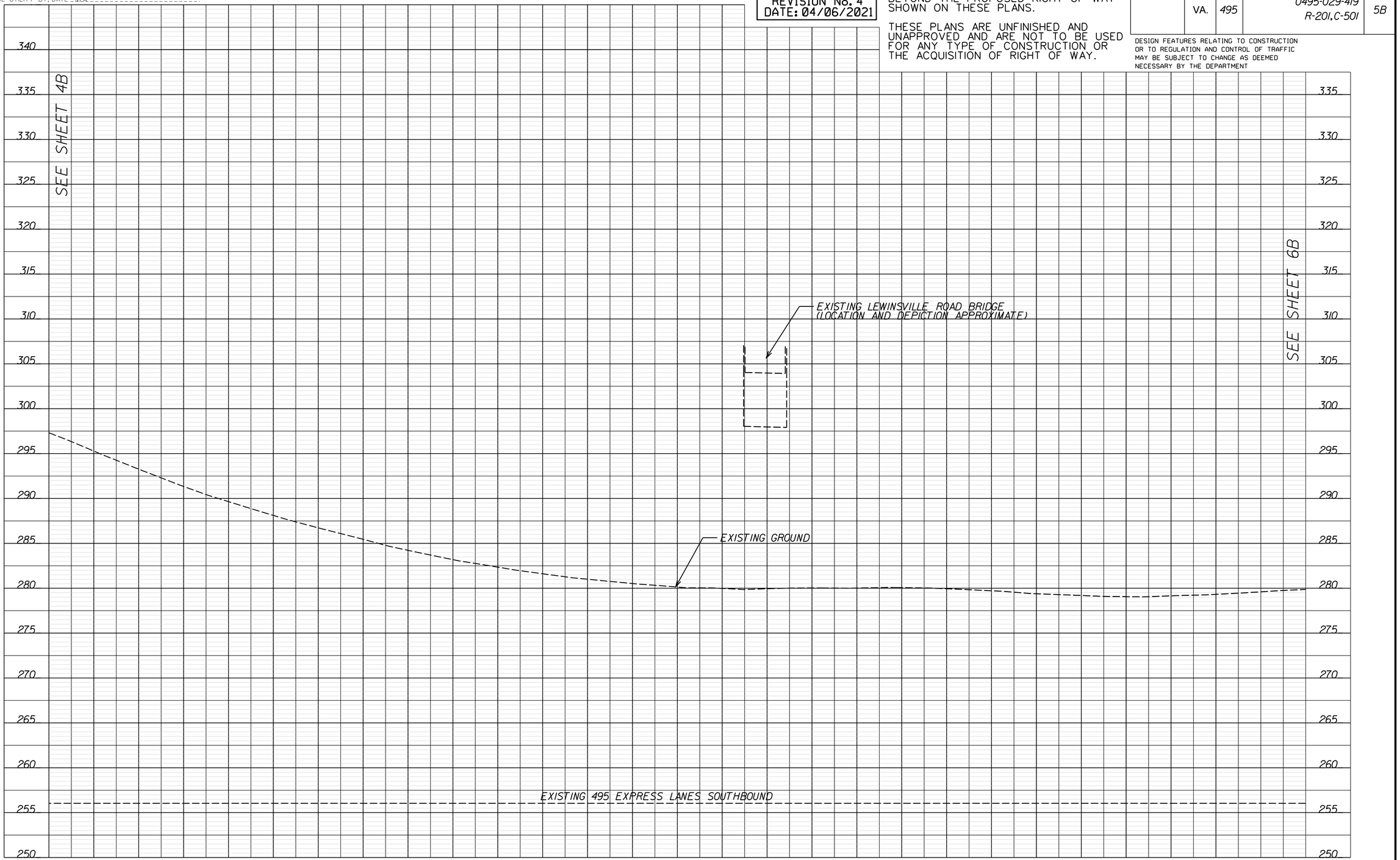
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	5B

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



VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	5B

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DTR RAMP E1

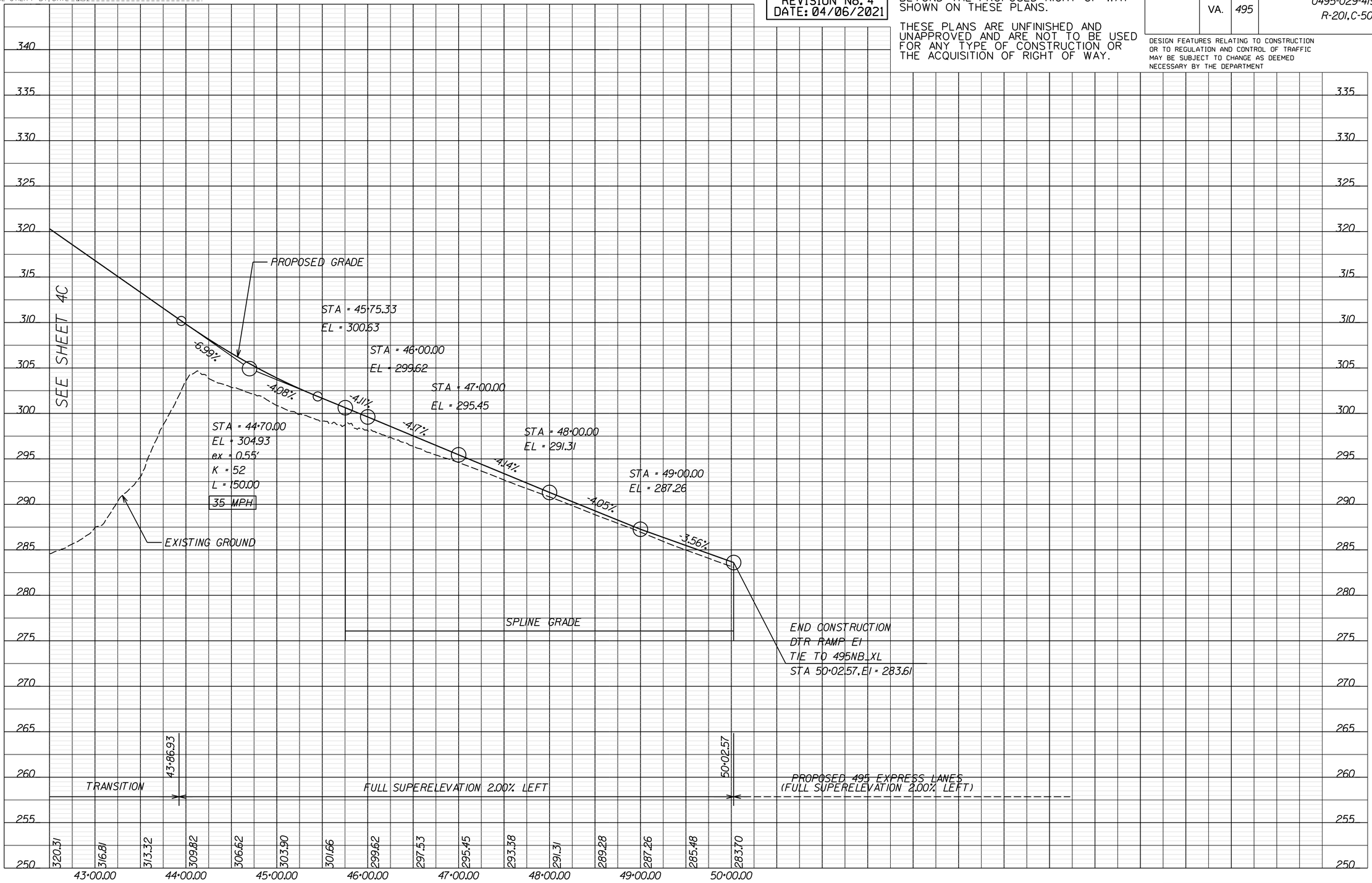
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	5C

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	5C

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	5D

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

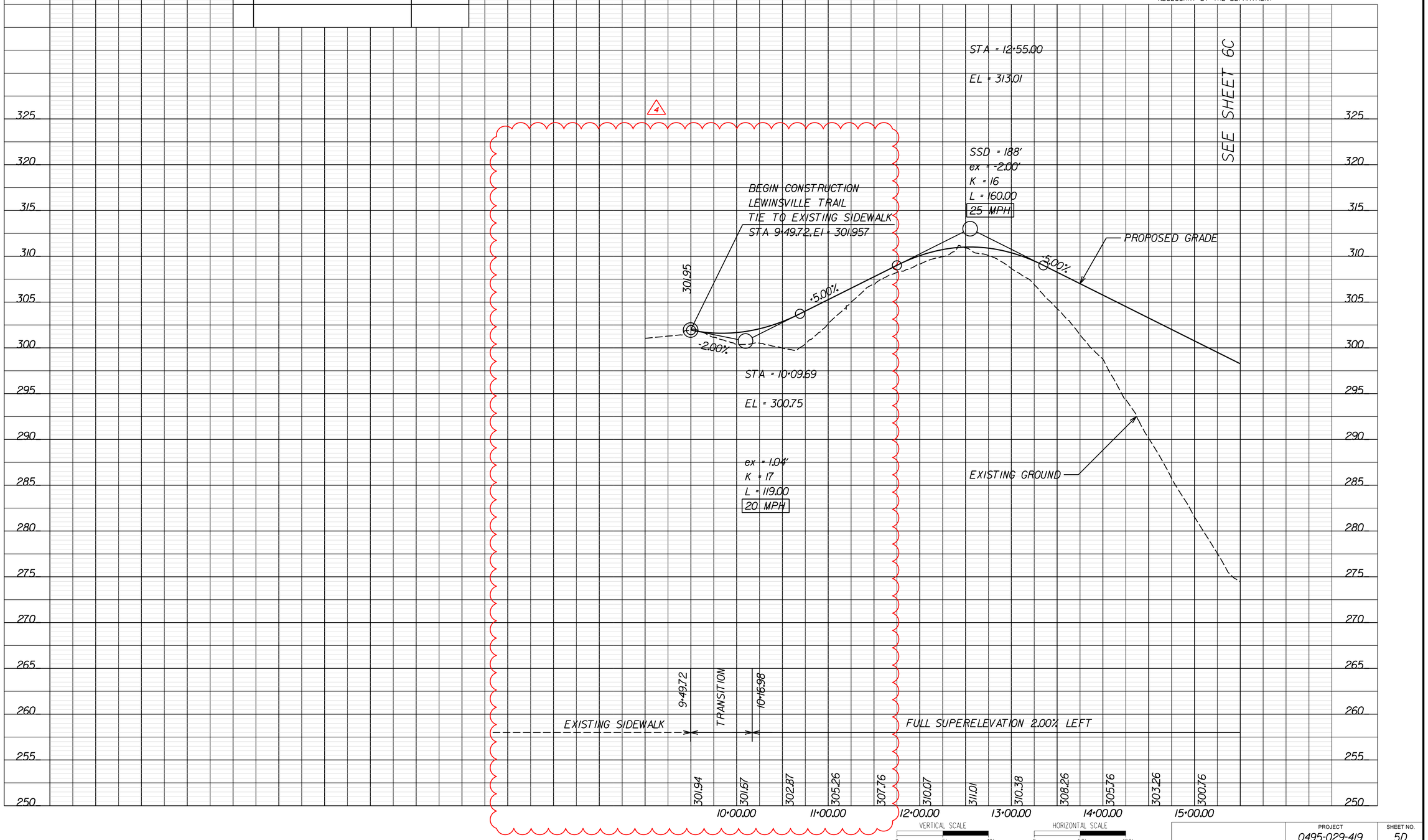
LEWINSVILLE SHARED USE PATH

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
4	Revised Lewinsville SUP Alignment and Profile	04/06/2021



VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	5D

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

I-495 GP LANES NORTHBOUND

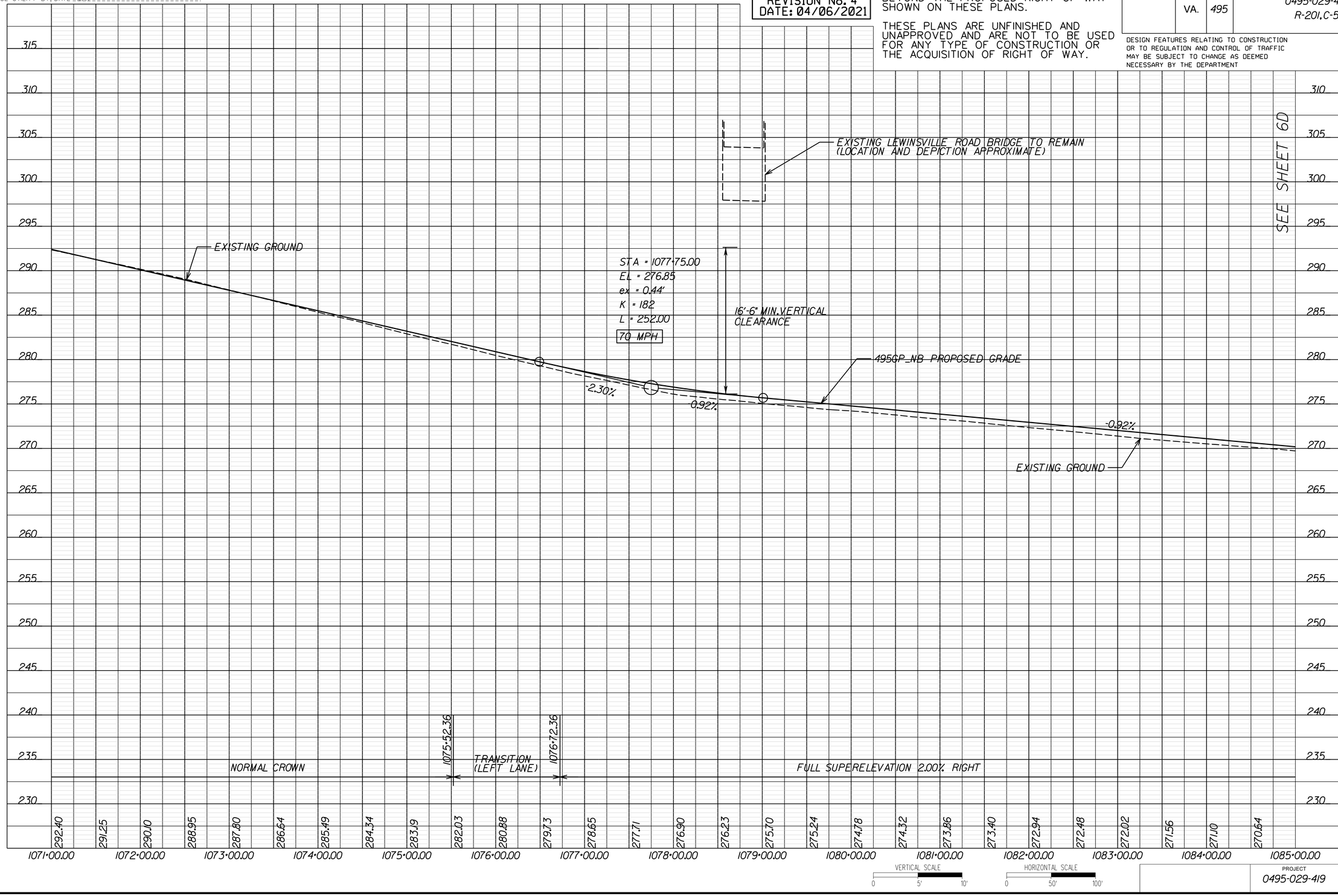
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	5E

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



VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	5E

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DTR RAMP GIO

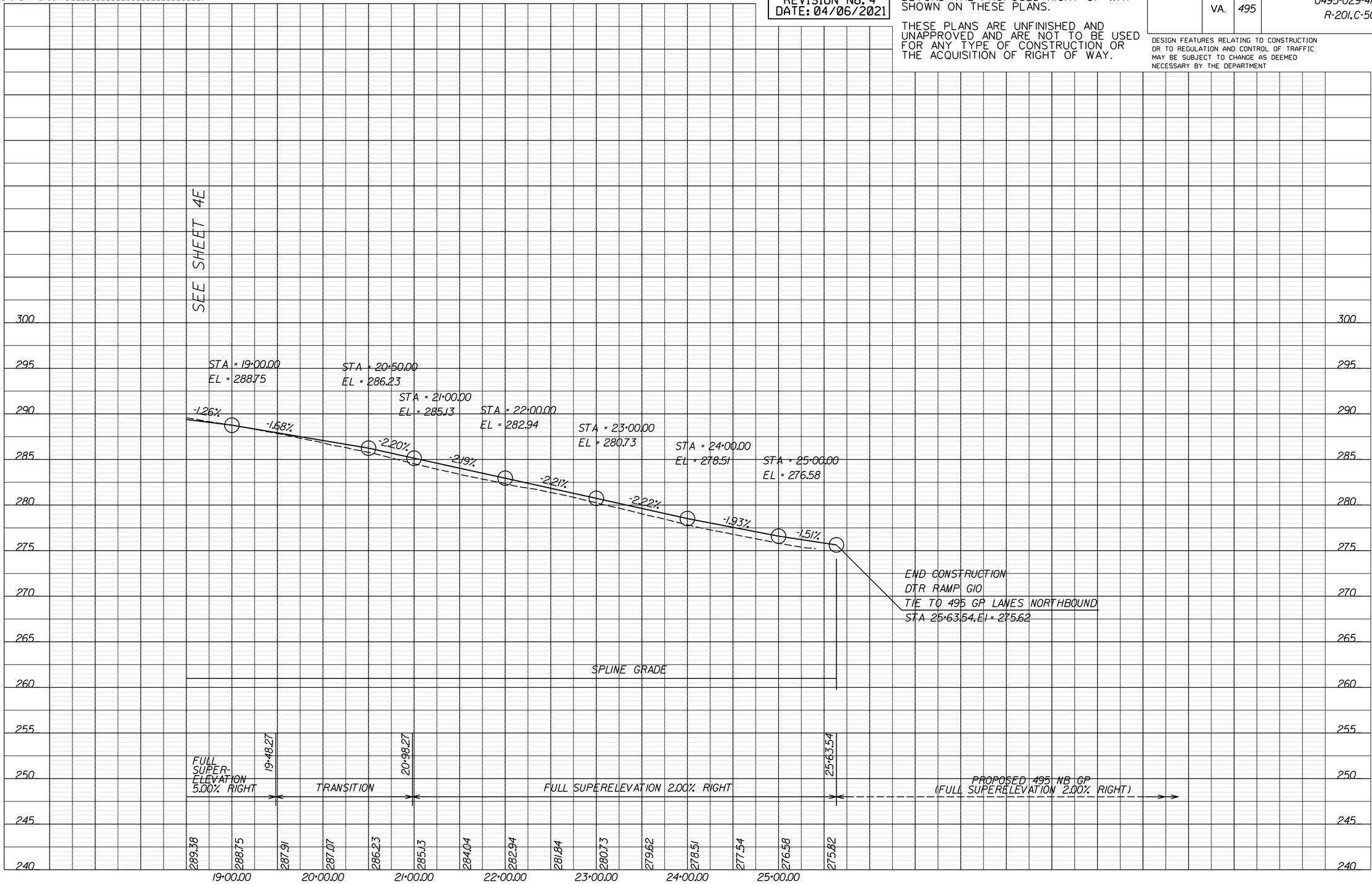
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	5F

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	5F

Thursday, April 01, 2021 05:57:27 PM
5:57:27 PM

dxxxxxxsht-05RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY

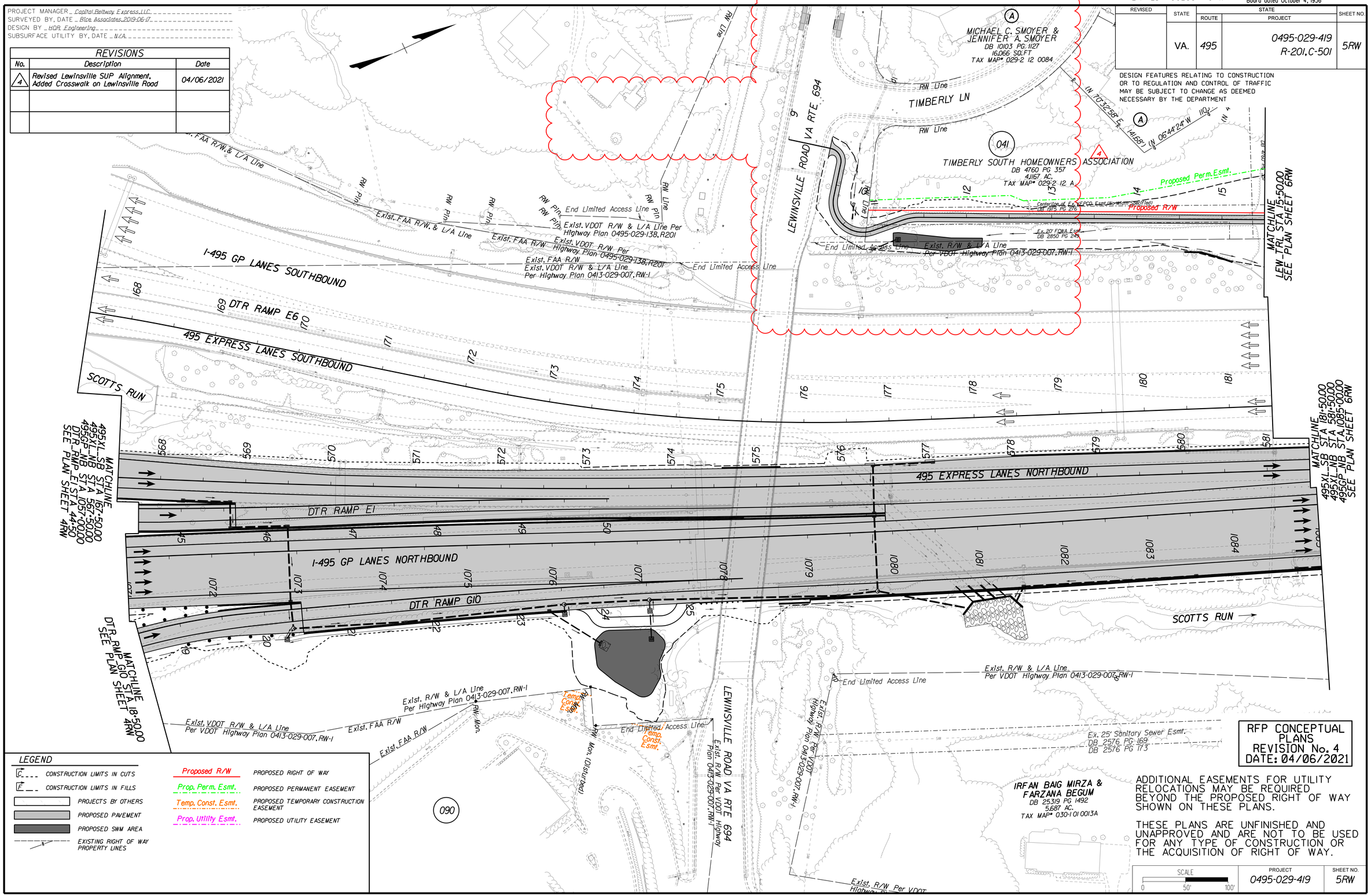
By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	5RW

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 Capital Beltway Express, LLC
SURVEYED BY, DATE Rice Associates, 2019-06-17
DESIGN BY HDR Engineering
SUBSURFACE UTILITY BY, DATE N/A

REVISIONS		
No.	Description	Date
4	Revised Lewinsville SUP Alignment, Added Crosswalk on Lewinsville Road	04/06/2021



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LEGEND

C	CONSTRUCTION LIMITS IN CUTS
F	CONSTRUCTION LIMITS IN FILLS
	PROJECTS BY OTHERS
	PROPOSED PAVEMENT
	PROPOSED SWM AREA
	EXISTING RIGHT OF WAY PROPERTY LINES
Proposed R/W	PROPOSED RIGHT OF WAY
Prop. Perm. Esmt.	PROPOSED PERMANENT EASEMENT
Temp. Const. Esmt.	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
Prop. Utility Esmt.	PROPOSED UTILITY EASEMENT

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	5RW

Thursday, April 01, 2021 05:57:38 PM
5:57:38 PM

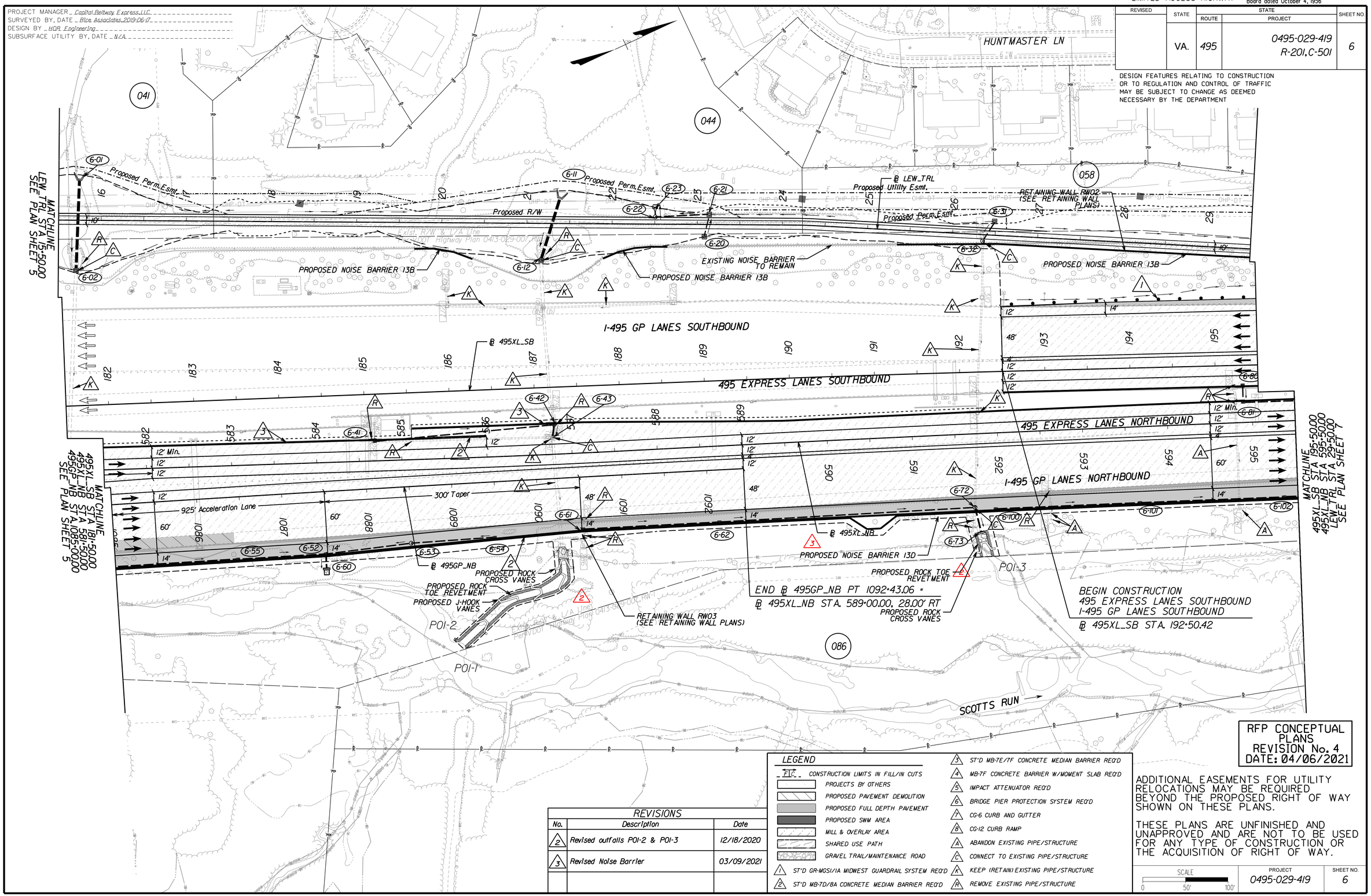
dxxxxxxsht-06.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	6

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



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

REVISIONS		
No.	Description	Date
2	Revised outfalls POI-2 & POI-3	12/18/2020
3	Revised Noise Barrier	03/09/2021

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	6

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES NORTHBOUND

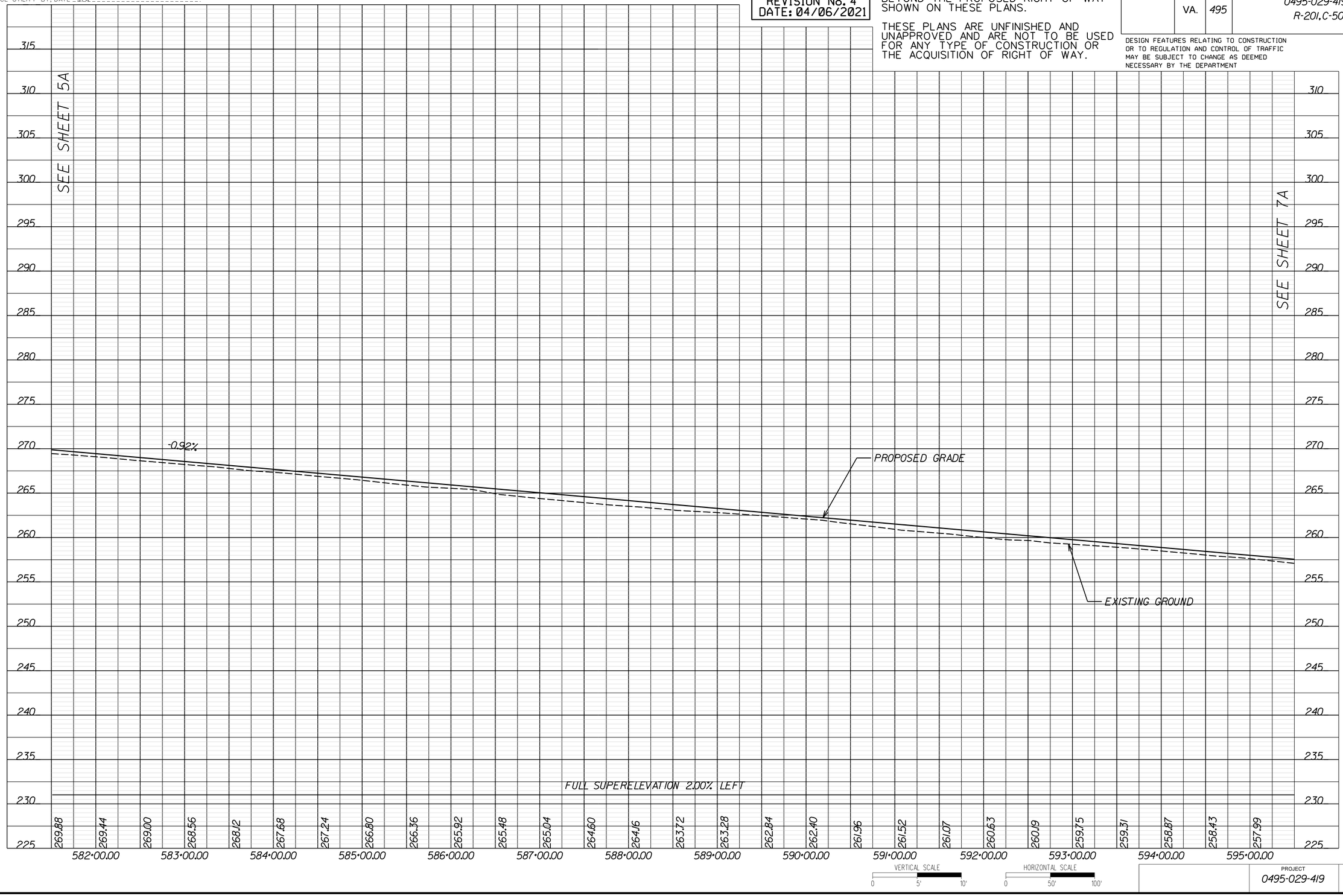
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	6A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	6A

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES SOUTHBOUND

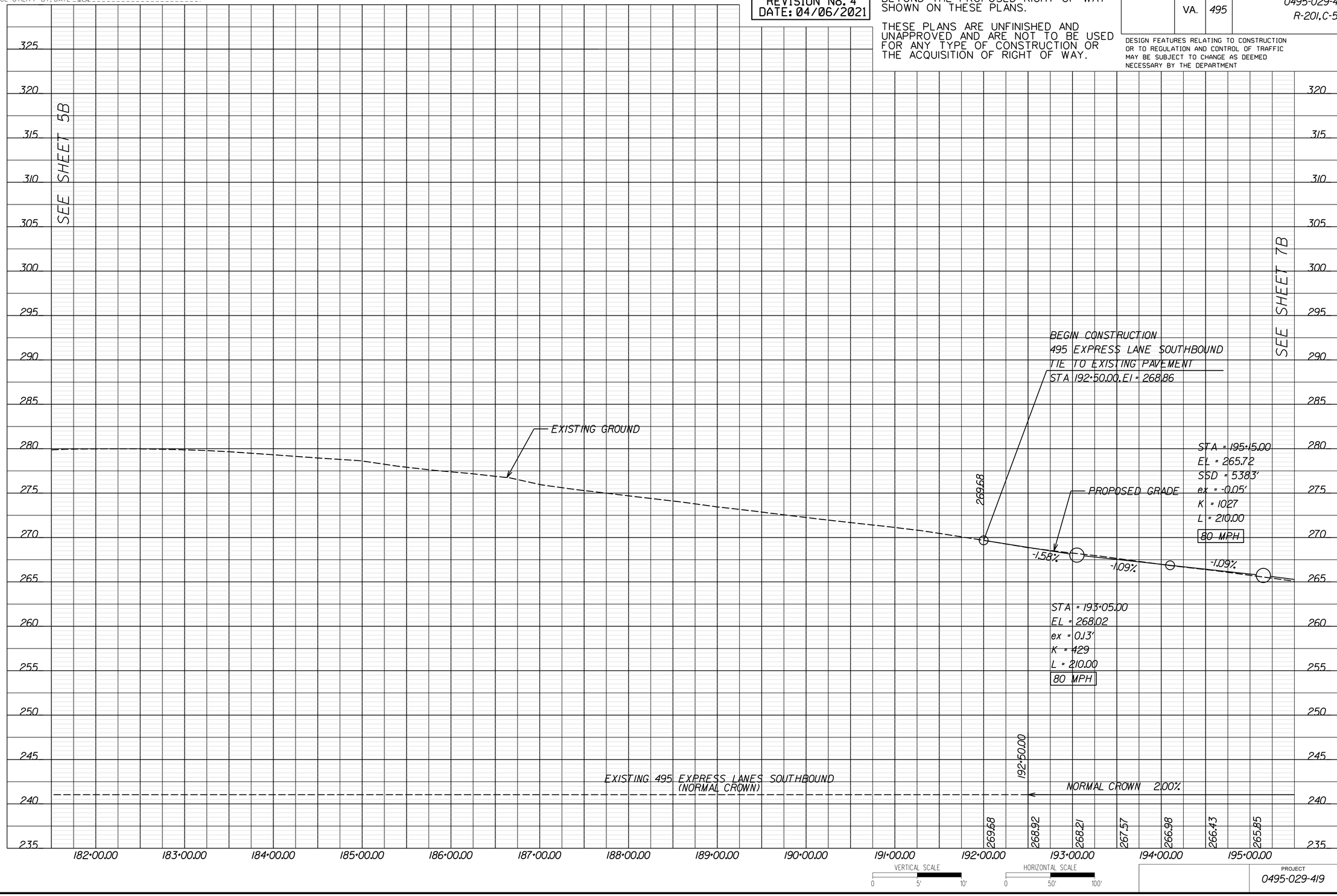
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	6B

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	6B

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

LEWINSVILLE SHARED USE PATH

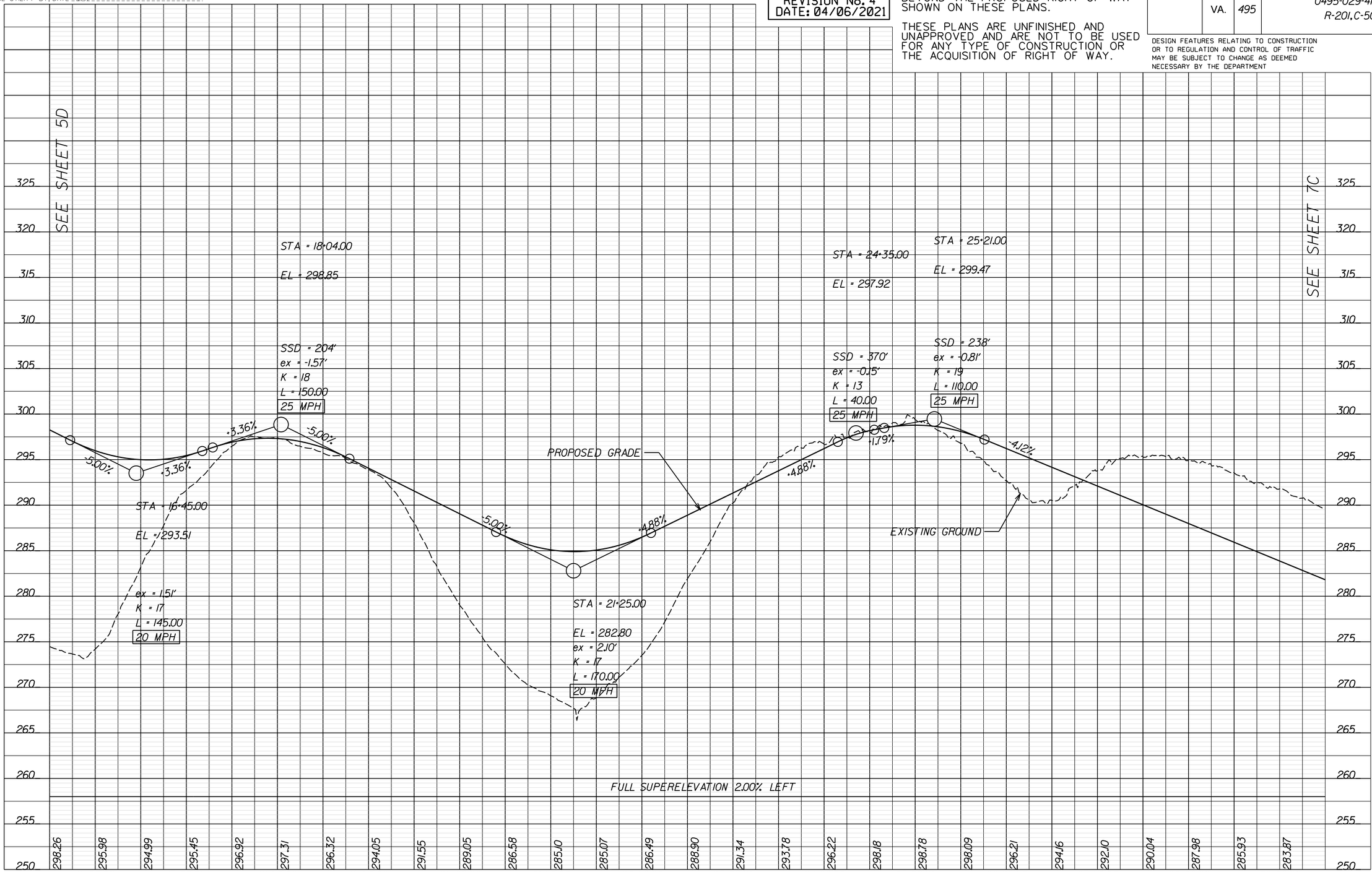
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	6C

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	6C

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

I-495 GP LANES NORTHBOUND

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

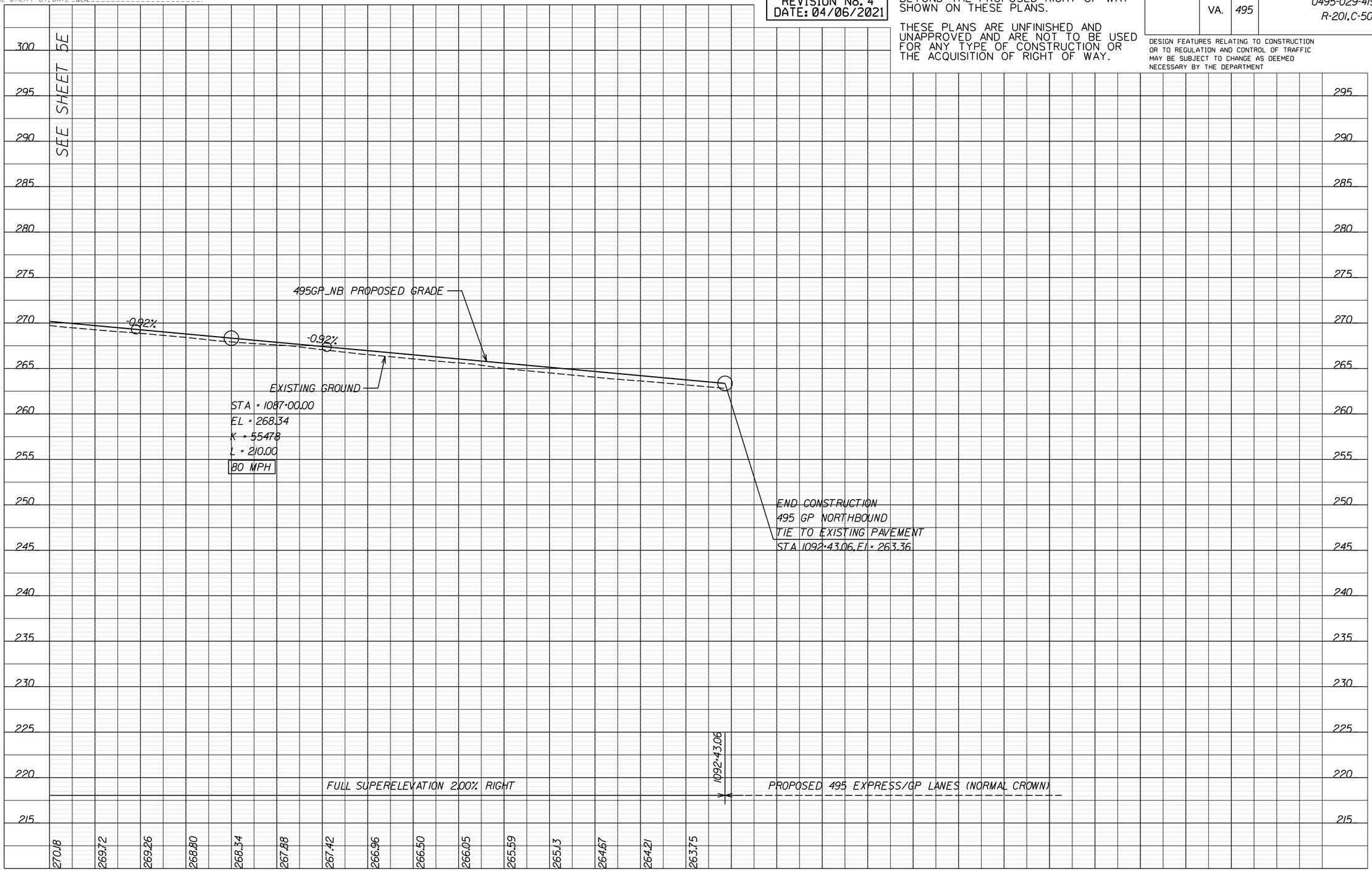
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	6D

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

SEE SHEET 5E



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	6D

Thursday, April 01, 2021 05:58:12 PM
5:58:12 PM

dxxxxxxsht-06RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	6RW

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

041
TIMBERLY SOUTH HOMEOWNERS ASSOCIATION
DB 4760 PG 357
4.1167 AC.
TAX MAP# 029-2 12 A

JUNUIS S. MORGAN & PATRICIA M. MORGAN
DB 15249 PG 1398
12,738 SQ.FT.
TAX MAP# 029-2 12 0005

044
TIMBERLY SOUTH HOMEOWNERS ASSOCIATION
DB 4954 PG 721
3.6821 AC.
TAX MAP# 029-2 12 C

MATTHEW J. GIBNEY, III, TRUSTEE & SHEILA A. GIBNEY, TRUSTEE
DB 22087 PG 1626
13,620 SQ.FT
TAX MAP# 030-1 21 0035

MAGDA KANDIL MOHAMMED SARHAN
DB 11051 PG 1936
12,784 SQ.FT
TAX MAP# 030-1 21 0034

GEOFFREY TOKAJER & ERIN TOKAJER
DB 25670 PG 844
10,700 SQ.FT
TAX MAP# 030-1 21 0033

RAJAT VARDHAN ADITI VARDHAN
DB 21978 PG 1253
10,501 SQ.FT
TAX MAP# 030-1 21 0032

KEH-CHUN LEU, TRUSTEE & LUNGCHING CHIAO, TRUSTEE
DB 24099 PG 1713
10,501 SQ.FT
TAX MAP# 030-1 21 0031

B
CHRISTOPHER D. PAKSTYS, TRUSTEE & KIMBERLY CLARK PAKSTYS, TRUSTEE
DB 21603 PG 1609
10,564 SQ.FT
TAX MAP# 030-1 21 0030

058
TIMBERLY SOUTH HOMEOWNERS ASSOCIATION
DB 5155 PG 331
5.545 AC.
TAX MAP# 030-1 21 D

086
THE PRESERVE AT SCOTTS RUN HOMEOWNERS ASSOCIATION
DB 21927 PG 898
400,843 SQ.FT
TAX MAP# 030-1 33 D

IRFAN BAIG MIRZA & FARZANA BEGUM
DB 25319 PG 1492
5.687 AC.
TAX MAP# 030-1 01 0013A

HUNTMASTER LN
SCOTTS RUN

I-495 GP LANES SOUTHBOUND
495 EXPRESS LANES SOUTHBOUND
495 EXPRESS LANES NORTHBOUND
I-495 GP LANES NORTHBOUND

Ex. 10' Sanitary Sewer Esmt. DB 4760 PG 357
Ex. 10' Sanitary Sewer Esmt. DB 4954 PG 721
Ex. 10' Sanitary Sewer Esmt. DB 4760 PG 357
Ex. 10' Sanitary Sewer Esmt. DB 5155 PG 331
Ex. 25' Sanitary Sewer Esmt. DB 2576 PG 169 DB 2576 PG 173
Ex. 10' Trail Esmt. DB 23298 PG 718
Ex. Private Conservation Esmt. DB 19319 PG 125
Ex. Private Conservation Esmt. DB 19319 PG 125
Ex. Flood Plain & Storm Drainage Esmt.
Ex. Flood Plain & Storm Drainage Esmt.
Centerline of "Ex. VEPCO Esmt. No Width Specified" DB 1975 PG 276
Centerline of "Ex. VEPCO Esmt. No Width Specified" DB 1975 PG 276
Proposed Perm. Esmt.
Proposed Perm. Esmt.
Proposed R/W
Proposed Utility Esmt.
Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-1
Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-1

MATCHLINE LEW-TRL STA 15+5000 SEE PLAN SHEET 5RW

MATCHLINE 495XL-SB STA 181+5000 495XL-NB STA 581+5000 495GP_NB STA 1085+0000 SEE PLAN SHEET 5RW

MATCHLINE 495XL-SB STA 195+5000 495XL-NB STA 595+5000 LEW-TRL STA 29+5000 SEE PLAN SHEET 7RW

(N 15°17'56" W 137.65')
(N 67°17'08" E 46.62')
(S 59°28'40" E 19.41')
(N 24°14'57" E 121.74')
(137.00')
(N 27°48'05" W 129.24')
(N 24°10'30" E 420.26')
(132.57')
(92.38')
(90.66')
(13.99')
(81.02')
(90.88')
(N 65°29'55" E 141.87')
(N 41°41'13" W 144.18')
(N 65°39'30" W 115.83')
(N 65°39'30" W 115.83')
(N 65°39'30" W 115.83')
(N 65°39'30" W 115.83')
(N 65°39'30" W 101.57')
(N 65°39'30" W 101.57')
(S 65°39'30" E 115.83')
(S 24°18'47" W 115.83')
(S 15°46'58" W 529.92')
(S 25°04'44" W 663.99')
N 00°00'00" E 130.00'
(N 17°06'58" W 125.16')

REVISIONS

No.	Description	Date
2	Revised outfalls P01-2 & P01-3	12/18/2020

LEGEND

- C ---- CONSTRUCTION LIMITS IN CUTS
- F ---- CONSTRUCTION LIMITS IN FILLS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT
- PROPOSED SWM AREA
- EXISTING RIGHT OF WAY / PROPERTY LINES
- Proposed R/W — PROPOSED RIGHT OF WAY
- Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
- Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	6RW

Thursday, April 01, 2021 05:58:30 PM
5:58:30 PM

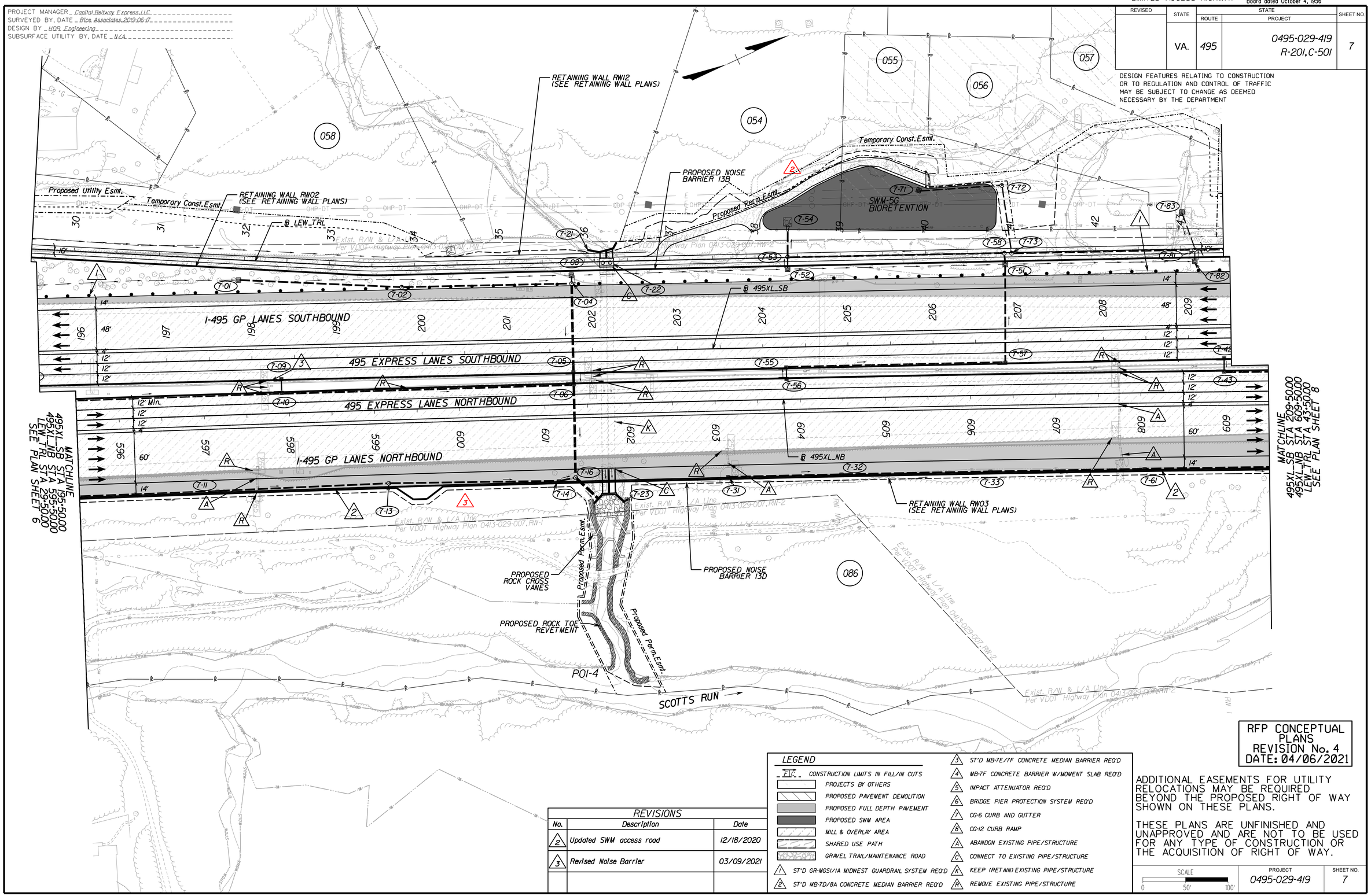
dxxxxxxsht-07.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	7

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



REVISIONS		
No.	Description	Date
2	Updated SWM access road	12/18/2020
3	Revised Noise Barrier	03/09/2021

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	7

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES NORTHBOUND

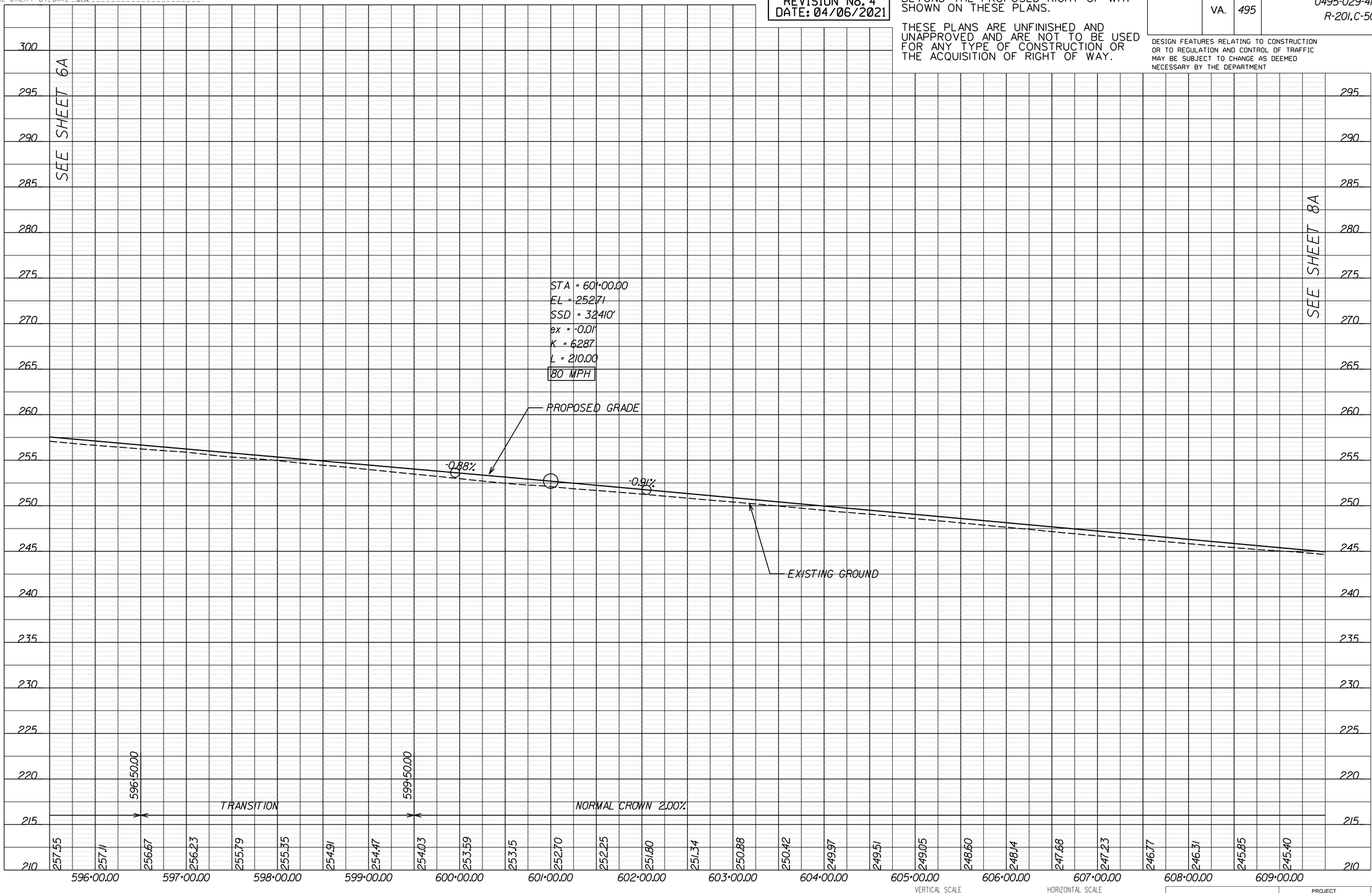
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	7A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	7A

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES SOUTHBOUND

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	7B

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

SEE SHEET 6B

SEE SHEET 8B

STA = 195+15.00
EL = 265.72
SSD = 538.3'
ex = -0.05'
K = 10.27
L = 210.00
80 MPH

-1.30%

-1.30%

EXISTING GROUND

PROPOSED GRADE

NORMAL CROWN 2.00%

STA = 208+
EL = 247.89
ex = 0.01'
K = 40.26
L = 210.00

305 300 295 290 285 280 275 270 265 260 255 250 245 240 235 230 225 220 215

265.25 264.62 263.97 263.33 262.68 262.03 261.38 260.73 260.08 259.44 258.79 258.14 257.49 256.84 256.19 255.54 254.90 254.25 253.60 252.95 252.30 251.65 251.01 250.36 249.71 249.06 248.42 247.78

196+00.00 197+00.00 198+00.00 199+00.00 200+00.00 201+00.00 202+00.00 203+00.00 204+00.00 205+00.00 206+00.00 207+00.00 208+00.00 209+00.00

VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	7B

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

LEWINSVILLE SHARED USE PATH

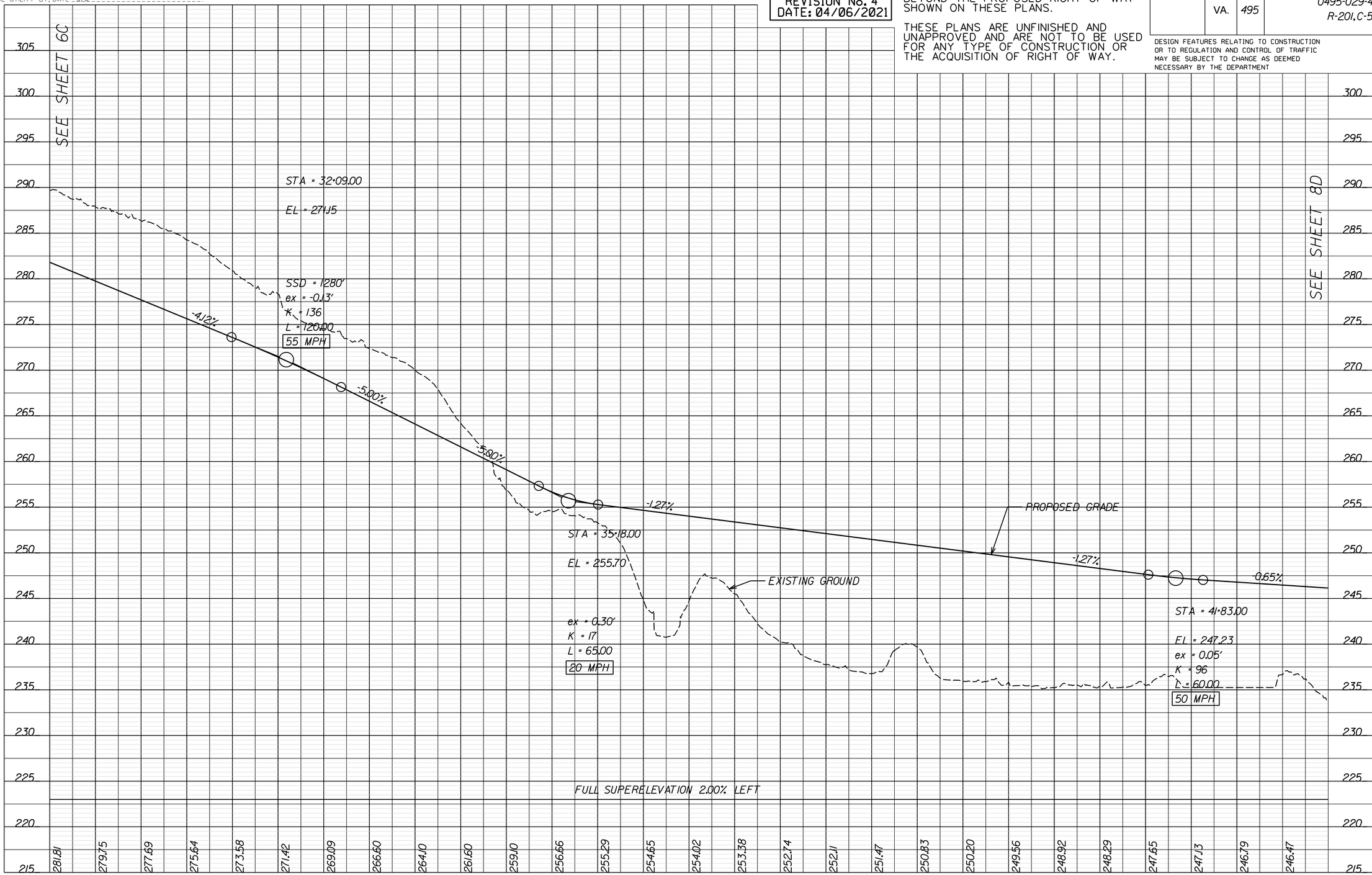
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	7C

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.
0495-029-419	7C

Thursday, April 01, 2021 05:58:58 PM
5:58:58 PM

dxxxxxxsht-07RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	7RW

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

ARTHUR OI-SHUI CHIU
NANCY HWA CHIU
DB 6120 PG 1769
16,649 SQ.FT
TAX MAP# 030-1 21 0028

GREGORY J. WAGNER
& ELAINE C. WAGNER
DB 21148 PG 1013
15,357 SQ.FT
TAX MAP# 030-1 21 0029

058
TIMBERLY SOUTH HOMEOWNERS ASSOCIATION
DB 5155 PG 331
5.5451 AC.
TAX MAP# 030-1 21 D

THE FAIRFAX COUNTY PARK AUTHORITY
DB 3998 PG 329
6.536 AC.
TAX MAP# 030-1 15 A

054
OLD DOMINION ESTATES LLC
DB 23779 PG 1662
2.6083 AC.
TAX MAP# 030-1 01 0064C

055
1160 DOMINION LLC
DB 24757 PG 253
1.0004 AC.
TAX MAP# 030-1 01 0064D

056
1156 DOMINION LLC
DB 24757 PG 103
1.0923 AC.
TAX MAP# 030-1 01 0064E

057

086
THE PRESERVE AT SCOTTS RUN HOMEOWNERS ASSOCIATION
DB 21927 PG 898
400,843 SQ.FT
TAX MAP# 030-1 33 D

Temporary Const.Esmt.
Proposed Utility Esmt.
Proposed Perm.Esmt.
Centerline of Ex.VEPCO Esmt.(No Width Specified) DB 1975 Pg 276
Ex. 80' VEPCO Esmt. DB 1989 PG 217
Ex. 10' Sanitary Sewer Esmt. DB 3026 PG 472
Ex. 10' Sanitary Sewer Esmt. DB 4764 PG 598
Ex. 20' Trail Esmt. DB 5155 PG 331
Ex. 10' Trail Esmt. DB 23298 PG 718
Ex. 12' Storm Drainage Esmt. DB 23298 PG 718
Ex. 20' Storm Drainage Esmt. DB 23298 PG 718
Approximate Location
Ex. Private Conservation Esmt. DB 19319 PG 125
Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-1
Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-2

I-495 GP LANES SOUTHBOUND
495 EXPRESS LANES SOUTHBOUND
495 EXPRESS LANES NORTHBOUND
I-495 GP LANES NORTHBOUND
SCOTTS RUN

MATCHLINE
495XL_SB STA 195+50.00
495XL_NB STA 595+50.00
LEW-TRL STA 29+50.00
SEE PLAN SHEET 6RW

MATCHLINE
495XL_SB STA 209+50.00
495XL_NB STA 609+50.00
LEW-TRL STA 43+50.00
SEE PLAN SHEET 8RW

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LEGEND

- CONSTRUCTION LIMITS IN CUTS
- CONSTRUCTION LIMITS IN FILLS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT
- PROPOSED SWM AREA
- EXISTING RIGHT OF WAY PROPERTY LINES
- Proposed R/W — PROPOSED RIGHT OF WAY
- Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
- Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	7RW

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	8

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

MATCHLINE ODD STA 17+50.00 SC-RUN TRL STA 11+50.00 SEE PLAN SHEET 20

END CONSTRUCTION SCOTTS RUN CONNECTOR SHARED USE PATH
℄ SC_RUN_TRL POT 15+91.39 =
℄ LEW_TRL STA 45+08.52

PROPOSED NOISE BARRIER 13B EXTENSION
PROPOSED NOISE BARRIER 13B
SWM-5H BIORETENTION
SWM-5J DRY SWALE
SWM FACILITY ACCESS FROM TRAIL
Proposed Perm. Esmt.
Proposed R/W
Proposed Perm. Esmt.

BEGIN BRIDGE B-6XX
℄ 495XL_SB STA. 217+45.15
BEGIN BRIDGE B-6XX
℄ ODD STA. 20+52.96
RETAINING WALL RW11 (SEE RETAINING WALL PLANS)
PROPOSED NOISE BARRIER 13A
SWM-5K BIORETENTION
OHP-DT

END BRIDGE B-6XX
℄ 495XL_SB STA. 219+08.55
SEE NOTE 3
SEE NOTE 1
SEE NOTE 2
PROPOSED ROCK TOE REVETMENT
PROPOSED ROCK W-WEIRS
POI-6
POI-5
RETAINING WALL RW28 (SEE RETAINING WALL PLANS)
SWM FACILITY ACCESS FROM TRAIL
PROPOSED NOISE BARRIER 13A
Proposed R/W
℄ LEW_TRL
SWM-6E DRY SWALE

SCOTTS RUN

I-495 GP LANES SOUTHBOUND
℄ 495XL_SB
600' Taper
1440' Acceleration Lane
TIE TO EXIST. BARRIER
495 EXPRESS LANES SOUTHBOUND
495 EXPRESS LANES NORTHBOUND
℄ 495XL_NB
I-495 GP LANES NORTHBOUND

MATCHLINE 495XL_SB STA 223+50.00 495XL_NB STA 623+50.00 LEW_TRL STA 57+75.00 SEE PLAN SHEET 9

OLD DOMINION DRIVE - VA. RTE 738

PROPOSED NOISE BARRIER 13D
RETAINING WALL RW03 (SEE RETAINING WALL PLANS)
EXISTING BRIDGE TO BE REMOVED
END BRIDGE B-6XX
℄ ODD STA. 24+93.33
℄ ODD
SEE NOTE 1
SEE NOTE 2
SEE NOTE 3
RETAINING WALL RW04 (SEE RETAINING WALL PLANS)
BEGIN BRIDGE B-6XX
℄ 495XL_NB STA. 616+37.38
SWM-5F DRY SWALE
PROPOSED NOISE BARRIER 13E
Proposed R/W
RETAINING WALL RW04A (SEE RETAINING WALL PLANS)
END BRIDGE B-6XX
℄ 495XL_NB STA. 618+02.38
CHURCHILL RD

Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-2
Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-1
Proposed Perm. Esmt.
SWM-5A DRY SWALE

MATCHLINE ODD STA 26+50.00 SEE PLAN SHEET 21

NOTES:
1. TOE OF STREAMBANK STABILIZATION TO BE EMBEDDED INTO THE STREAMBED.
2. PROPOSED STREAMBANK STABILIZATION. CLASS I RIPRAP WITH GEOTEXTILE.
3. TIE TO BRIDGE SCOUR COUNTERMEASURES. SEE BRIDGE PLANS FOR FURTHER DETAILS.

REVISIONS		
No.	Description	Date
2	Revised outfall POI-6 & SWM access rds.	12/18/2020
3	Revised Noise Barrier	03/09/2021

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	8

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES NORTHBOUND

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	8A

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

SEE SHEET 7A

SEE SHEET 9A

PROPOSED OLD DOMINION DRIVE BRIDGE (6'8" BRIDGE SUPERSTRUCTURE DEPTH)

16'-6" MIN. VERTICAL CLEARANCE

241.12

BEGIN BRIDGE B-6XX
℄ 495XL_NB STA. 616+37.38
EL = 242.33

END BRIDGE B-6XX
℄ 495XL_NB STA. 618+02.38
EL = 245.69

STA = 610+75.00
EL = 243.80
SSD = 742.4'
ex = -0.04'
K = 142.4
L = 210.00
80 MPH

STA = 614+30.00
EL = 240.03
ex = 1.07'
K = 182
L = 394.00
70 MPH

STA = 619+36.00
EL = 249.43
ex = 0.04'
K = 87.7
L = 210.00
80 MPH

STA = 622+00.00
EL = 257.46
SSD = 327.8'
ex = -0.09'
K = 61.8
L = 210.00
80 MPH

EXISTING GROUND

-0.91%
-1.06%
+1.11%
+2.04%
+2.80%
+3.04%
+2.79%
+2.70%

EXISTING SB 495 BRIDGE TO BE WIDENED (14'0" BRIDGE SUPERSTRUCTURE DEPTH)

PROPOSED GRADE

SPLINE GRADE

100-YEAR ELEVATION (PROPOSED) = 232.42'

ORDINARY HIGH WATER (OHW) = 222.80'

612+81.36

614+01.36

TRANSITION

FULL SUPERELEVATION 2.00% RIGHT

290 285 280 275 270 265 260 255 250 245 240 235 230 225 220 215 210 205 200

244.94 244.48 244.00 243.51 243.00 242.47 241.95 241.53 241.26 241.12 241.11 241.25 241.52 241.94 242.59 243.61 244.62 245.64 247.03 248.45 249.91 251.39 252.90 254.42 255.92 257.37 258.79 260.16

610+00.00 611+00.00 612+00.00 613+00.00 614+00.00 615+00.00 616+00.00 617+00.00 618+00.00 619+00.00 620+00.00 621+00.00 622+00.00 623+00.00

VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	8A

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES SOUTHBOUND

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	8B

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

SEE SHEET 7B

PROPOSED OLD DOMINION DRIVE BRIDGE (6'8" BRIDGE SUPERSTRUCTURE DEPTH)

STA = 211+00.00
EL = 245.28
SSD = 231.09'
ex = -0.01'
K = 44.77
L = 210.00
80 MPH

-1.24%

1.29%

-1.29%

PROPOSED GRADE

16'-6" MIN. VERTICAL CLEARANCE

STA = 214+85.00
EL = 240.31
ex = 1.52'
K = 18.1
L = 470.00
70 MPH

-1.30%

BEGIN BRIDGE B-6XX
℄ 495XL_SB STA. 217+45.15
EL = 243.84

END BRIDGE B-6XX
℄ 495XL_SB STA. 219+08.55
EL = 241.84

STA = 220+88.00
EL = 252.77
ex = 0.05'
K = 21.27
L = 300.00
80 MPH

-1.90%

2.45%

4'

EXISTING GROUND

2.74%

2.89%

EXISTING SB 495 BRIDGE TO BE WIDENED (4'0" BRIDGE SUPERSTRUCTURE DEPTH)

STA = 223+50.00
EL = 260.33
SSD = 768.9'
ex = -0.04'
K = 14.76
L = 210.00
80 MPH

100-YEAR ELEVATION (PROPOSED) = 232.42'

SPLINE GRADE

ORDINARY HIGH WATER (OHW) = 222.80'

TRANSITION

210+07.21

214+47.21

FULL SUPERELEVATION 2.00%

SEE SHEET 9B

247.15 246.52 245.90 245.27 244.63 243.99 243.34 242.77 242.33 242.03 241.86 241.84 241.95 242.20 242.59 243.11 243.96 245.18 246.41 247.63 248.98 250.36 251.76 253.16 254.58 256.01 257.45 258.88

290 285 280 275 270 265 260 255 250 245 240 235 230 225 220 215 210 205 200

210+00.00 211+00.00 212+00.00 213+00.00 214+00.00 215+00.00 216+00.00 217+00.00 218+00.00 219+00.00 220+00.00 221+00.00 222+00.00 223+00.00

VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	8B

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

OLD DOMINION DRIVE - VA ROUTE 738

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	8C

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

SEE SHEET 20A

SEE SHEET 21A

BEGIN BRIDGE B-6XX
STA. 20+52.96

END BRIDGE B-6XX
STA. 24+93.33

PROPOSED GRADE

-1.34%
-1.34%
+1.23%
+1.23%
-3.30%
-3.30%

50 MPH
STA = 19+00.00
EL = 264.56
ex = 0.80'
K = 97
L = 250.00

50 MPH
STA = 19+00.00
EL = 264.56
ex = 0.80'
K = 97
L = 250.00

STA = 22+50.00
EL = 268.86
SSD = 413'
ex = -1.98'
K = 77
L = 350.00
50 MPH

STA = 27+40.00
EL = 252.68
ex = 2.75'
K = 99
L = 466.00
55 MPH

16'-6" MIN. VERTICAL CLEARANCE

RETAINING WALL RW11. SEE RETAINING WALL PLANS

EXISTING GROUND

℄ LEW_TRL

℄ 495XL_SB

℄ 495XL_NB

100-YEAR ELEVATION (PROPOSED) = 234.96

ORDINARY HIGH WATER (OHW) = 224.5

FULL SUPERELEVATION 3.70% RIGHT	TRANSITION	NORMAL CROWN 2.00%	TRANSITION	FULL SUPER-ELEVATION 2.0% RIGHT
	19+01.29	20+29.16	24+28.88	25+18.88

266.56 265.93 265.51 265.36 265.46 265.82 266.40 266.98 267.27 267.23 266.88 266.20 265.19 263.87 262.26 260.60 259.05 257.74

285 280 275 270 265 260 255 250 245 240 235 230 225 220 215 210 205

18+00.00 19+00.00 20+00.00 21+00.00 22+00.00 23+00.00 24+00.00 25+00.00 26+00.00

VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	8C

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

LEWINSVILLE SHARED USE PATH

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

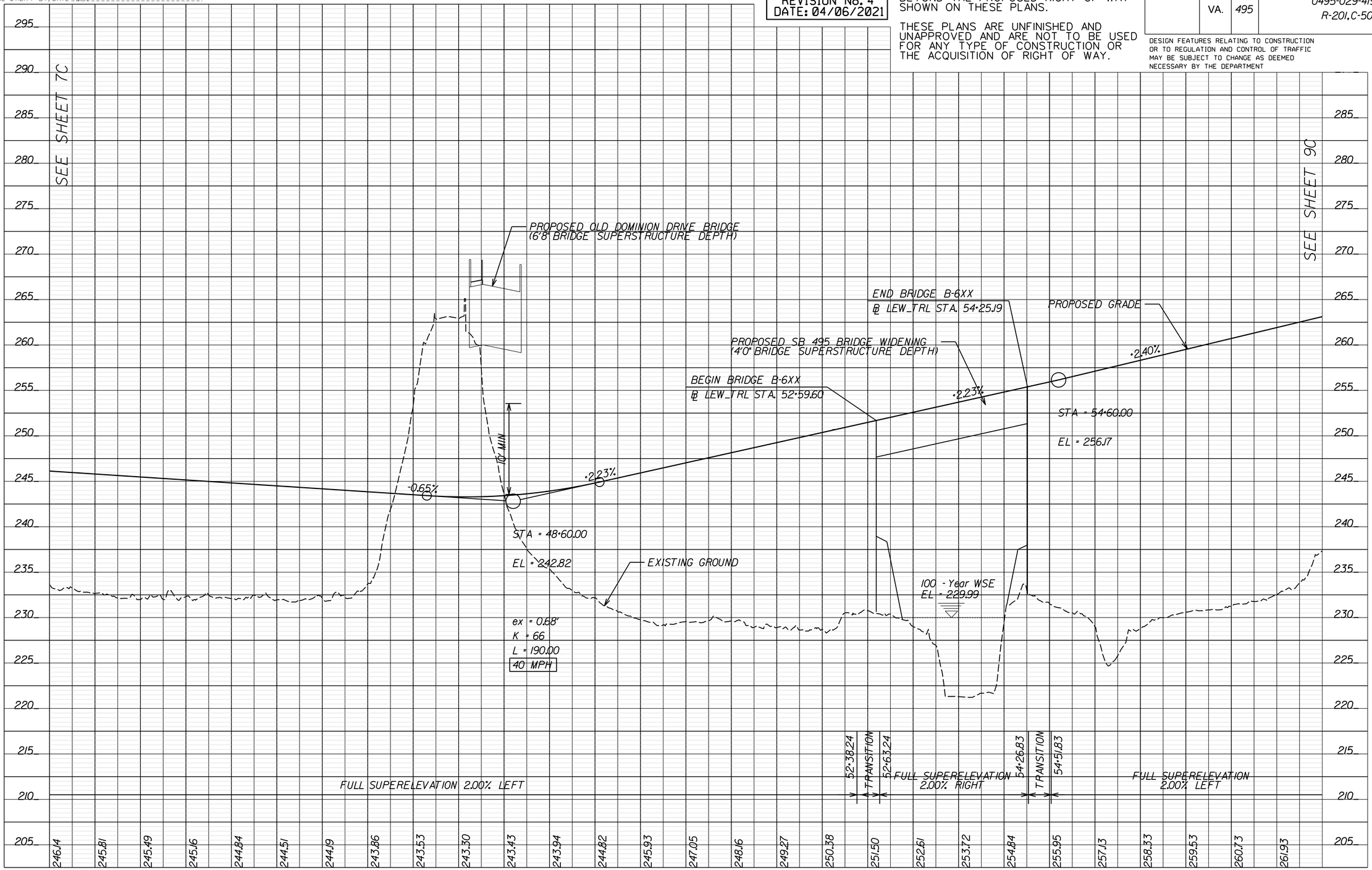
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	8D

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

SEE SHEET 7C

SEE SHEET 9C



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	8D

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

SCOTTS RUN CONNECTOR SHARED USE PATH

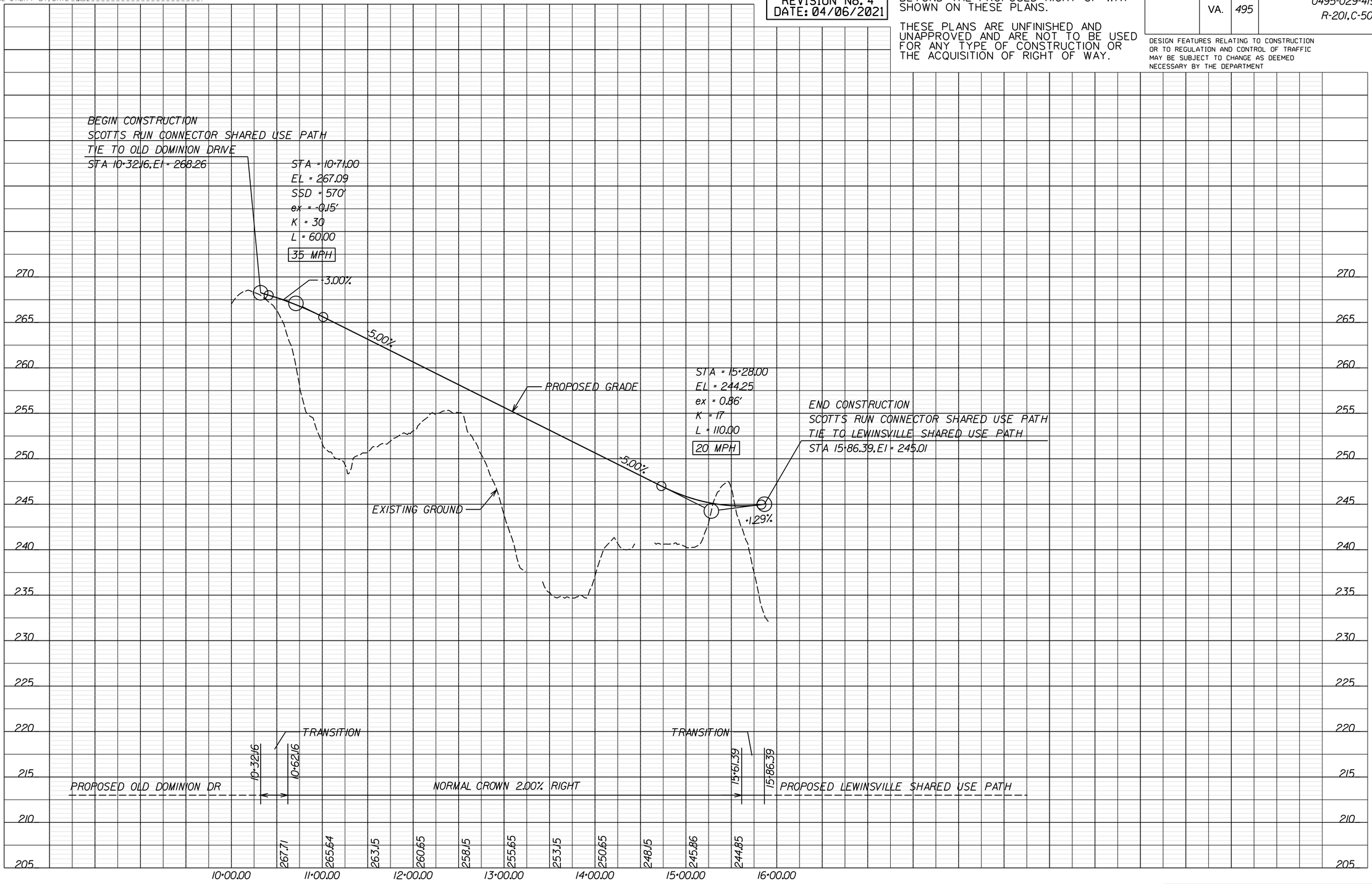
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	8E

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	8E

Thursday, April 01, 2021 05:59:53 PM
5:59:53 PM

d:xxxxxxsht-08RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	8RW

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

MATCHLINE
ODD STA 17+50.00
SC-RUN_TRL STA 11+50.00
SEE PLAN SHEET 20RW

065 DACHAO RUAN & ANABELA NOGUEIRA DO ESPIRITO SANTO
DB 10420 PG 574
39,205 SQ.FT
TAX MAP# 021-3 01 0035C

091 1150 DOMINION LLC
DB 24757 PG 258
1.0923 AC.
TAX MAP# 021-3 01 0033D

059 HUMAM K. ALATHARI & TANIA ALCHALABI
DB 21854 PG 211
60 889 SQ.FT
TAX MAP# 021-3 01 0033A

057 1150 DOMINION LLC
DB 24757 PG 258
2.6083 AC.
TAX MAP# 030-1 01 0064C

056 1156 DOMINION LLC
DB 24757 PG 103
1.0923 AC.
TAX MAP# 030-1 01 0064E

066 SUSAN BOOTH CASSIDY & JAMES JOSEPH CASSIDY
DB 9961 PG 1469
44,667 SQ.FT
TAX MAP# 021-3 01 0035

067 SCOTT'S RUN HOMEOWNERS ASSOCIATION
DB 5625 PG 1296
545,905 SQ.FT
TAX MAP# 021-3 12 A

068 HAMID FALLAH-MOGHADDAM & TAHEREH GOLCHIN-NIKSIRAT
DB 16948 PG 854
5.644 AC.
TAX MAP# 021-3 07 0030A

069

088 RAJAI ZUMOT & KATHY M. ZUMOT
DB 9155 PG 1818
39,417 SQ.FT
TAX MAP# 021-3 01 0072B

013 CHARNG LIU & MARY DEEM
DB 24663 PG 1269
63,830 SQ.FT
TAX MAP# 021-3 01 0072C

014 JOSEPH T. BAKER & IRENE I. BAKER
DB 18506 PG 1073
27,238 SQ.FT
TAX MAP# 021-3 10 0054A

015 LESLIE MURPHY, TRUSTEE & DIANE E. MURPHY, TRUSTEE
DB 24925 PG 1983
25,765 SQ.FT
TAX MAP# 021-3 10 0057A

005 PARKER F. SCHOFIELD, TRUSTEE & LAN N. SCHOFIELD, TRUSTEE
DB 16917 PG 1281
1.4127 AC.
TAX MAP# 030-1 02 0053

SCOTTS RUN
CHURCHILL RD
OLD DOMINION DRIVE - VA RTE 738
1-495 GP LANES SOUTHBOUND
1-495 GP LANES NORTHBOUND
495 EXPRESS LANES SOUTHBOUND
495 EXPRESS LANES NORTHBOUND

Existing R/W Highway Plan 0413-029-007, RW-2
Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-2
End Limited Access Line
Proposed R/W
Prop. Perm. Esmt.
Temp. Const. Esmt.
Ex. Storm Drainage Esmt. DB 2766 PG 255
Ex. Public Riding Trails Esmt. DB 2766 PG 255
Ex. 25' Sanitary Sewer Esmt. DB 2766 PG 255
Ex. 10' Sanitary Sewer Esmt. DB 2766 PG 255
Ex. 25' Sanitary Sewer Esmt. DB 2496 PG 423
Ex. VEPCO Esmt. DB 1978 PG 543
Ex. Flood Plain Esmt. DB 4852 PG 915
Ex. VEPCO Esmt. DB 2066 PG 683
Ex. Storm Drainage Esmt. DB 2122 PG 110
Ex. Storm Drainage Esmt. DB 1760 PG 159
Ex. Flood Plain & Storm Drainage Esmt. DB 7494 PG 1579
Ex. Storm Sewer Esmt. DB 1159 PG 70
Ex. Sanitary Sewer Esmt. Shown on DB 3048 PG 623 & DB 5107 PG 422
Approximate Location of Sanitary Sewer Esmt. DB 5107 PG 422
Ex. Sanitary Sewer Esmt. DB 2766 PG 255
Ex. Sanitary Sewer Esmt. DB 2766 PG 255
Ex. Sanitary Sewer Esmt. DB 2766 PG 255

Thursday, April 01, 2021 06:00:04 PM
6:00:04 PM

dxxxxxxsht-09.dgn
Plotted By: ETWRIGHT

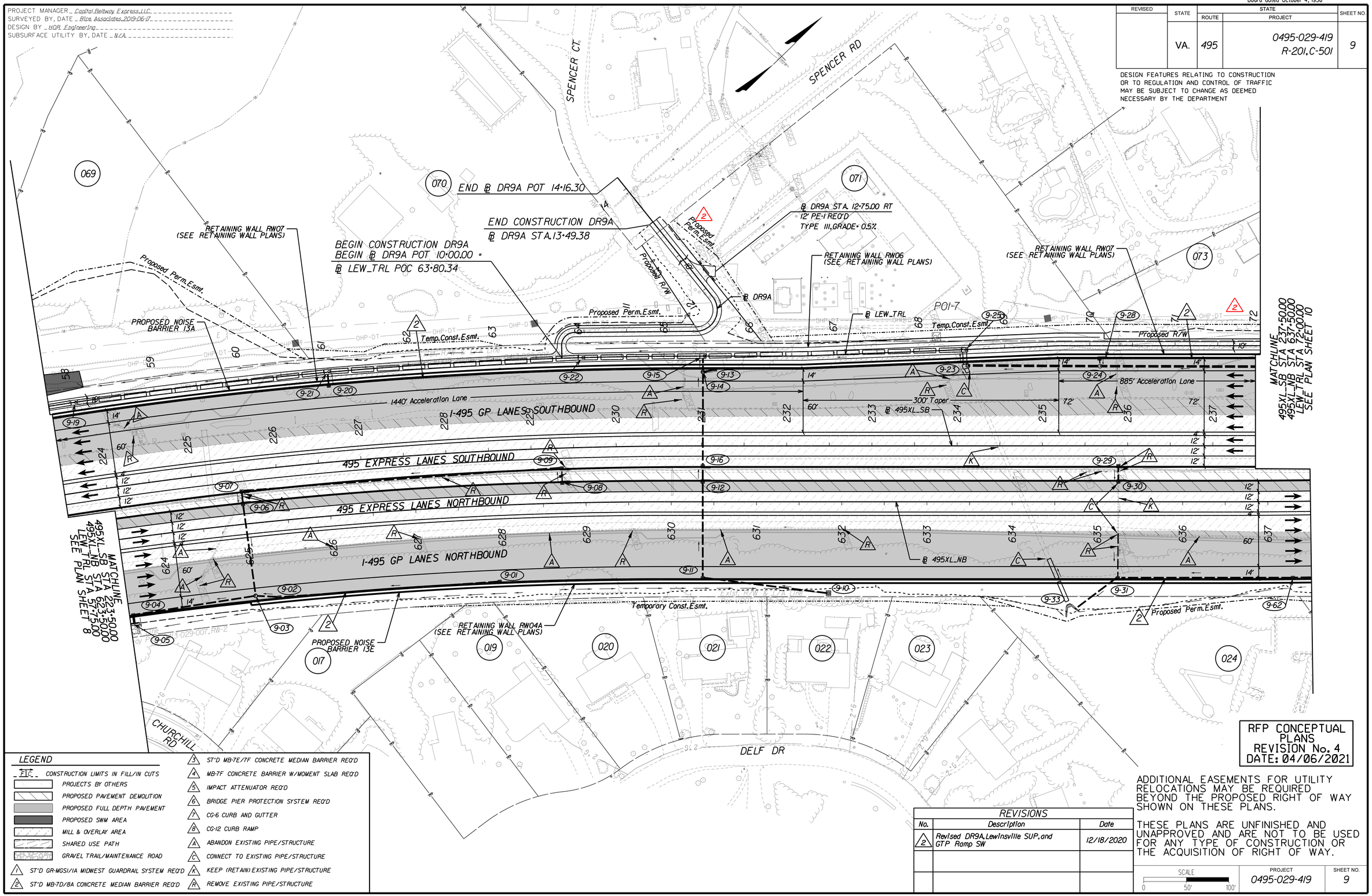
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	9

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



LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS

No.	Description	Date
2	Revised DR9A, Lewinsville SUP, and GTP Ramp SW	12/18/2020

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	9

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES NORTHBOUND

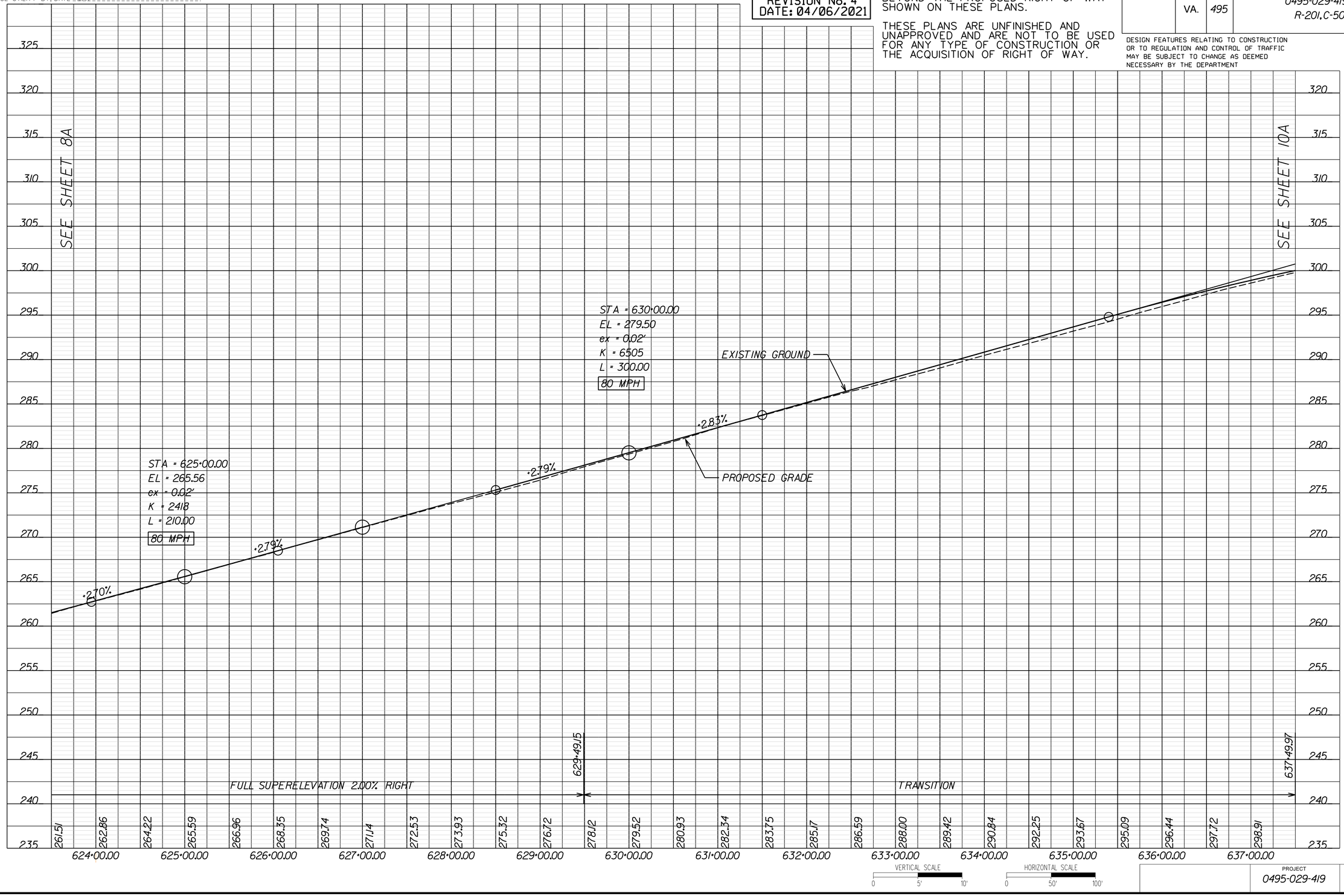
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	9A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	9A

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES SOUTHBOUND

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	9B

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

SEE SHEET 8B

SEE SHEET 10B

STA = 223+50.00
EL = 260.33
SSD = 768.9'
ex = -0.04'
K = 147.6
L = 210.00
80 MPH

-2.74%

70 MPH

EXISTING GROUND

PROPOSED GRADE

FULL SUPERELEVATION 2.00%

231+85.36

TRANSITION

260.29 261.69 263.07 264.45 265.82 267.19 268.56 269.93 271.31 272.68 274.05 275.42 276.79 278.17 279.54 280.91 282.28 283.65 285.02 286.40 287.77 289.14 290.51 291.88 293.26 294.63 296.00 297.37

320 315 310 305 300 295 290 285 280 275 270 265 260 255 250 245 240 235 230

224+00.00 225+00.00 226+00.00 227+00.00 228+00.00 229+00.00 230+00.00 231+00.00 232+00.00 233+00.00 234+00.00 235+00.00 236+00.00 237+00.00

VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	9B

dxxxxxxsht-09C.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	9C

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

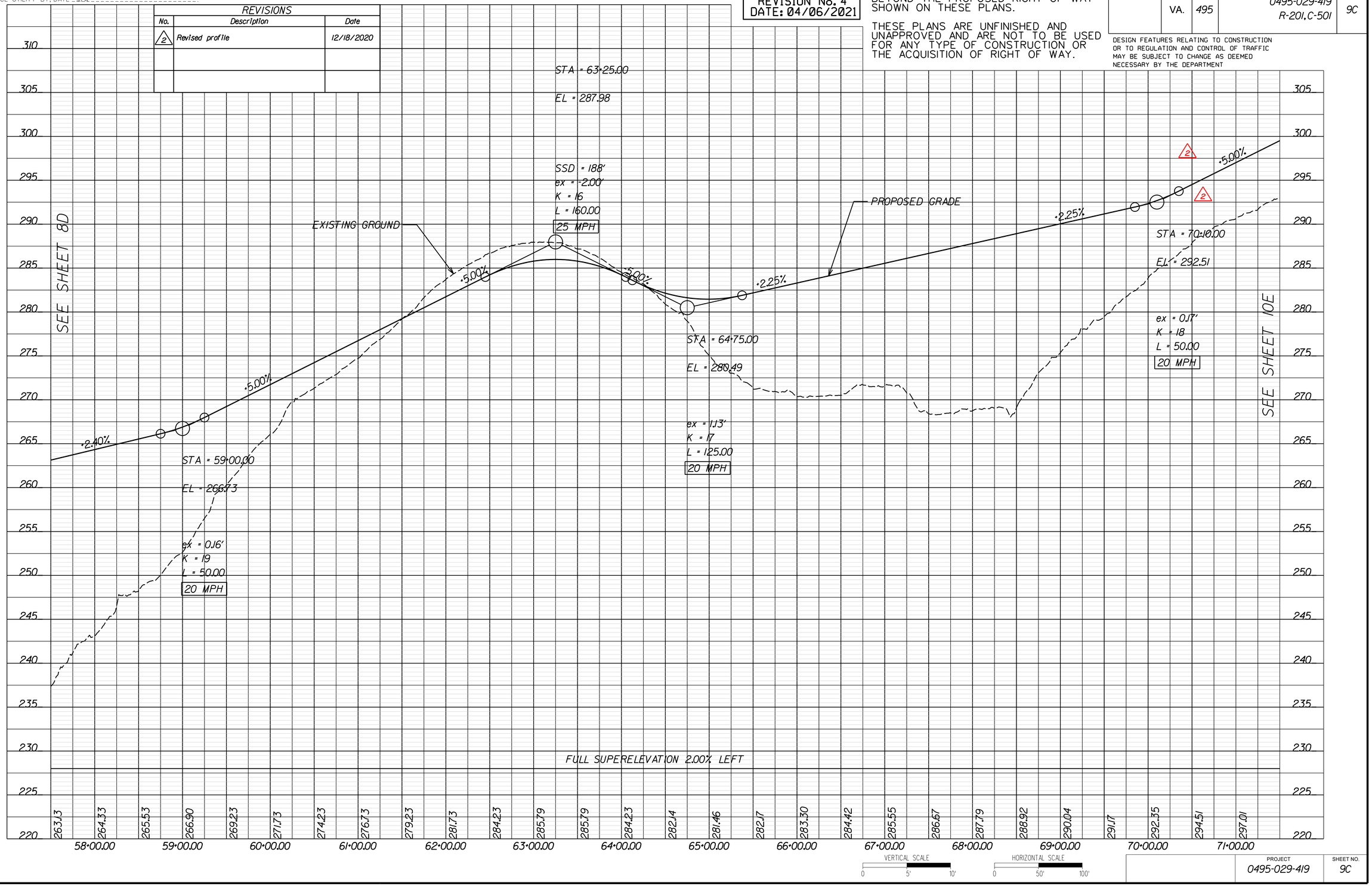
LEWINSVILLE SHARED USE PATH

REVISIONS		
No.	Description	Date
2	Revised profile	12/18/2020

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	9C

Thursday, April 01, 2021 06:00:25 PM
6:00:25 PM

dxxxxxxsht-09RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	9RW

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

SPENCER RD
SPENCER CT.
Ex. Sanitary Sewer Esmt. DB 7333 PG 84
Ex. Storm Drainage Esmt. DB 1737 PG 143
Ex. Storm Drainage Esmt. DB 7333 PG 84
Ex. Storm Drainage Esmt. DB 1737 PG 143
Ex. Storm Drainage Esmt. DB 1737 PG 143
Ex. Storm Drainage Esmt. DB 1737 PG 143

Thursday, April 01, 2021 06:00:37 PM
6:00:37 PM

dxxxxxxsht-10.dgn
Plotted By: ETWRIGHT

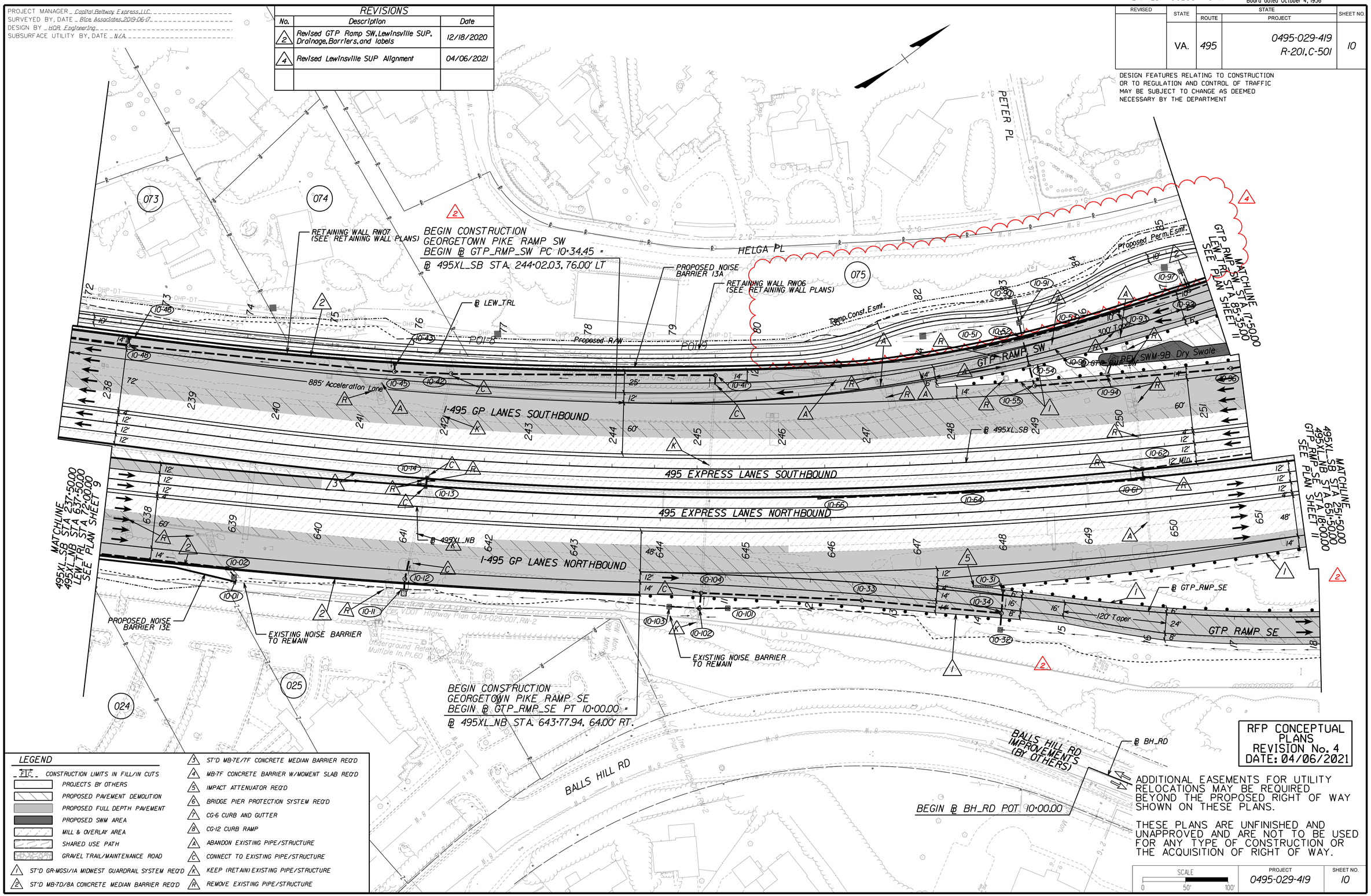
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	10

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

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISIONS		
No.	Description	Date
2	Revised GTP Ramp SW, Lewinsville SUP, Drainage, Barriers, and labels	12/18/2020
4	Revised Lewinsville SUP Alignment	04/06/2021



LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	10

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES NORTHBOUND

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

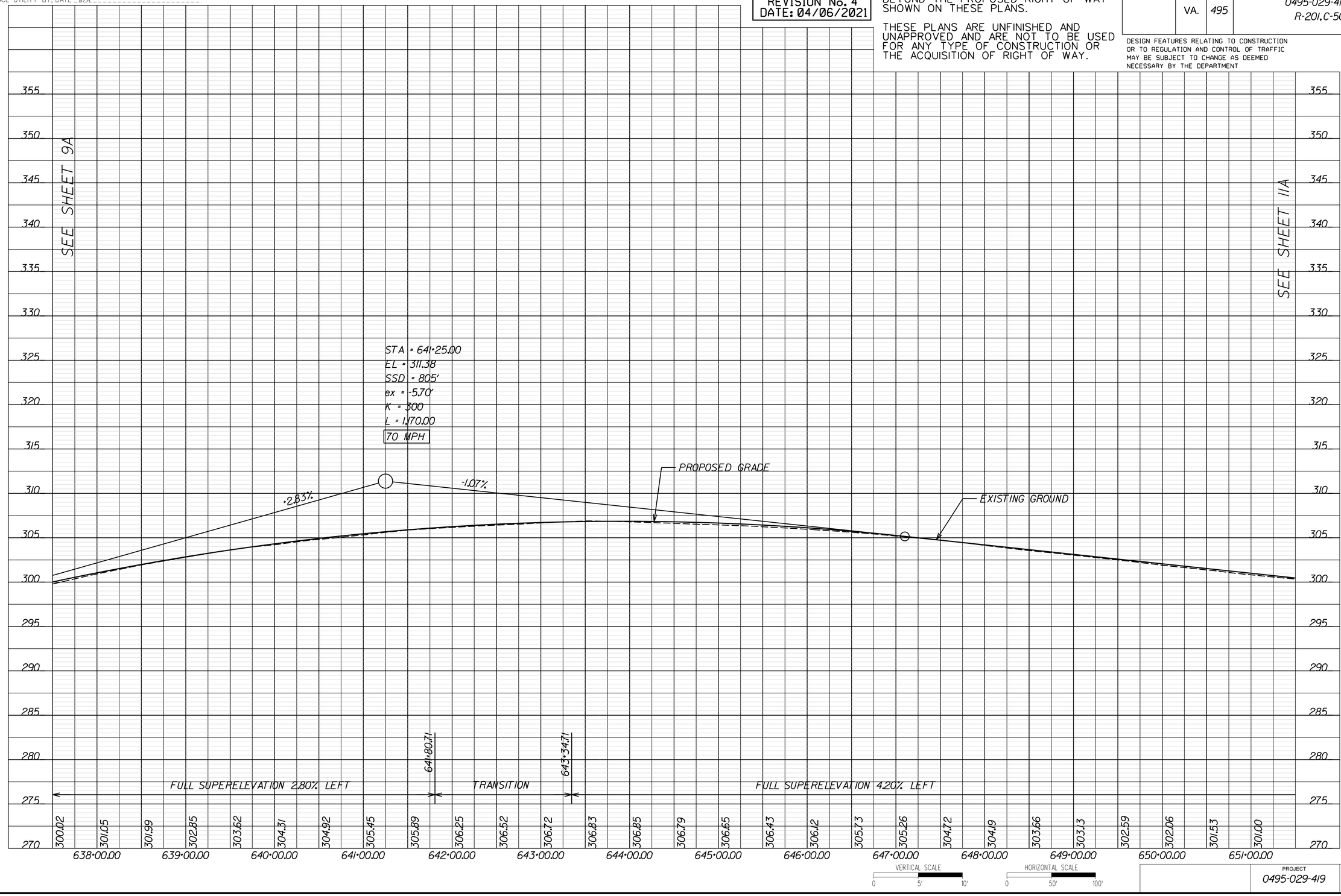
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	10A

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

SEE SHEET 9A

SEE SHEET 11A

STA = 641+25.00
EL = 311.38
SSD = 805'
ex = -5.70'
K = 300
L = 1,170.00
70 MPH



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	10A

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

495 EXPRESS LANES SOUTHBOUND

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	10B

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

SEE SHEET 9B

SEE SHEET 11B

STA = 242+10.00
EL = 311.36
SSD = 769'
ex = -4.94'
K = 274
L = 1,040.00
70 MPH

+2.74%

-1.05%

EXISTING GROUND

PROPOSED GRADE

TRANSITION

241+09.43

FULL SUPERELEVATION 4.20% LEFT

298.68	299.89	301.02	302.05	303.00	303.85	304.61	305.28	305.85	306.34	306.74	307.04	307.25	307.37	307.40	307.34	307.19	306.94	306.61	306.18	305.67	305.14	304.61	304.09	303.56	303.03	302.51	301.98
238+00.00	239+00.00	240+00.00	241+00.00	242+00.00	243+00.00	244+00.00	245+00.00	246+00.00	247+00.00	248+00.00	249+00.00	250+00.00	251+00.00															

355 350 345 340 335 330 325 320 315 310 305 300 295 290 285 280 275 270 265

VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	10B

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GTP RAMP SE

REVISIONS		
No.	Description	Date
2	Revised Profile	12/18/2020

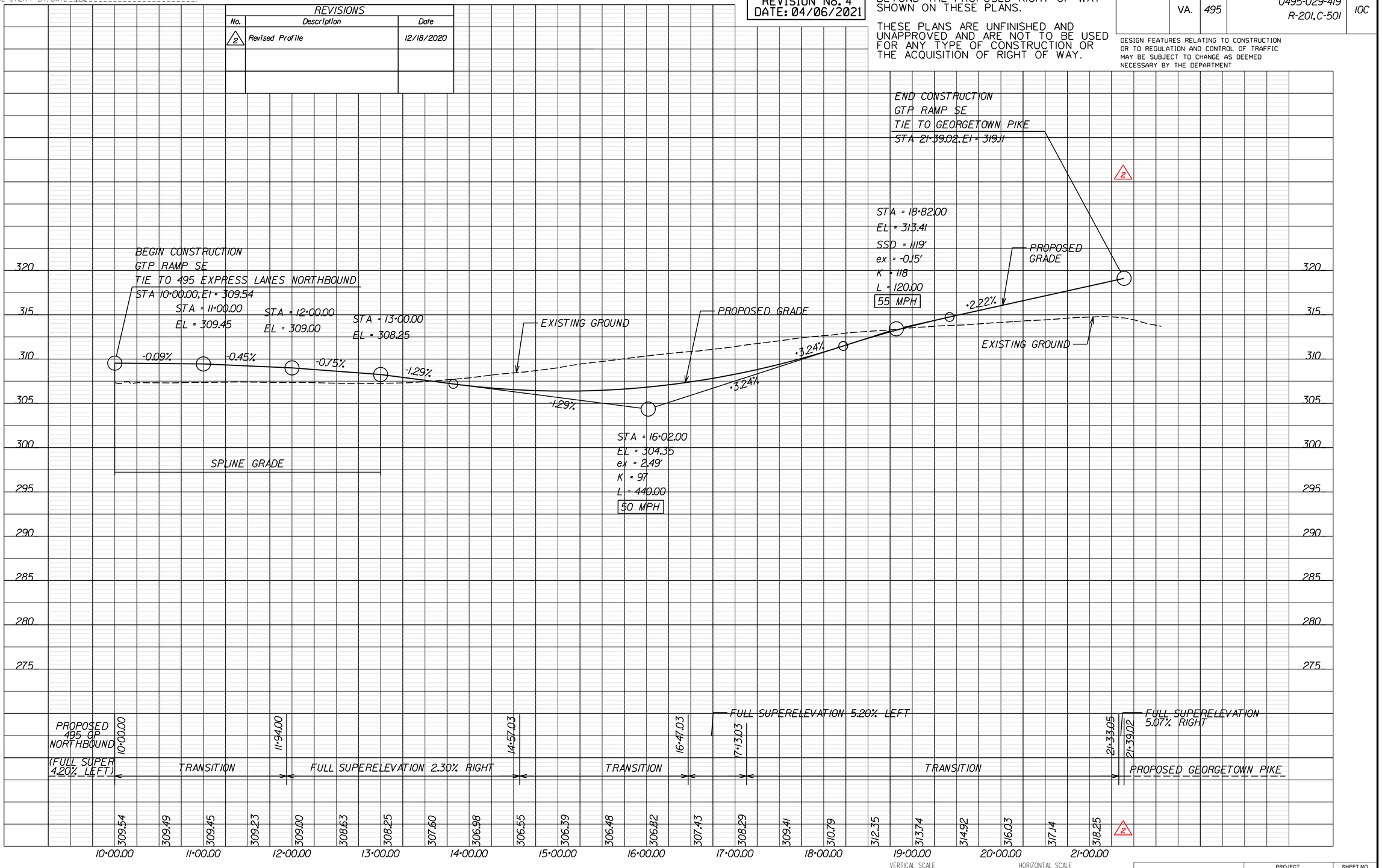
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	10C

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.
0495-029-419	10C

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GTP RAMP SW

REVISIONS		
No.	Description	Date
2	Revised Profile	12/18/2020

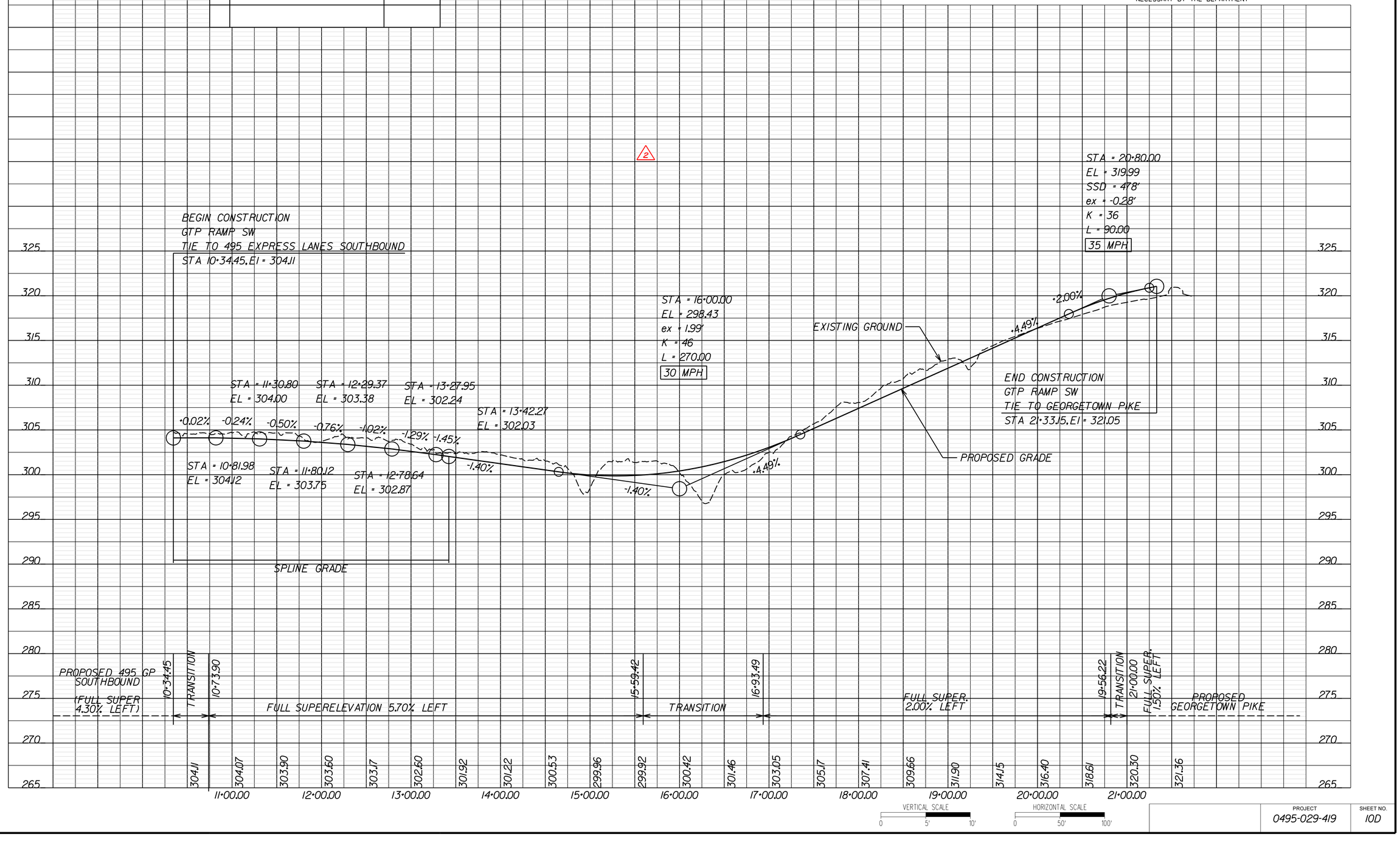
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	10D

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.
0495-029-419	10D

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

LEWINSVILLE SHARED USE PATH

REVISIONS		
No.	Description	Date
2	Revised Profile	12/18/2020
4	Revised Lewinsville SUP Alignment and Profile	04/06/2021

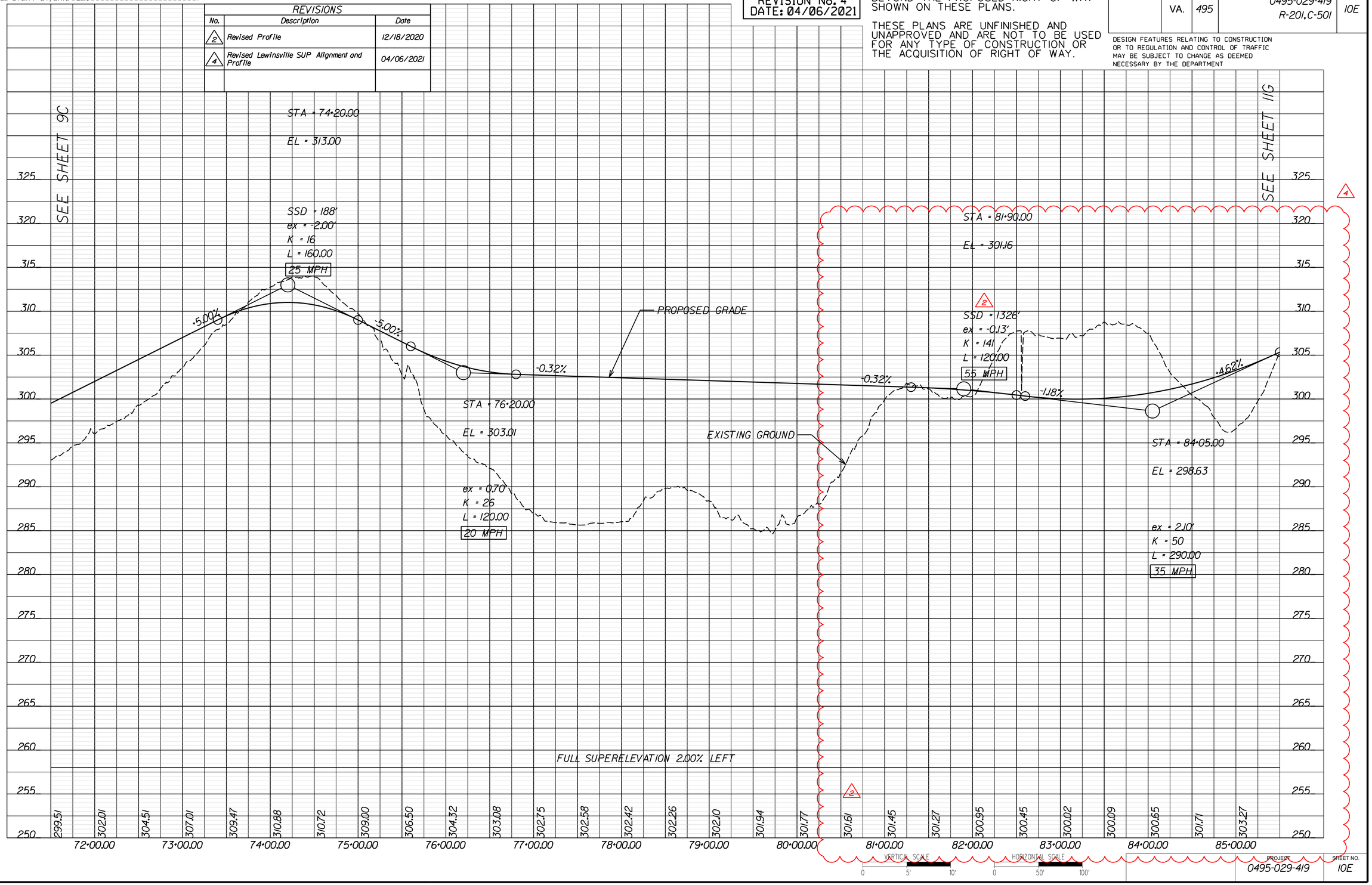
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	10E

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.
0495-029-419	10E

Thursday, April 01, 2021 06:01:24 PM
6:01:24 PM

d:xxxxxxsht-10RW.dgn
Plotted By: ETWRIGHT

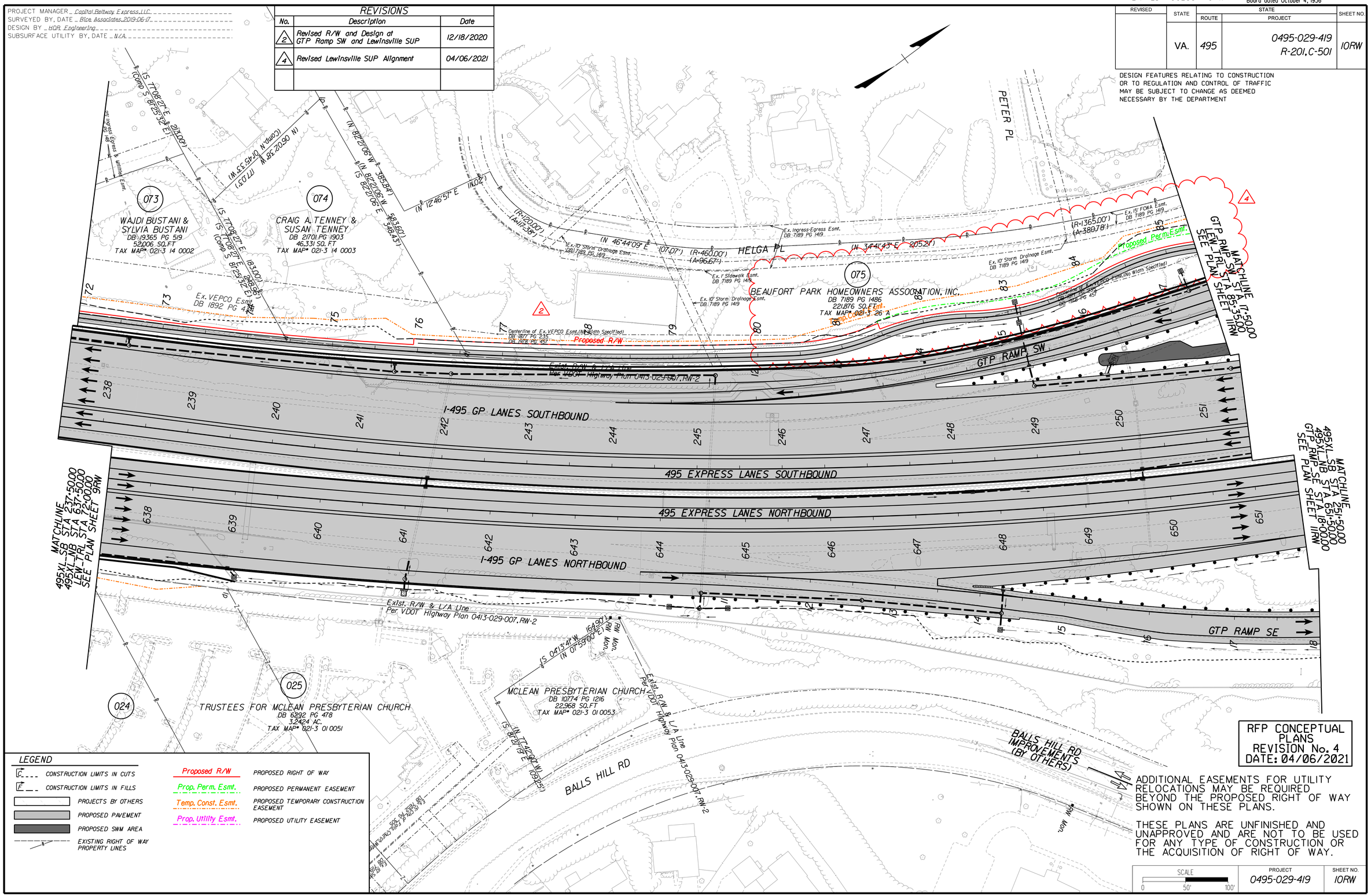
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISIONS		
No.	Description	Date
2	Revised R/W and Design at GTP Ramp SW and Lewinsville SUP	12/18/2020
4	Revised Lewinsville SUP Alignment	04/06/2021

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	10RW

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


073
WAJDI BUSTANI & SYLVIA BUSTANI
DB 19365 PG 519
52,006 SQ.FT
TAX MAP# 021-3 14 0002
074
CRAIG A. TENNEY & SUSAN TENNEY
DB 21701 PG 1903
46,331 SQ. FT
TAX MAP# 021-3 14 0003
075
BEAUFORT PARK HOMEOWNERS ASSOCIATION, INC.
DB 7189 PG 1486
221,876 SQ.FT±
TAX MAP# 021-3 26 A
HELGA PL
PETER PL
GTP RAMP SW
GTP RAMP SE
I-495 GP LANES SOUTHBOUND
495 EXPRESS LANES SOUTHBOUND
495 EXPRESS LANES NORTHBOUND
I-495 GP LANES NORTHBOUND
Ex. VEPCO Esmt. DB 1892 PG 471
Centerline of Ex. VEPCO Esmt. (Width Specified) DB 1877 PG 235 DB 1978 PG 457
Proposed R/W
Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-2
Ex. Ingress-Egress Esmt. DB 7189 PG 1419
Ex. 10' Storm Drainage Esmt. DB 7189 PG 1419
Ex. 5' Sidewalk Esmt. DB 7189 PG 1419
Ex. 15' FCWA Esmt. DB 7189 PG 1419
Proposed Perm. Esmt.
Proposed 10' Temp. Const. Esmt. (No Width Specified) DB 1877 PG 235 DB 1978 PG 457
MATCHLINE 495XL_SB STA 237+50.00 495XL_NB STA 637+50.00 LEW_TRL STA 72+00.00 SEE PLAN SHEET 9RW
MATCHLINE 495XL_SB STA 251+50.00 495XL_NB STA 651+50.00 GTP_RMP_SE STA 18+50.00 SEE PLAN SHEET 11RW
MATCHLINE 495XL_SB STA 247+50.00 GTP_RMP_SW STA 85+35.00 LEW_TRL STA 17+50.00 SEE PLAN SHEET 11RW
TRUSTEES FOR MCLEAN PRESBYTERIAN CHURCH
DB 6292 PG 478
3.2424 AC.
TAX MAP# 021-3 01 0051
MCLEAN PRESBYTERIAN CHURCH
DB 10774 PG 1216
22,968 SQ.FT
TAX MAP# 021-3 01 0053
024
025
BALLS HILL RD
BALLS HILL RD IMPROVEMENTS (BY OTHERS)
Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-2
(S 77°08'27" E 210.00')
(Comp S 81°25'32" E)
(N 82°20'06" W 385.84')
(S 82°20'06" E 583.50')
(N 82°20'06" W 348.43')
(N 12°46'57" E 11.02')
(R=120.00') (A=12°38')
(N 46°44'09" E 107.07')
(R=460.00') (A=96.67')
(N 34°41'43" E 205.21')
(R=1365.00') (A=380.78')
(S 04°13'41" W 164.90')
(N 01°59'00" E)
(S 82°19'19" E 109.25')
(N 77°42'00" W)
(S 77°08'27" E 183.00')
(Comp S 81°25'32" E 183.06')
(Comp. N 07°45'33" W 17.03')
(N 82°20'06" W 20.90')
Ex. Ingress-Egress & Utilities Esmt.
Ex. 10' Storm Drainage Esmt. DB 7189 PG 1419
Ex. 5' Sidewalk Esmt. DB 7189 PG 1419
Ex. 10' Storm Drainage Esmt. DB 7189 PG 1419
Ex. 10' Storm Drainage Esmt. DB 7189 PG 1419
Ex. 15' FCWA Esmt. DB 7189 PG 1419
Ex. 10' Storm Drainage Esmt. DB 7189 PG 1419
Proposed 10' Temp. Const. Esmt. (No Width Specified) DB 1877 PG 235 DB 1978 PG 457
Ex. 10' Storm Drainage Esmt. DB 7189 PG 1419

Thursday, April 01, 2021 06:01:35 PM
6:01:35 PM

d:xxxxxxsht-11.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	11

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

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019:06:17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

MATCHLINE GTP STA 17+00.00 SEE PLAN SHEET 22

END CONSTR. LEWINSVILLE SHARED USE PATH
℄ LEW_TRL PT 89+74.92
℄ GTP STA. 17+46.57, 66.33' RT
END CONSTRUCTION - GTP RAMP SW
END ℄ GTP_RMP_SW POT 21+72.30 =
℄ GTP POC 18+83.40

PROPOSED NOISE BARRIER 13A

BEGIN CONSTRUCTION GWMP RAMP G21
BEGIN ℄ GWMP_RMP_G21 PC 2+06.49 =
℄ 495XL_SB STA. 254+04.04, 64.00' LT.

BEGIN CONSTRUCTION GEORGETOWN PIKE RAMP NW
BEGIN ℄ GTP_RMP_NW POT 4+61.06 =
℄ GTP POC 18+74.49

BEGIN BRIDGE B-6XX
℄ GTP STA. 19+77.97

BEGIN BRIDGE B-6XX
℄ GTP_RMP_NW STA. 7+55.96

END BRIDGE B-6XX
℄ GTP_RMP_NW STA. 9+00.56

RETAINING WALL RW08 (SEE RETAINING WALL PLANS)

REV. SWM-9B Dry Swale

REV. SWM-12F BIORETENTION

RETAINING WALL RW14 (SEE RETAINING WALL PLANS)

EXISTING BRIDGE TO BE REMOVED

℄ GTP POT 21+09.08 =
℄ 495XL_SB POC 255+63.98

℄ GTP POT 21+68.89 =
℄ 495XL_NB POC 655+20.00

END BRIDGE B-6XX
℄ GTP STA. 22+67.31

BEGIN CONSTRUCTION GTP RAMP NE
BEGIN ℄ GTP_RMP_NE POT 10+00.00 =
℄ GTP POT 23+97.43

RETAINING WALL RW18 (SEE RETAINING WALL PLANS)

RETAINING WALL RW16A (SEE RETAINING WALL PLANS)

EXISTING NOISE BARRIER TO REMAIN

PROPOSED NOISE BARRIER 8

REMOVE EXISTING NOISE BARRIER

PROPOSED EMERENCY VEHICLE CROSS OVER

END CONSTRUCTION GTP RAMP SE
END ℄ GTP_RMP_SE POT 21+81.02 =
℄ GTP POT 21+81.02

MATCHLINE GTP STA 25+50.00 SEE PLAN SHEET 23

MATCHLINE GTP_RMP_SW STA 17+50.00 — MATCHLINE LEW_TRL STA 85+35.00

MATCHLINE 495XL_SB STA 265+50.00 / 495XL_NB STA 665+50.00 / GTP_RMP_NW STA 14+50.00 / GWMP_RMP_G21 STA 13+50.00 SEE PLAN SHEET 12

MATCHLINE 495XL_SB STA 251+50.00 / 495XL_NB STA 651+50.00 SEE PLAN SHEET 10

MATCHLINE BH_RD STA 23+00.00 / BH_TRL STA 14+33.08 SEE PLAN SHEET 23

MATCHLINE BH_RD STA 20+84.29 / BH_TRL STA 20+84.29 SEE PLAN SHEET 12

075 078 079 028

GEORGETOWN PIKE VA RTE 193

I-495 GP LANES SOUTHBOUND

495 EXPRESS LANES SOUTHBOUND

495 EXPRESS LANES NORTHBOUND

I-495 GP LANES NORTHBOUND

GTP RAMP SW

GTP RAMP NW

GWMP RAMP G21

GTP RAMP SE

GTP RAMP NE 240' MERGE

BALLS HILL RD

Temporary Const. Esmt.
Proposed Perm. Esmt.
Proposed R/W
Existing R/W & LLA Line Per VDOT Highway Plan 0495-029-001, RW-2

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

REVISIONS

No.	Description	Date
2	Revised Roadway, Drainage, and SUP Design and Labels	12/18/2020
3	Revised SWM Structure	03/09/2021
4	Revised Lewinsville SUP Alignment	04/06/2021

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	11

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES NORTHBOUND

REVISIONS		
No.	Description	
3	Revised Minimum Design Speed and Structure Depth	03/09/2021

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

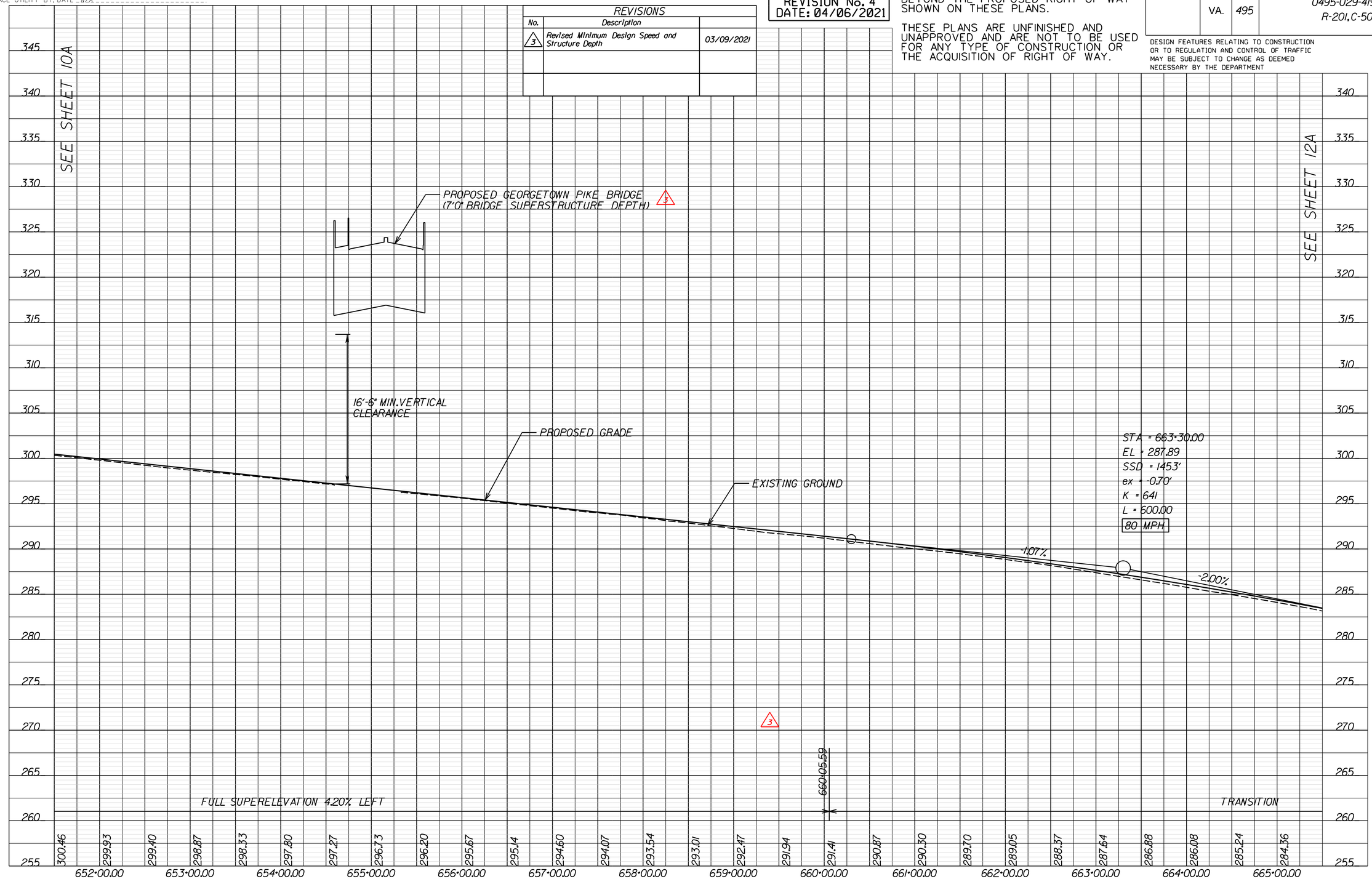
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IIA

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

SEE SHEET 10A

SEE SHEET 12A



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	IIA

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES SOUTHBOUND

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

REVISIONS		
No.	Description	
3	Revised Minimum Design Speed and Structure Depth	03/09/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

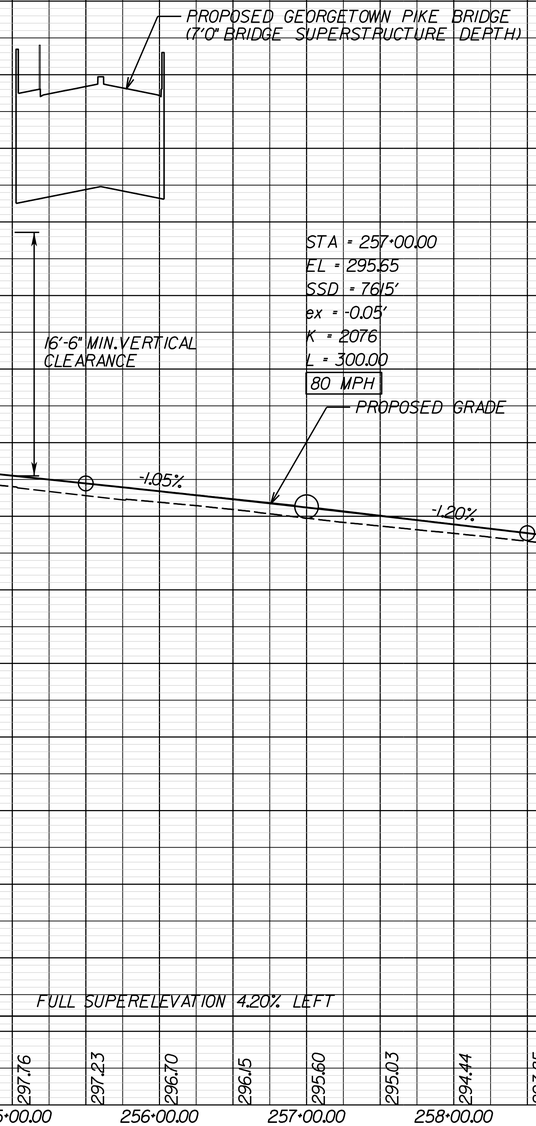
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IIB

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

SEE SHEET 10B

SEE SHEET 12B



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	IIB

Thursday, April 01, 2021 06:01:47 PM
6:01:47 PM

dxxxxxxsht-11C.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER Capital Beltway Express, LLC
SURVEYED BY, DATE Rice Associates, 2019-06-17
DESIGN BY HDR Engineering
SUBSURFACE UTILITY BY, DATE N/A

GEORGETOWN PIKE - VA ROUTE 193

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

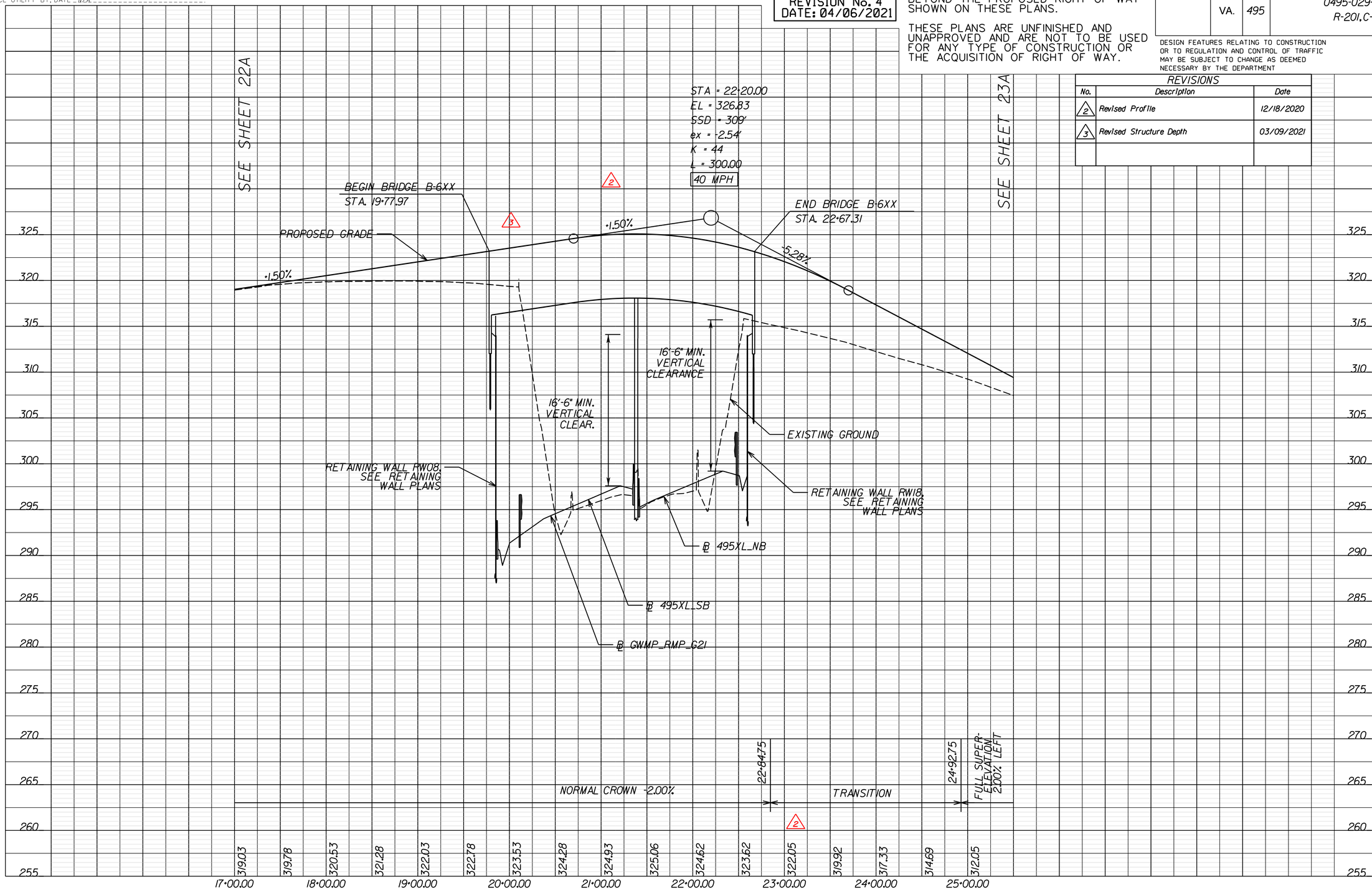
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	11C

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

REVISIONS

No.	Description	Date
2	Revised Profile	12/18/2020
3	Revised Structure Depth	03/09/2021



PROJECT	SHEET NO.
0495-029-419	11C

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _
DESIGN BY _ HDR Engineering _
SUBSURFACE UTILITY BY, DATE _ N/A _

GTP RAMP NE

REVISIONS		
No.	Description	Date
2	Revised Profile	12/18/2020
3	Adjustment for 60 mph Design Speed	3/9/2020

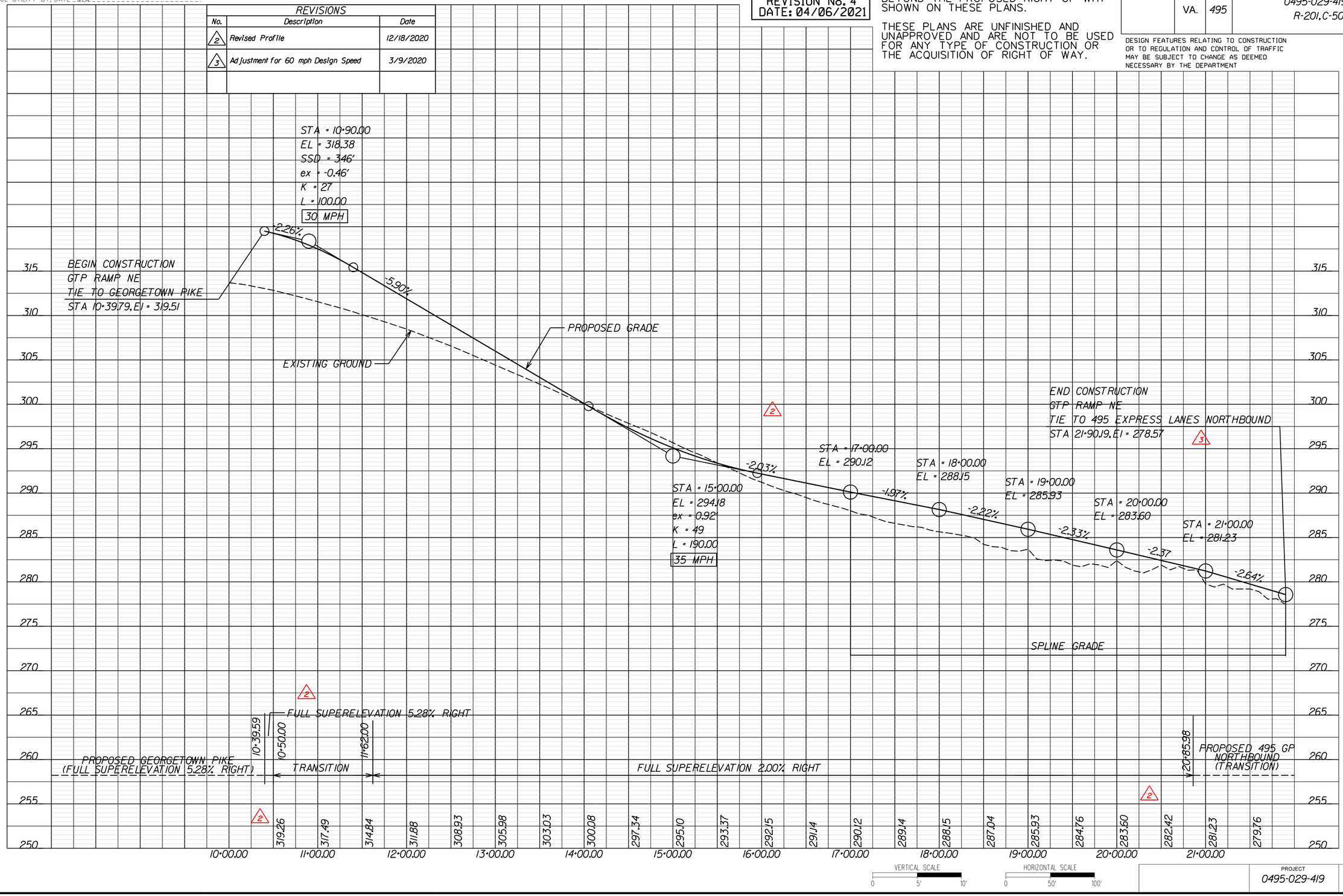
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	IID

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



VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	IID

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GTP RAMP NW

REVISIONS		
No.	Description	Date
2	Revised Profile	12/18/2020

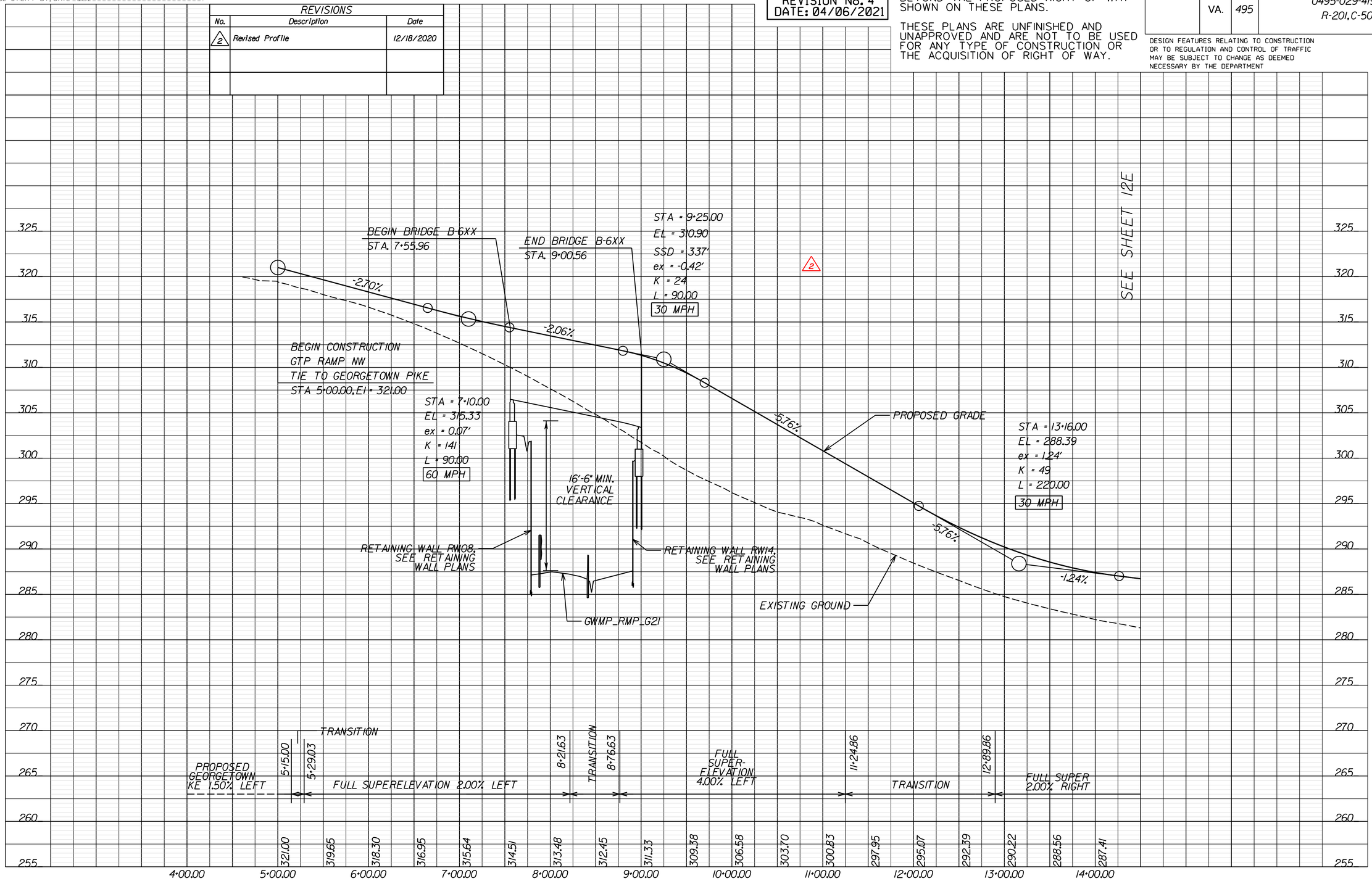
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IIE

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.
0495-029-419	IIE

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

BALLS HILL SHARED USE PATH

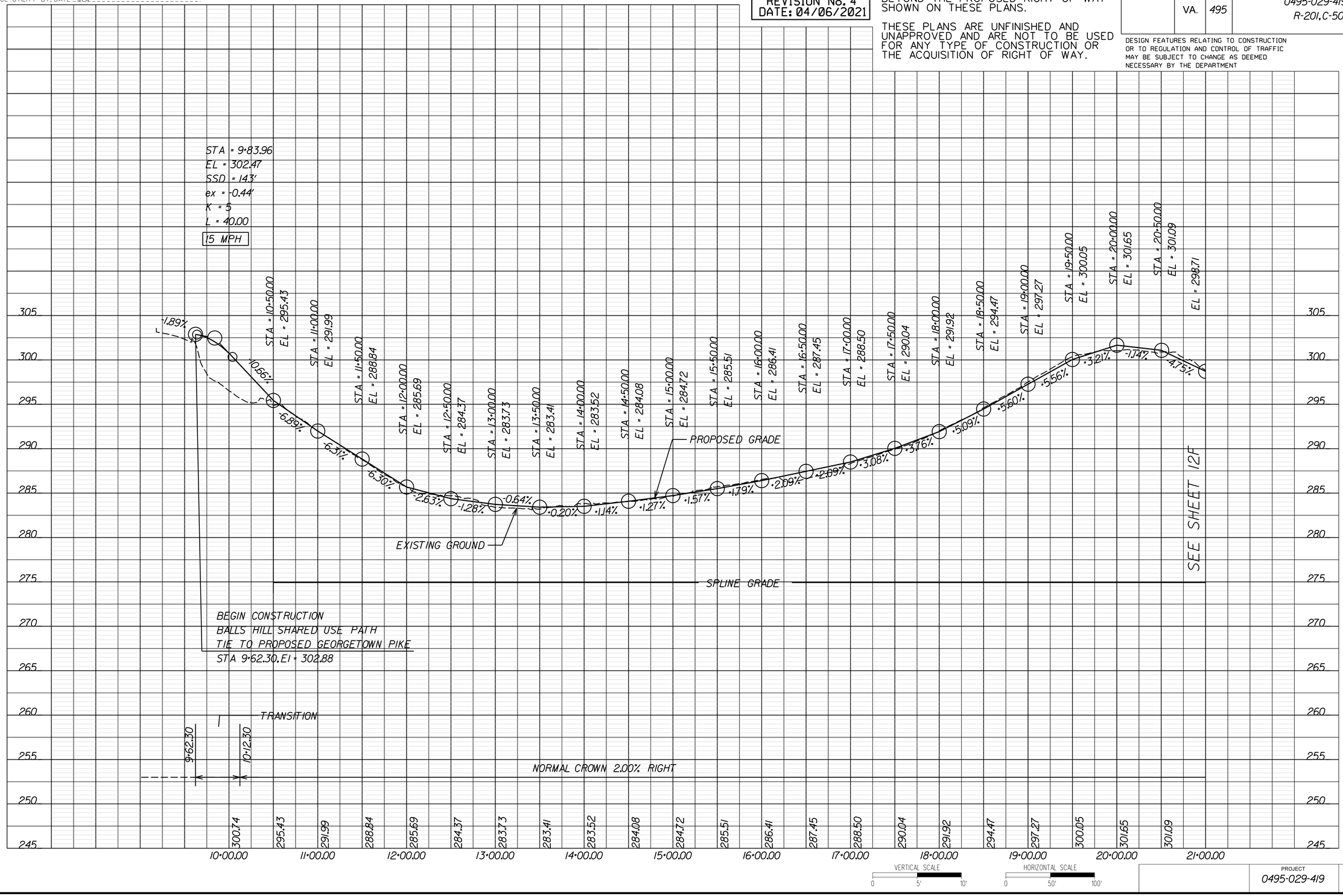
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IIF

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.
0495-029-419	IIF

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

LEWINSVILLE SHARED USE PATH

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

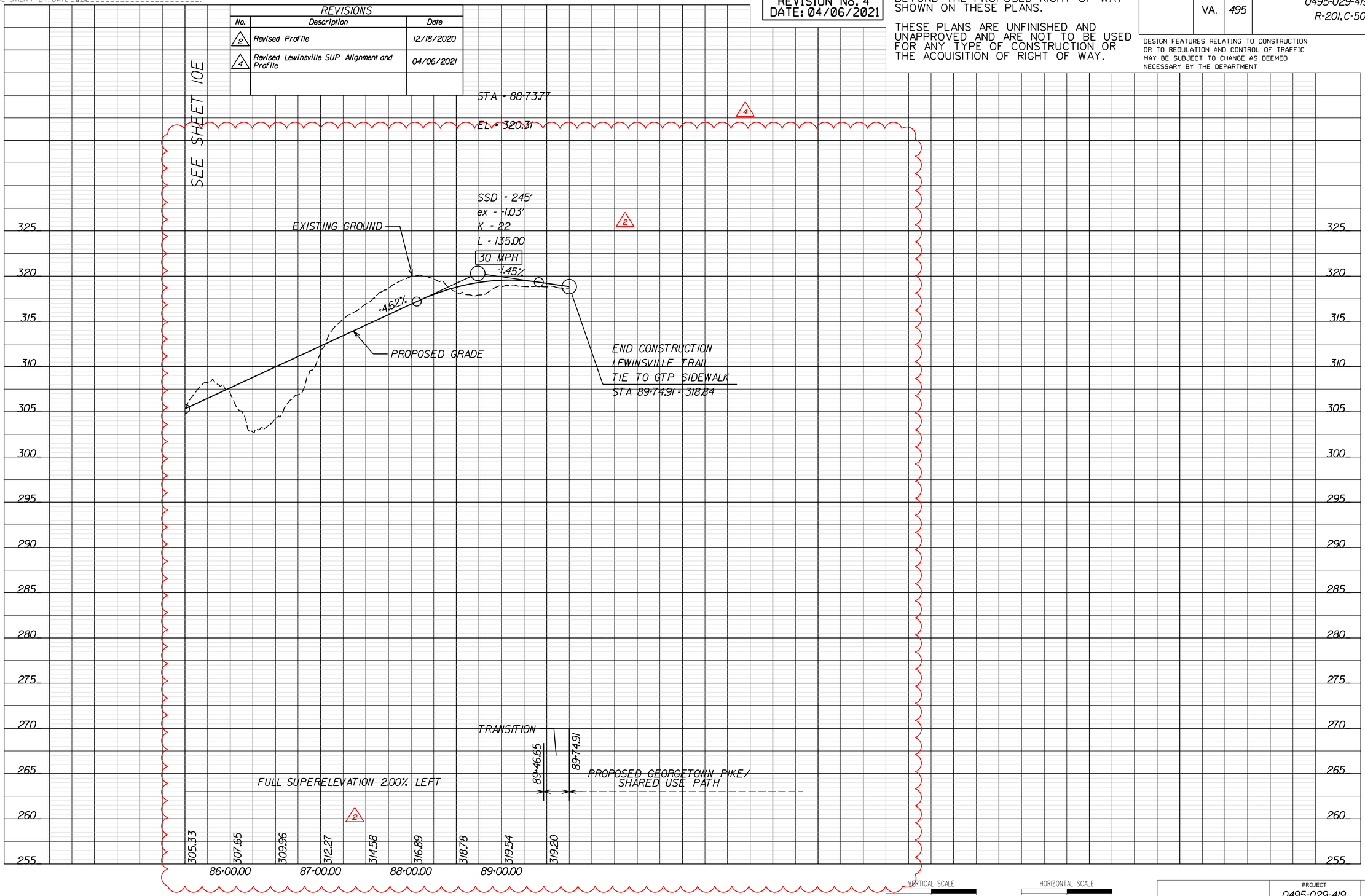
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IIG

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

REVISIONS		
No.	Description	Date
2	Revised Profile	12/18/2020
4	Revised Lewinsville SUP Alignment and Profile	04/06/2021



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	IIG

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP G21

REVISIONS		
No.	Description	Date
2	Revised Profile	12/18/2020

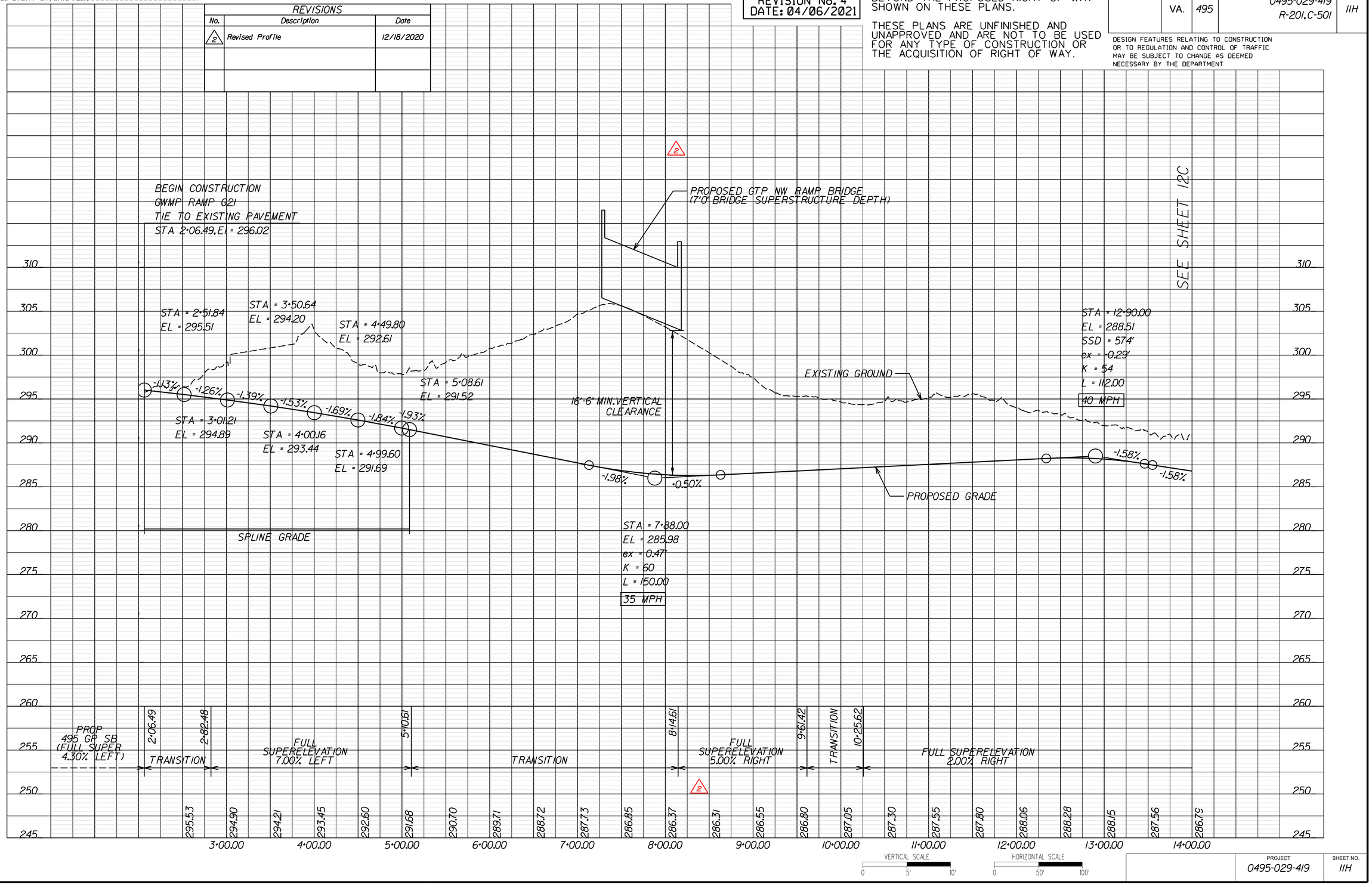
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	IIH

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.
0495-029-419	IIH

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

BALLS HILL ROAD

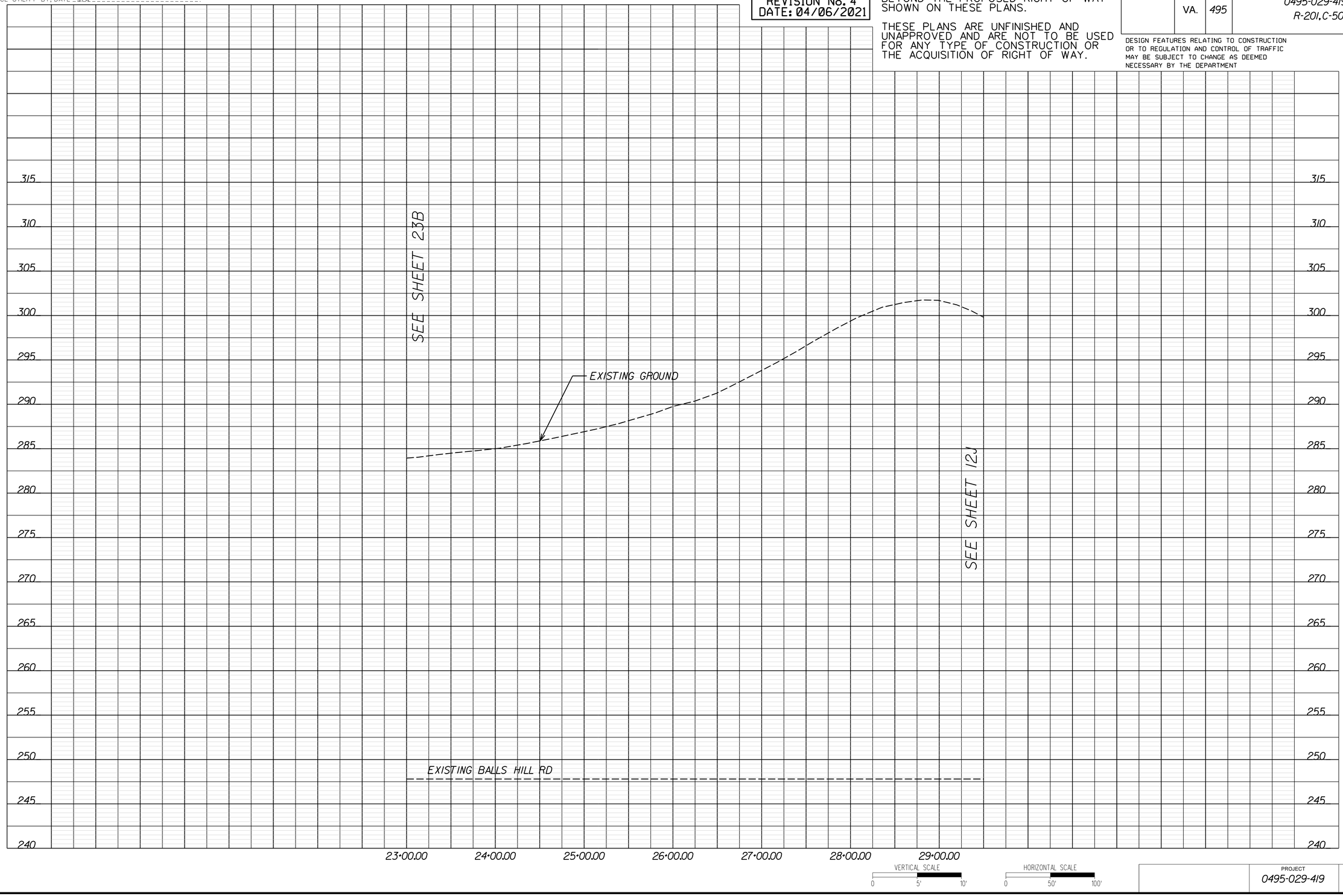
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	IIJ

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



VERTICAL SCALE
0 5' 10'

HORIZONTAL SCALE
0 50' 100'

PROJECT	SHEET NO.
0495-029-419	IIJ

Thursday, April 01, 2021 06:02:21 PM
6:02:21 PM

dxxxxxxsht-11RW.dgn
Plotted By: ETWRIGHT

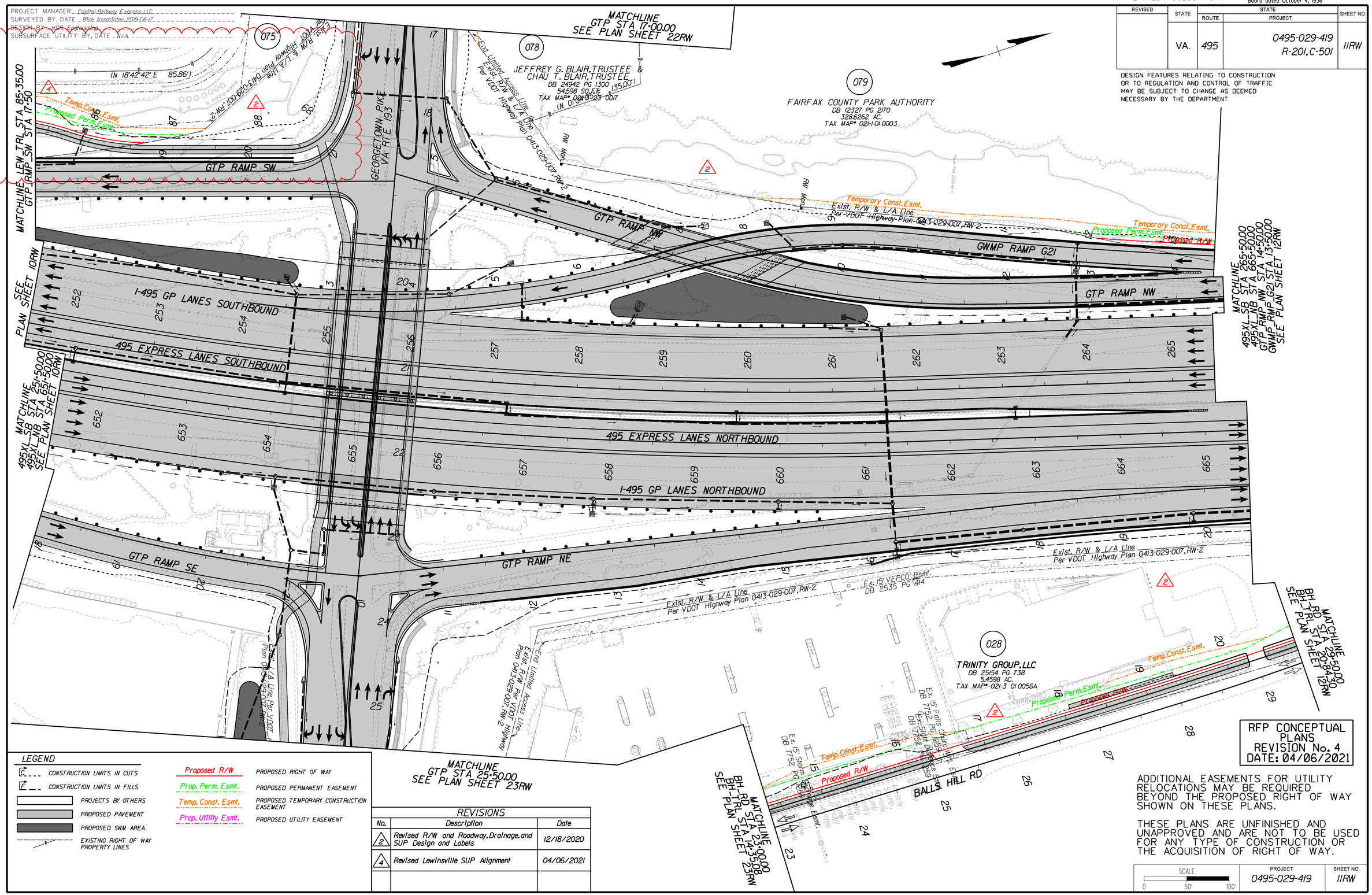
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	11RW

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 Capital Beltway Express, LLC
SURVEYED BY, DATE Rice Associates, 2019-06-17
DESIGN BY HDR Engineering
SUBSURFACE UTILITY BY, DATE N/A



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LEGEND

- C — CONSTRUCTION LIMITS IN CUTS
- F — CONSTRUCTION LIMITS IN FILLS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT
- PROPOSED SWM AREA
- EXISTING RIGHT OF WAY PROPERTY LINES
- Proposed R/W — PROPOSED RIGHT OF WAY
- Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
- Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT

REVISIONS

No.	Description	Date
2	Revised R/W and Roadway, Drainage, and SUP Design and Labels	12/18/2020
4	Revised Lewinsville SUP Alignment	04/06/2021

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	11RW

Thursday, April 01, 2021 06:02:33 PM
6:02:33 PM

dxxxxxxsht-12.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	12

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

END BRIDGE B-6XX
℄ LOD_BR STA. 14+40.43

END CONSTRUCTION GTP RAMP NW
END ℄ GTP_RMP_NW POT 25+53.73 =
℄ 495XL_SB STA. 276+33.33, 64.00' LT

END CONSTRUCTION GTP NW SLIP RAMP
END ℄ GTP_NW_SLIP PT 12+40.91 =
℄ GWMP_RMP_G21 STA. 17+34.45

BEGIN CONSTRUCTION
LIVE OAK DRIVE
℄ LOD STA. 10+00.00=
℄ LOD_BR STA. 14+72.28

BEGIN CONSTRUCTION
GTP NW SLIP RAMP
BEGIN ℄ GTP_NW_SLIP
PC 10+00.00 =
℄ GTP_RMP_NW
STA. 15+87.85, 12.00' LT

BEGIN CONSTRUCTION GWMP RAMP E21
BEGIN ℄ GWMP_RMP_E21 PC 6+22.02 =
℄ 495XL_SB STA. 278+04.43, 12.00' RT.

END CONSTRUCTION BALLS HILL
SHARED USE PATH PAVEMENT
BEGIN CONSTRUCTION OF
GRADING AND GRAVEL FOR FUTURE
BALLS HILL SHARED USE PATH
℄ BH_TRL STA. 27+00.00

BEGIN CONSTRUCTION
BALLS ROAD
℄ BH_RD STA. 33+69.17

BEGIN CONSTRUCTION
LIVE OAK DRIVE
℄ LOD_BR STA. 10+25.00
BEGIN ℄ LOD_BR POT 10+00.00 =
℄ BH_RD STA. 40+14.84, 23.83' RT.

END CONSTR.
BALLS HILL RD
℄ BH_RD STA. 40+53.03

END ℄ BH_RD
POT 42+60.82

END CONSTRUCTION GTP RAMP NE
END ℄ GTP_RMP_NE PT 21+90.19=
℄ 495XL_NB STA. 666+87.05, 64.00' RT.

BEGIN BRIDGE B-6XX
℄ LOD_BR STA. 10+81.10

MATCHLINE
495XL_SB STA 279+50.00
495XL_NB STA 679+50.00
GWMP_RMP_G21 STA 280+00.00
LOD STA 2+00.00
LOD_BR STA 4+96.62
BH_RD STA 4+34.00.00
SEE PLAN SHEET 13

MATCHLINE
495XL_SB STA 265+50.00
495XL_NB STA 665+50.00
GWMP_RMP_G21 STA 14+50.00
SEE PLAN SHEET 11

MATCHLINE
BH_RD STA 29+50.00
BH_TRL STA 20+84.50
SEE PLAN SHEET 11

GTP RAMP NW
GWMP RAMP G21
I-495 GP LANES SOUTHBOUND
I-495 GP LANES NORTHBOUND
495 EXPRESS LANES SOUTHBOUND
495 EXPRESS LANES NORTHBOUND
LIVE OAK DRIVE
BALLS HILL RD
BENJAMIN ST

℄ GTP_RMP_NW
℄ GTP_NW_SLIP
℄ GTP_RMP_G21
℄ 495XL_SB
℄ 495XL_NB
℄ LOD
℄ LOD_BR
℄ BH_RD
℄ BH_TRL

RETAINING WALL RW17A (SEE RETAINING WALL PLANS)
RETAINING WALL RW17B (SEE RETAINING WALL PLANS)
RETAINING WALL 14 (SEE RETAINING WALL PLANS)
RETAINING WALL RW16A (SEE RETAINING WALL PLANS)
RETAINING WALL RW15 (SEE RETAINING WALL PLANS)

PROPOSED NOISE BARRIER 10 EXTENSION
PROPOSED NOISE BARRIER 8
PROPOSED NOISE BARRIER 9
PROP. NOISE BARRIER 16'
REMOVE EXISTING NOISE BARRIER

Temporary Const. Esmt.
Temporary Const. Esmt.
Proposed Perm. Esmt.
Proposed R/W
Existing R/W Line
Per Plat Highway Plan 0413-029-201, R/W-1
Per Plat Highway Plan 0413-029-202, R/W-1

PROPOSED EMERGENCY VEHICLE CROSS-OVER
EXISTING BRIDGE TO BE REMOVED
645' Acceleration Lane
840' Transition
300' Taper
545' Deceleration Lane
12' Min.
6' Min.
PROPOSED SIDEWALK

079
028
029

REVISIONS		
No.	Description	Date
2	Revised Roadway and Drainage design	12/18/2020
3	Revised Limits of Construction	03/09/2021

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	12

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES NORTHBOUND

REVISIONS		
No.	Description	Date
3	Revised Minimum Design Speed and Structure	03/09/2021

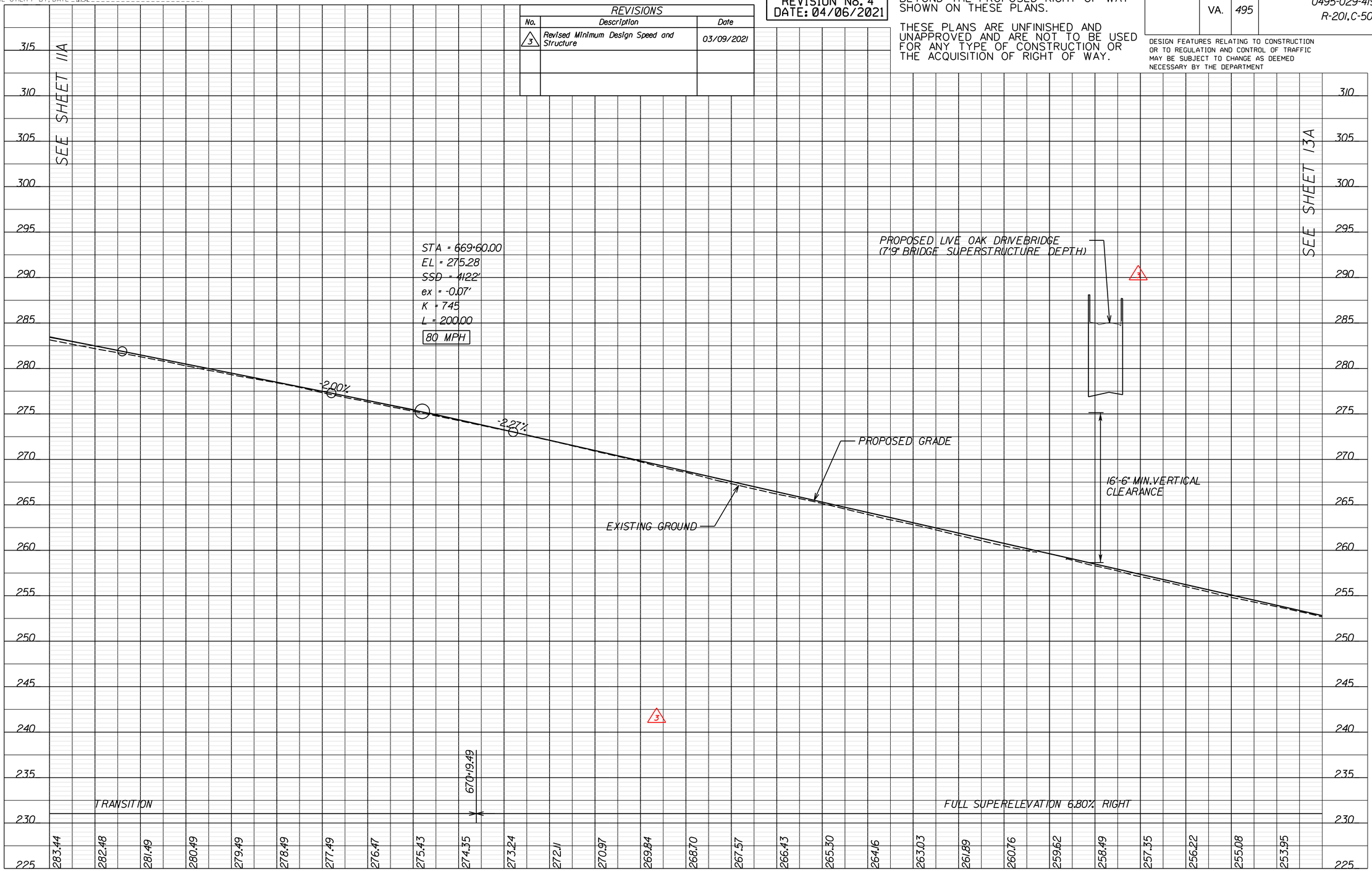
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	12A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	12A

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES SOUTHBOUND

REVISIONS		
No.	Description	Date
3	Revised Minimum Design Speed and Structure	03/09/2021

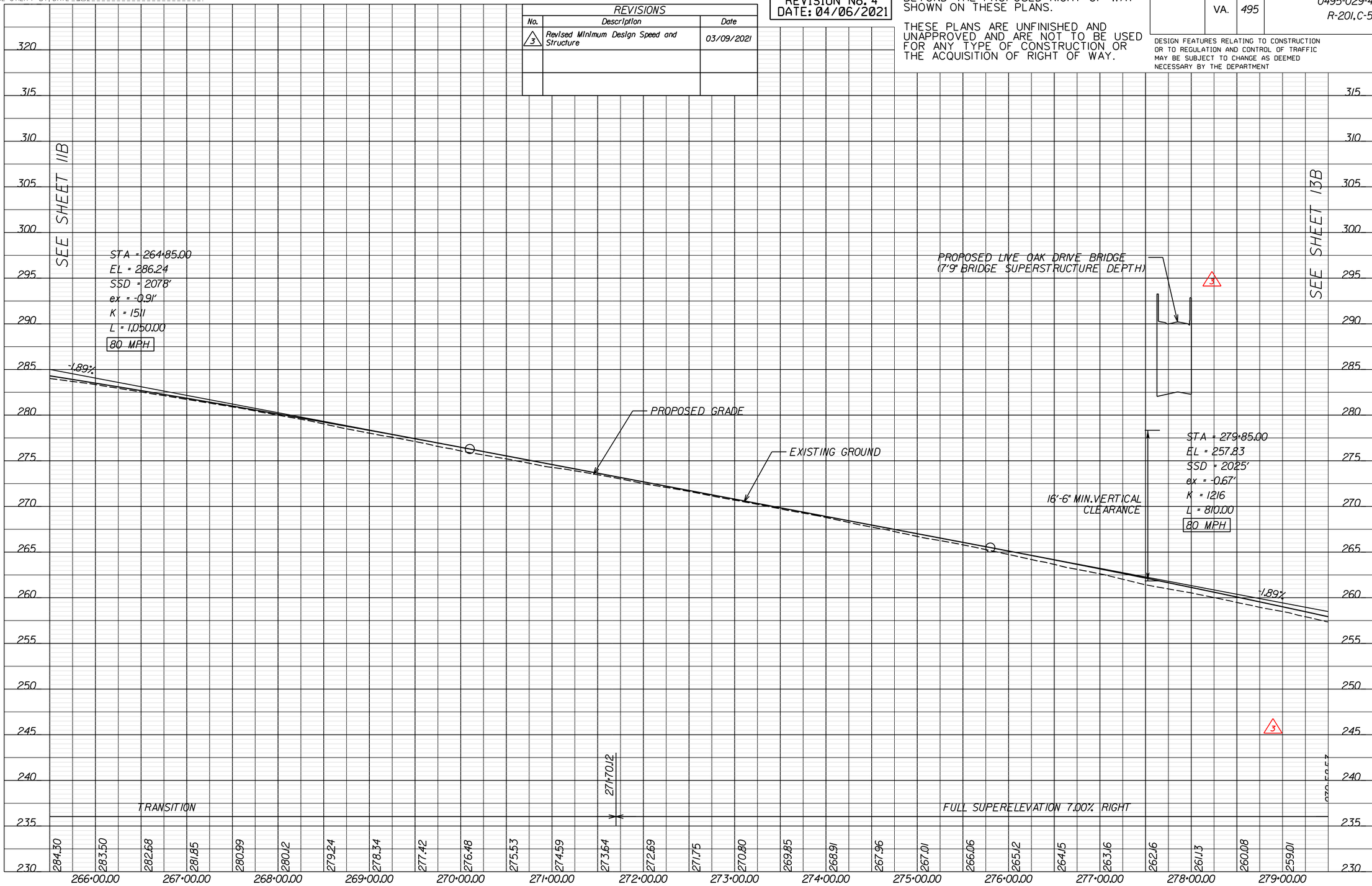
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	12B

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	12B

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP G21

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

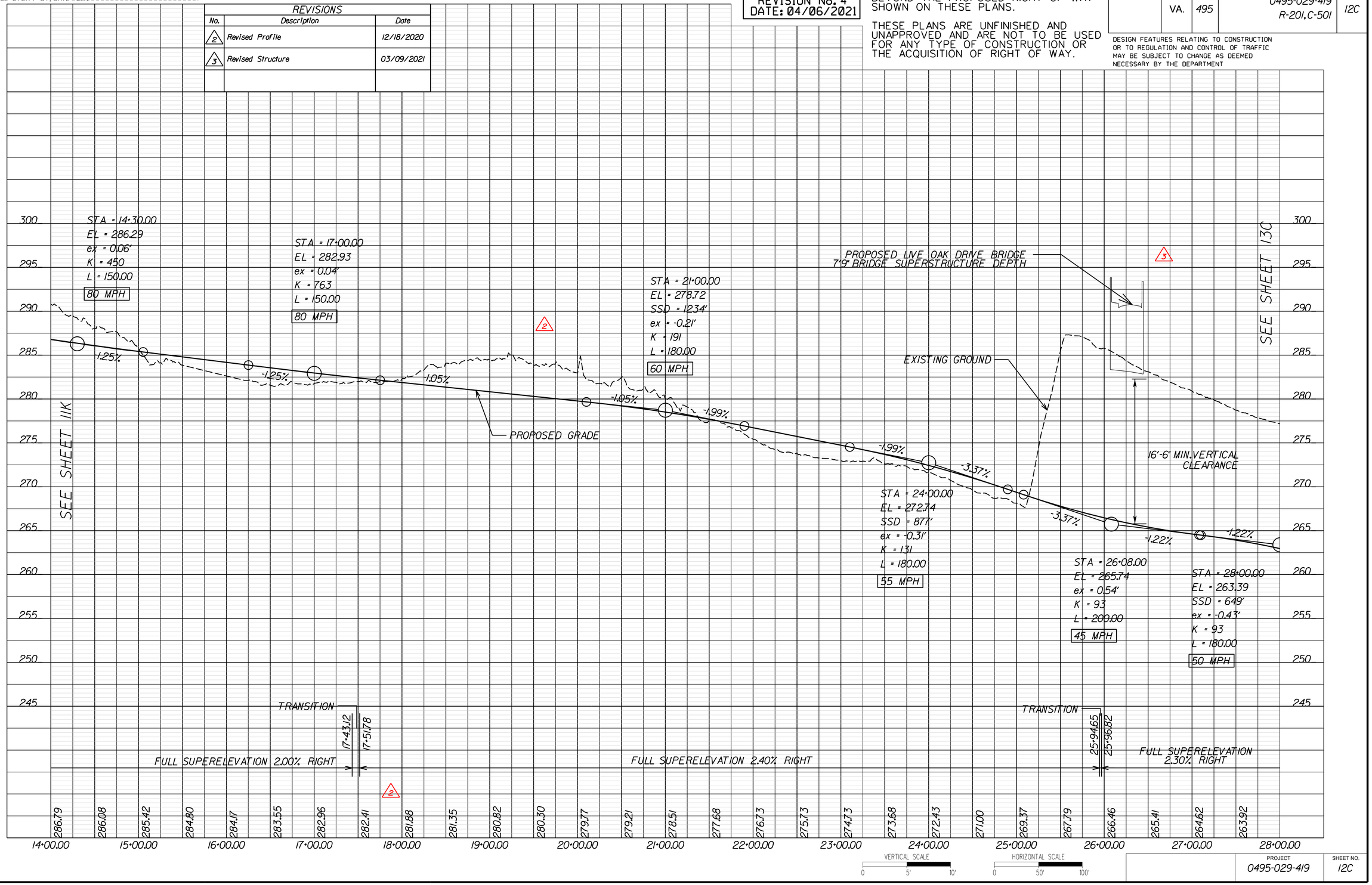
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Revised Profile	12/18/2020
3	Revised Structure	03/09/2021

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	12C

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.
0495-029-419	12C

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

GTP RAMP NW

REVISIONS		
No.	Description	Date
2	Revised Profile	12/18/2020

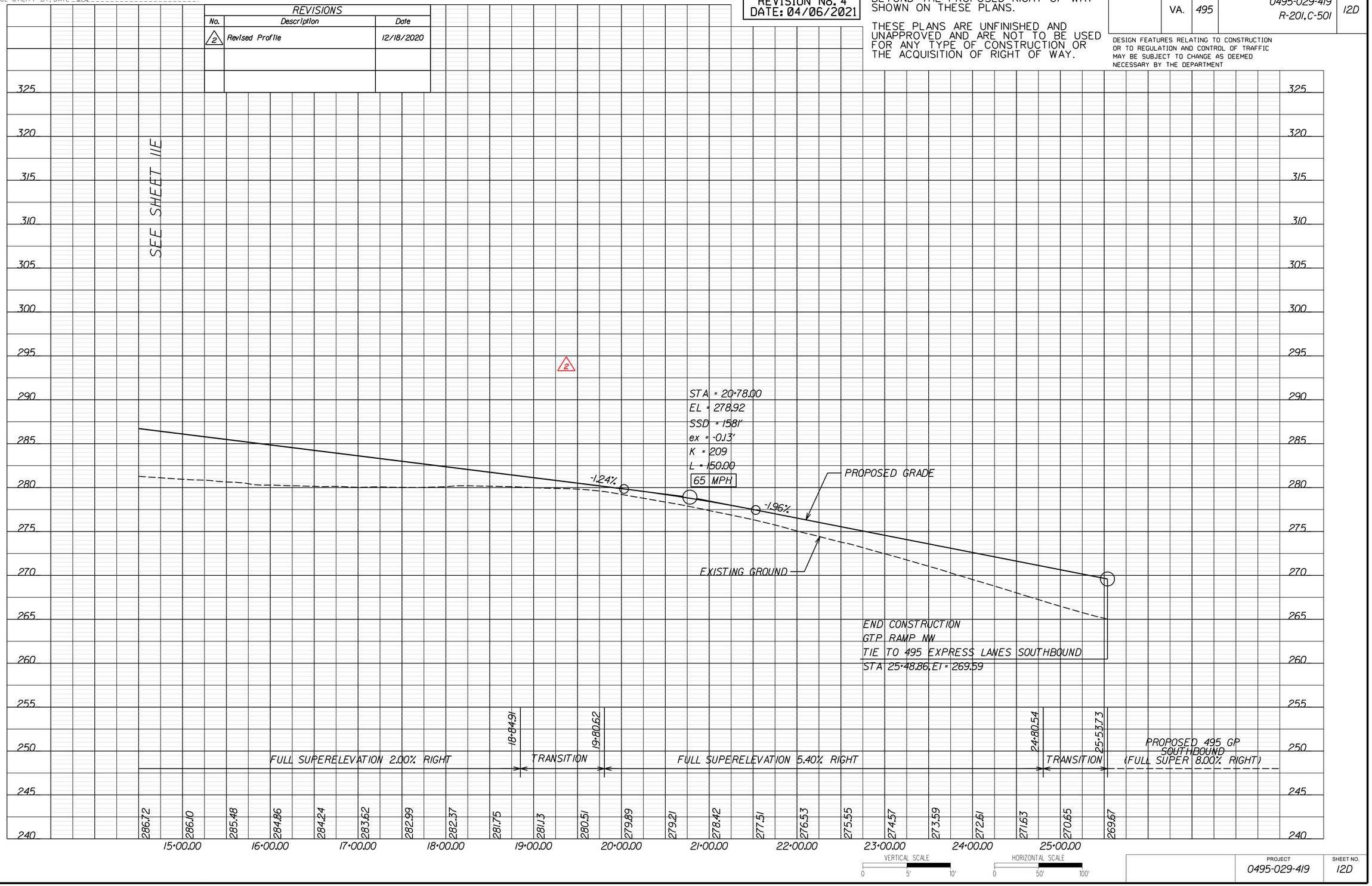
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	12D

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.
0495-029-419	12D

Thursday, April 01, 2021 06:02:50 PM
6:02:50 PM

dxxxxxxsht-12E.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	12E

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

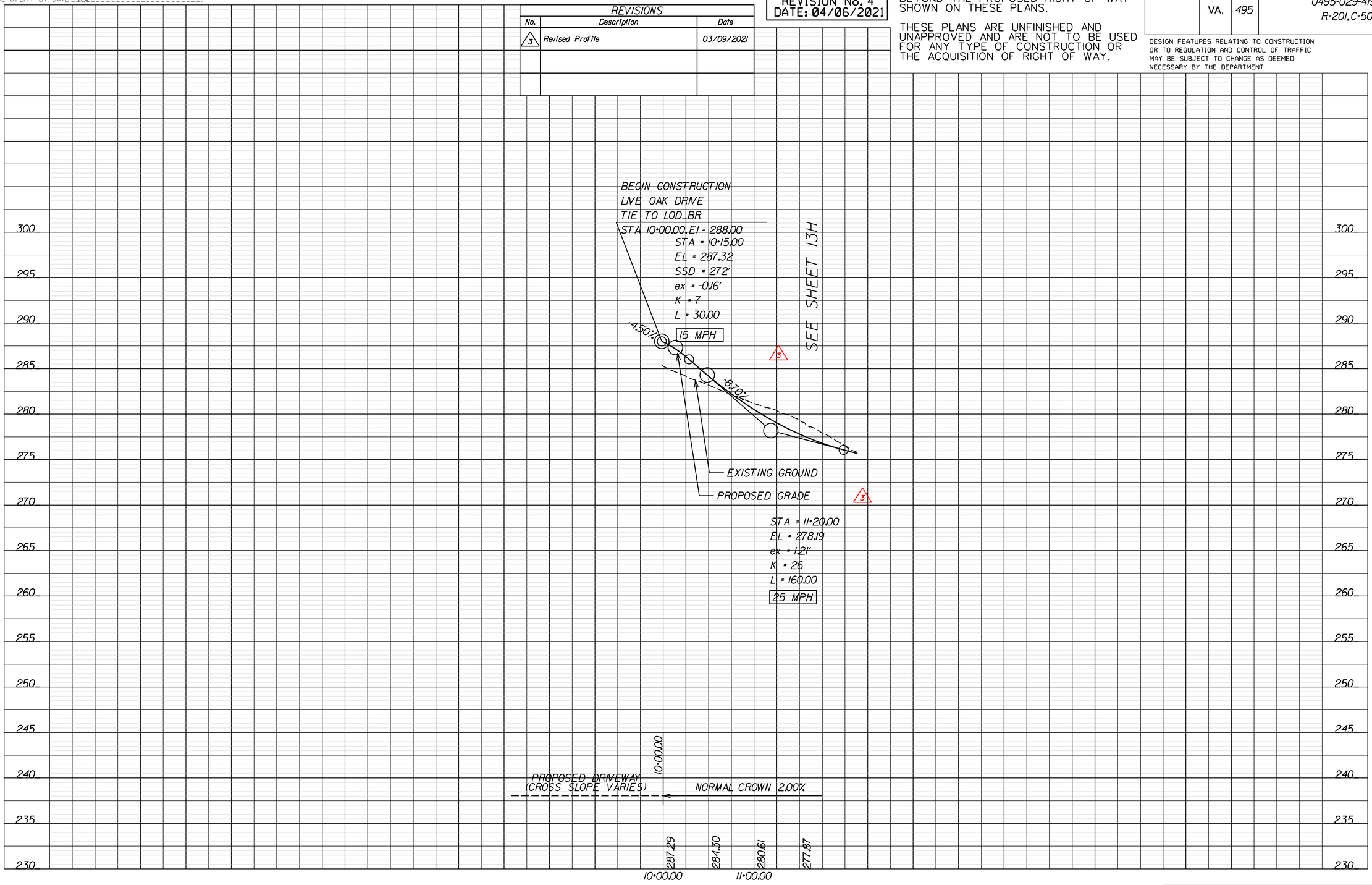
LIVE OAK DRIVE

REVISIONS		
No.	Description	Date
3	Revised Profile	03/09/2021

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	12E

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

BALLS HILL SHARED USE PATH

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

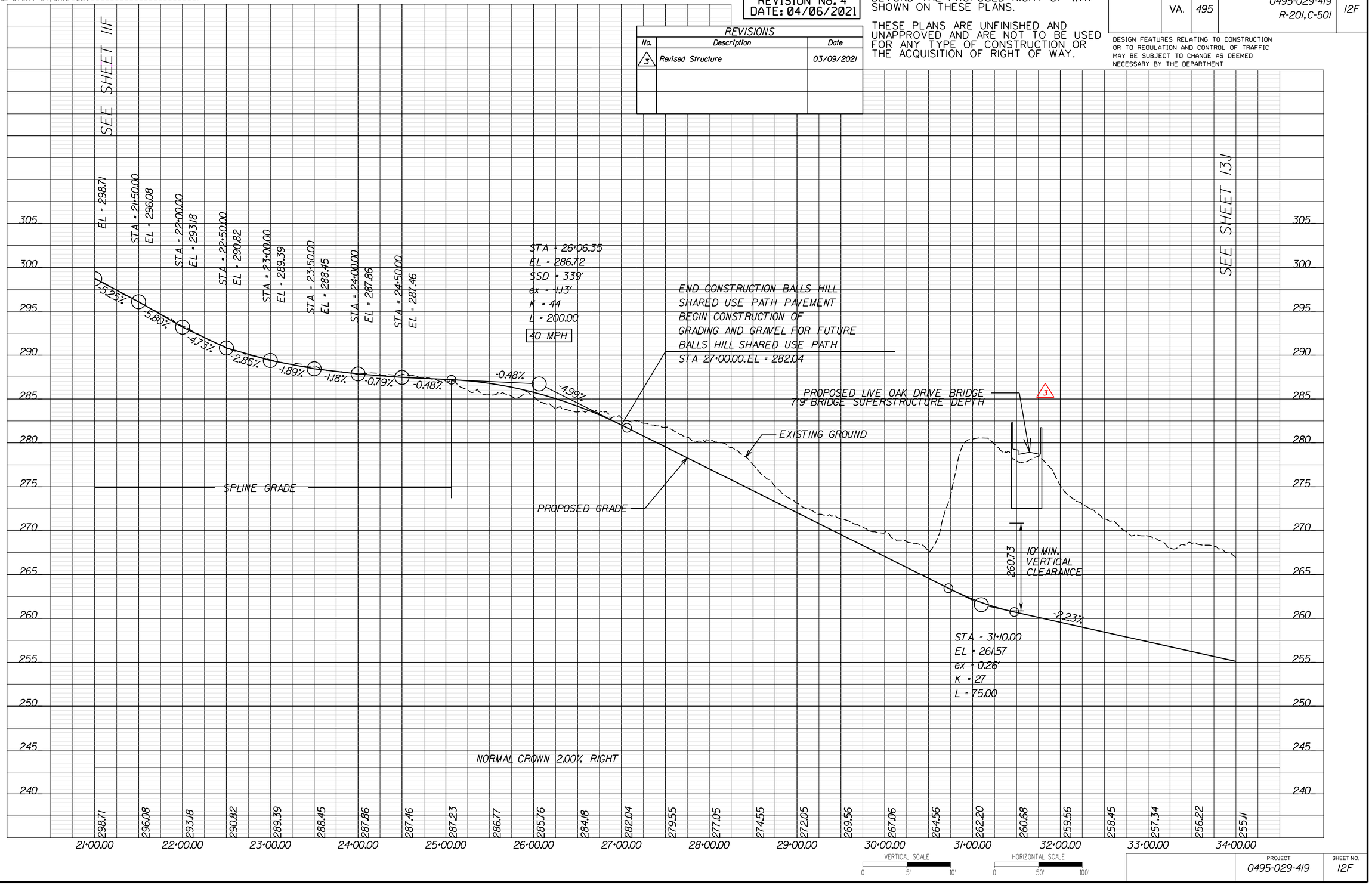
REVISIONS		
No.	Description	Date
3	Revised Structure	03/09/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	12F

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.
0495-029-419	12F

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

GEORGETOWN PIKE NW SLIP RAMP

REVISIONS		
No.	Description	Date
2	Revised Profile	12/18/2020

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

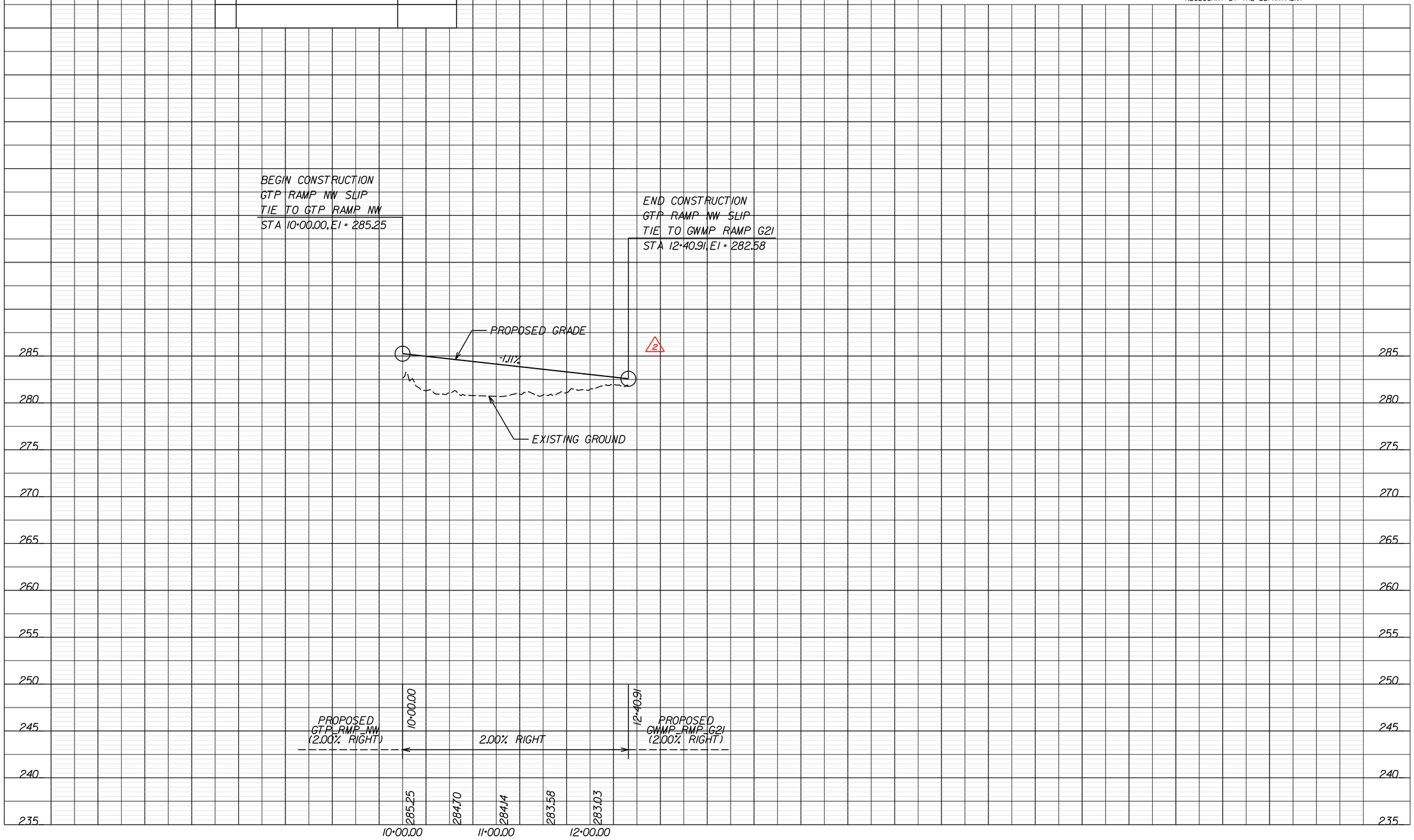
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	12G

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

BEGIN CONSTRUCTION
GTP RAMP NW SLIP
TIE TO GTP RAMP NW
STA 10+00.00, El = 285.25

END CONSTRUCTION
GTP RAMP NW SLIP
TIE TO GWMP RAMP G21
STA 12+40.91, El = 282.58



VERTICAL SCALE
0 5' 10'

HORIZONTAL SCALE
0 50' 100'

PROJECT	SHEET NO.
0495-029-419	12G

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

LIVE OAK DRIVE BRIDGE

REVISIONS		
No.	Description	Date
2	Revised Center Pier, Proposed I-495 Surface, and Label	12/18/2020
3	Revised Profile	03/09/2021

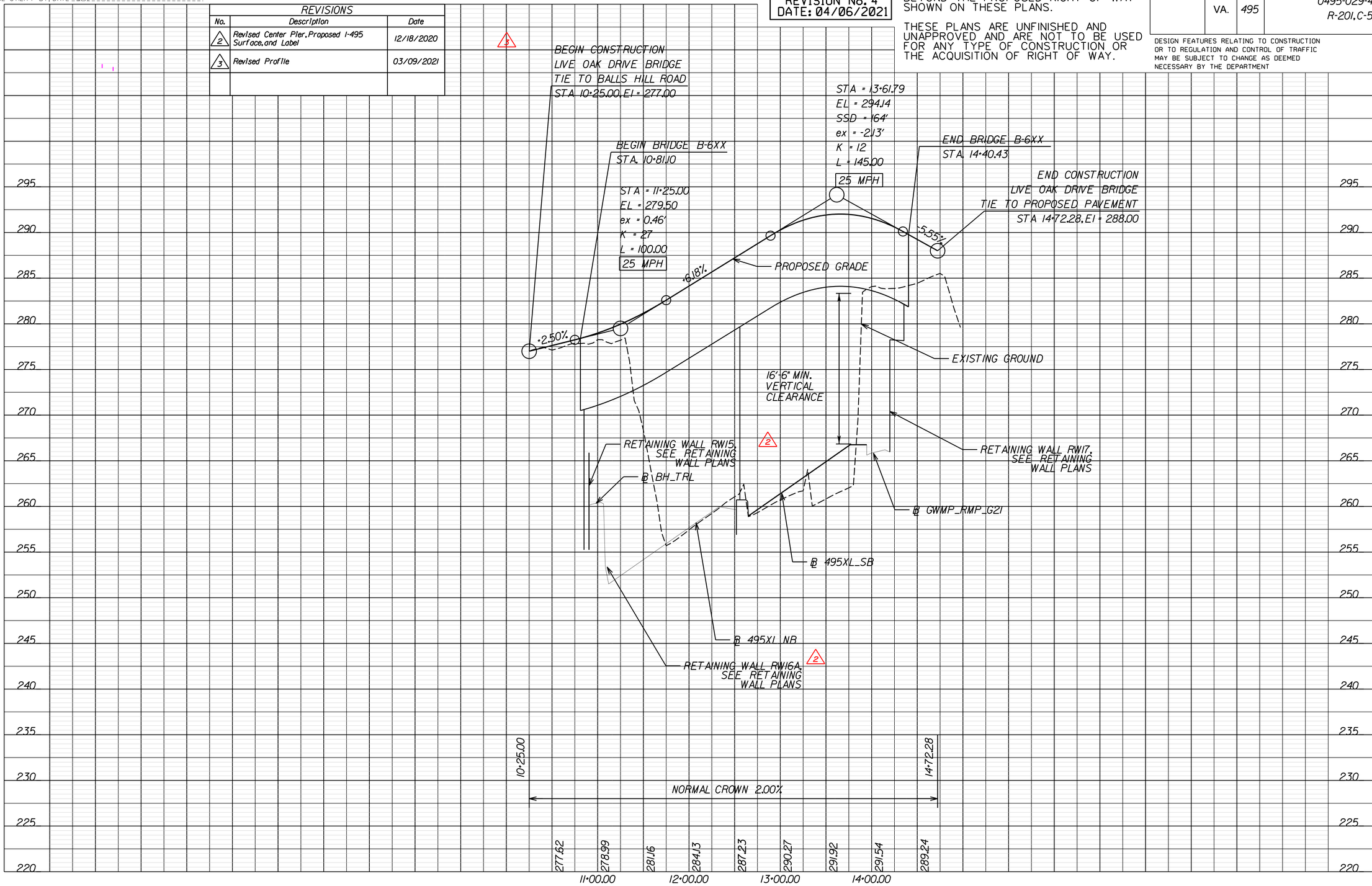
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	12H

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	12H

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

BALLS HILL ROAD

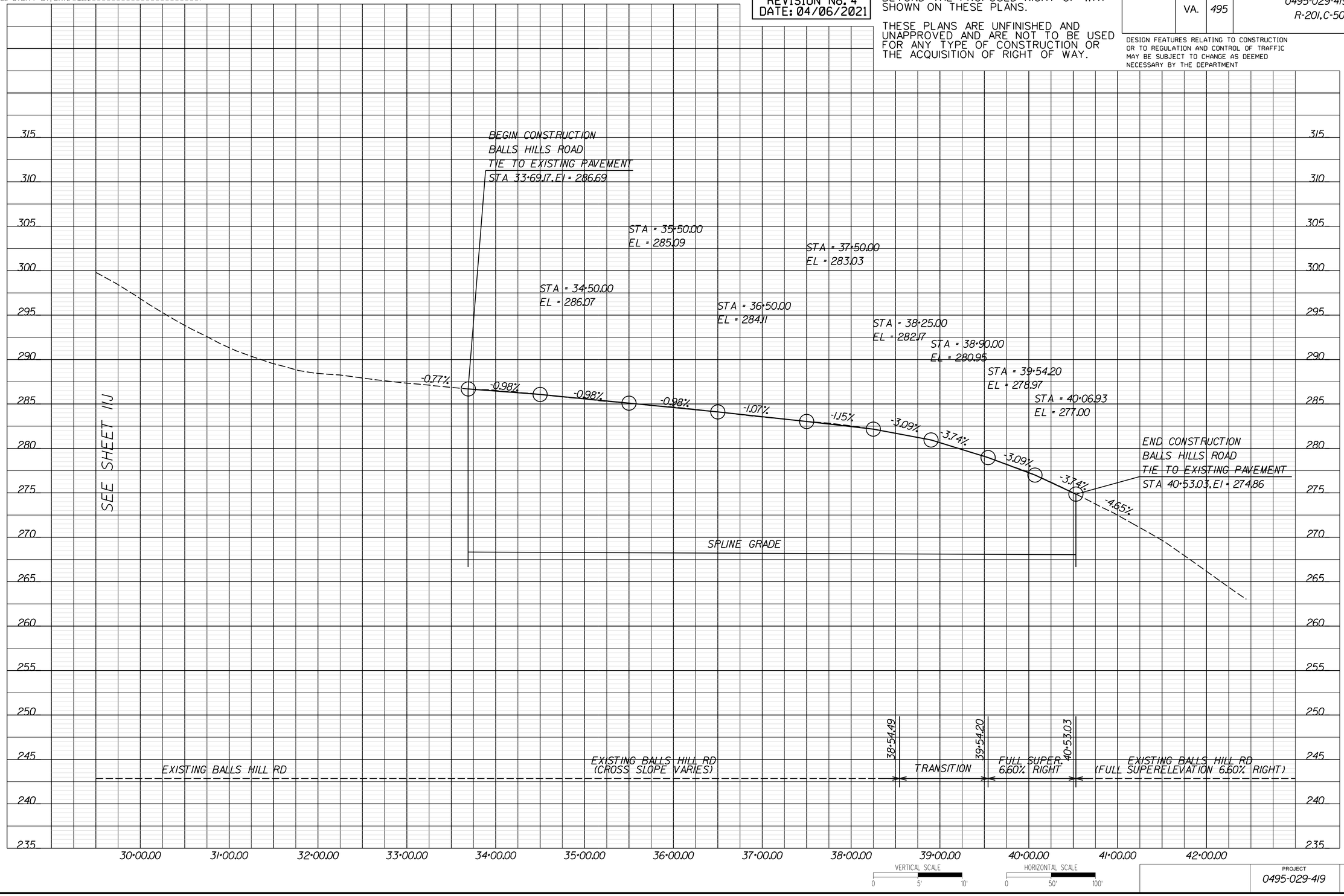
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	12J

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	12J

Thursday, April 01, 2021 06:03:12 PM
6:03:12 PM

dxxxxxxsht-12RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	12RW

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

079
FAIRFAX COUNTY PARK AUTHORITY
DB 12327 PG 2170
328,6262 AC.
TAX MAP# 021-1 01 0003

LANGLEY CLUB, INC.
DB 1556 PG 459
3.250 AC.
TAX MAP# 021-1 01 0008A

028
TRINITY GROUP, LLC
DB 25154 PG 738
5.4598 AC.
TAX MAP# 021-3, 01 0056A

029
JOHN A. LECHUS & LINDA F. LECHUS
DB 5352 PG 779
73,474 SQ.FT.
TAX MAP# 021-1 02 0056A

GWMP RAMP G2N
GTP RAMP NW
I-495 GP LANES SOUTHBOUND
495 EXPRESS LANES SOUTHBOUND
495 EXPRESS LANES NORTHBOUND
I-495 GP LANES NORTHBOUND
BALLS HILL RD
LIVE OAK DRIVE
BENJAMIN ST

Temporary Const.Esmt.
Proposed Perm.Esmt.
Proposed R/W
Prop. R/W
Temporary Const.Esmt.
Temp. Const. Esmt.
Ex. 15' VEPCO Esmt. DB 2535 PG 414
Ex. 8' VEPCO Esmt. DB 6631 PG 1728
Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-2
Exist. R/W Line Per VDOT Highway Plan 0413-029-007, RW-2
Exist. L/A Line Per VDOT Highway Plan 0413-029-007, RW-2
Exist. R/W

Thursday, April 01, 2021 06:03:24 PM
6:03:24 PM

dxxxxxxsht-13.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISIONS		
No.	Description	Date
2	Revised Roadway Lane Configuration, drainage design, and SWM access road	12/18/2020
3	Revised Entrance to Langley Swim Club	03/09/2021
4	Added Interface Line Label	04/06/2021

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	13

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

END ℄ LOD PT 25+07.62

MATCHLINE GWMP_RMP_G22 STA 42+00.00 GWMP_RMP_G21 STA 23+50.00 GWMP_RMP_G22 STA 23+50.00 SEE PLAN SHEET 14

RETAINING WALL RW23 (SEE RETAINING WALL PLANS)
PROPOSED NOISE BARRIER 10

END CONSTRUCTION LIVE OAK DRIVE
℄ LOD STA. 22+40.22

℄ LOD STA. 17+90.00 LT
18' PE-1 REQ'D
TYPE III, GRADE = 0.50%

BEGIN BRIDGE B-6XX
℄ GWMP_RMP_E21
Sta. 13+74.85

RETAINING WALL RW10 (SEE RETAINING WALL PLANS)

℄ LOD STA. 16+25.00 LT
16' PE-1 REQ'D
TYPE III, GRADE = 0.5%

RETAINING WALL RW17B (SEE RETAINING WALL PLANS)

℄ LOD STA. 13+10.00 LT
60' PE-1 REQ'D
TYPE III, GRADE = 0.5%

℄ GWMP RMP G21

Proposed Perm. Esm.

Temp. Const. Esm.

Proposed utility Esm.

Water Booster Pumping Station

℄ GWMP_RMP_G22

END BRIDGE B-6XX
℄ GWMP_RMP_E21
STA. 20+93.68

SWM-12M BIORETENTION

℄ GWMP_RMP_G21

℄ GWMP_RMP_E21

BEGIN BRIDGE B-6XX
℄ GWMP_RMP_E22
STA. 18+55.27

SOUTHBOUND INTERFACE LINE
℄ 495XL_SB

LIVE OAK DRIVE

CG-7 CURB AND GUTTER

GWMP RAMP G21

GWMP RAMP G22

1-495 GP LANES SOUTHBOUND

300' Taper

545' Deceleration Lane

495 EXPRESS LANES SOUTHBOUND

GWMP RAMP E21

GWMP RAMP E22

RETAINING WALL RW20 (SEE RETAINING WALL PLANS)

℄ 495XL_NB

495 EXPRESS LANES NORTHBOUND

1-495 GP LANES NORTHBOUND

365' Transition

700' Merge Lane

℄ 495XL_NBC

℄ GWMP_RMP_E22

℄ GWMP_RMP_G23

MATCHLINE 495XL_SB STA 279+50.000 495XL_NB STA 679+50.000 GWMP_RMP_E22 STA 12+00.00 GWMP_RMP_E23 STA 34+00.00 LOD BH_TRL STA 12+00.00 SEE PLAN SHEET 12

MATCHLINE 495XL_SB STA 293+50.000 495XL_NBC STA 693+50.000 GWMP_RMP_G22 STA 20+50.000 GWMP_RMP_E22 STA 21+54.79 GWMP_RMP_G23 STA 14+50.00 BH_TRL STA 47+75.00 SEE PLAN SHEET 14

Proposed R/W

Temporary Const. Esm.

℄ BH_TRL

RETAINING WALL RW15 (SEE RETAINING WALL PLANS)

PROPOSED NOISE BARRIER 9

RETAINING WALL RW16A (SEE RETAINING WALL PLANS)

RETAINING WALL RW16B (SEE RETAINING WALL PLANS)

RETAINING WALL RW2I (SEE RETAINING WALL PLANS)

RETAINING WALL RW19 (SEE RETAINING WALL PLANS)

END ℄ 495XL_NB POT 687+17.16
BEGIN ℄ 495XL_NBC PC 687+17.16 =
℄ 495XL_NB STA. 687+17.16, 16.00' RT.

BEGIN CONSTRUCTION GWMP RAMP E22
BEGIN ℄ GWMP_RMP_E22 PC 10+00.00 =
℄ 495XL_NB STA. 682+35.20, 12.00' RT.

BEGIN CONSTRUCTION GWMP RAMP G23
BEGIN ℄ GWMP_RMP_G23 POT 8+12.49 =
℄ 495XL_NB STA. 687+17.16, 64.00' RT.

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGS1/1A MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	13

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES NORTHBOUND

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

REVISIONS		
No.	Description	Date
3	Revised Minimum Design Speed	03/09/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	13A

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

SEE SHEET 12A

SEE SHEET 14A

STA = 681+00.00
EL = 249.41
ex = 0.05'
K = 1005
L = 200.00
80 MPH

STA = 685+50.00
EL = 240.09
SSD = 4099'
ex = -0.09'
K = 956
L = 260
80 MPH

STA = 688+23.00
EL = 233.45
ex = 0.13'
K = 421
L = 210.00
80 MPH

STA = 690+33.00
EL = 229.75
SSD = 1149'
ex = -0.03'
K = 2149
L = 210.00
80 MPH

-2.27%
-2.07%
-2.07%
-2.34%
-2.26%
-1.77%
-1.86%

PROPOSED GRADE
EXISTING GROUND
PROPOSED GRADE

236.17 PROFILE SHIFTED 16.0' RIGHT
235.85 END 495XL_NB STA 687+17.16
BEGIN 495XL_NBC STA 687+17.16

3

FULL SUPER ELEVATION 6.80% RIGHT
680+61.83
TRANSITION
685+31.47
FULL SUPERELEVATION 2.00% RIGHT

285 280 275 270 265 260 255 250 245 240 235 230 225 220 215 210 205 200 195

252.81 251.68 250.56 249.46 248.39 247.34 246.30 245.27 244.23 243.20 242.16 241.09 240.00 238.89 237.74 236.58 235.12 234.05 233.05 232.10 231.21 230.32 229.41 228.49 227.56 226.63 225.70 224.77

680+00.00 681+00.00 682+00.00 683+00.00 684+00.00 685+00.00 686+00.00 687+00.00 688+00.00 689+00.00 690+00.00 691+00.00 692+00.00 693+00.00

VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	13A

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES SOUTHBOUND

REVISIONS		
No.	Description	Date
3	Revised Minimum Design Speed	03/09/2021

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	13B

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

SEE SHEET 12B

SEE SHEET 14B

STA = 279+85.00
EL = 257.83
SSD = 2025'
ex = -0.67'
K = 1216
L = 810.00
80 MPH

-2.56%

EXISTING GROUND

PROPOSED GRADE

PROPOSED GWMP RAMP E21 BRIDGE
(10'0" BRIDGE SUPERSTRUCTURE DEPTH)

16'-6" MIN. VERTICAL CLEARANCE

-2.56%

-1.84%

STA = 290+10.00
EL = 231.59
ex = 0.67'
K = 1026
L = 740.00
80 MPH

3

279+85.33	284+47.97	287+92.65	289+44.72	292+18.83
TRANSITION	TRANSITION	FULL SUPERELEVATION 2.0% RIGHT	TRANSITION	FULL SUPERELEVATION 3.80% RIGHT	TRANSITION

257.93	256.82	255.69	254.54	253.36	252.17	250.96	249.73	248.47	247.20	245.92	244.64	243.36	242.08	240.80	239.54	238.30	237.09	235.90	234.73	233.59	232.47	231.38	230.31	229.27	228.25	227.25	226.28

280+00.00 281+00.00 282+00.00 283+00.00 284+00.00 285+00.00 286+00.00 287+00.00 288+00.00 289+00.00 290+00.00 291+00.00 292+00.00 293+00.00

VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	13B

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP G21

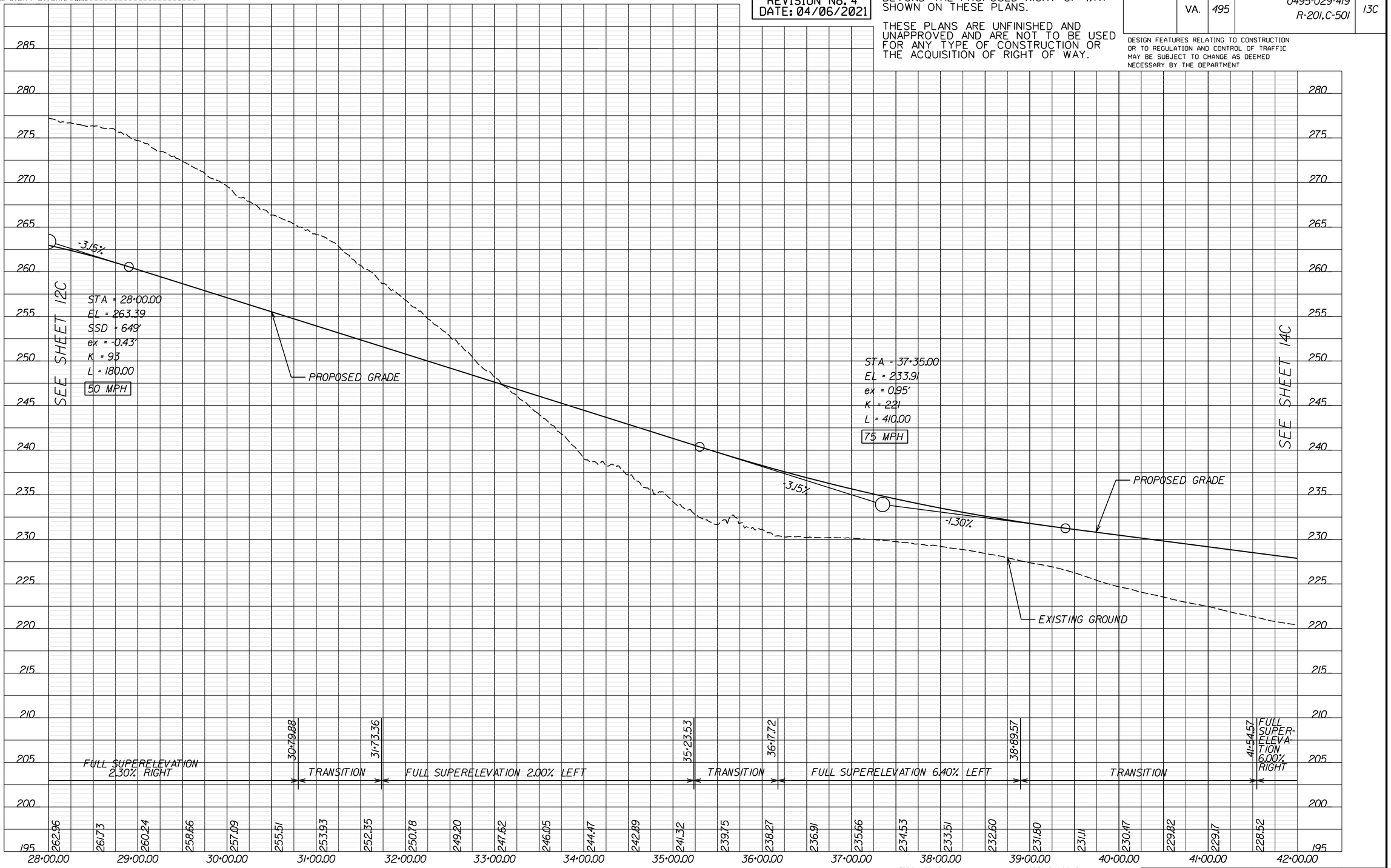
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	13C

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	13C

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP E21

REVISIONS		
No.	Description	Date
3	Revised Minimum Design Speed on I-495	03/09/2021

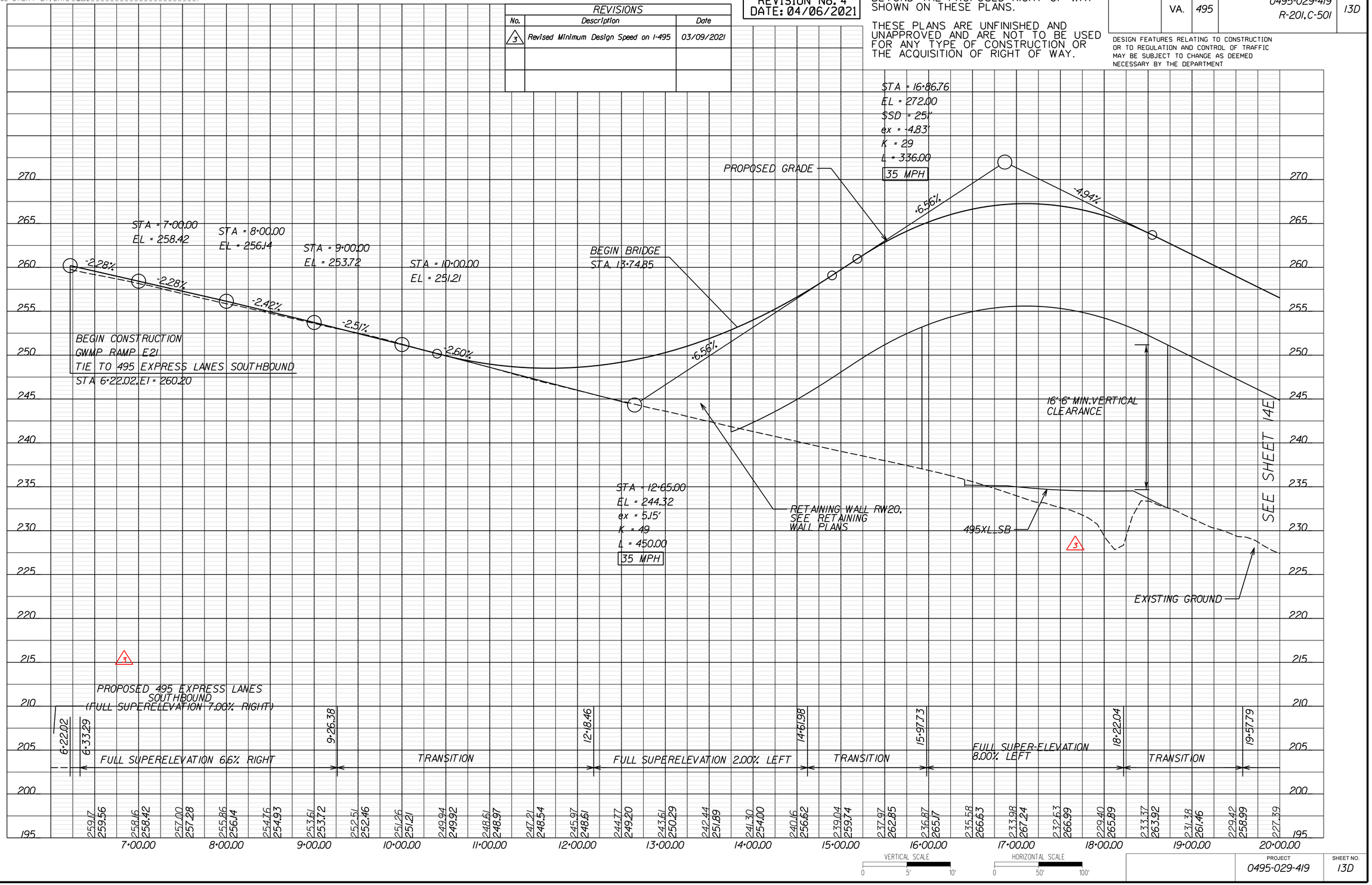
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	13D

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



VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	13D

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP E22

REVISIONS		
No.	Description	Date
3	Revised Minimum Design Speed on I-495	03/09/2021

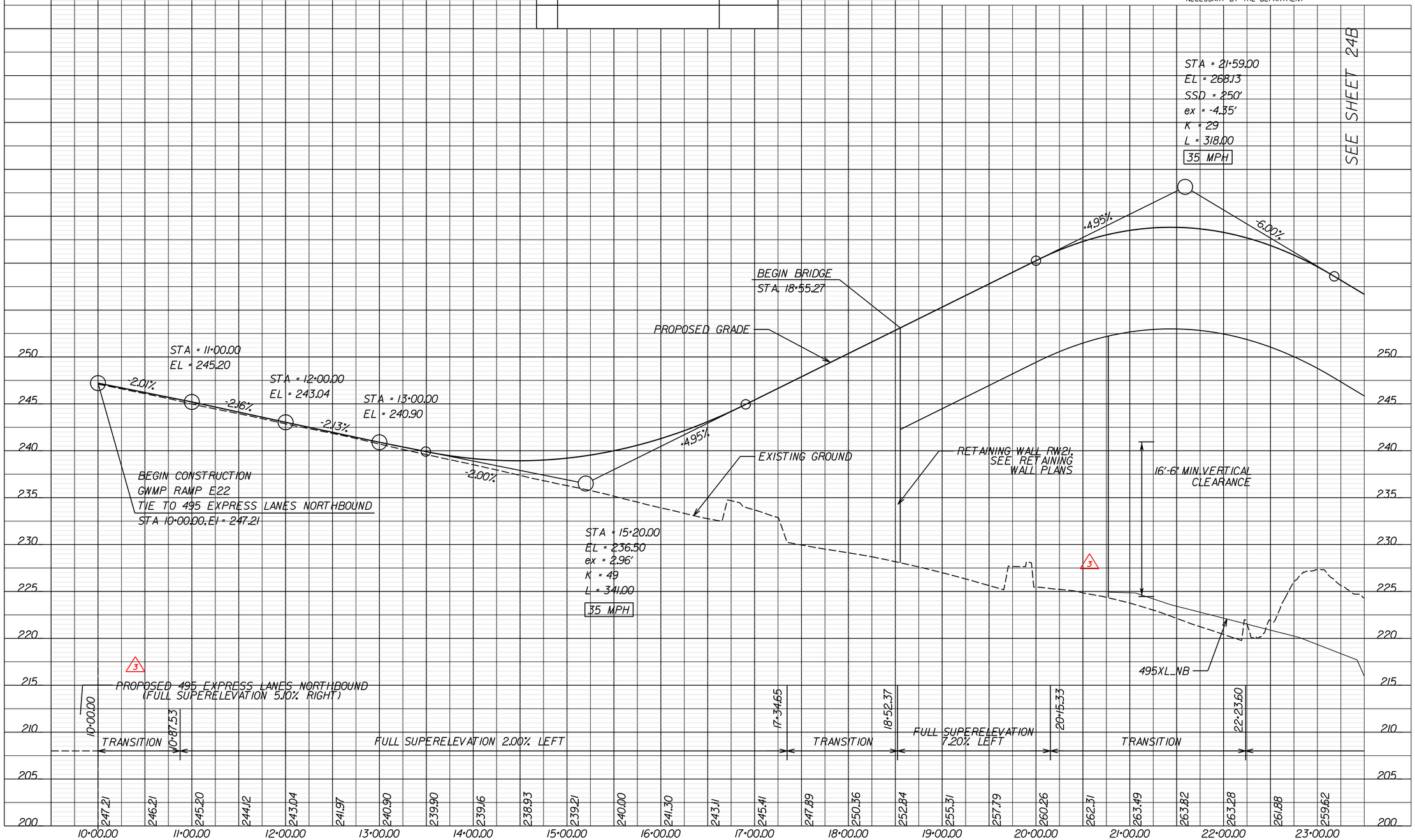
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	13E

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	13E

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP G22

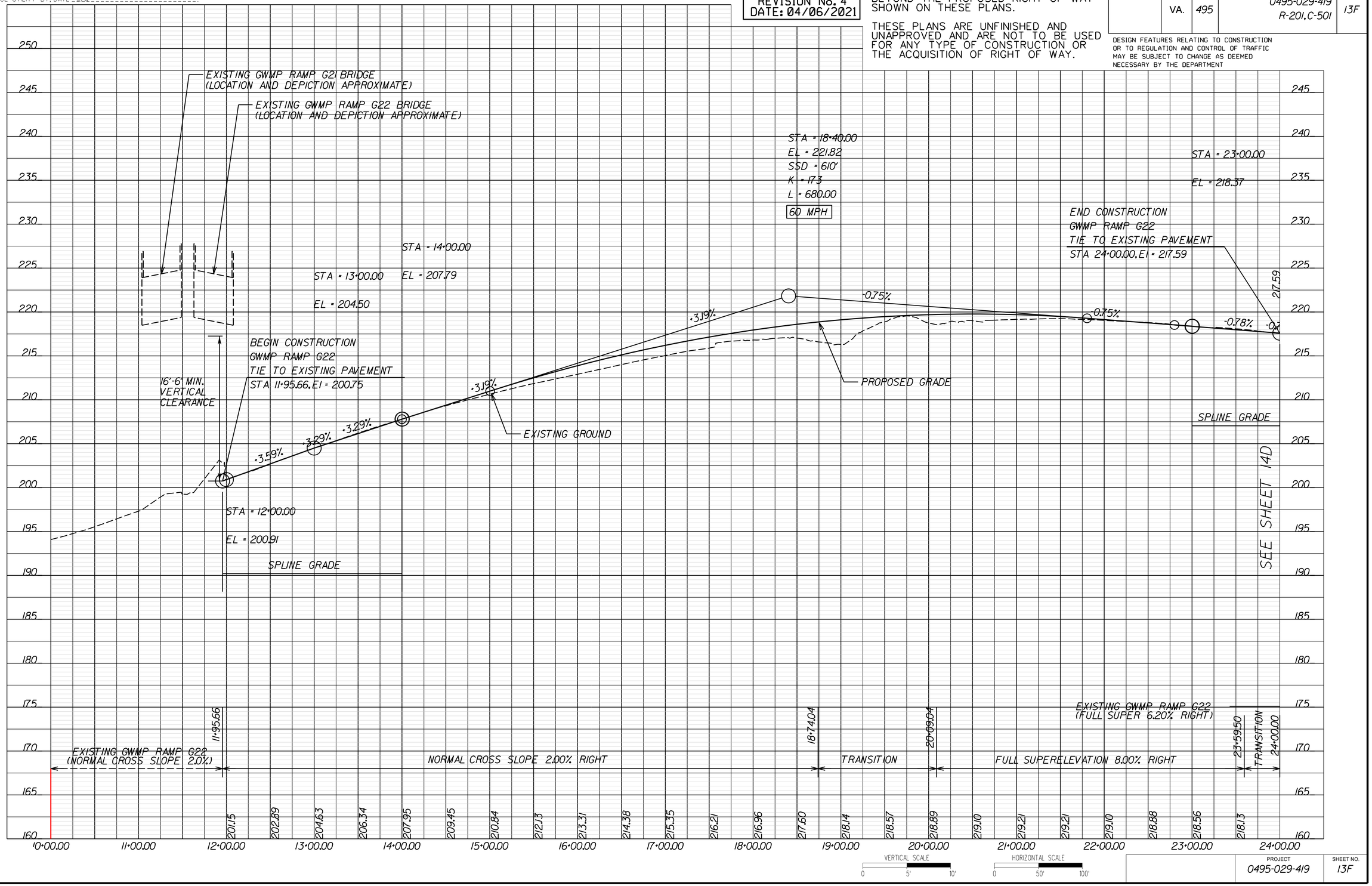
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	13F

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



VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	13F

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

GWMP RAMP G23

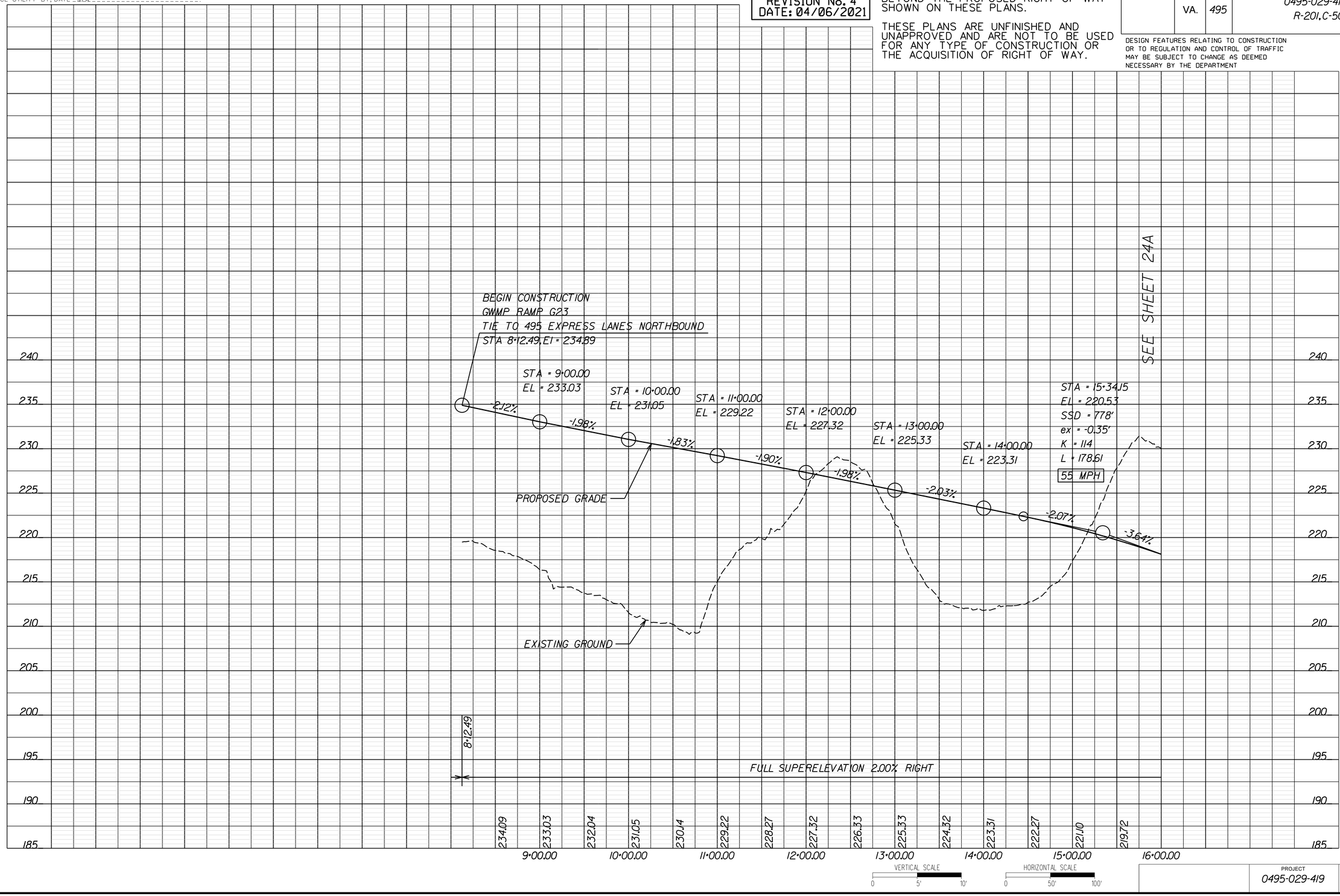
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	13G

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.
0495-029-419	13G

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

LIVE OAK DRIVE

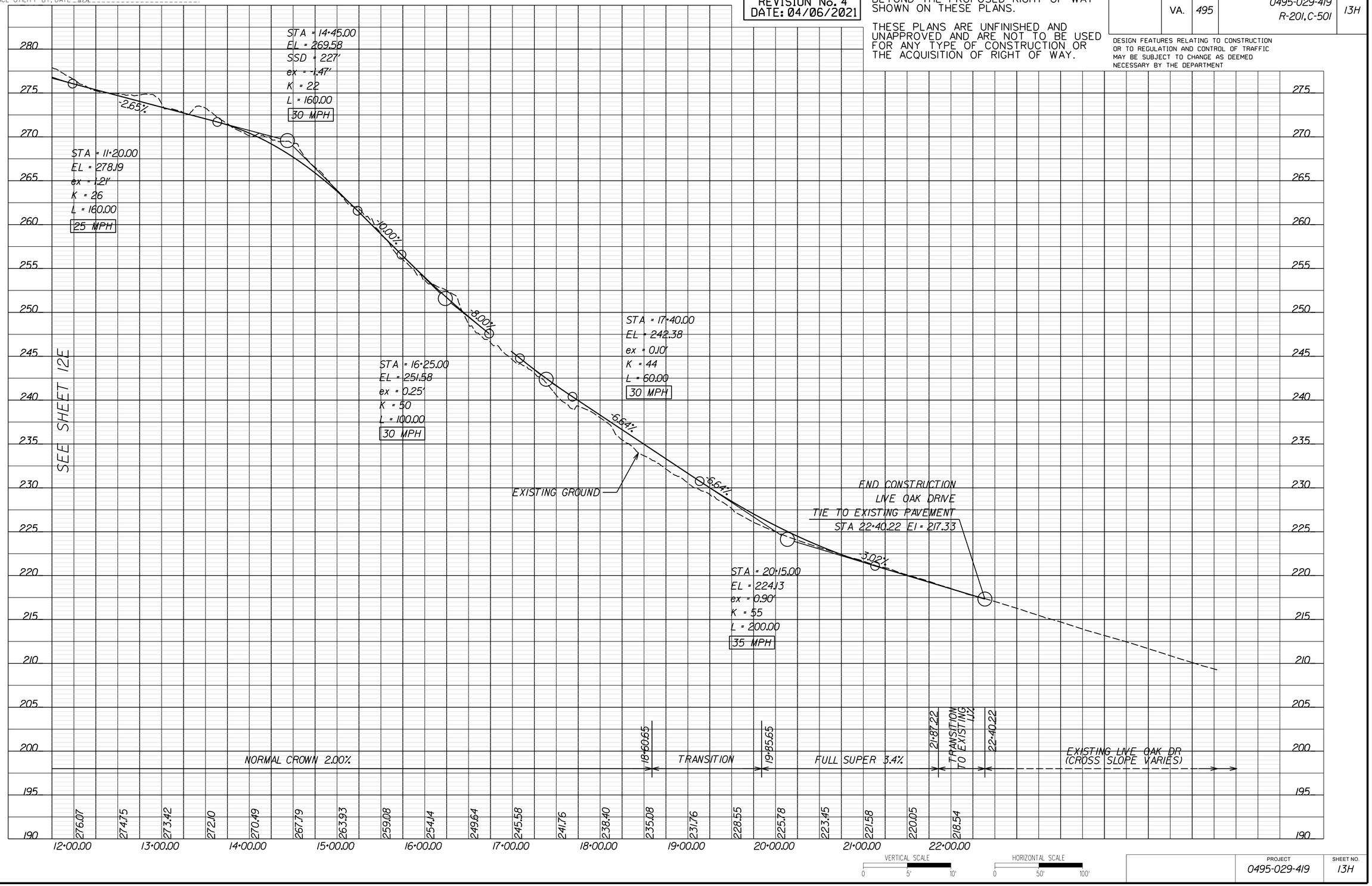
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	13H

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	13H

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

BALLS HILLS SHARED USE PATH

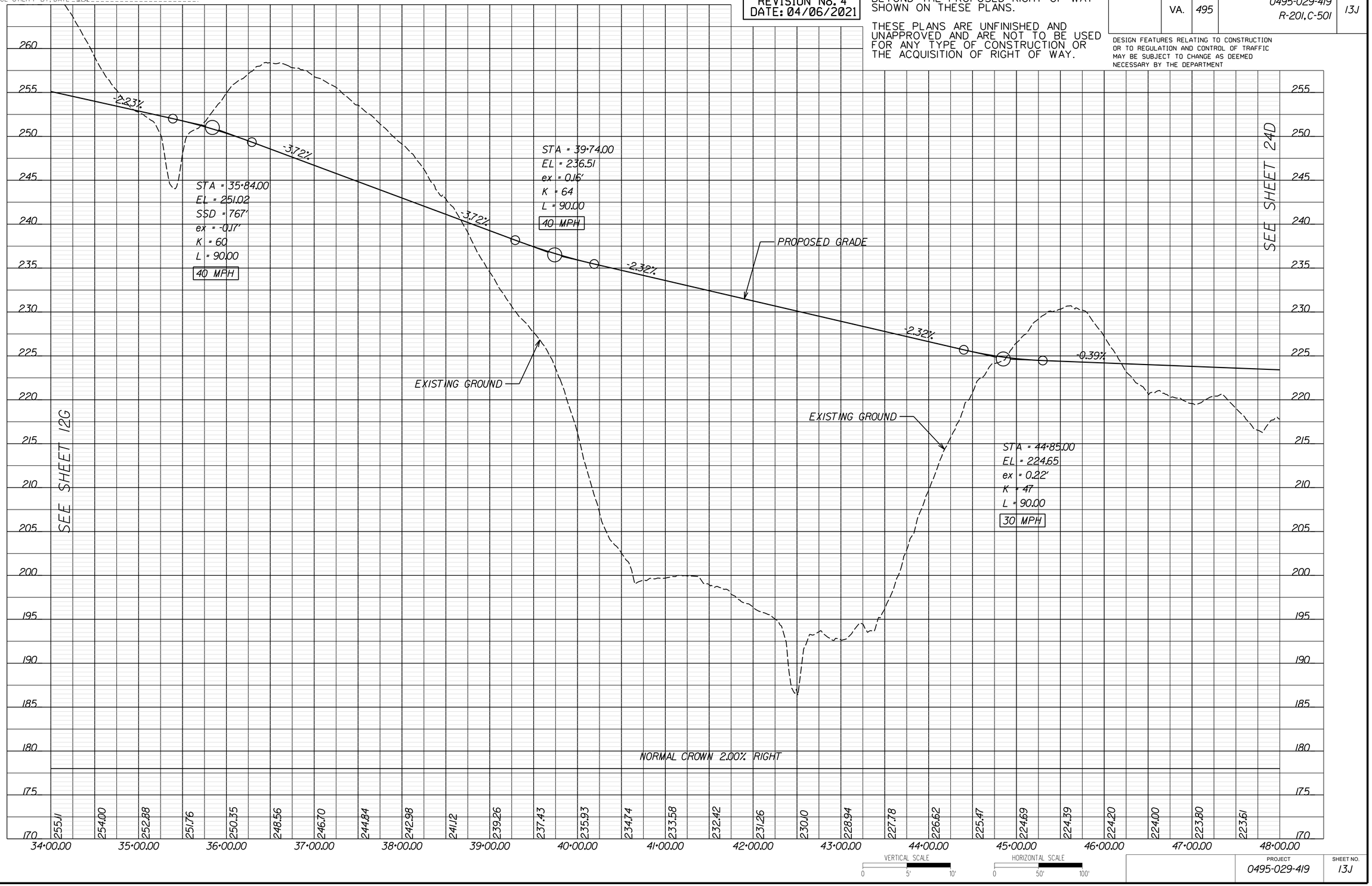
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	13J

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	13J

Thursday, April 01, 2021 06:04:11 PM
6:04:11 PM

dxxxxxxsht-13RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	13RW

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

LANGLEY CLUB, INC.
DB 1793 PG 495
1.3774 AC.
TAX MAP# 021-1 01 0007A

082 ANTONIO J. CACHAY & SYLVIA CACHAY
DB 5659 PG 1490
54,538 SQ.FT
TAX MAP# 021-1 05 0001

089 APRIL GEORGELAS
DB 9849 PG 562
DB 4585 PG 697 (Plat)
2.81669 AC.
TAX MAP# 021-1 01 0007

081 LANGLEY CLUB, INC.
DB 1556 PG 459
3.250 AC.
TAX MAP# 021-1 01 0008A

JOANNE S. WYMAN
DB 9258 PG 412
38,131 SQ.FT
TAX MAP# 021-1 05 0002

035 LABIB JOSEPH CHAMMAS, TRUSTEE
DB 23988 PG 376
30,382 SQ.FT
TAX MAP# 021-2 03 0095R

SEE MATCHLINE PLAN SHEET 14RW

GWMP RAMP G22

LIVE OAK DRIVE

GWMP RAMP G21

I-495 GP LANES SOUTHBOUND

495 EXPRESS LANES SOUTHBOUND

GWMP RAMP E21

GWMP RAMP E22

495 EXPRESS LANES NORTHBOUND

I-495 GP LANES NORTHBOUND

MATCHLINE
495XL_SB STA 293+50.000
495XL_NBC STA 693+50.000
GWMP_RMP_G22 STA 20+50.000
GWMP_RMP_E22 STA 21+54.79
GWMP_RMP_G23 STA 12+50.00
BH-1RL STA 47+75.00
SEE PLAN SHEET 14RW

MATCHLINE
495XL_NB SB STA 279+50.000
495XL_NBC STA 679+50.000
GWMP_RMP_E21 STA 28+00.00
GWMP_RMP_G21 STA 74+66.62
LOD STA 13+25.00
BH-1RL STA 47+50.000
SEE PLAN SHEET 12RW

B LOD STA. 17+90.00 LT
B LOD STA. 16+25.00
B LOD STA. 13+10.00 LT

Ex. 15' Storm Drainage Esmt. DB 4585 PG 697
Ex. 100 yr. Floodplain & Storm Drainage Esmt. DB 5589 PG 818
Ex. Esmt. for Natural and Stormwater Drainage DB 4585 PG 697
Ex. Ingress-Egress Esmt. DB 4585 PG 697
Ex. Esmt. for Right of Use DB 4585 PG 697
Proposed Utility Esmt.
Ex. 30' Ingress-Egress Esmt. DB 5545 PG 156
Temp. Const. Esmt.
Proposed Perm. Esmt.
Ex. VEPCO Esmt. DB 1989 PG 204
Prop. R/W
Temporary Const. Esmt.
Ex. 20' Storm Drainage Esmt. DB 4375 PG 716
Ex. 15' City of Falls Church Water Esmt. DB 4375 PG 716
Ex. Storm Drainage Esmt. DB 4375 PG 716
Ex. Storm Sewer & Drainage Esmt. DB 1476 PG 424
Ex. Storm Sewer & Drainage Esmt. DB 1476 PG 424
Ex. Drainage Esmt. DB 1568 PG 583
Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-2

JOHN A. LECHUS & LINDA F. LECHUS
DB 5352 PG 779
73,474 SQ.FT
TAX MAP# 021-1 02 0056A

030 GEORGE GARNER & SAMANTHA GARNER
DB 25050 PG 1882
79,196 SQ.FT
TAX MAP# 021-1 02 0054A

VEENA RAILAN
DB 13292 PG 1233
41,303 SQ.FT
TAX MAP# 021-2 03 0038

C PING ZHOU & HENGXIANG YANG
DB 13560 PG 511
42,595 SQ.FT
TAX MAP# 021-2 03 0039

D CHRISTINA KANO
DB 24805 PG 1689
39,225 SQ.FT
TAX MAP# 021-2 03 0093R

034 VINEET VENUGOPAL & MADHAVI LATHA MENON
DB 25850 PG 368
45,830 SQ.FT
TAX MAP# 021-2 03 0094R

LEGEND

C ----	CONSTRUCTION LIMITS IN CUTS
F ----	CONSTRUCTION LIMITS IN FILLS
	PROJECTS BY OTHERS
	PROPOSED PAVEMENT
	PROPOSED SWM AREA
	EXISTING RIGHT OF WAY PROPERTY LINES
Proposed R/W	PROPOSED RIGHT OF WAY
Prop. Perm. Esmt.	PROPOSED PERMANENT EASEMENT
Temp. Const. Esmt.	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
Prop. Utility Esmt.	PROPOSED UTILITY EASEMENT

REVISIONS

No.	Description	Date
3	Update for Pool Entrance Revision	03/09/2021

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100' | PROJECT 0495-029-419 | SHEET NO. 13RW

Thursday, April 01, 2021 06:04:25 PM
6:04:25 PM

d:xxxxxxsht-14.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	14

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

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

PROPOSED NOISE BARRIER GG
RAMP G21/E21 INTERFACE LINE
℄ GWMP_RMP_E21
LIVE OAK DRIVE
RETAINING WALL RW10 (SEE RETAINING WALL PLANS)
GWMP RAMP G21
GWMP RAMP E21
PROPOSED NOISE BARRIER 10
RETAINING WALL RW25 (SEE RETAINING WALL PLANS)
RETAINING WALL RW23 (SEE RETAINING WALL PLANS)
GWMP RAMP G22
GREEN OAK DR
Existing Right Of Way Per VDOT Highway Plans Dated 1929-2007, RW-2 Per Existing Highway Plans The Location Of The Limited Access Line Is Uncertain As To The Location Of The Limited Access Line In This Area
PROPOSED NOISE BARRIER C
BEGIN CONSTRUCTION GWMP RAMP G22
℄ GWMP_RMP_G22 STA. 11+95.66
BEGIN BRIDGE B-6XX
℄ GWMP_RMP_G21 STA. 54+96.28
END CONSTRUCTION 495 EXPRESS LANES SOUTHBOUND I-495 GP LANES SOUTHBOUND
℄ 495XL_SB STA. 302+24.26
END ℄ GWMP_RMP_G22 POT 10+00.00 =
℄ 495XL_SB STA. 304+21.95, 71.95' LT
MATCHLINE 495XL_SB STA 307+00.00 SEE PLAN SHEET 15
END CONSTRUCTION GWMP RAMP G22
℄ GWMP_RMP_G22 STA. 24+00.00
END CONSTRUCTION GWMP RAMP E21
END ℄ GWMP_RMP_E21 PT 29+68.07 =
℄ GWMP_RMP_G21 PT 49+49.40
END CONSTRUCTION GWMP RAMP G21
℄ GWMP_RMP_G21 STA. 51+50.00
MATCHLINE GWMP_RMP_G21 STA 42+00.00 GWMP_RMP_E21 STA 22+50.00 GWMP_RMP_G22 STA 23+50.00 SEE PLAN SHEET 13
℄ GWMP_RMP_G22
℄ GWMP_RMP_G21
℄ GWMP_RMP_G22
℄ 495XL_SB
℄ GWMP_RMP_E22
℄ GWMP_RMP_G23
℄ BH_TRL
495 EXPRESS LANES SOUTHBOUND
I-495 GP LANES SOUTHBOUND
495 EXPRESS LANES NORTHBOUND
I-495 GP LANES NORTHBOUND
700' Merge Lane
465' Taper
℄ 495XL_NBC
NORTHBOUND INTERFACE LINE
Varies
Proposed R/W
Proposed Perm. Esmt.
PROPOSED NOISE BARRIER 9
036
037
END PROJECT 0495-029-419
END CONSTRUCTION 495 EXPRESS/GP LANES NB
℄ 495XL_NBC STA. 702+83.29
MATCHLINE 495XL_SB STA 293+50.00 495XL_NBC STA 693+50.00 GWMP_RMP_G22 STA 20+50.00 GWMP_RMP_E22 STA 21+54.79 GWMP_RMP_G23 STA 12+50.00 BH_TRL STA 47+75.00 SEE PLAN SHEET 13
MATCHLINE GWMP_RMP_G21 STA 57+95.04 GWMP_RMP_G22 STA 38+00.00 GWMP_RMP_E22 STA 24+22.05 GWMP_RMP_G23 STA 17+15.00 BH_TRL STA 50+25.00 SEE PLAN SHEET 24

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
1	Revised guardrail layout and added impact attenuator	11/13/2020
2	Added proposed noise barrier GG	12/18/2020
3	Revised proposed noise barrier	03/09/2021
4	Added Interface Line Labels	04/06/2021

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	14

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

495 EXPRESS LANES NORTHBOUND

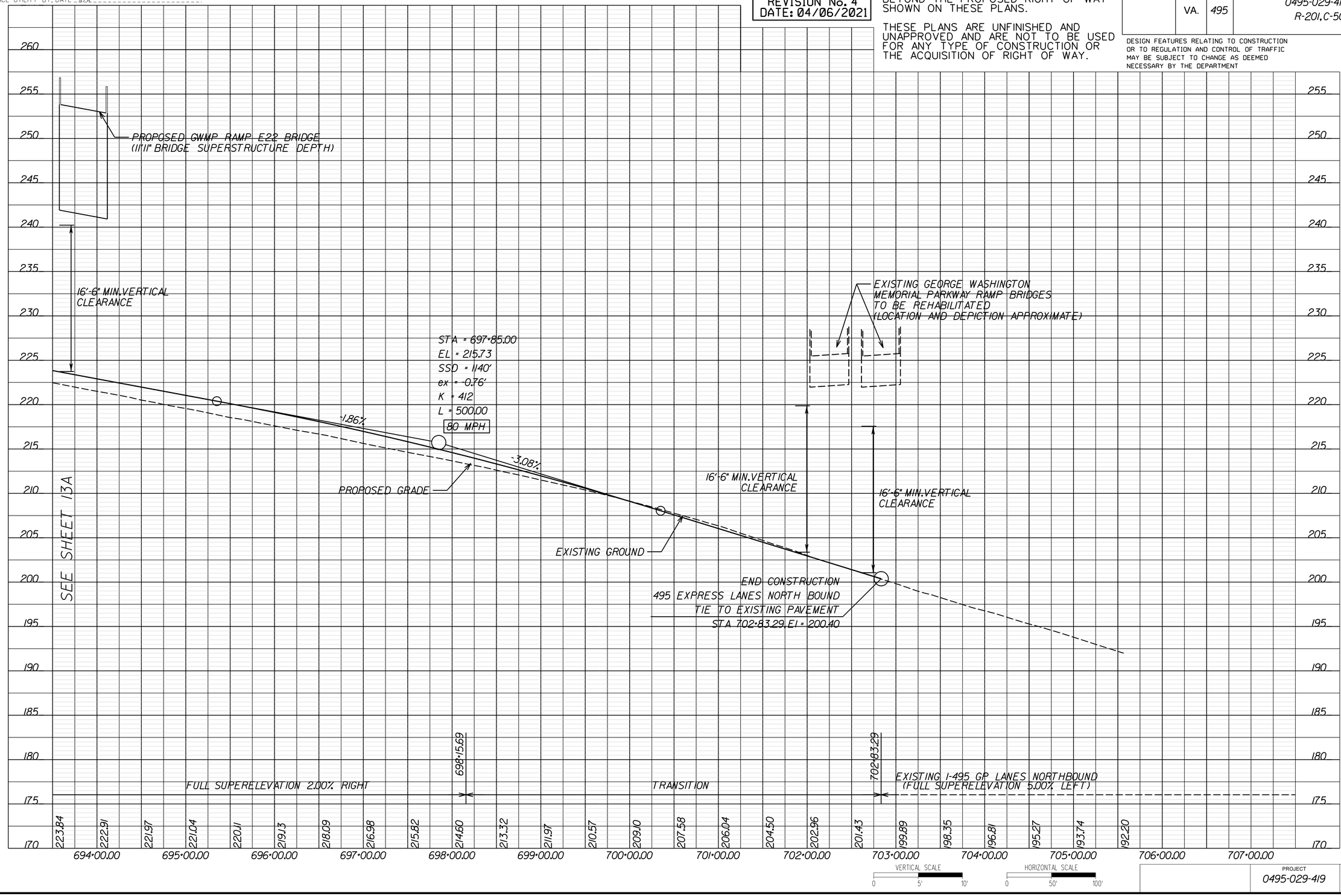
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	14A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	14A

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

495 EXPRESS LANES SOUTHBOUND

REVISIONS		
No.	Description	Date
3	Revised Minimum Design Speed	03/09/2021

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	14B

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

SEE SHEET 13B

STA = 297+90.00
EL = 217.24
SSD = 1342'
ex = -1.19'
K = 708
L = 820.00
80 MPH

-1.84%

-3.00%

PROPOSED GRADE

EXISTING GEORGE WASHINGTON MEMORIAL PARKWAY RAMP BRIDGES

EXISTING GROUND

END CONSTRUCTION
495 EXPRESS LANES SOUTHBOUND
TIE TO EXISTING PAVEMENT
STA 302+24.26, El = 204.23

TRANSITION

299+94.75

FULL SUPER-ELEVATION 3.30% LEFT

302+16.54 TRAN

302+24.26

EXISTING I-495 GP LANES SOUTHBOUND (FULL SUPERELEVATION 3.20% LEFT)

3

225.34 224.41 223.46 222.47 221.45 220.39 219.30 218.17 217.01 215.81 214.58 213.31 212.01 210.67 209.29 207.88 206.44 204.96

294+00.00 295+00.00 296+00.00 297+00.00 298+00.00 299+00.00 300+00.00 301+00.00 302+00.00 303+00.00 304+00.00 305+00.00 306+00.00 307+00.00

VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	14B

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP G21

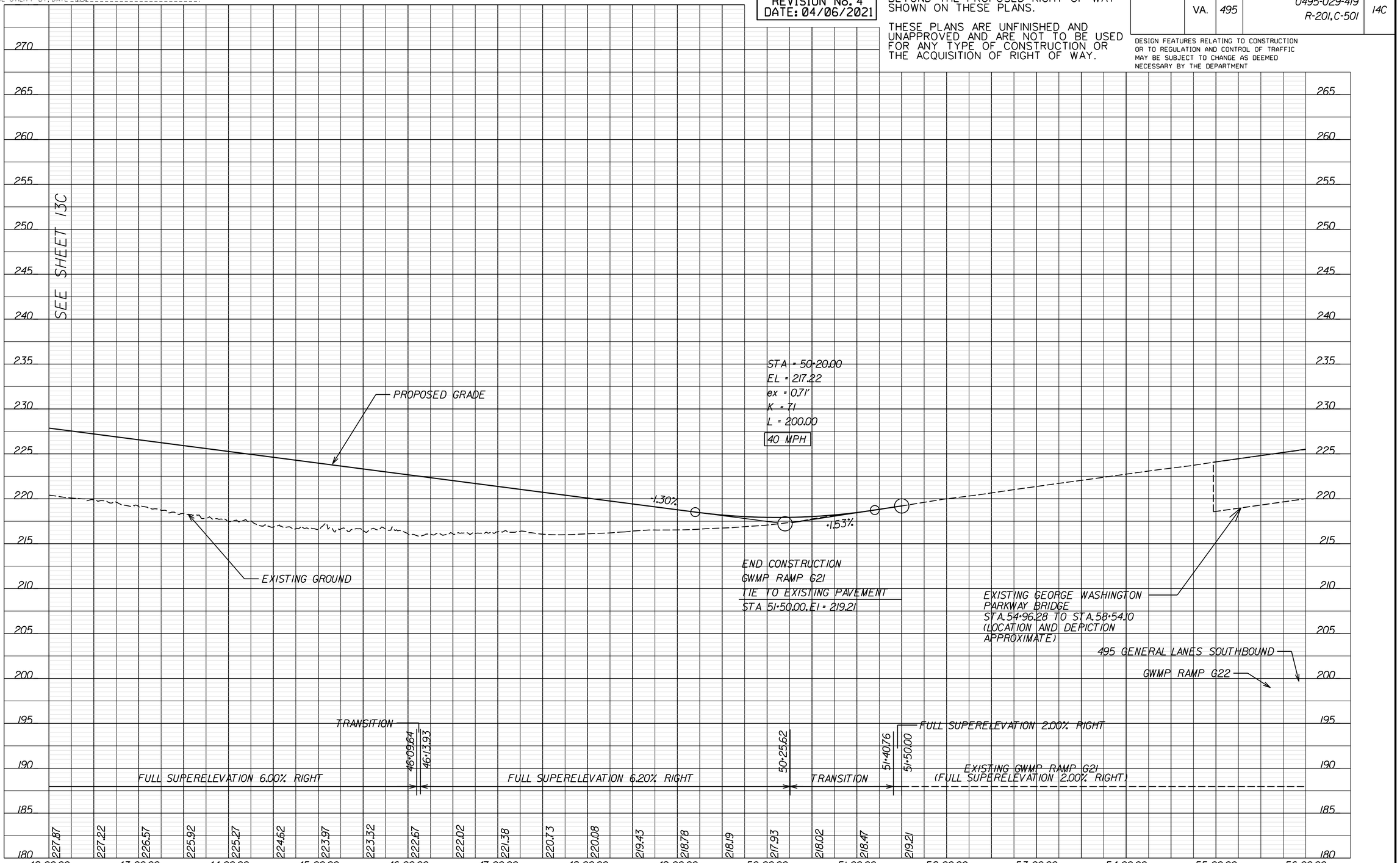
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	14C

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



VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	14C

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	14D

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

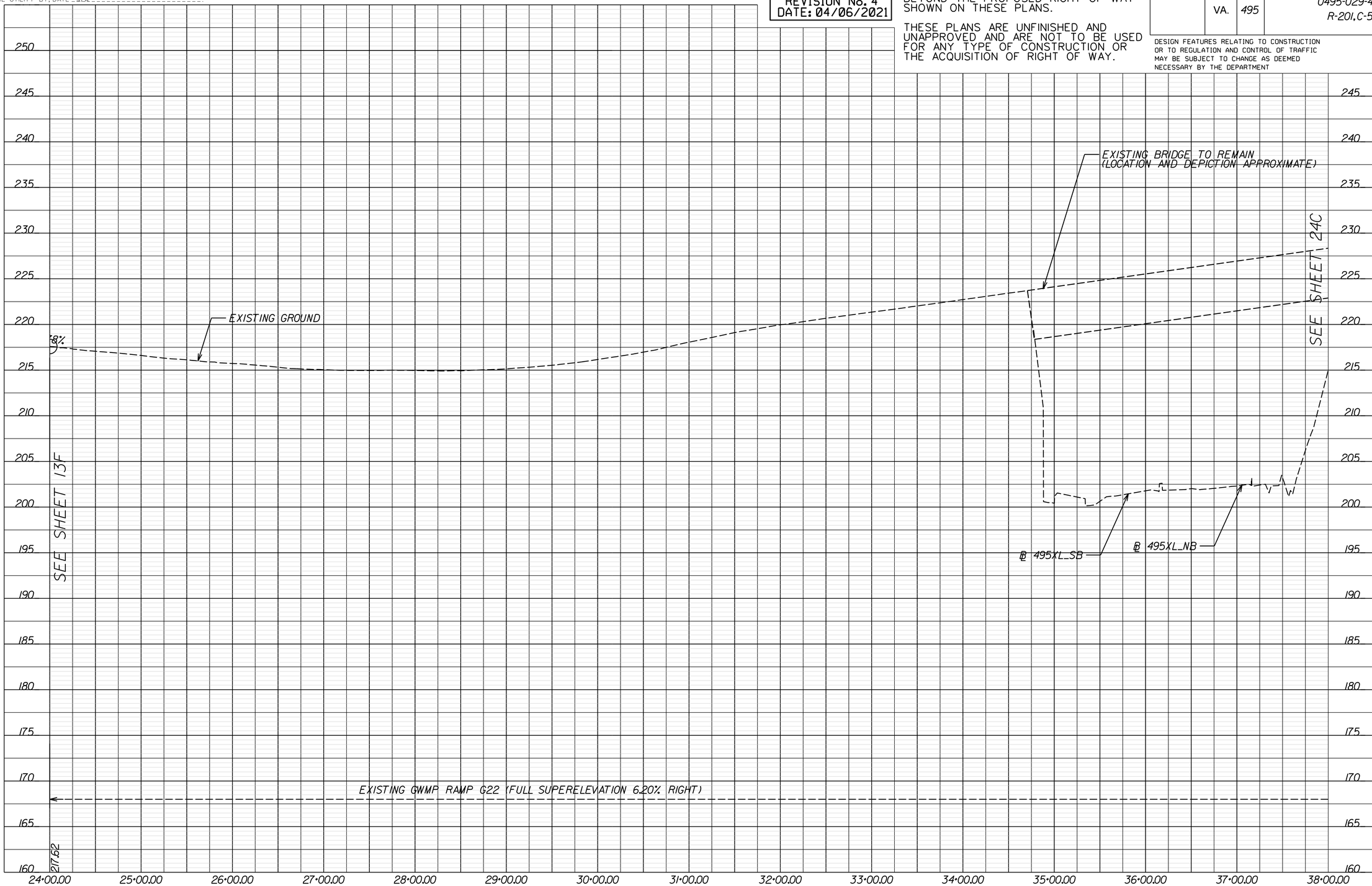
PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP G22

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	14D

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP E21

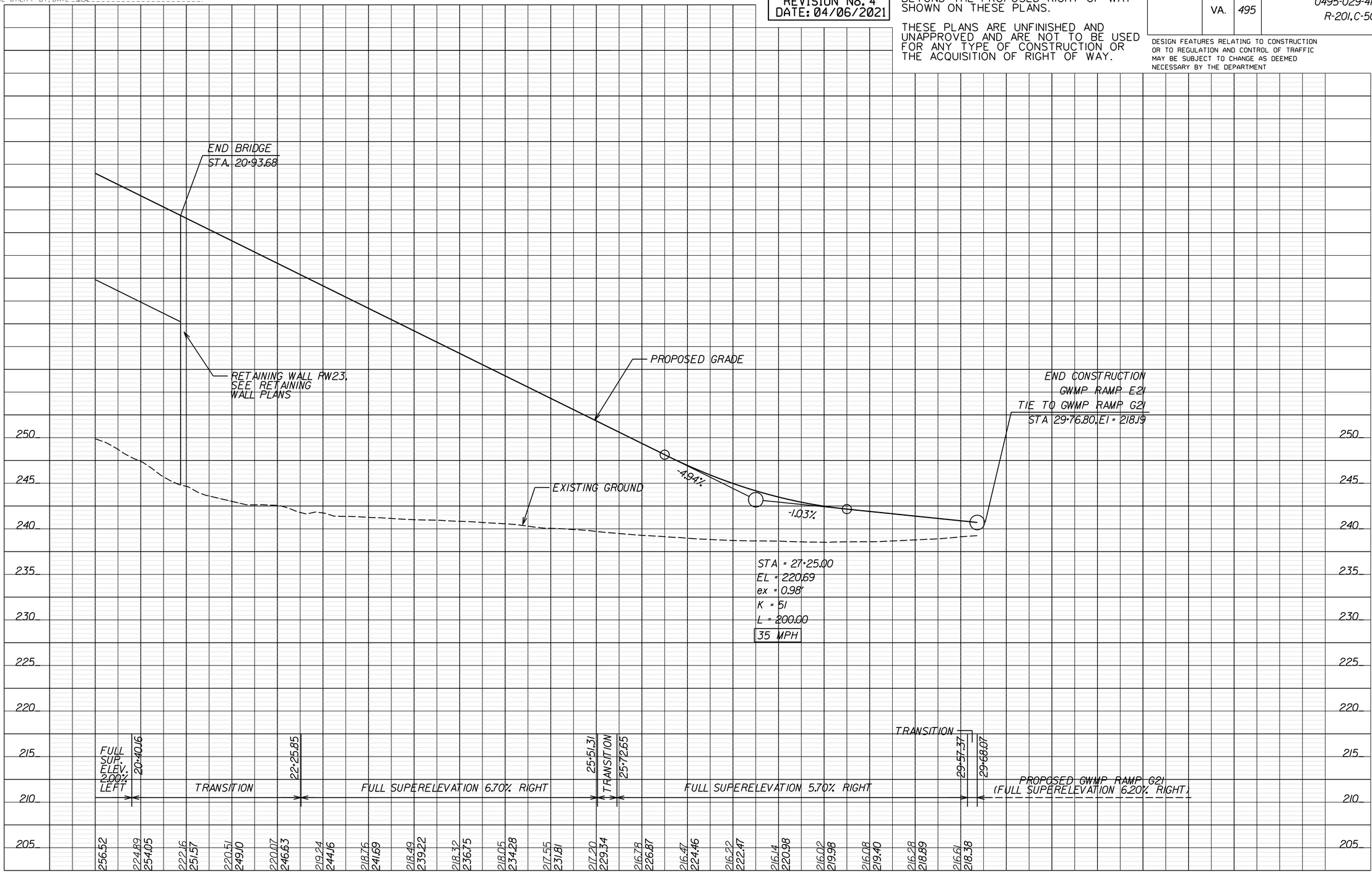
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	14E

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	14E

Thursday, April 01, 2021 06:04:59 PM
6:04:59 PM

dxxxxxxsht-14RW.dgn
Plotted By: ETWRIGHT

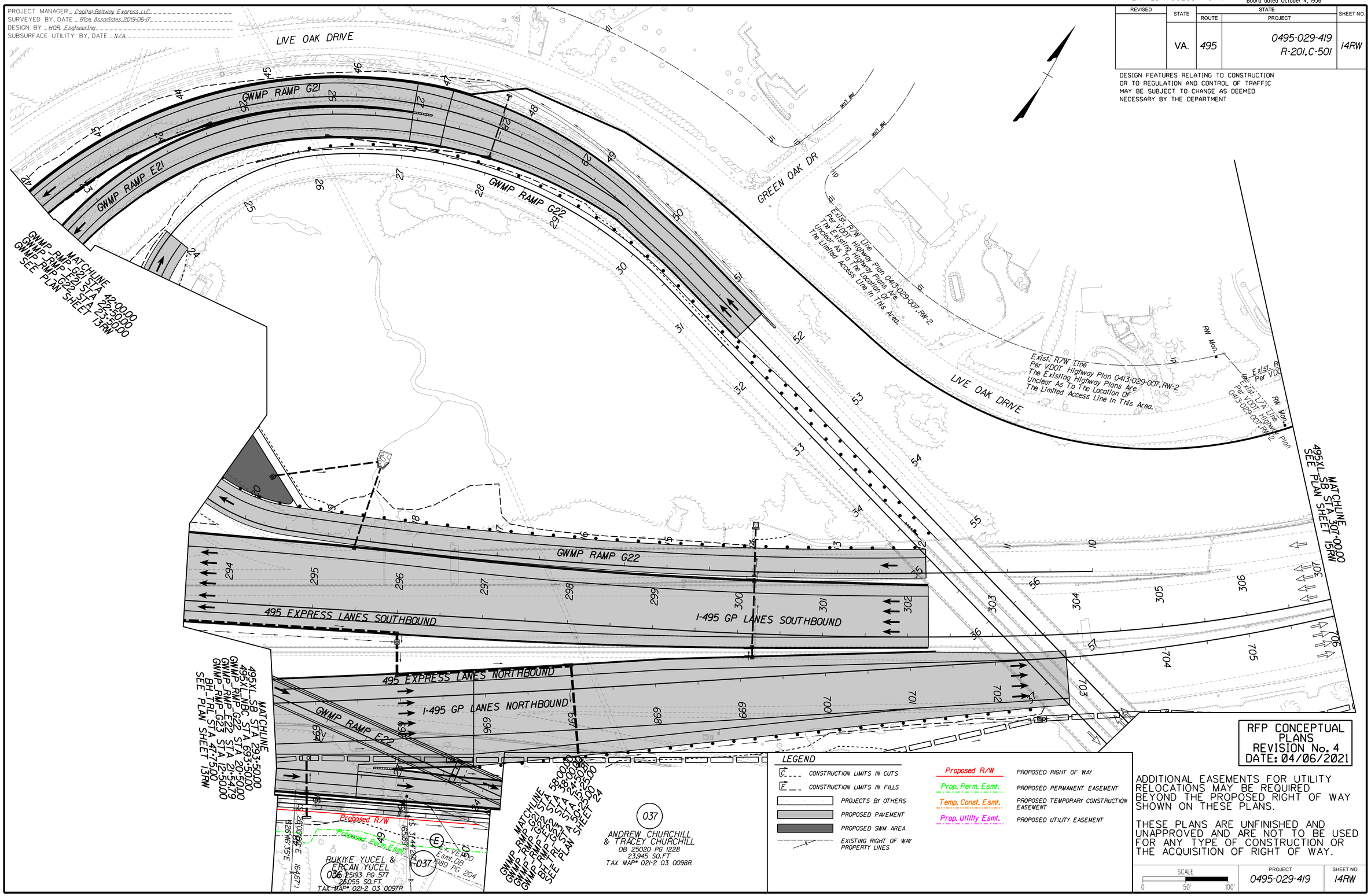
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	14RW

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 Capital Beltway Express, LLC
SURVEYED BY, DATE Rice Associates, 2019-06-17
DESIGN BY HDR Engineering
SUBSURFACE UTILITY BY, DATE N/A



LEGEND

C	CONSTRUCTION LIMITS IN CUTS
F	CONSTRUCTION LIMITS IN FILLS
	PROJECTS BY OTHERS
	PROPOSED PAVEMENT
	PROPOSED SWM AREA
	EXISTING RIGHT OF WAY PROPERTY LINES
Proposed R/W	PROPOSED RIGHT OF WAY
Prop. Perm. Esmt.	PROPOSED PERMANENT EASEMENT
Temp. Const. Esmt.	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
Prop. Utility Esmt.	PROPOSED UTILITY EASEMENT

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	14RW

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	15

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

MATCHLINE 495XL_SB STA 307+00.00 SEE PLAN SHEET 14

PROPOSED NOISE BARRIER C

RIVERCREST DR

LIVE OAK DRIVE

Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-2

END ℄ 495XL_SB PT 308+42.65

℄ 495XL_SB

I-495 GP LANES SOUTHBOUND

I-495 GP LANES NORTHBOUND

MATCHLINE BH_TRL STA 62+00.00 SEE PLAN SHEET 24

GWMP RAMP G24

PROPOSED PIPE 15-13 TO 15-01 WILL HAVE INCREASED COVER TO ALLOW SUFFICIENT CLEARANCE FOR EXISTING PIPE 015 TO 014.

℄ 495XL_NBC

℄ BH_TRL

FULL DEPTH SHOULDER RECONSTRUCUTION

BEGIN SHOULDER RECONSTRUCTION
℄ 495XL_NBC STA. 707+85.00, 192' RT

END SHOULDER RECONSTRUCTION
℄ 495XL_NBC STA. 717+25, 69' RT

SEE PLAN SHEET 24

SEE PLAN SHEET 25

Exist. R/W & L/A Line Per VDOT Highway Plan 0413-029-007, RW-2

Exist. R/W Per VDOT Highway Plan 0413-029-007, RW-2

SEE INSET THIS SHEET

MATCHLINE SEE BELOW

END ℄ 495XL_NBC PT PT719+91.66

℄ BH_TRL PT 76+87.86

PROPOSED ROCK TOE REVETMENT

PROPOSED ROCK CROSS VANES

POI-13

POI-12

POTOMAC RIVER

REVISIONS		
No.	Description	Date
2	Revised outfall POI-12	12/18/2020
3	Added Potomac Heritage Trail	03/09/2021

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGS1/1A MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	15

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

BALLS HILL SHARED USE PATH

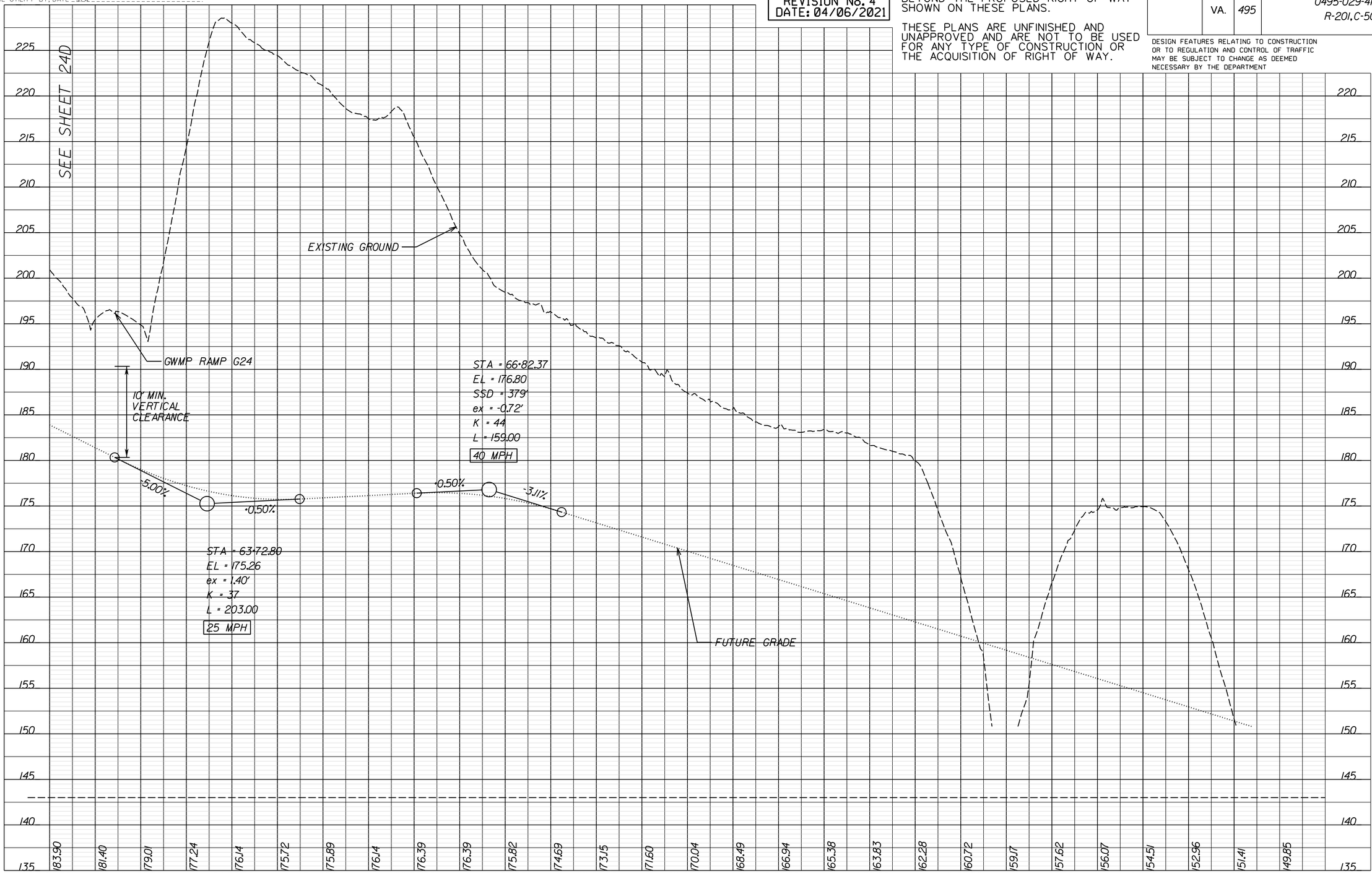
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	15A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	15A

Thursday, April 01, 2021 06:05:26 PM
6:05:26 PM

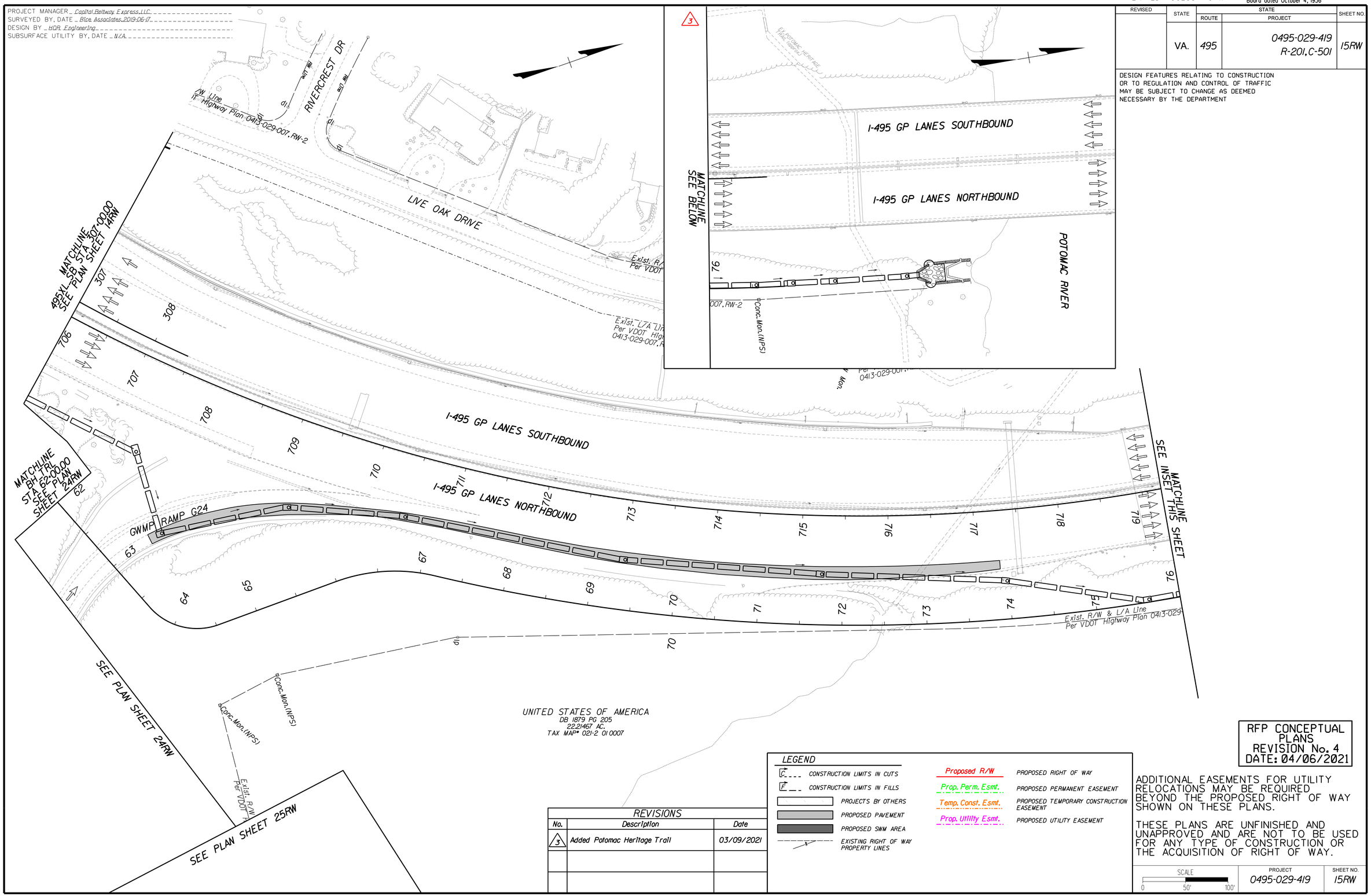
dxxxxxxsht-15RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	15RW

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



REVISIONS		
No.	Description	Date
3	Added Potomac Heritage Trail	03/09/2021

LEGEND

- CONSTRUCTION LIMITS IN CUTS
- CONSTRUCTION LIMITS IN FILLS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT
- PROPOSED SWM AREA
- EXISTING RIGHT OF WAY PROPERTY LINES
- Proposed R/W — PROPOSED RIGHT OF WAY
- Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
- Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	15RW

Thursday, April 01, 2021 06:05:39 PM
6:05:39 PM

dxxxxxxsht-16.dgn
Plotted By: ETWRIGHT

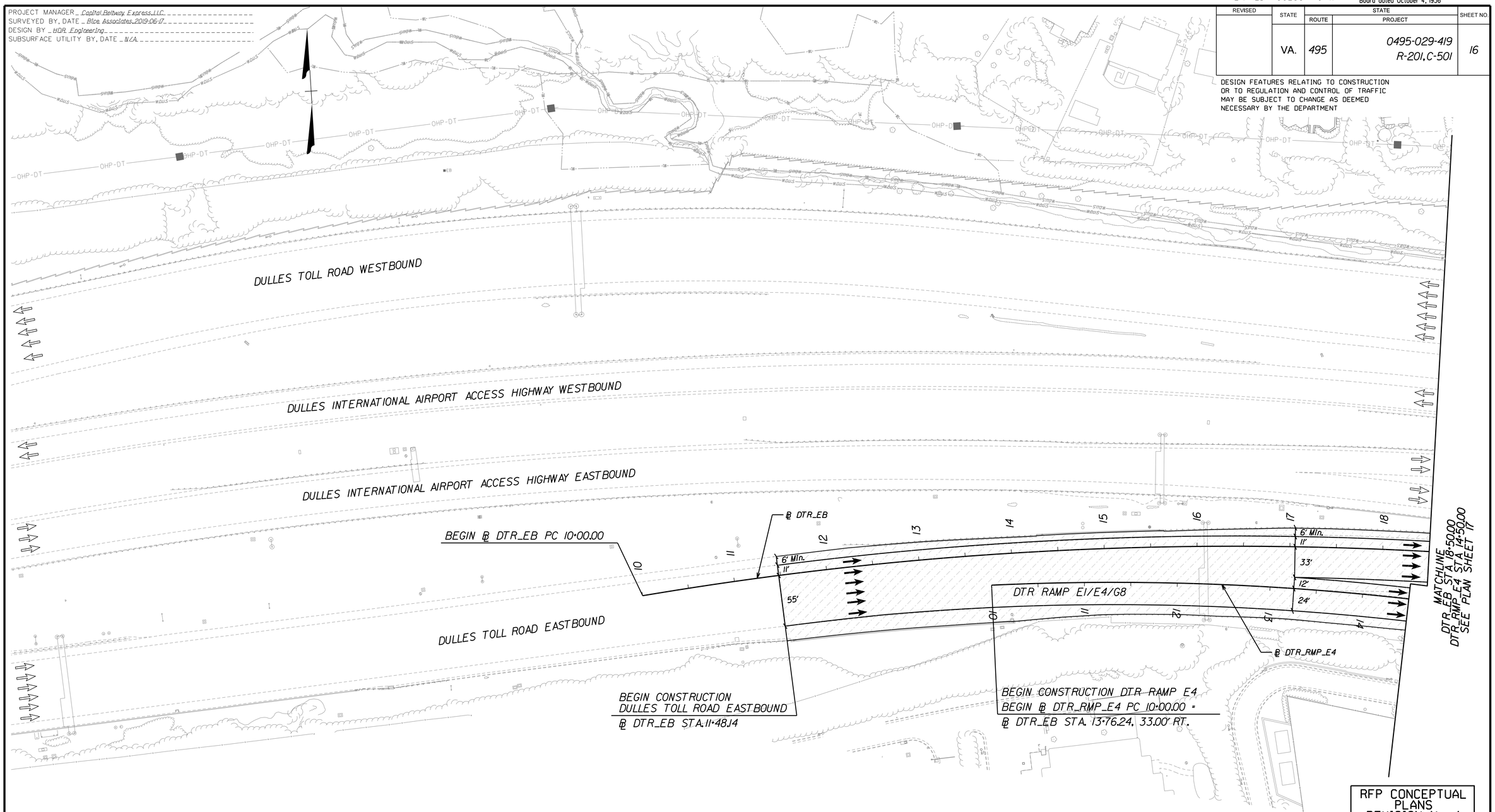
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	16

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

PROJECT MANAGER Capital Beltway Express, LLC
SURVEYED BY, DATE Rice Associates, 2019-06-17
DESIGN BY HDR Engineering
SUBSURFACE UTILITY BY, DATE N/A



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGS1/1A MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	16

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DULLES TOLL ROAD EASTBOUND

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

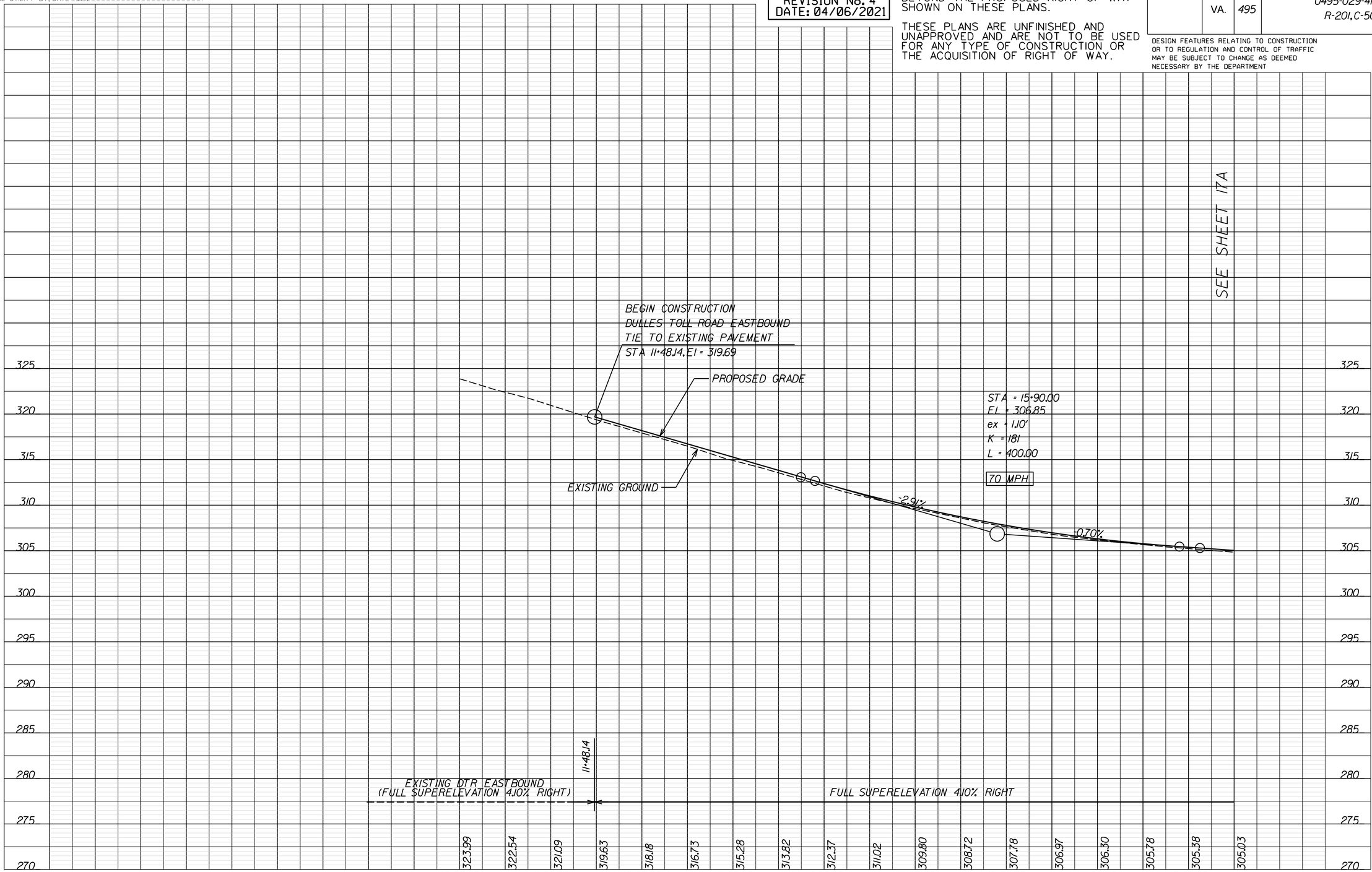
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	16A

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

SEE SHEET 17A



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	16A

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

DTR RAMP E4

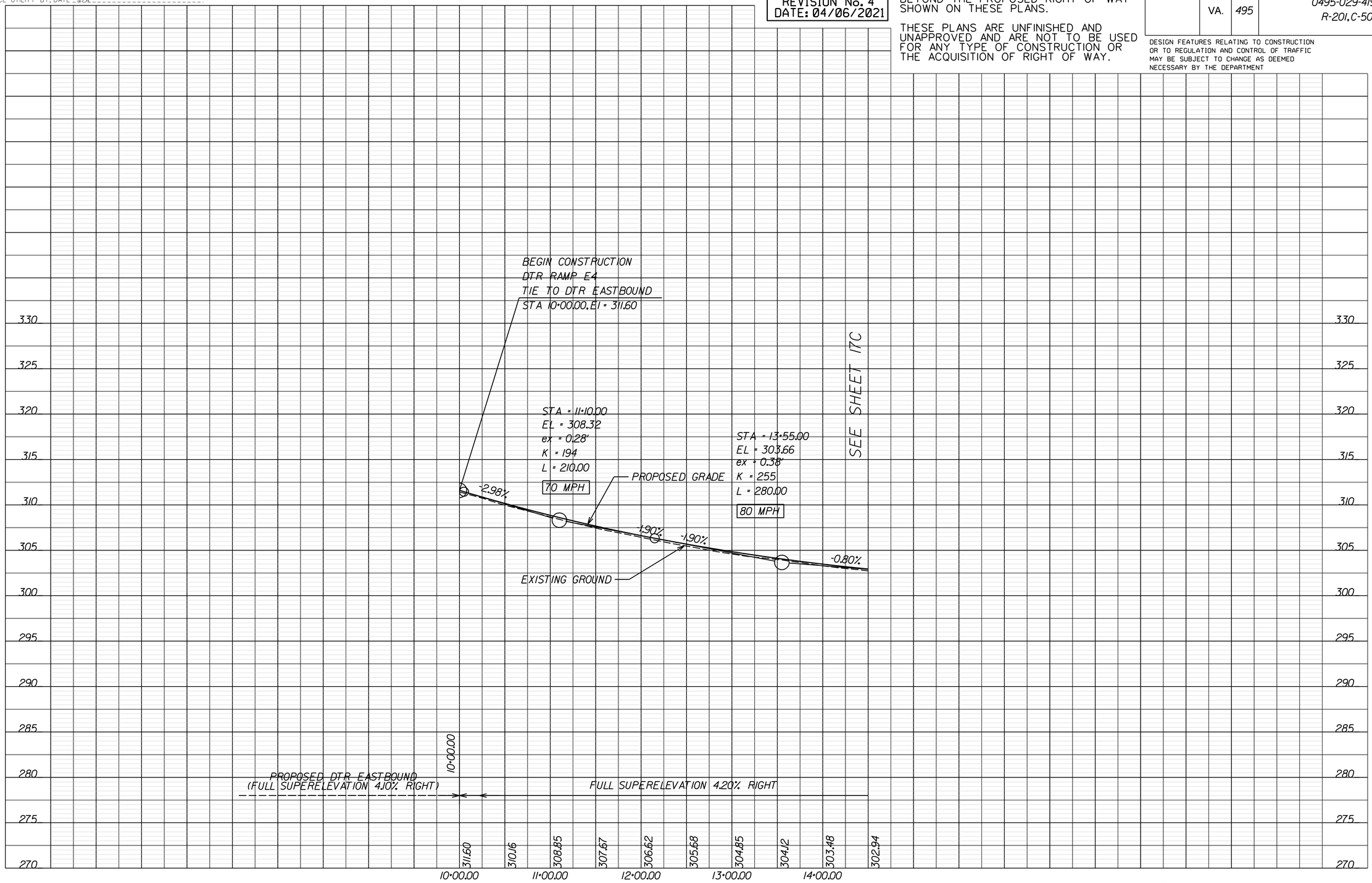
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	16B

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	16B

Thursday, April 01, 2021 06:05:59 PM
6:05:59 PM

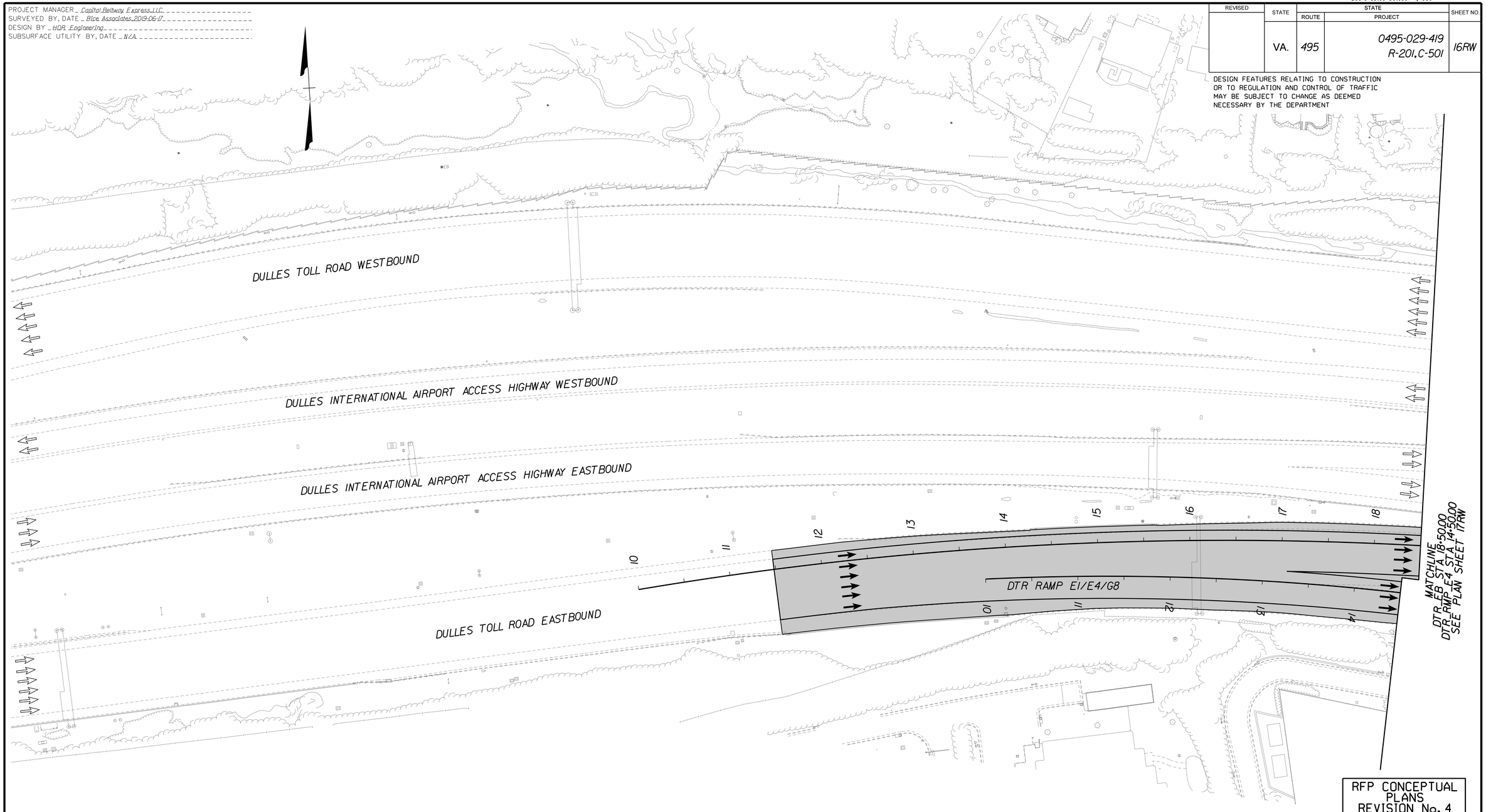
dxxxxxxsht-16RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	16RW

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



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

LEGEND

- CONSTRUCTION LIMITS IN CUTS
- CONSTRUCTION LIMITS IN FILLS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT
- PROPOSED SWM AREA
- EXISTING RIGHT OF WAY PROPERTY LINES
- Proposed R/W — PROPOSED RIGHT OF WAY
- Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
- Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	16RW

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	17

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

DULLES TOLL ROAD WESTBOUND

DULLES INTERNATIONAL AIRPORT ACCESS HIGHWAY WESTBOUND

DULLES INTERNATIONAL AIRPORT ACCESS HIGHWAY EASTBOUND

℄ DTR_EB

DULLES TOLL ROAD EASTBOUND

DTR RAMP E1/E4/G8

℄ DTR_RMP_E4

DTR RAMP G3

℄ DTR_RMP_G3

DTR RAMP D1

DTR RAMP D2

DTR RAMP E1/E4

DTR RAMP G8

Approximate Culvert Location

MATCHLINE
DTR_EB STA. 18+50.00
DTR_RMP_E4 STA. 14+50.00
SEE PLAN SHEET 16

MATCHLINE
DTR_EB STA. 32+50.00
DTR_RMP_G3 STA. 25+50.00
DTR_RMP_E4 STA. 28+50.00
SEE PLAN SHEET 18

END CONSTRUCTION DTR RAMP E4
℄ DTR_RMP_E4 STA. 20+63.04

BEGIN CONSTRUCTION
DULLES TOLL ROAD RAMP G3
BEGIN ℄ DTR_RMP_G3 PC 19+41.48 =
℄ DTR_EB STA. 26+59.91, 33.00' RT.

END CONSTRUCTION DTR RAMP G3
℄ DTR_RMP_G3 STA. 24+50.00

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	17

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

DULLES TOLL ROAD EASTBOUND

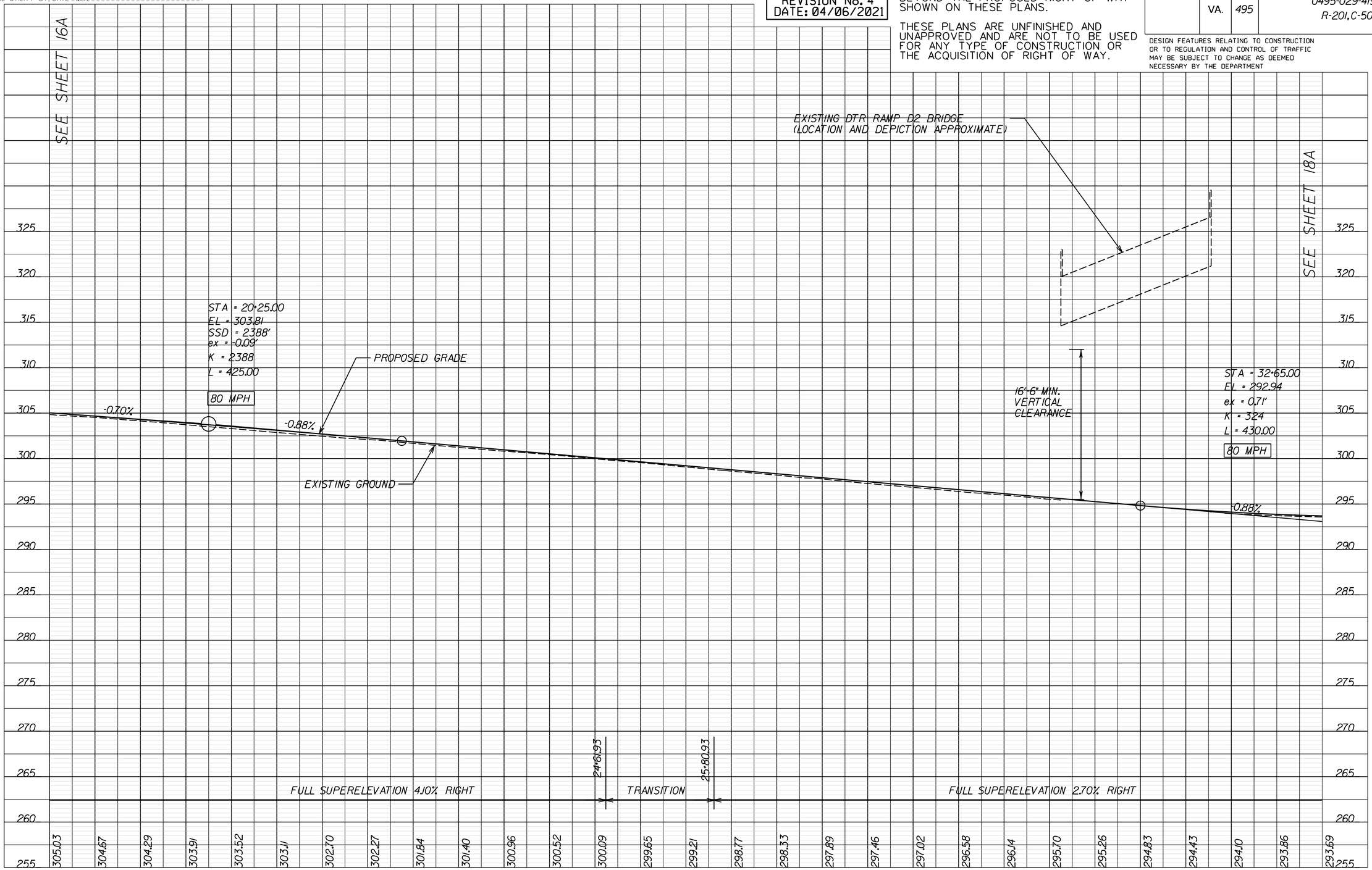
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	17A

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



PROJECT	SHEET NO.
0495-029-419	17A

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DTR RAMP G3

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

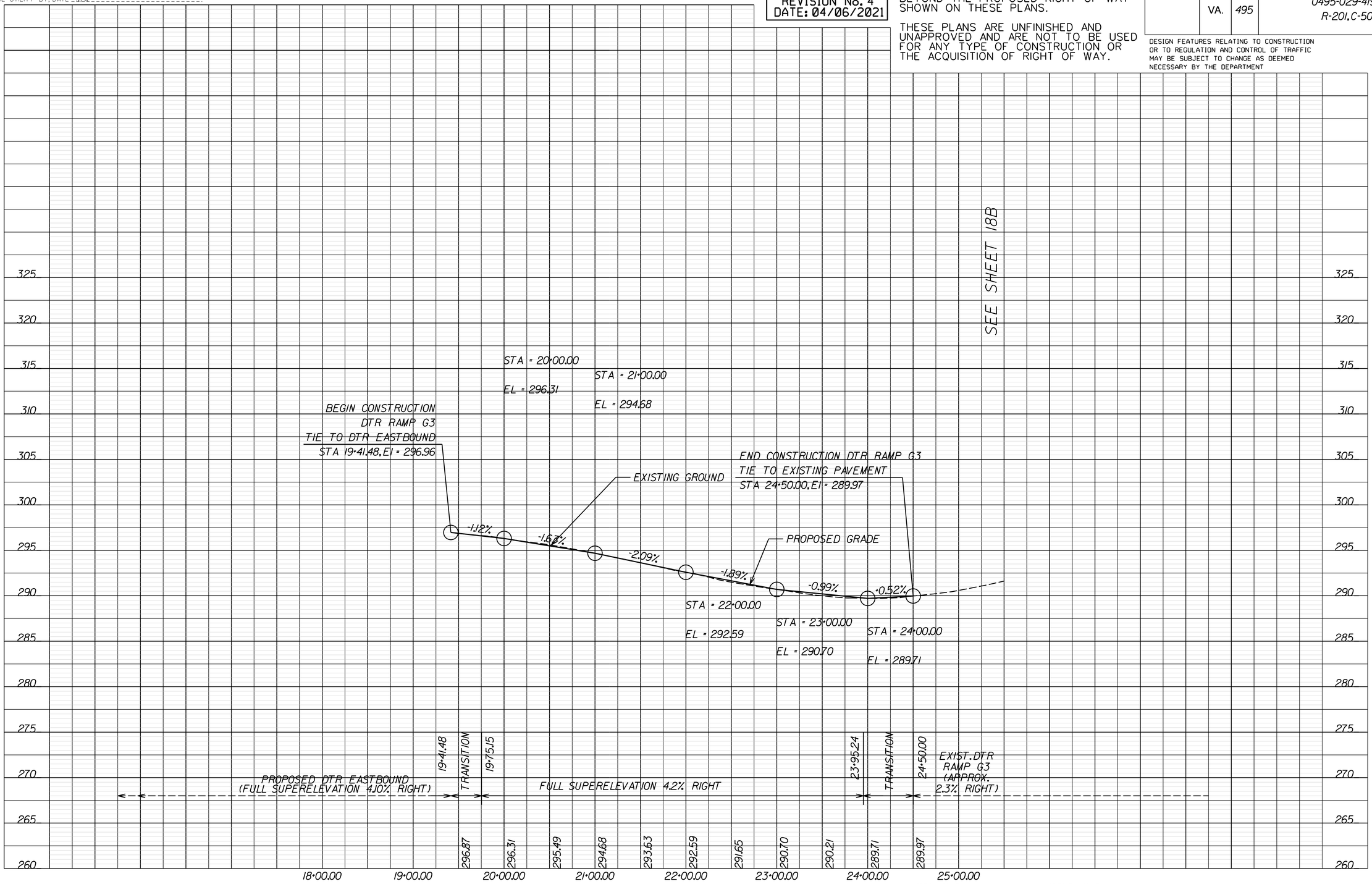
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	17B

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

SEE SHEET 18B



PROJECT	SHEET NO.
0495-029-419	17B

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DTR RAMP E4

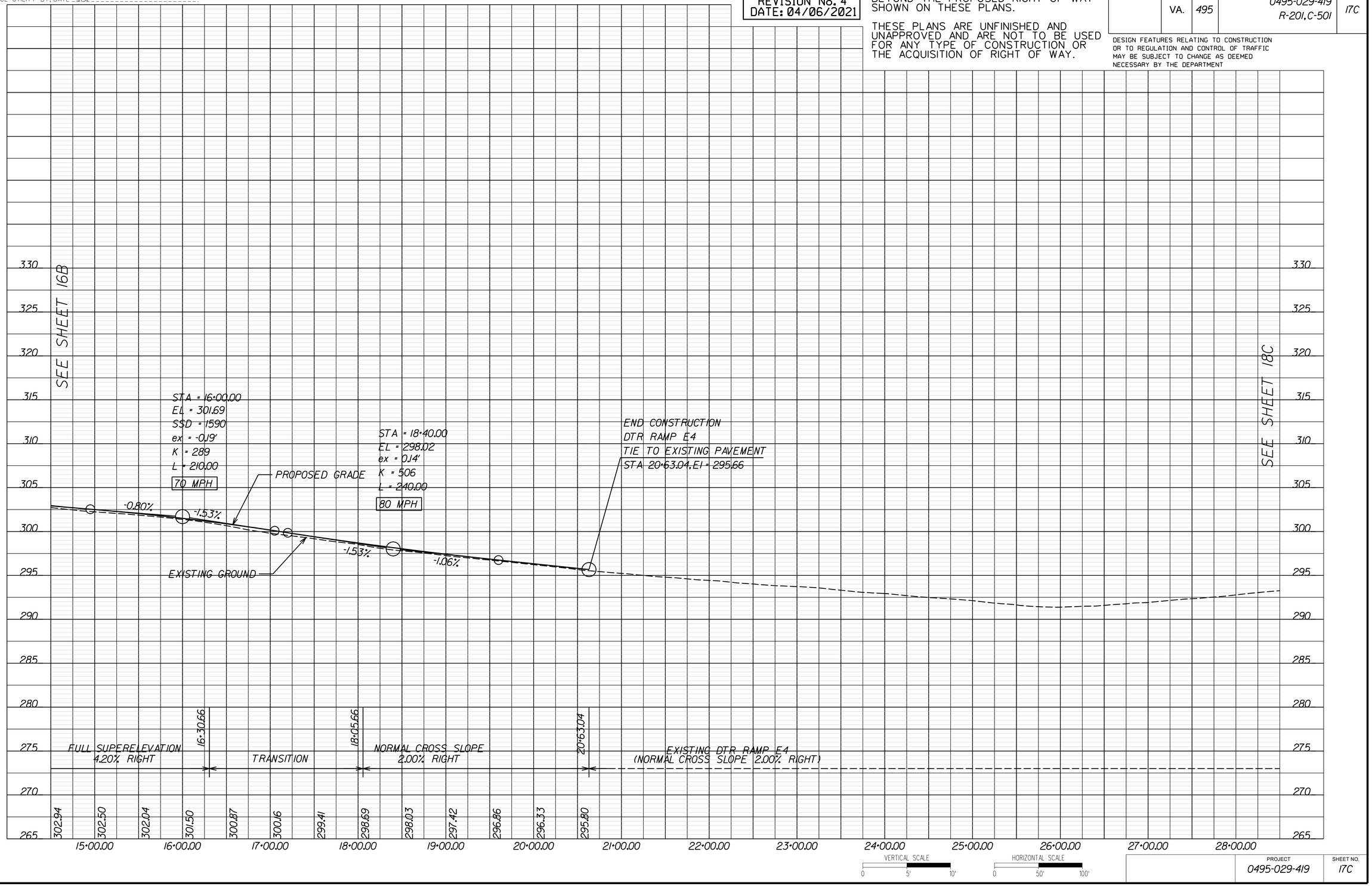
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	17C

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.
0495-029-419	17C

Thursday, April 01, 2021 06:06:37 PM
6:06:37 PM

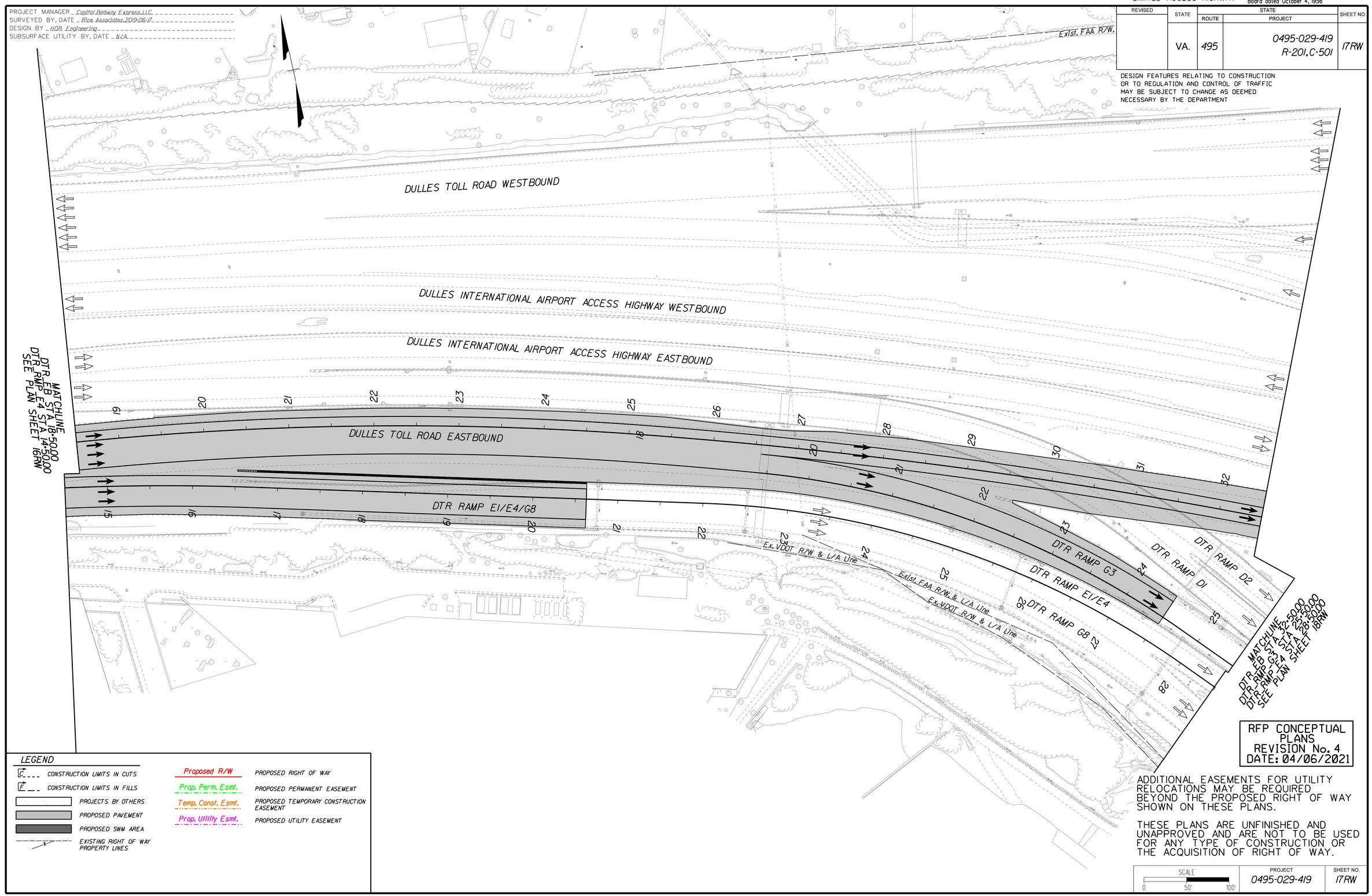
dxxxxxxsht-17RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	17RW

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



LEGEND

CONSTRUCTION LIMITS IN CUTS	Proposed R/W — PROPOSED RIGHT OF WAY
CONSTRUCTION LIMITS IN FILLS	Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
PROJECTS BY OTHERS	Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
PROPOSED PAVEMENT	Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT
PROPOSED SWM AREA	
EXISTING RIGHT OF WAY PROPERTY LINES	

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	17RW

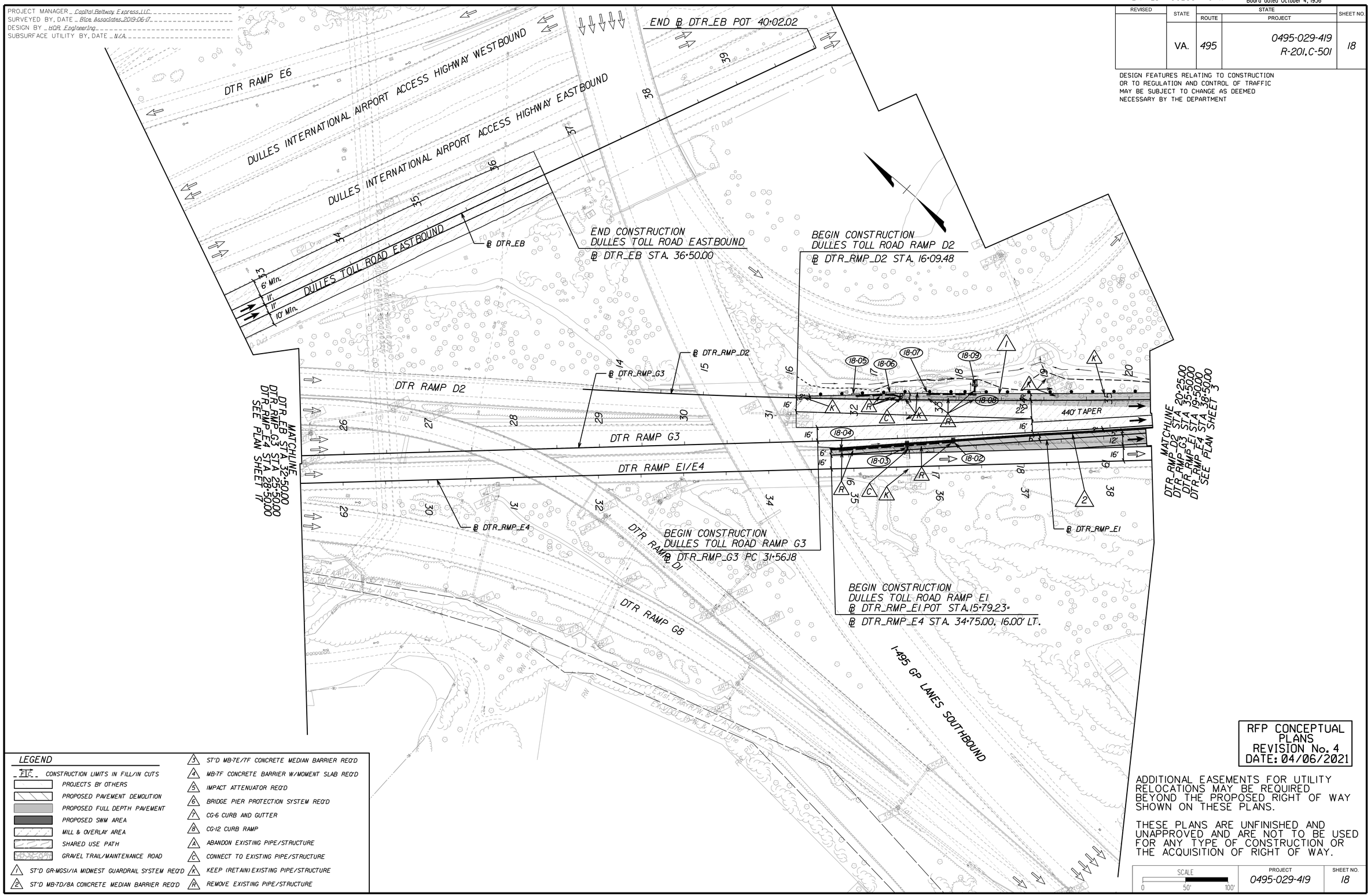
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	18

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

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A



LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	18

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DULLES TOLL ROAD EASTBOUND

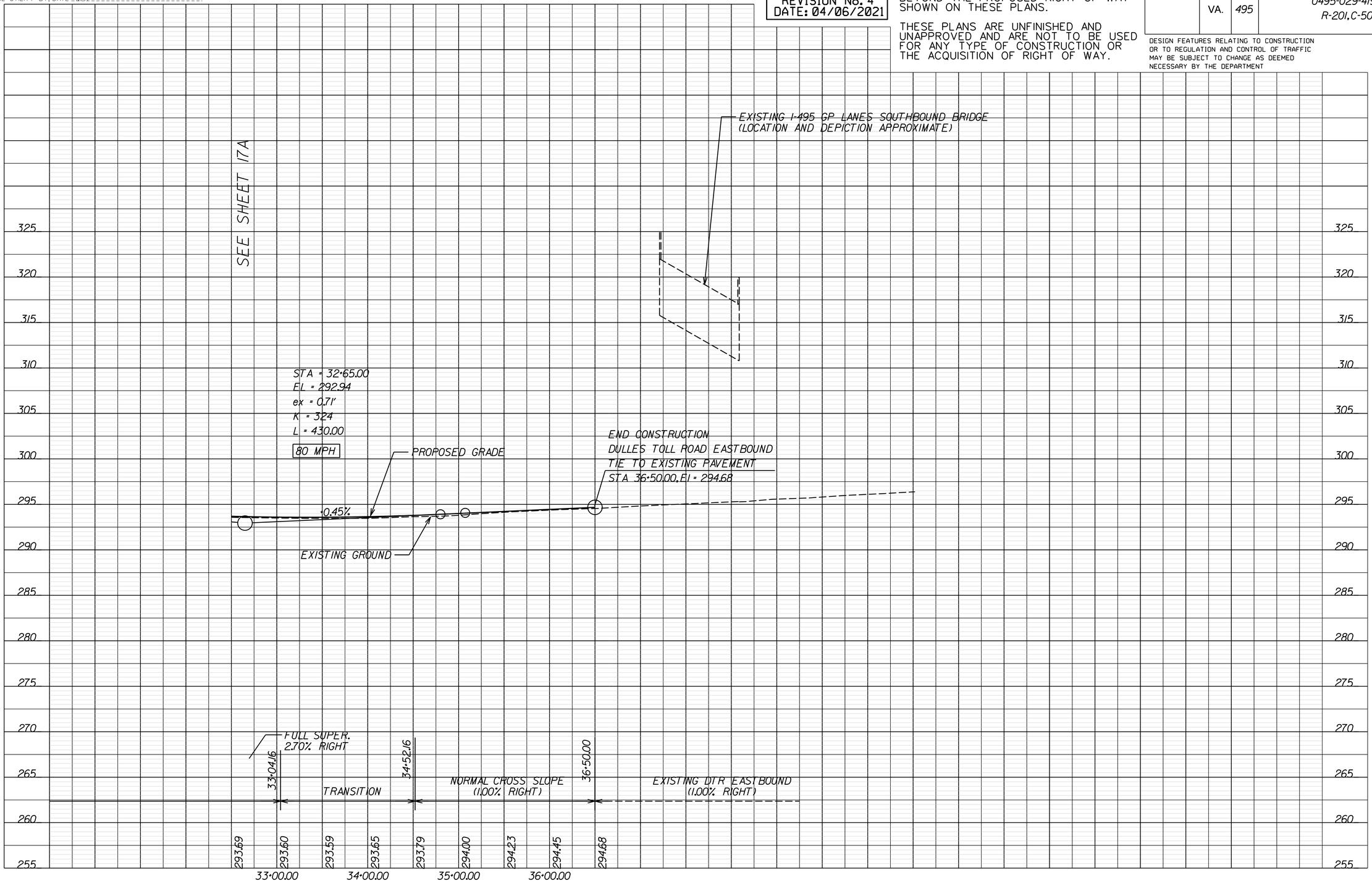
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	18A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	18A

Thursday, April 01, 2021 06:07:02 PM
6:07:02 PM

dxxxxxxsht-18B.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DTR RAMP G3

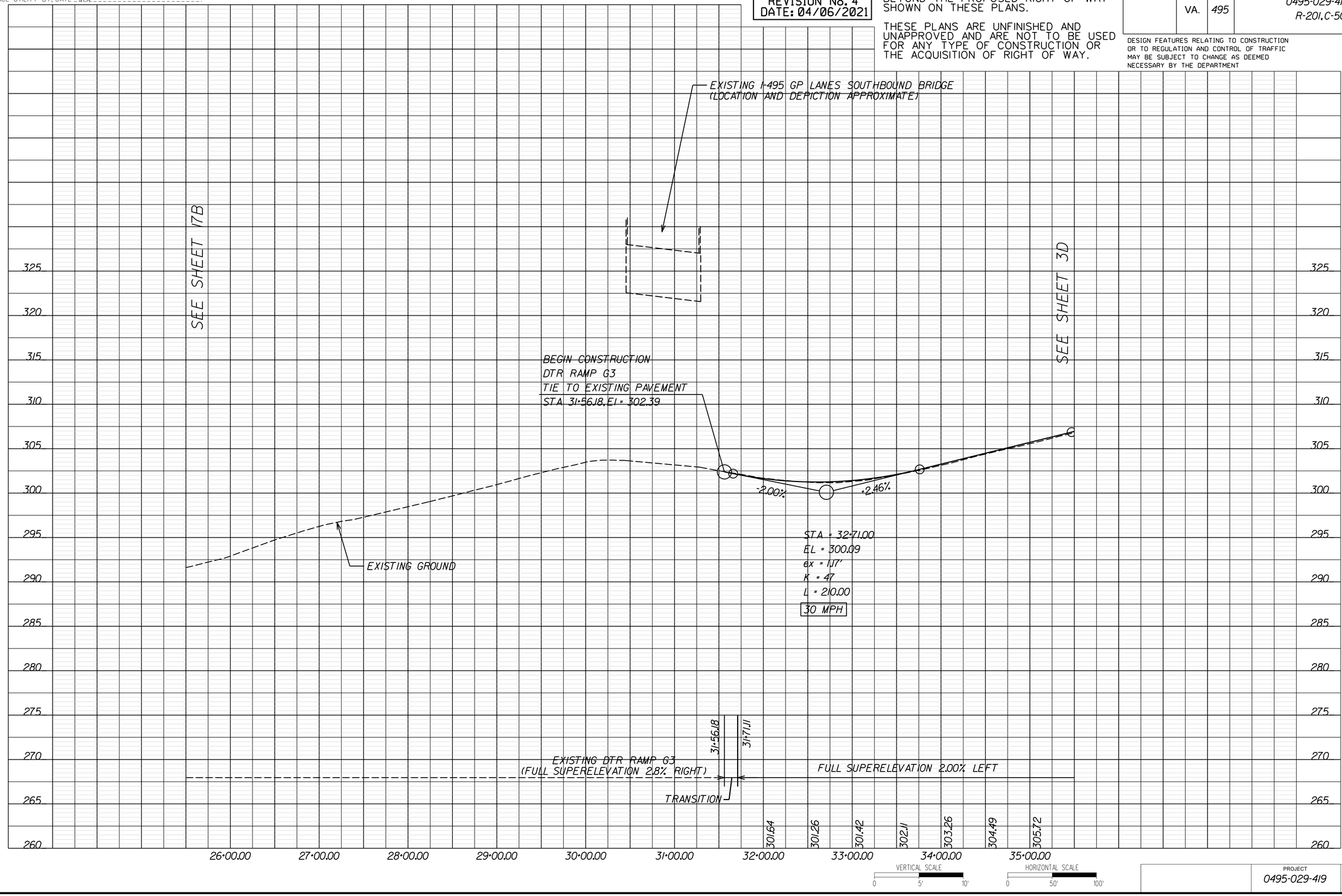
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	18B

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.
0495-029-419	18B

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DTR RAMP E4

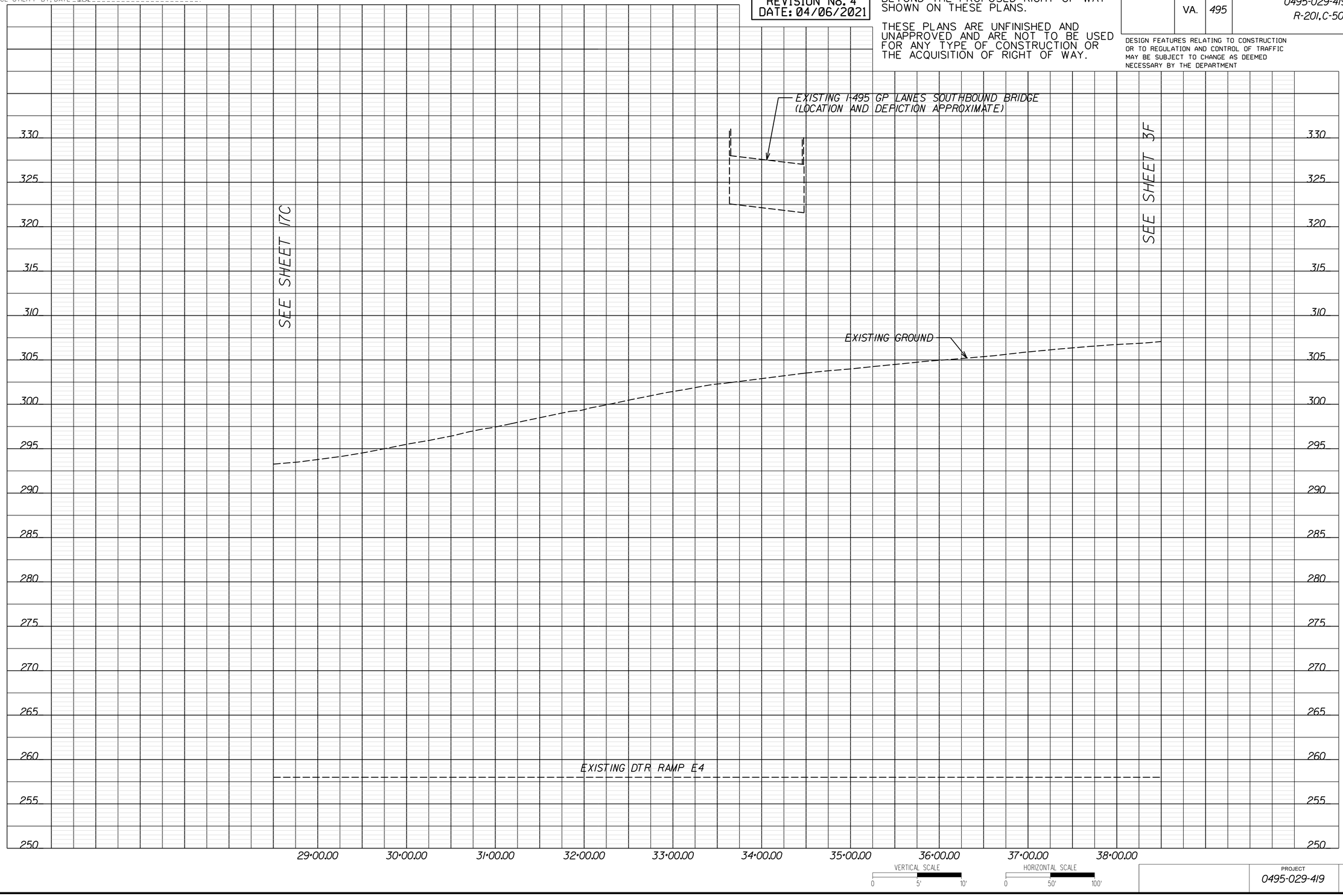
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	18C

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



VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	18C

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DTR RAMP D2

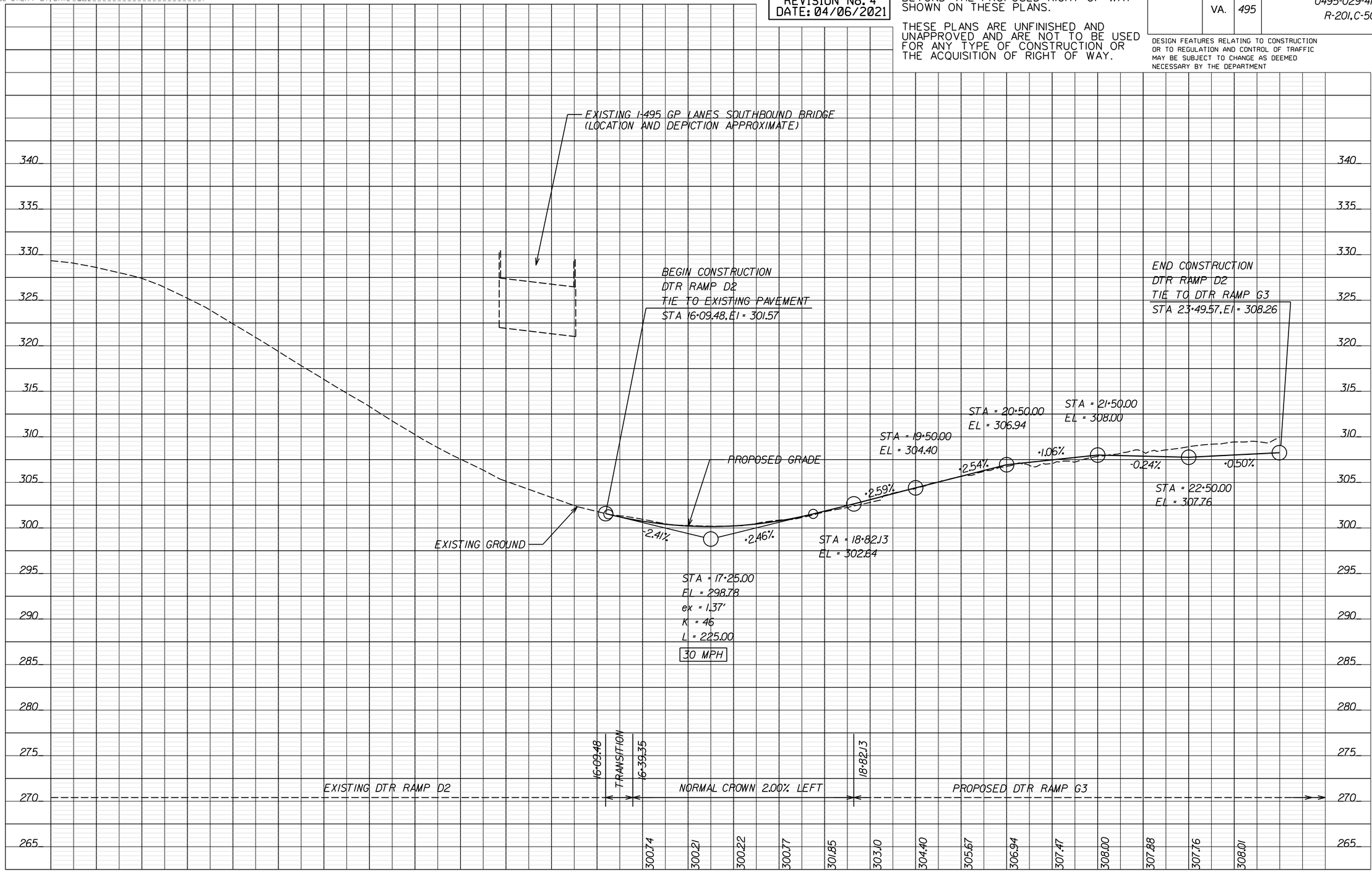
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	18D

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	18D

Thursday, April 01, 2021 06:07:21 PM
6:07:21 PM

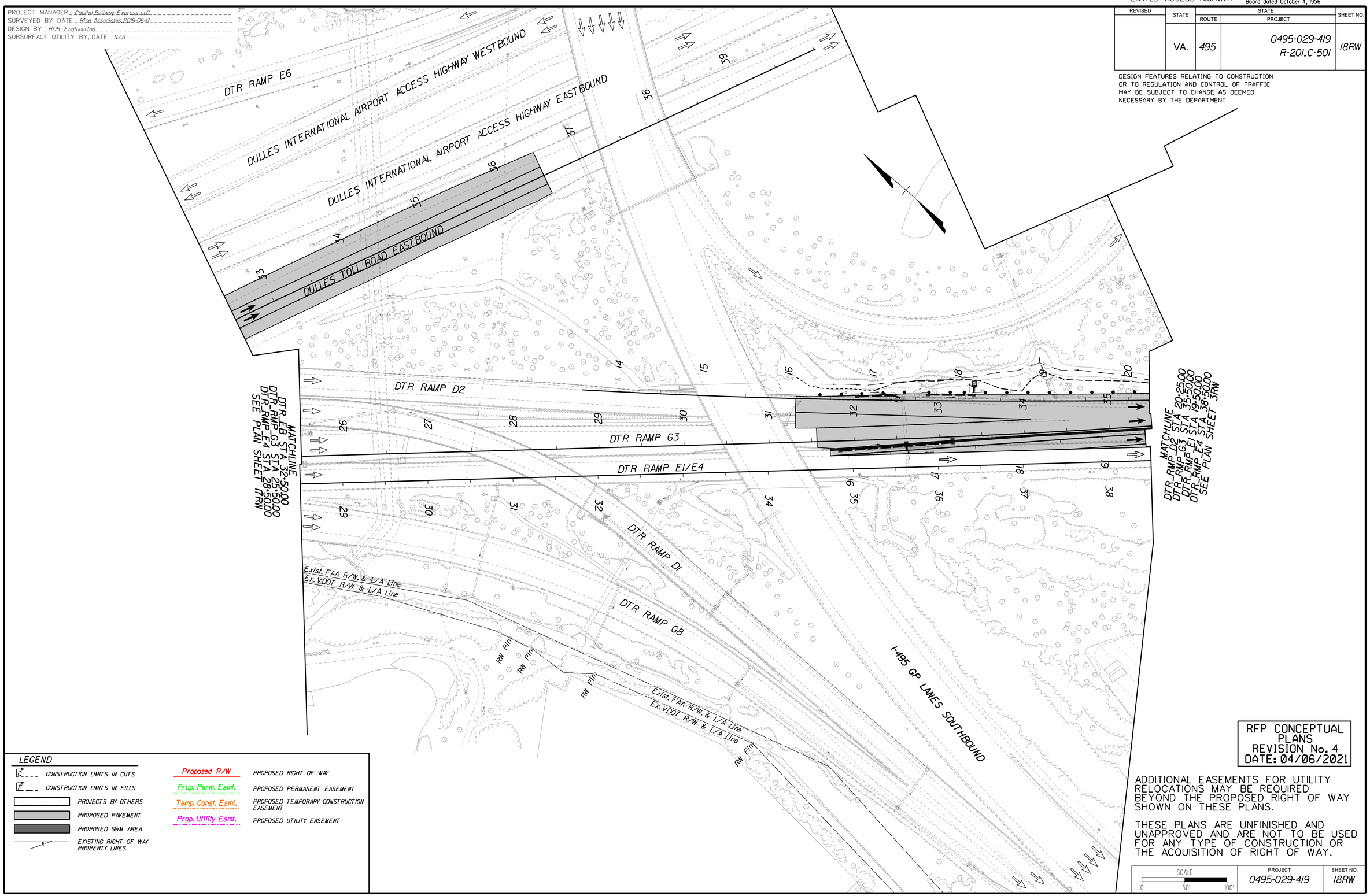
dxxxxxxsht-18RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	18RW

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



LEGEND

CONSTRUCTION LIMITS IN CUTS	Proposed R/W — PROPOSED RIGHT OF WAY
CONSTRUCTION LIMITS IN FILLS	Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
PROJECTS BY OTHERS	Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
PROPOSED PAVEMENT	Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT
PROPOSED SWM AREA	
EXISTING RIGHT OF WAY PROPERTY LINES	

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	18RW

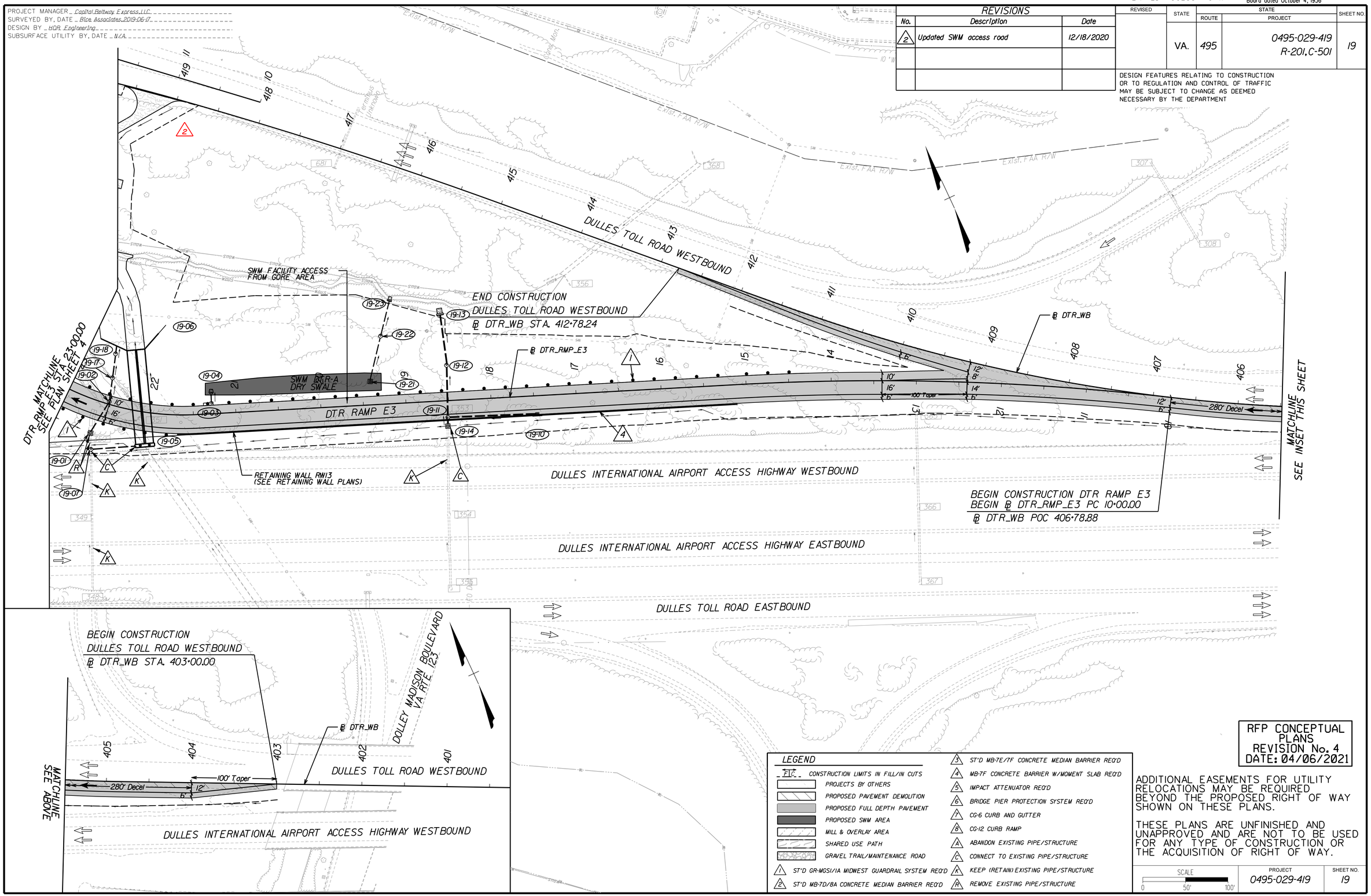
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISIONS		
No.	Description	Date
2	Updated SWM access road	12/18/2020

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	19

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



LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	19

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

DTR RAMP E3

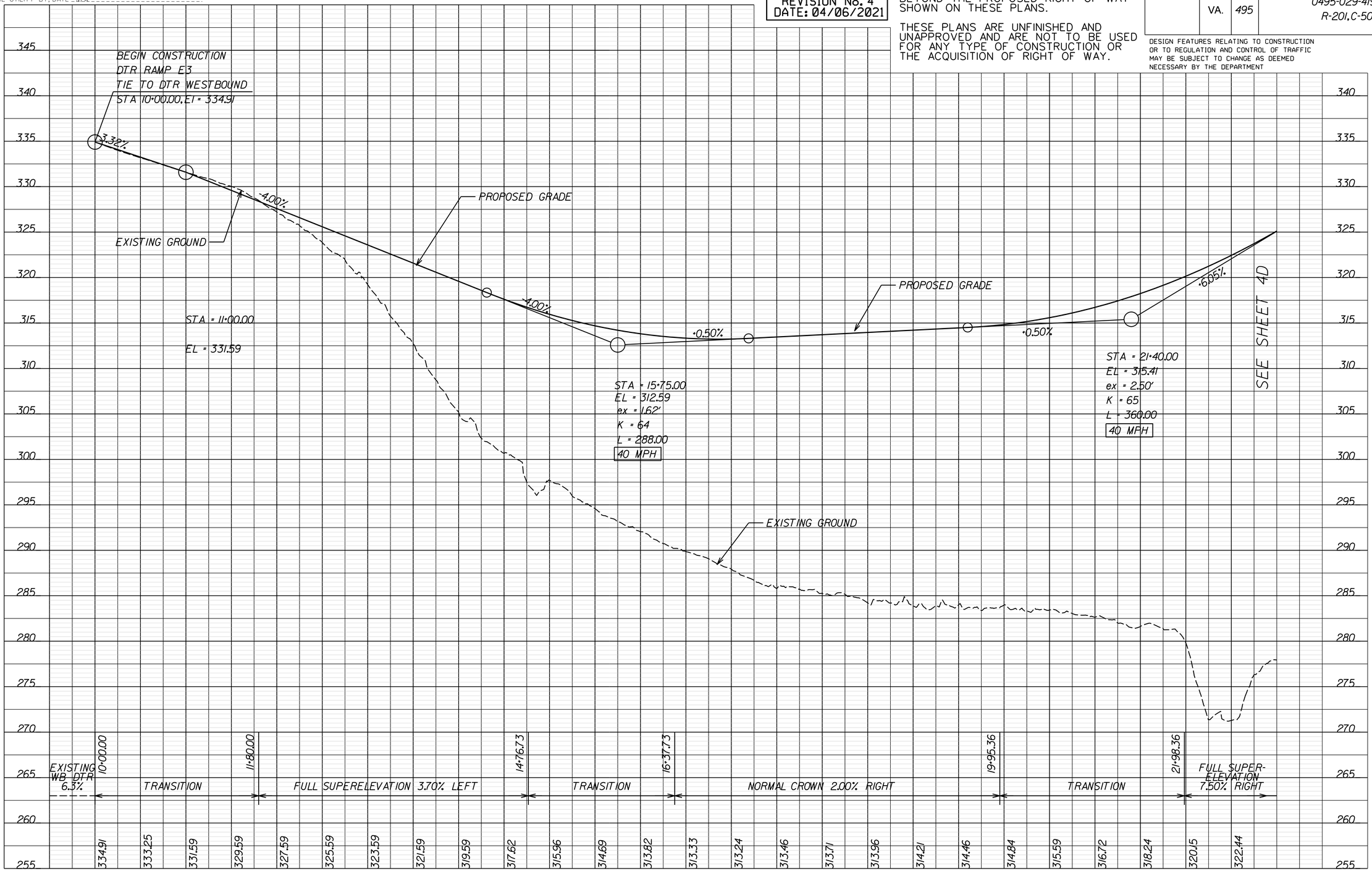
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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.	495	0495-029-419 R-201, C-501	19A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	19A

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

DULLES TOLL ROAD WESTBOUND

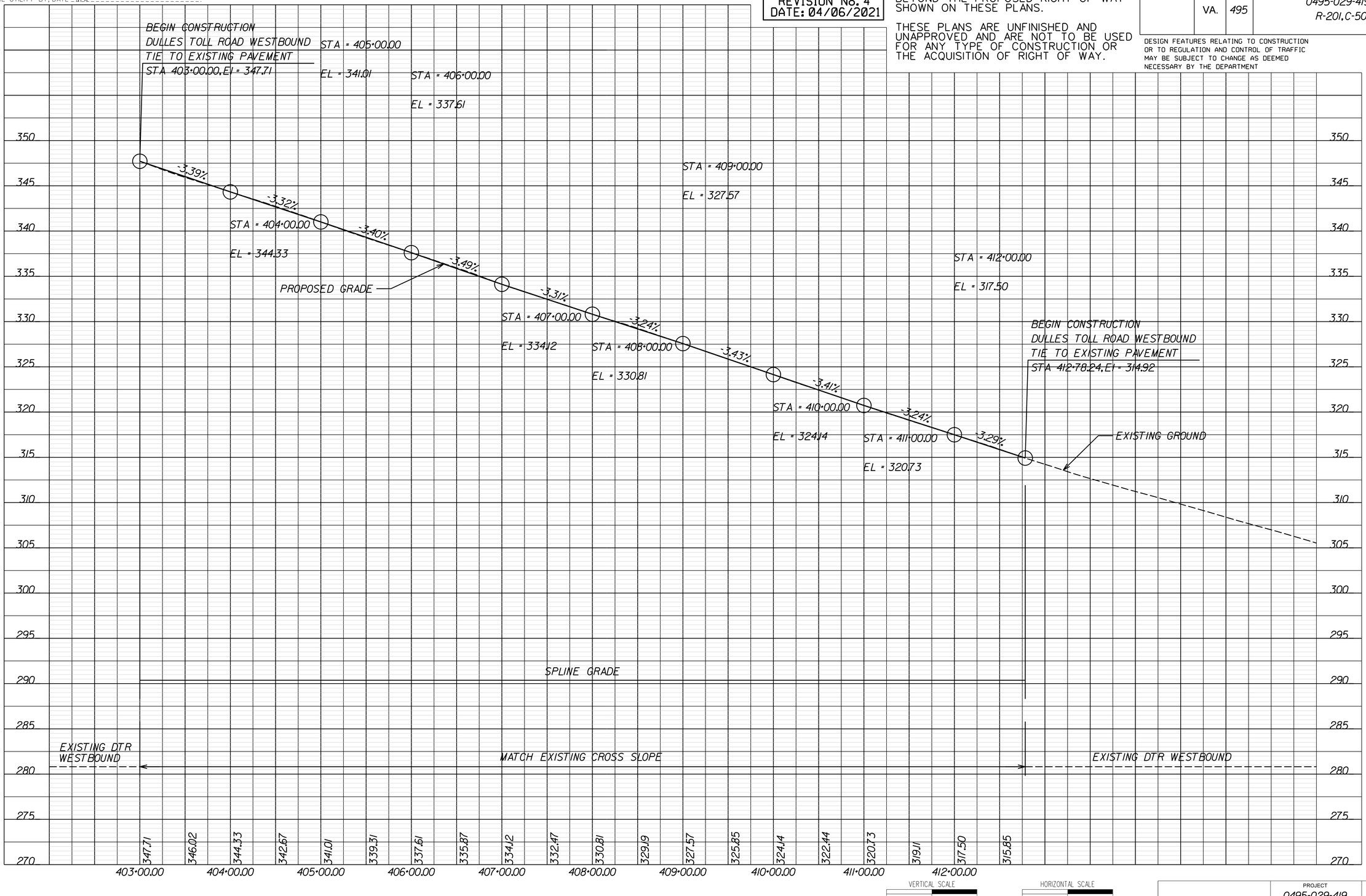
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	19B

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	19B

Thursday, April 01, 2021 06:07:55 PM
6:07:55 PM

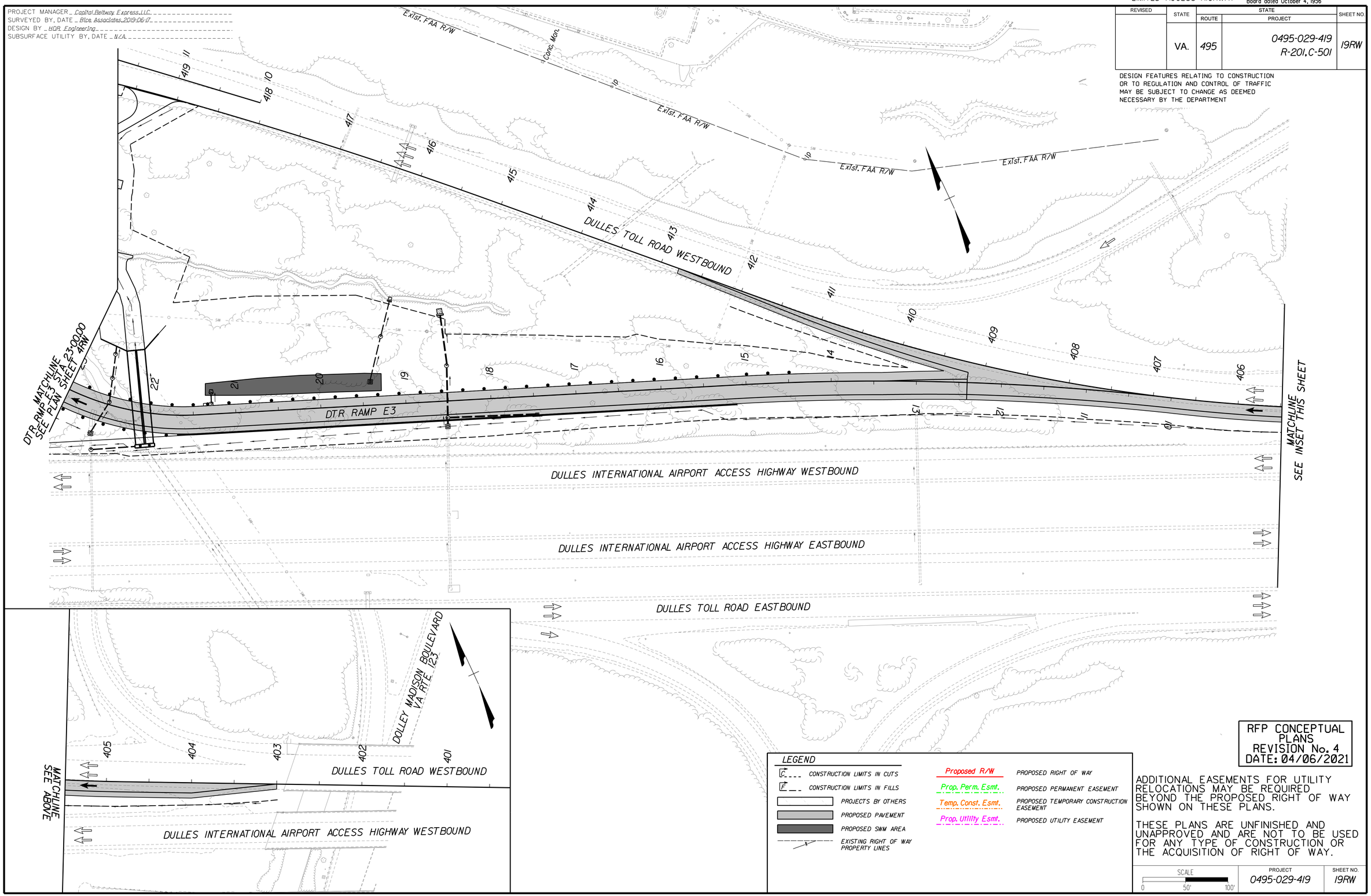
dxxxxxxsht-19RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	19RW

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



LEGEND

- CONSTRUCTION LIMITS IN CUTS
- CONSTRUCTION LIMITS IN FILLS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT
- PROPOSED SWM AREA
- EXISTING RIGHT OF WAY PROPERTY LINES
- Proposed R/W — PROPOSED RIGHT OF WAY
- Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
- Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

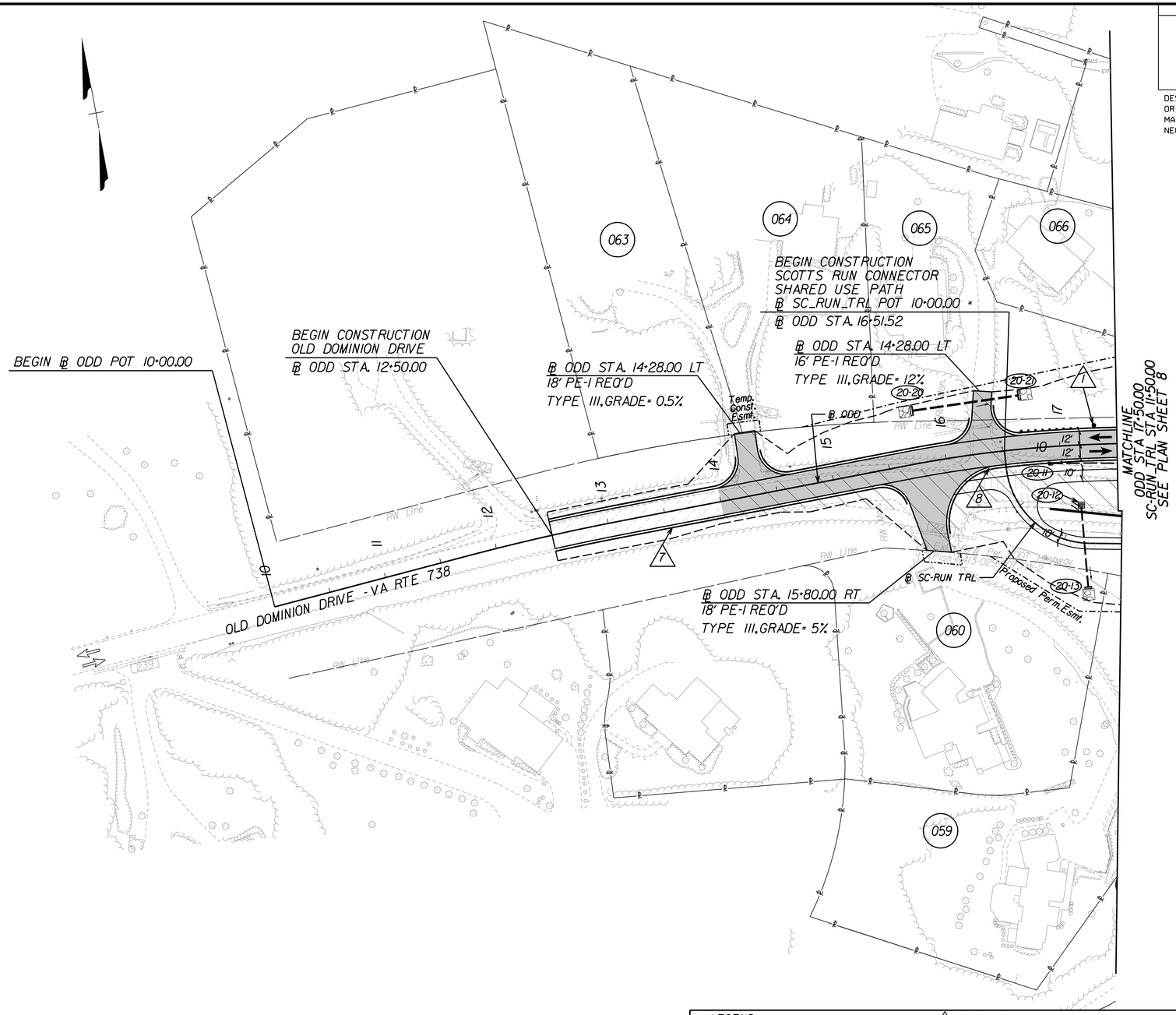
SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	19RW

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	20

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



LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	20

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

OLD DOMINION DRIVE - VA ROUTE 738

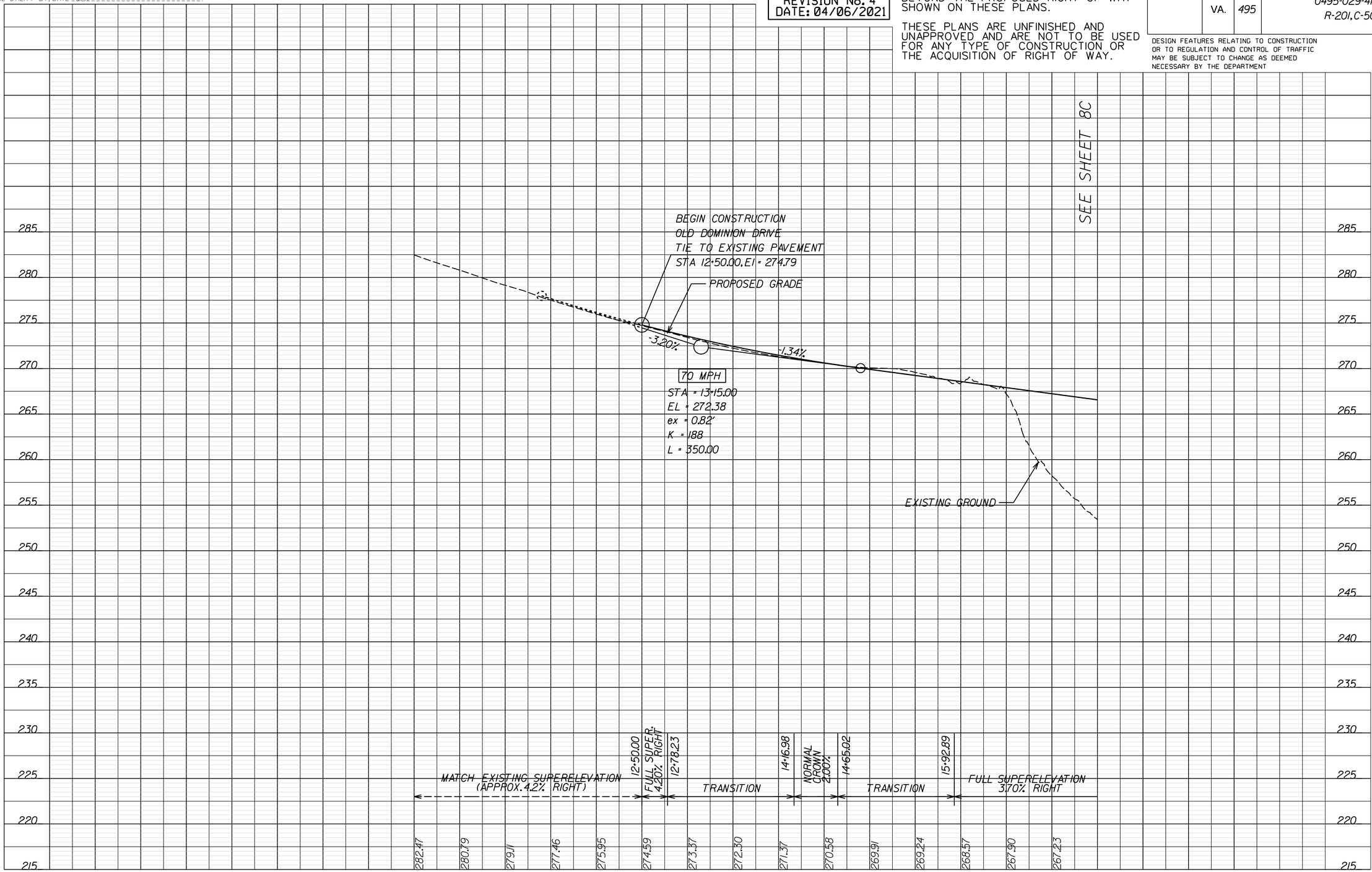
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	20A

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



PROJECT	SHEET NO.
0495-029-419	20A

Thursday, April 01, 2021 06:08:20 PM
6:08:20 PM

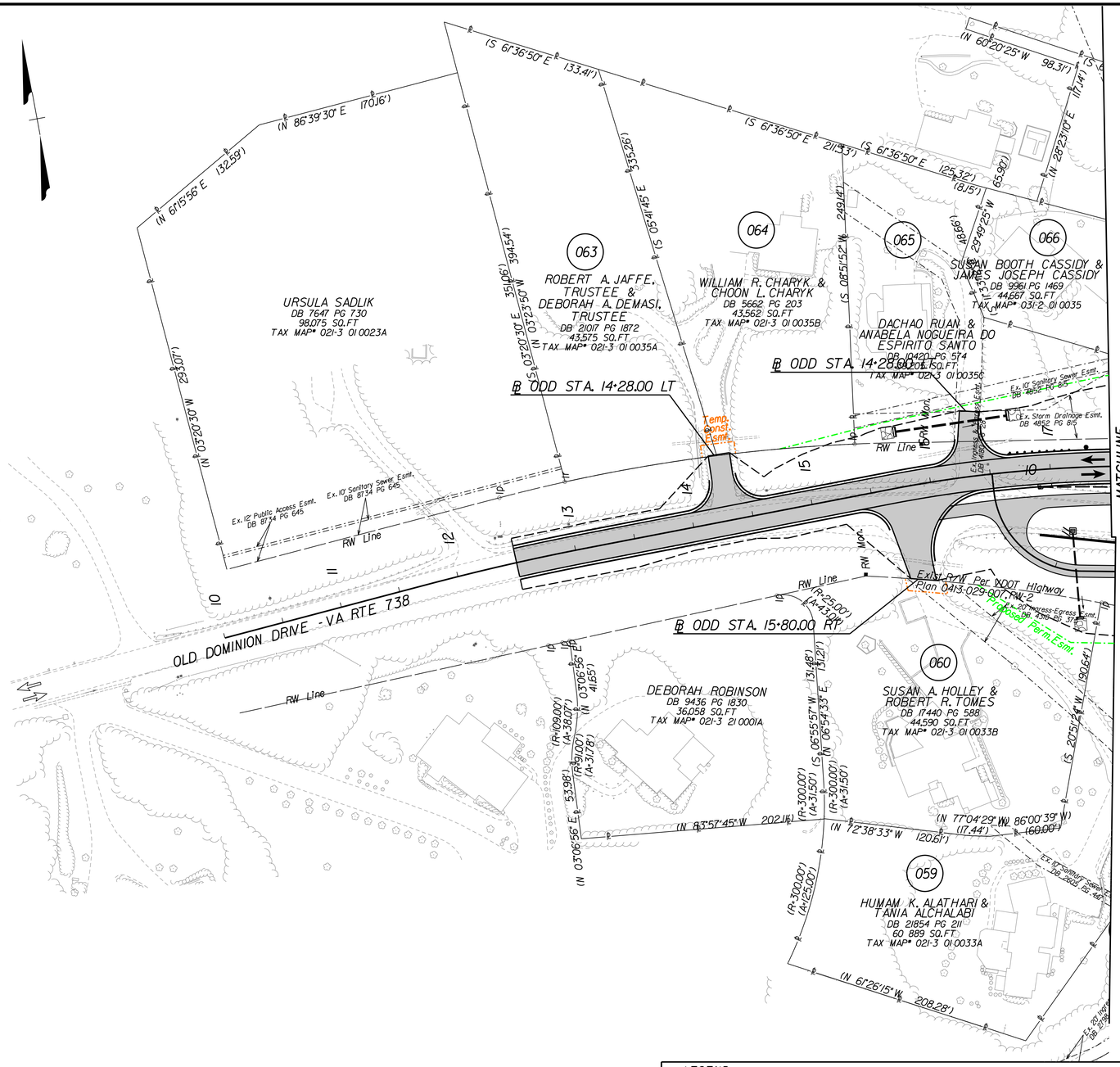
dxxxxxxsht-20RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	20RW

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A



LEGEND

C CONSTRUCTION LIMITS IN CUTS	Proposed R/W — PROPOSED RIGHT OF WAY
F CONSTRUCTION LIMITS IN FILLS	Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
PROJECTS BY OTHERS	Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
PROPOSED PAVEMENT	Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT
PROPOSED SWM AREA	
EXISTING RIGHT OF WAY PROPERTY LINES	

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

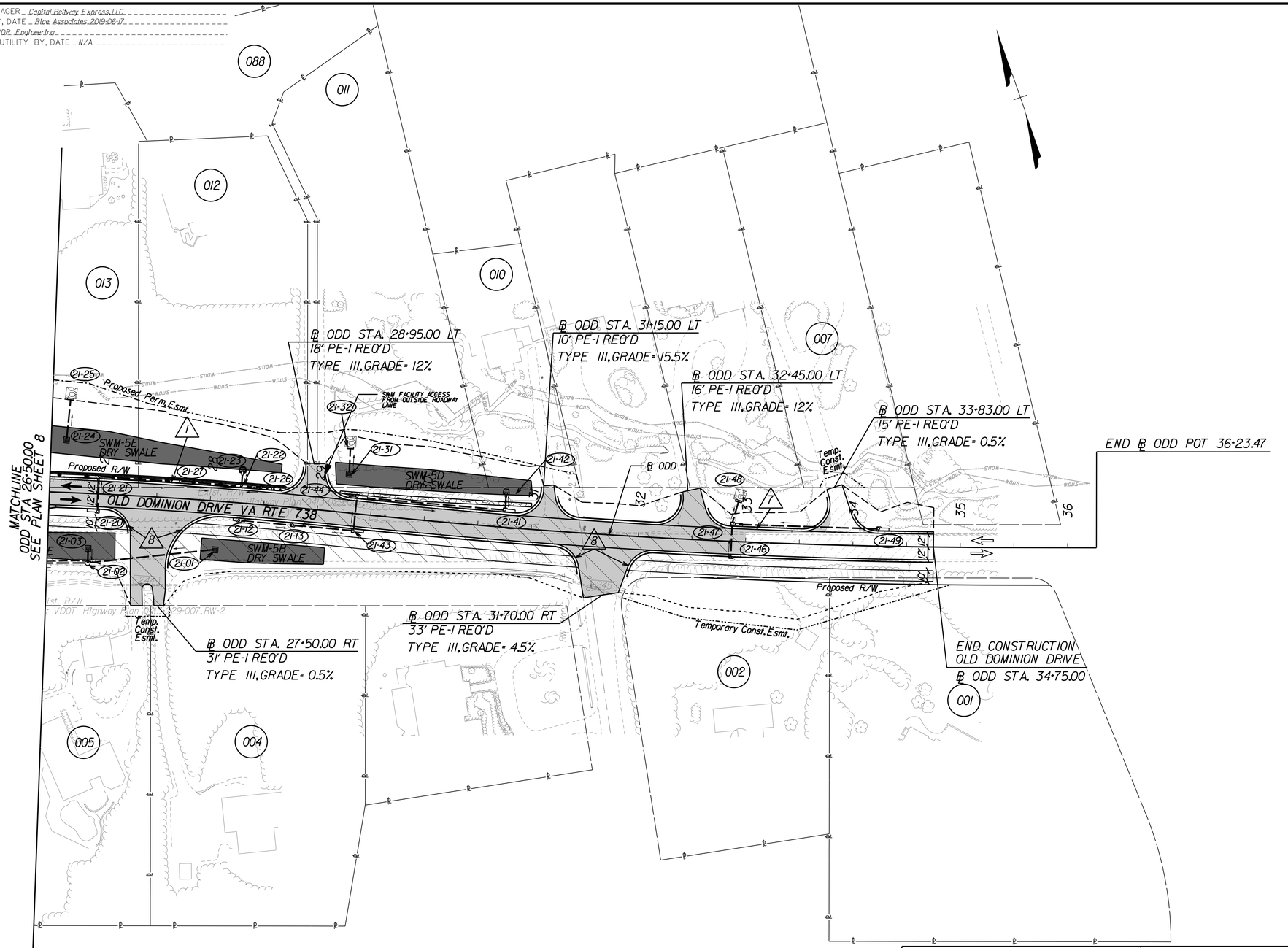
SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	20RW

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	21

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A



LEGEND

- ℄ CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	21

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

OLD DOMINION DRIVE - VA ROUTE 738

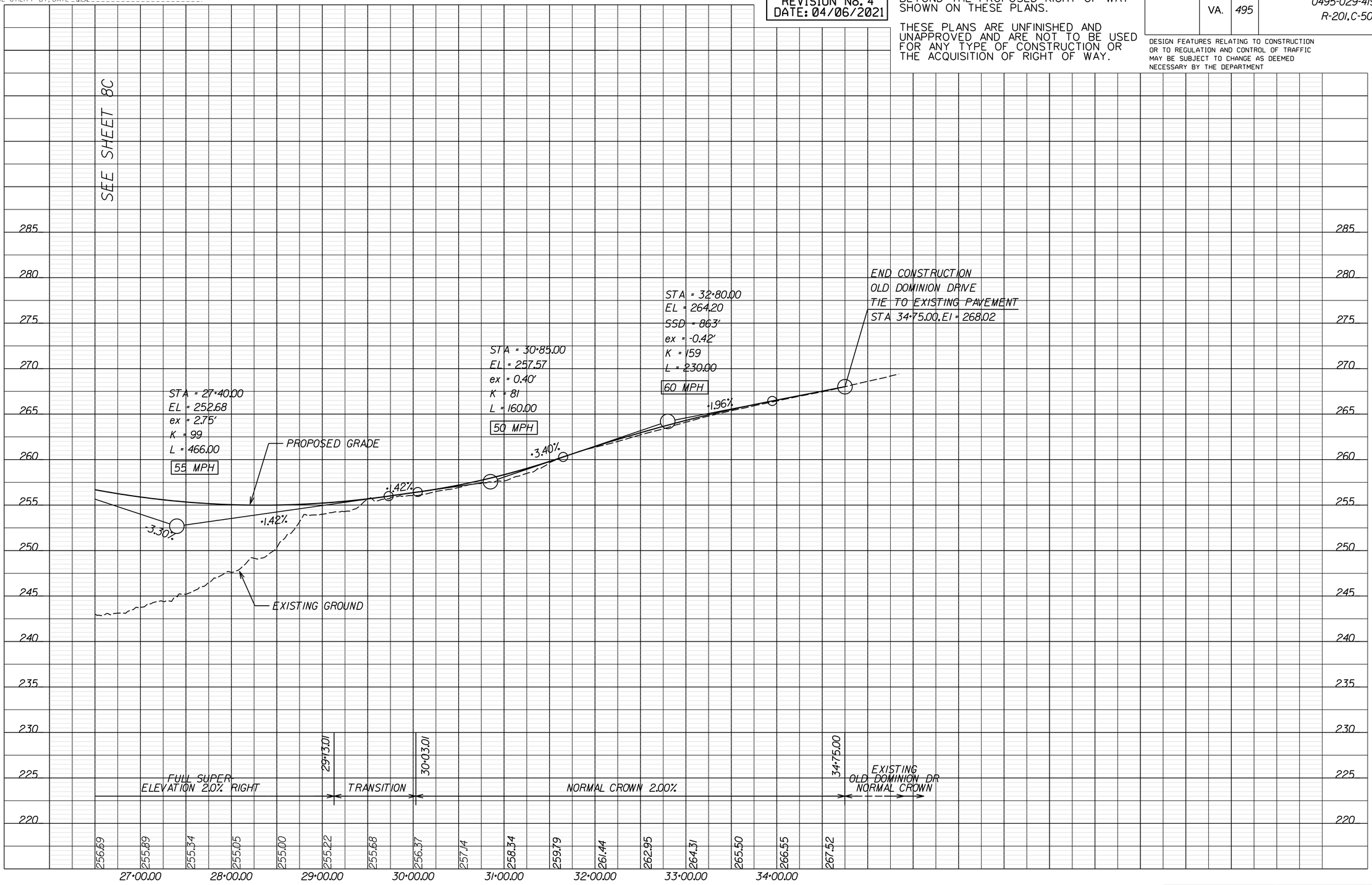
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	21A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	21A

Thursday, April 01, 2021 06:08:43 PM
6:08:43 PM

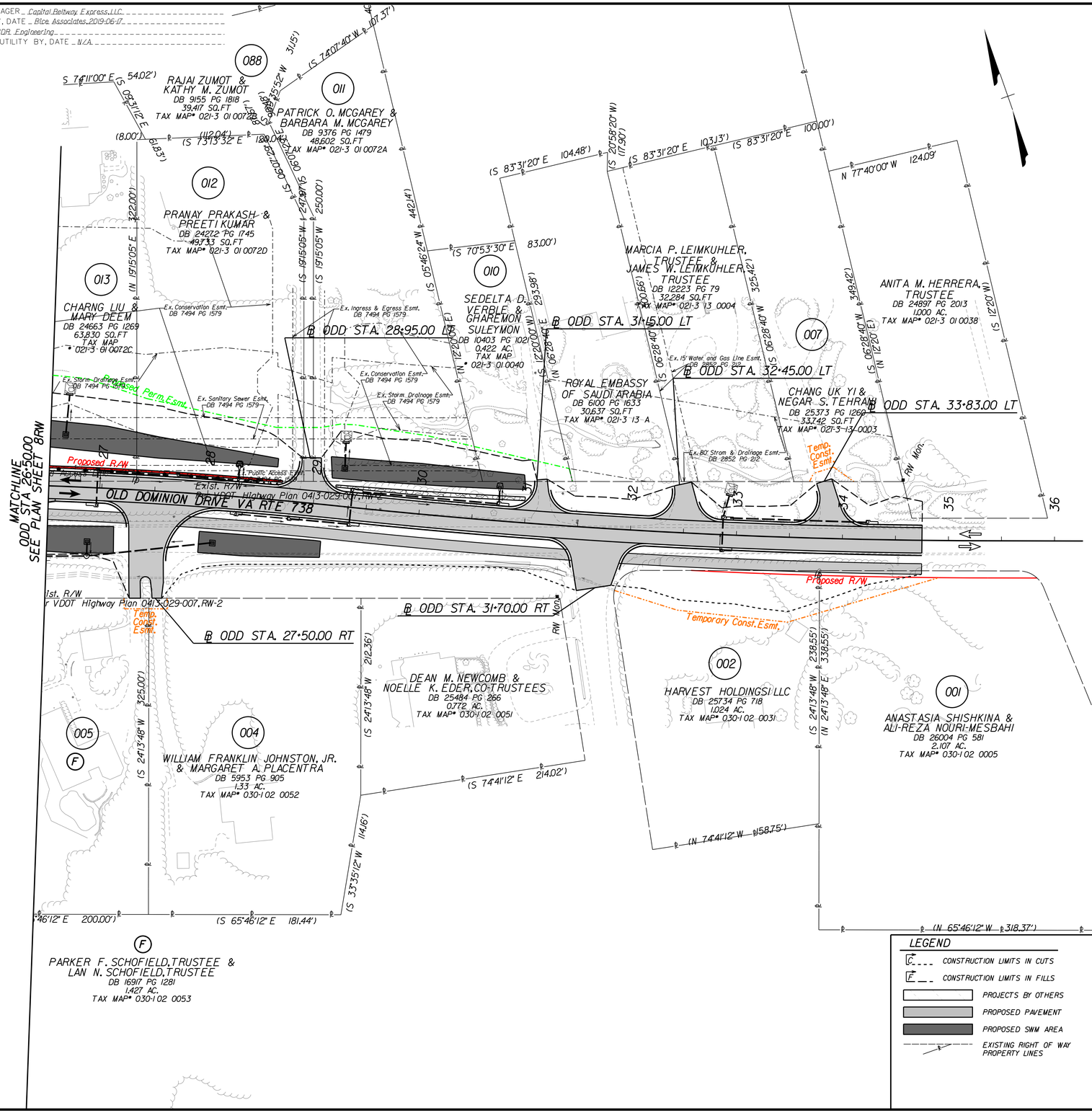
d:xxxxxxsht-21RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	21RW

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A



LEGEND

C ___	CONSTRUCTION LIMITS IN CUTS
F ___	CONSTRUCTION LIMITS IN FILLS
	PROJECTS BY OTHERS
	PROPOSED PAVEMENT
	PROPOSED SWM AREA
	EXISTING RIGHT OF WAY PROPERTY LINES
Proposed R/W	PROPOSED RIGHT OF WAY
Prop. Perm. Esmt.	PROPOSED PERMANENT EASEMENT
Temp. Const. Esmt.	PROPOSED TEMPORARY CONSTRUCTION EASEMENT
Prop. Utility Esmt.	PROPOSED UTILITY EASEMENT

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	21RW

Thursday, April 01, 2021 06:08:56 PM
6:08:56 PM

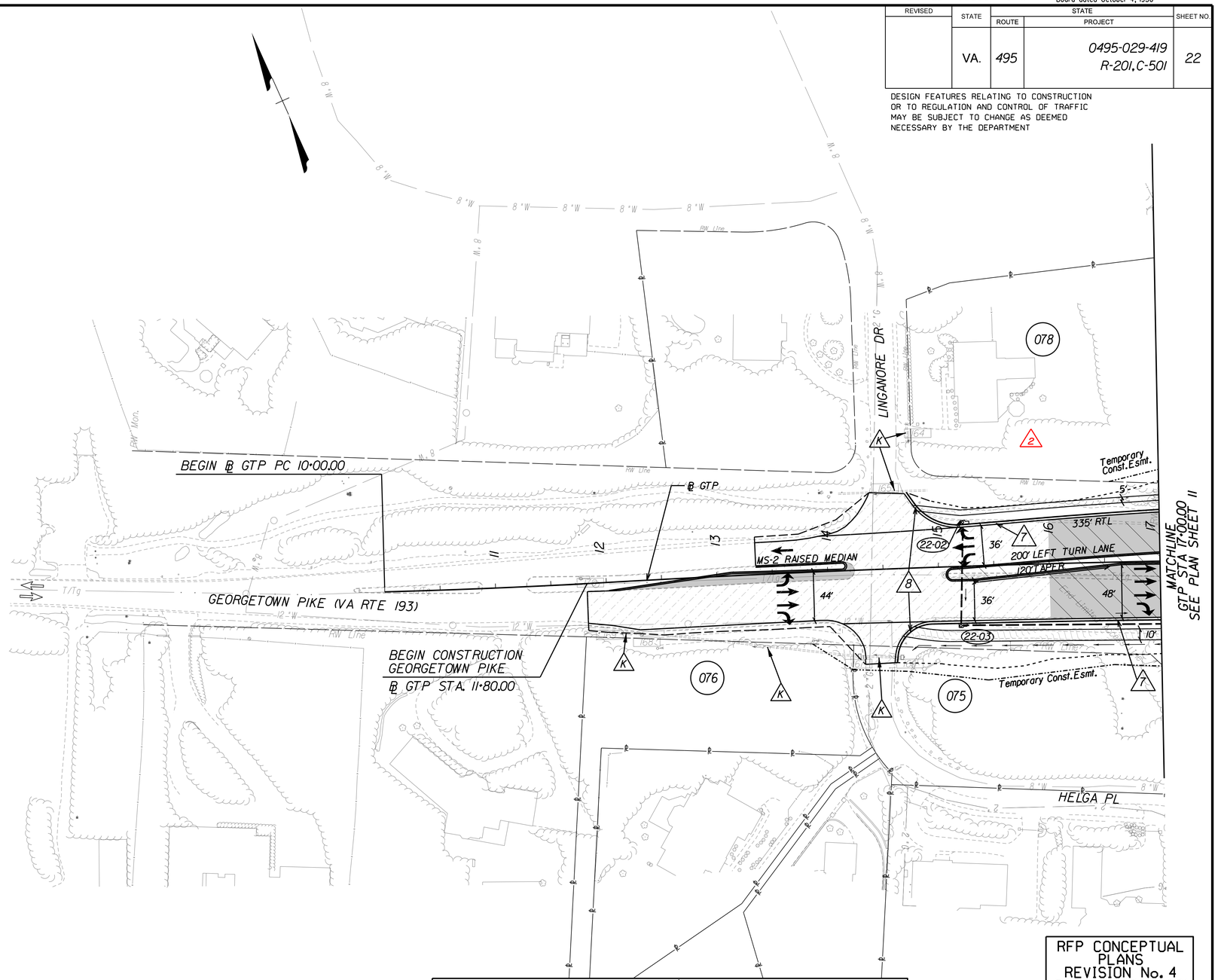
dxxxxxxsht-22.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	22

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

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



REVISIONS		
No.	Description	Date
2	Revised Roadway and Drainage	12/18/2020

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGS1/1A MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	22

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GEORGETOWN PIKE - VA ROUTE 193

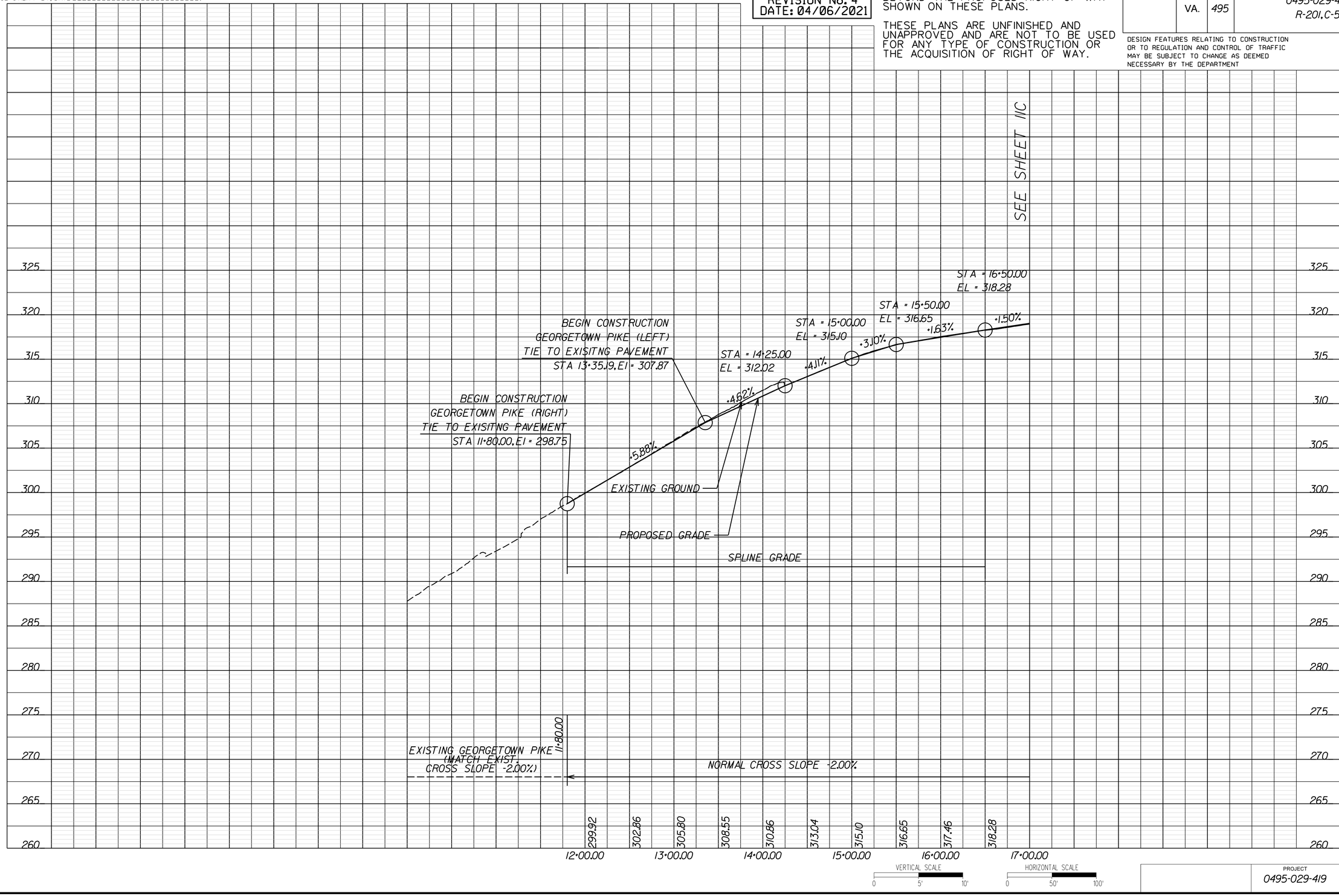
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	22A

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



PROJECT	SHEET NO.
0495-029-419	22A

Thursday, April 01, 2021 06:09:06 PM
6:09:06 PM

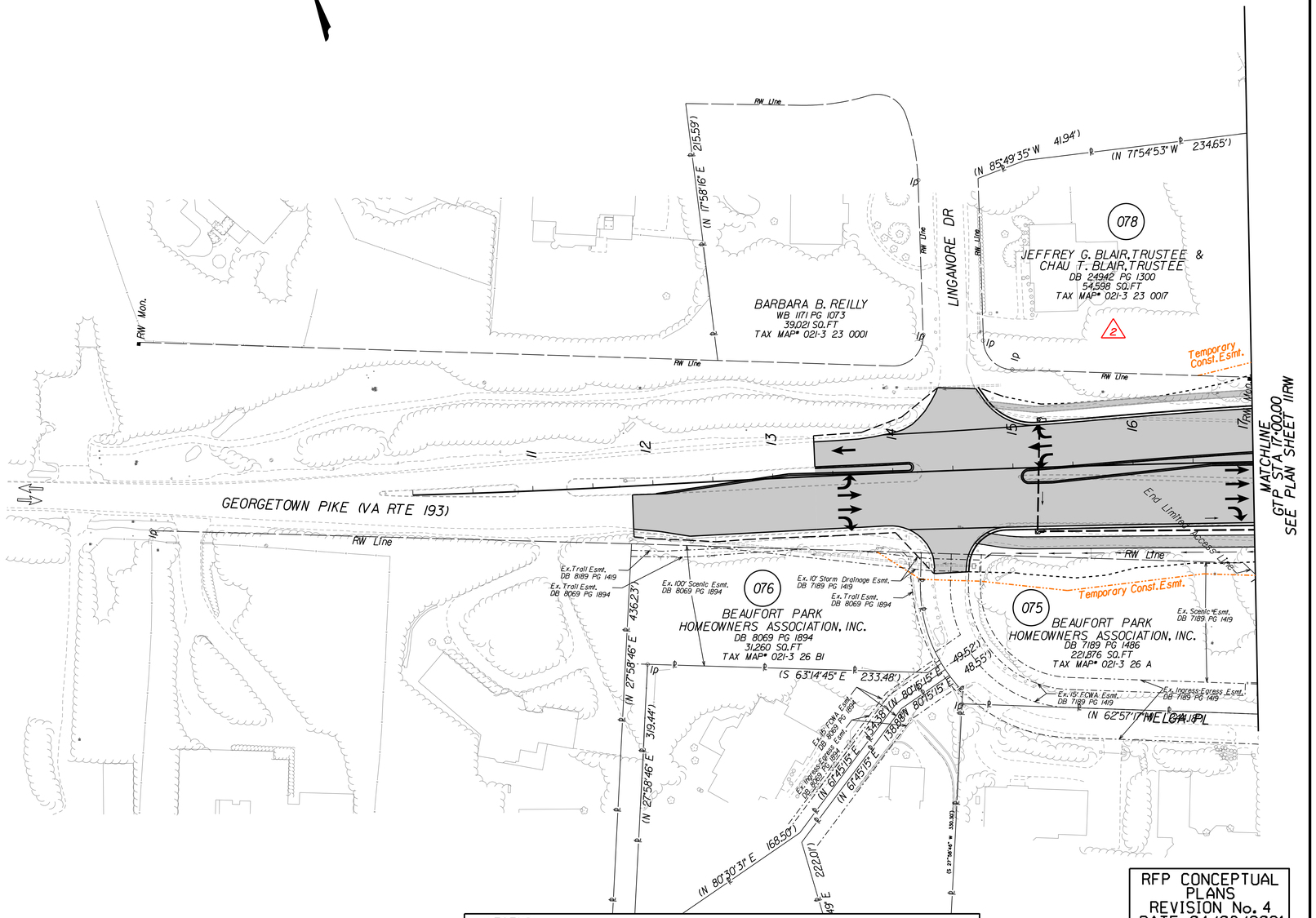
dxxxxxxsht-22RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	22RW

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 _ Capital Beltway Express, LLC.
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A



MATCHLINE STA. 17+00.00
SEE PLAN SHEET 11RW

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

LEGEND

C CONSTRUCTION LIMITS IN CUTS	Proposed R/W — PROPOSED RIGHT OF WAY
F CONSTRUCTION LIMITS IN FILLS	Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
PROJECTS BY OTHERS	Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
PROPOSED PAVEMENT	Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT
PROPOSED SWM AREA	
EXISTING RIGHT OF WAY / PROPERTY LINES	

REVISIONS

No.	Description	Date
2	Revised R/W, Roadway, SUP, and Drainage	12/18/2020

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	22RW

Thursday, April 01, 2021 06:09:20 PM
6:09:20 PM

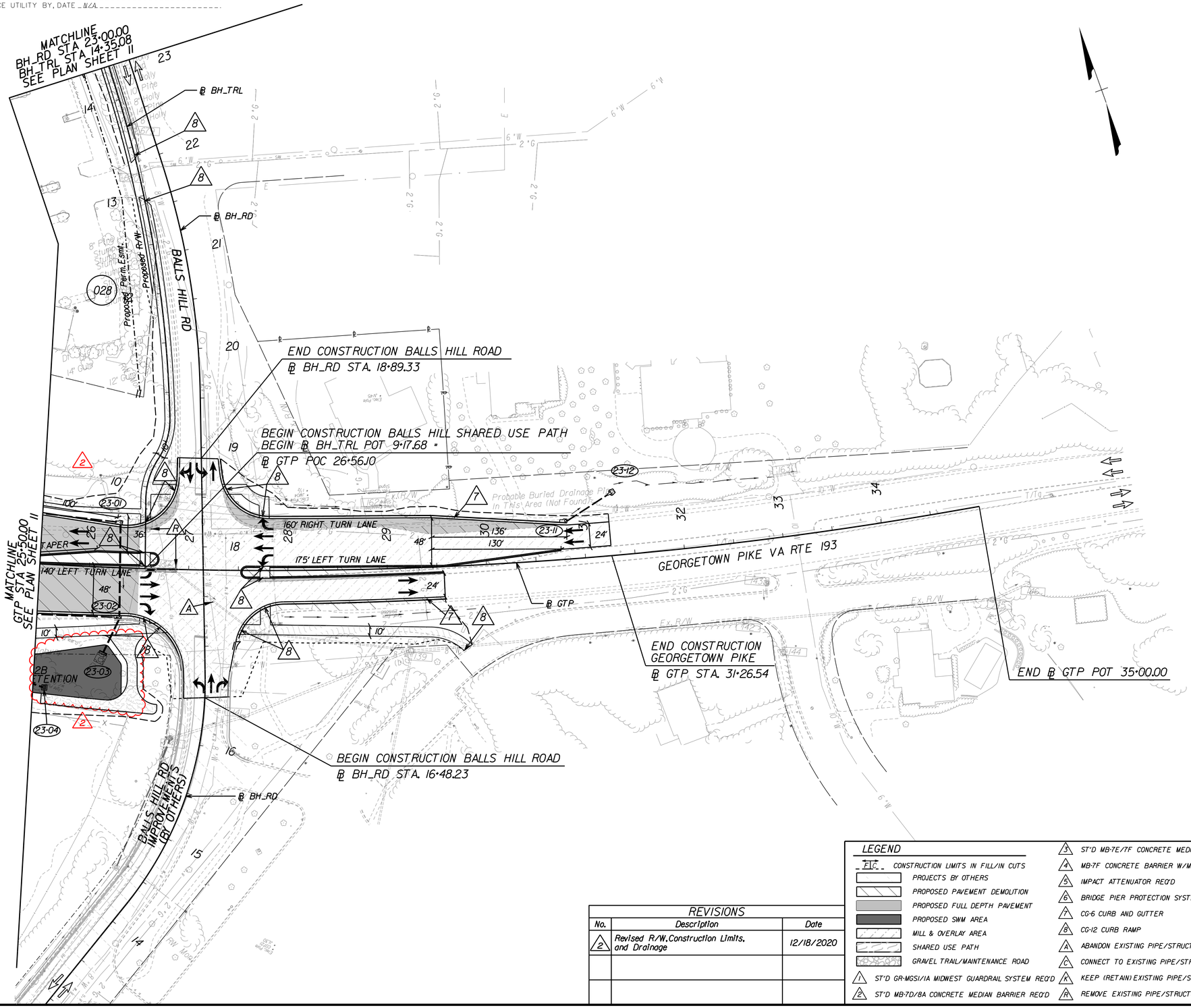
dxxxxxxsht-23.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	23

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A



REVISIONS		
No.	Description	Date
2	Revised R/W, Construction Limits, and Drainage	12/18/2020

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGS1/1A MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	23

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GEORGETOWN PIKE - VA ROUTE 193

REVISIONS		
No.	Description	Date
2	Revised Profile	12/18/2020

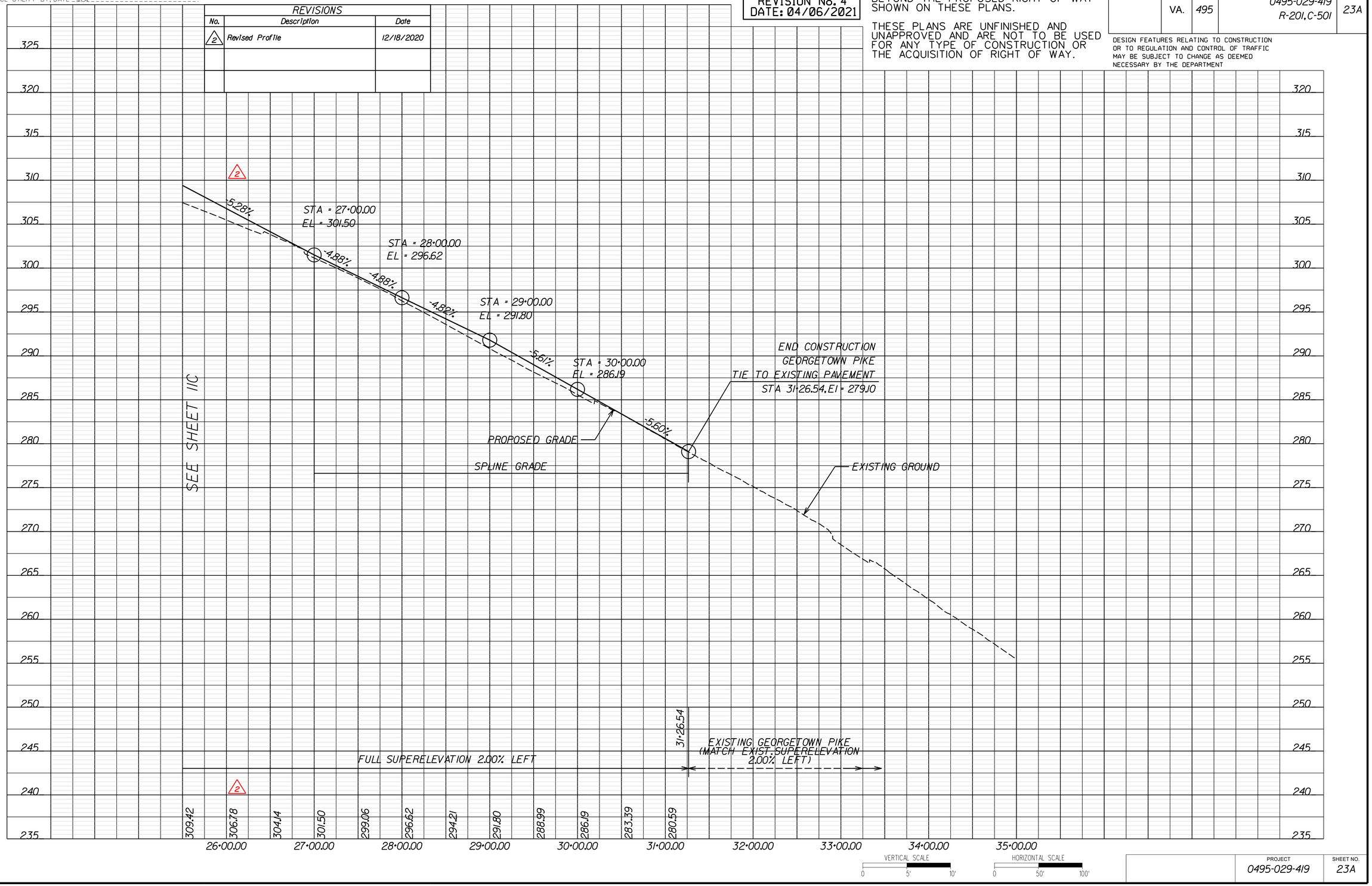
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	23A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	23A

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

BALLS HILL ROAD

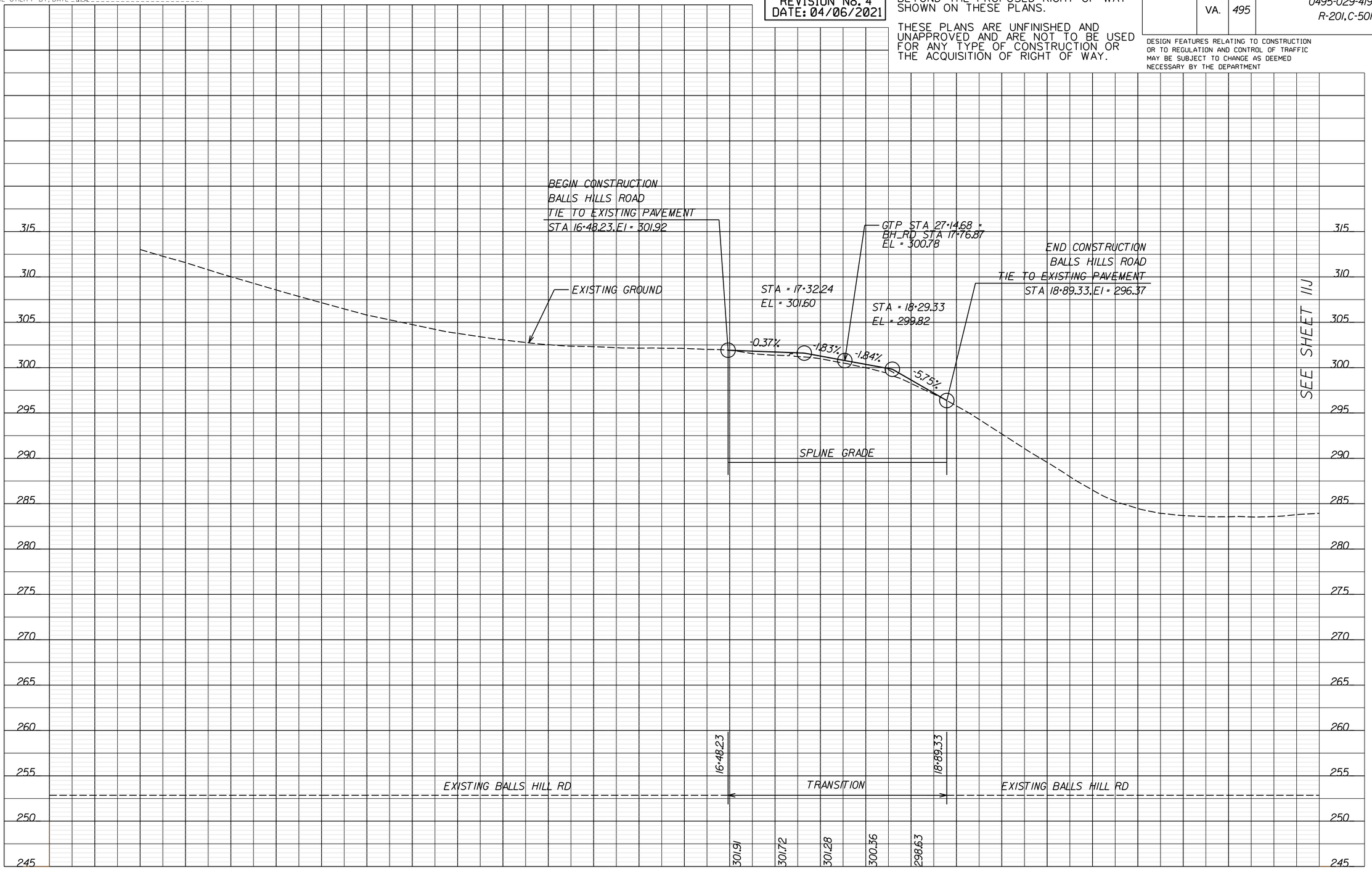
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	23B

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	23B

Thursday, April 01, 2021 06:09:34 PM
6:09:34 PM

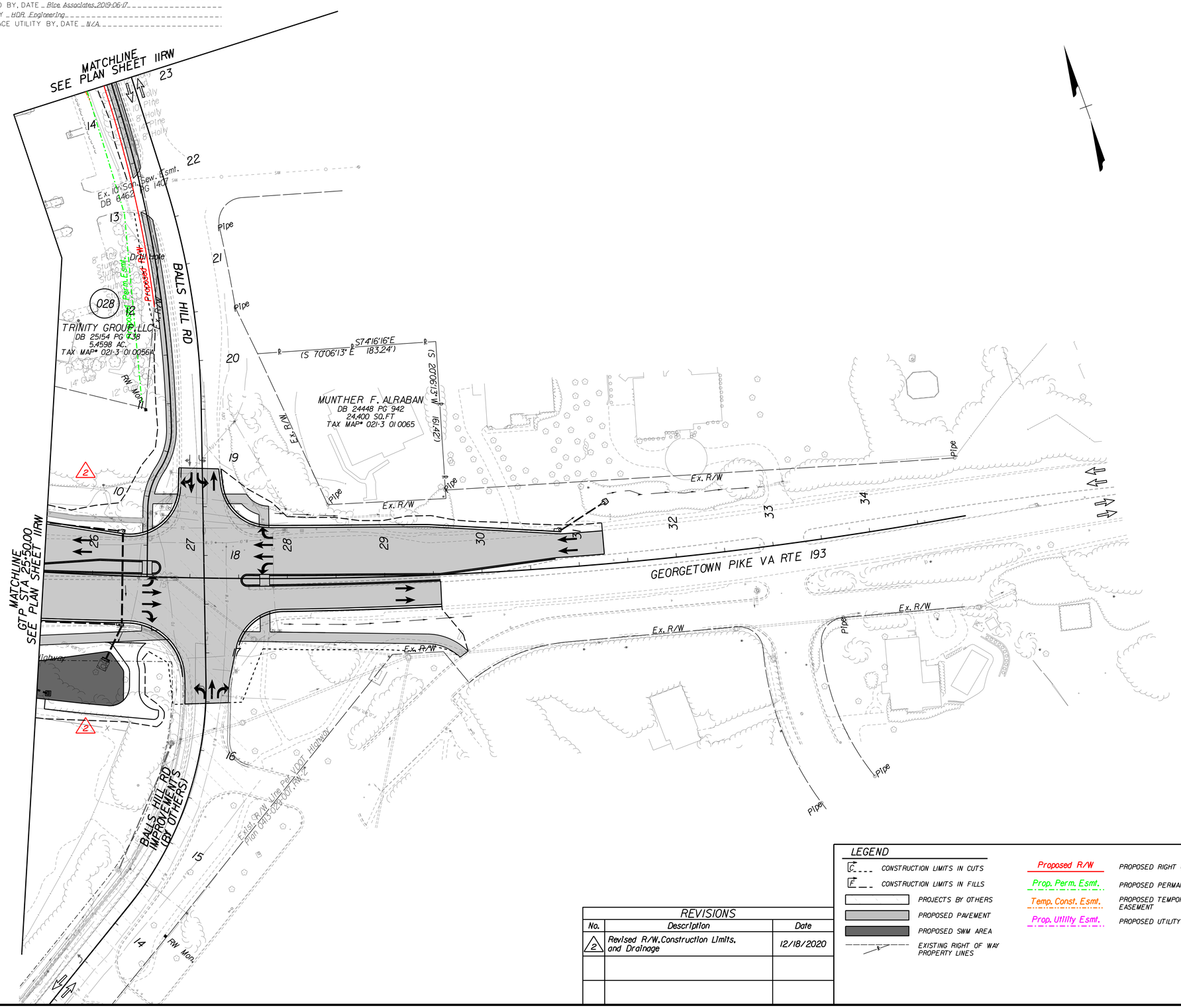
dxxxxxxsht-23RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	23RW

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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A



REVISIONS		
No.	Description	Date
2	Revised R/W, Construction Limits, and Drainage	12/18/2020

LEGEND

CONSTRUCTION LIMITS IN CUTS	Proposed R/W — PROPOSED RIGHT OF WAY
CONSTRUCTION LIMITS IN FILLS	Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
PROJECTS BY OTHERS	Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
PROPOSED PAVEMENT	Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT
PROPOSED SWM AREA	
EXISTING RIGHT OF WAY PROPERTY LINES	

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	23RW

Thursday, April 01, 2021 06:09:46 PM
6:09:46 PM

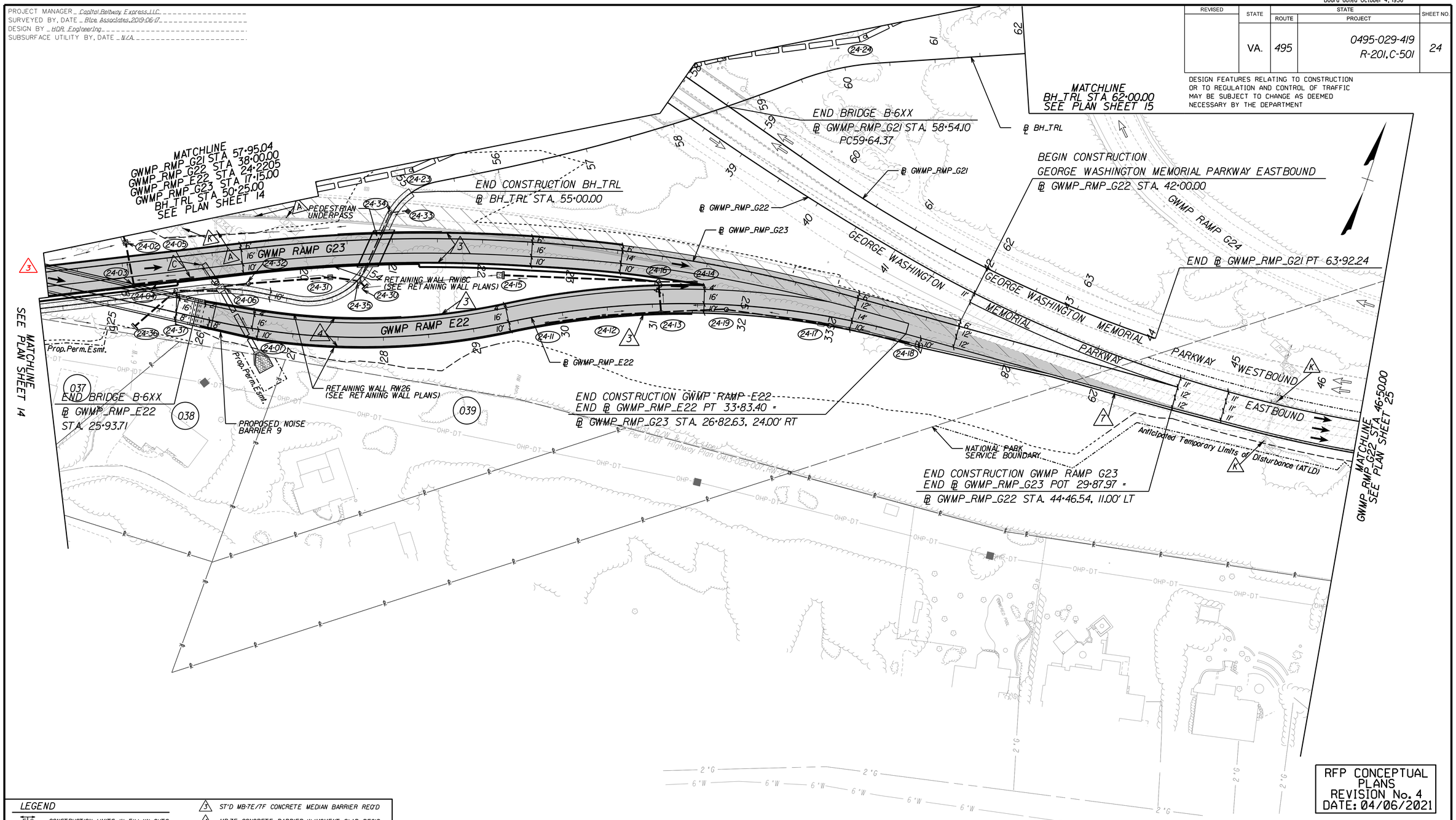
dxxxxxxsht-24.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019:06:17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	24

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



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

LEGEND

- CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGSI/IA MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

REVISIONS

No.	Description	Date
3	Revised Noise Barrier and Permanent Easement	03/09/2021

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	24

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP G23

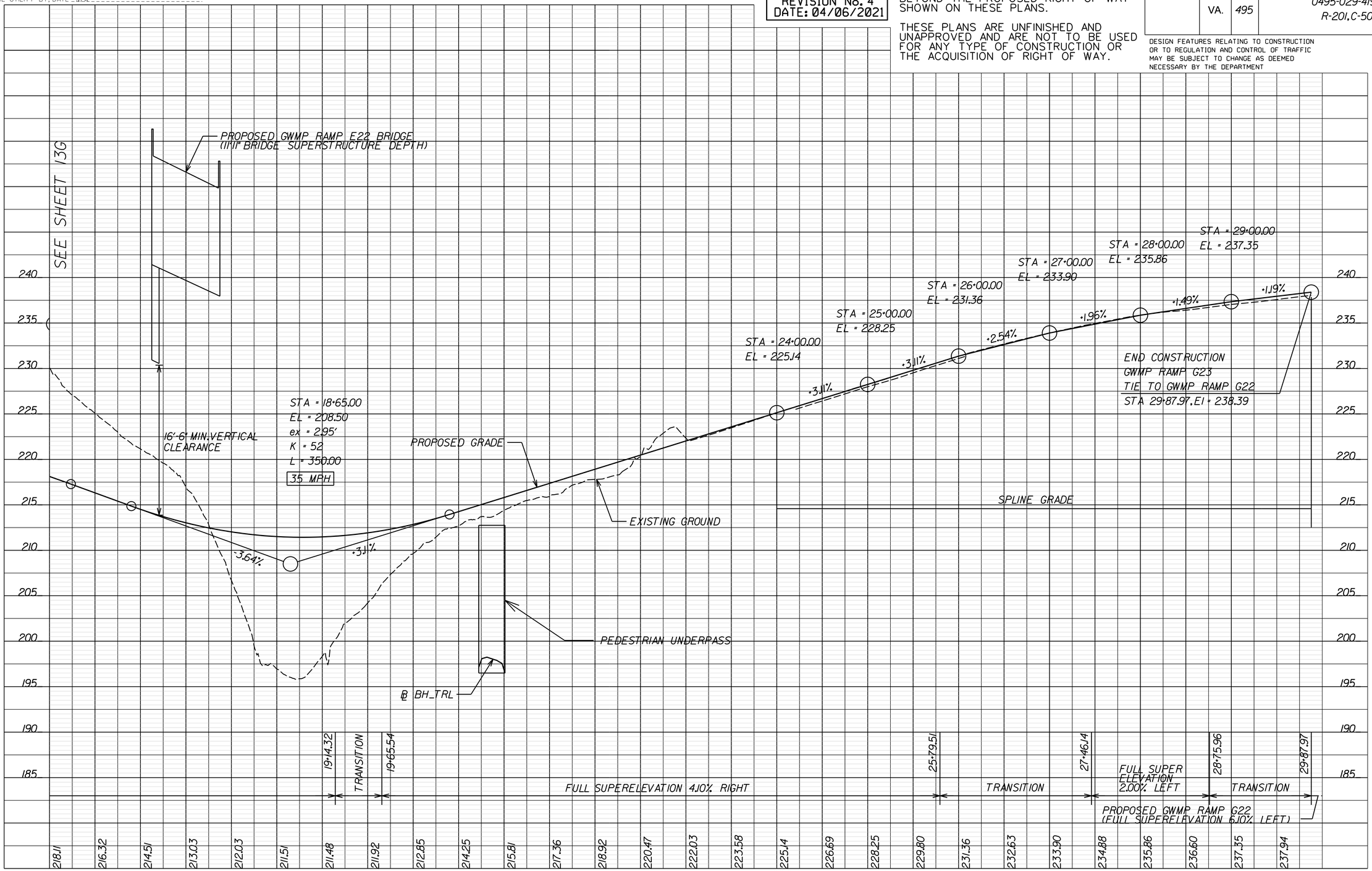
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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.	495	0495-029-419 R-201,C-501	24A

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



VERTICAL SCALE 0 5' 10'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	24A

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP E22

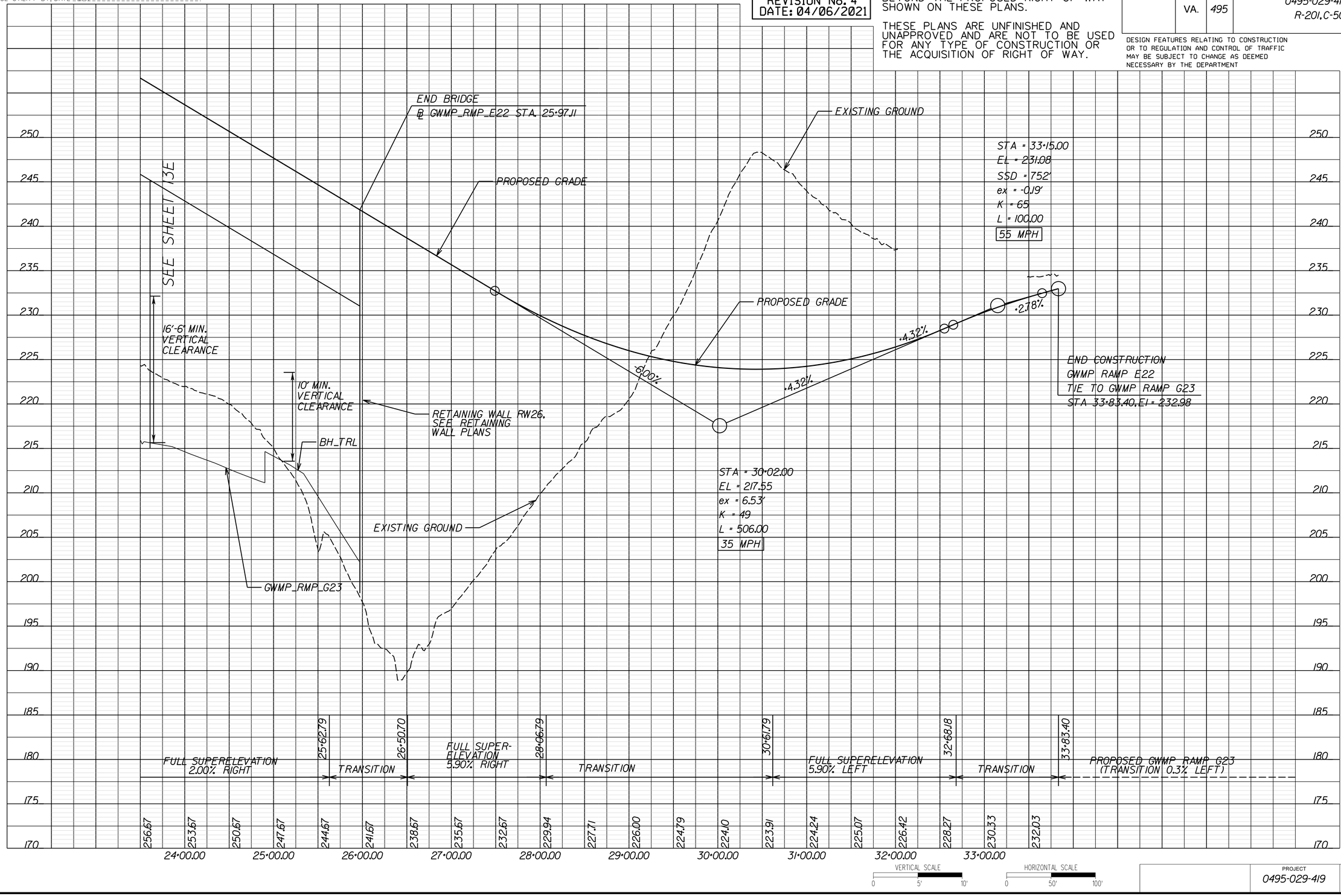
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	24B

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	24B

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP G22

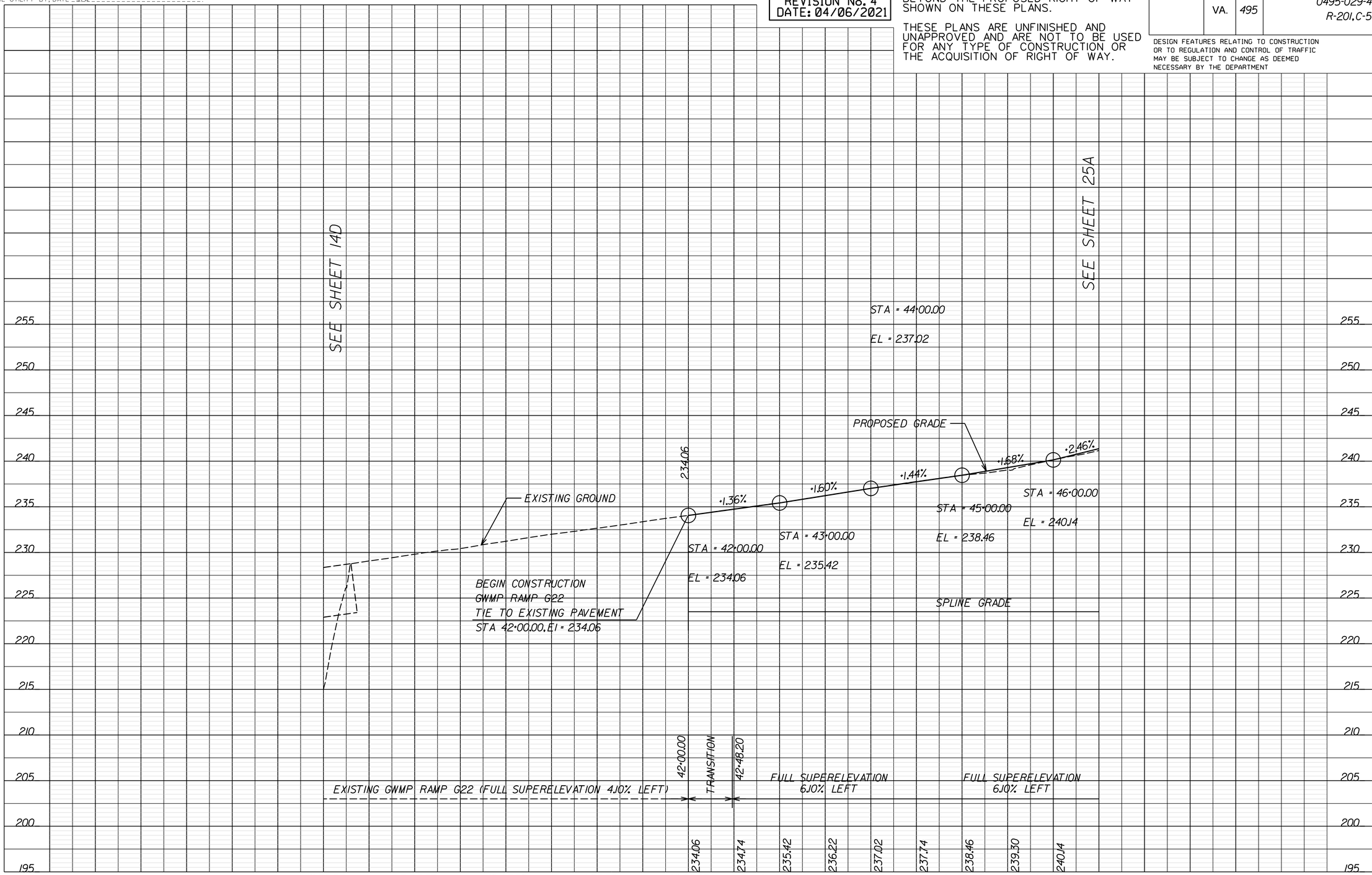
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	24C

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	24C

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

BALLS HILLS ROAD SHARED USE PATH

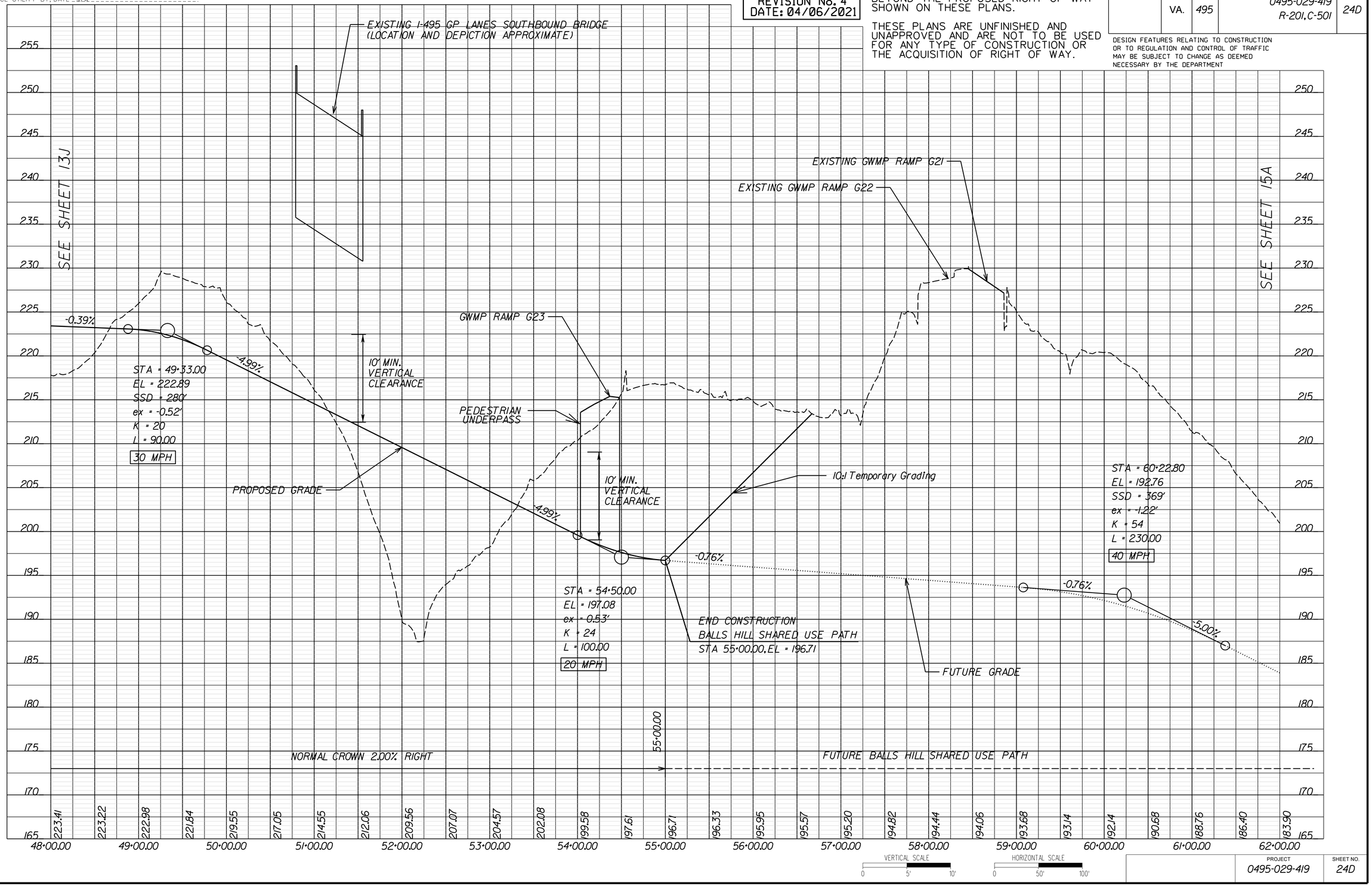
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	24D

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.
0495-029-419	24D

Thursday, April 01, 2021 06:10:09 PM
6:10:09 PM

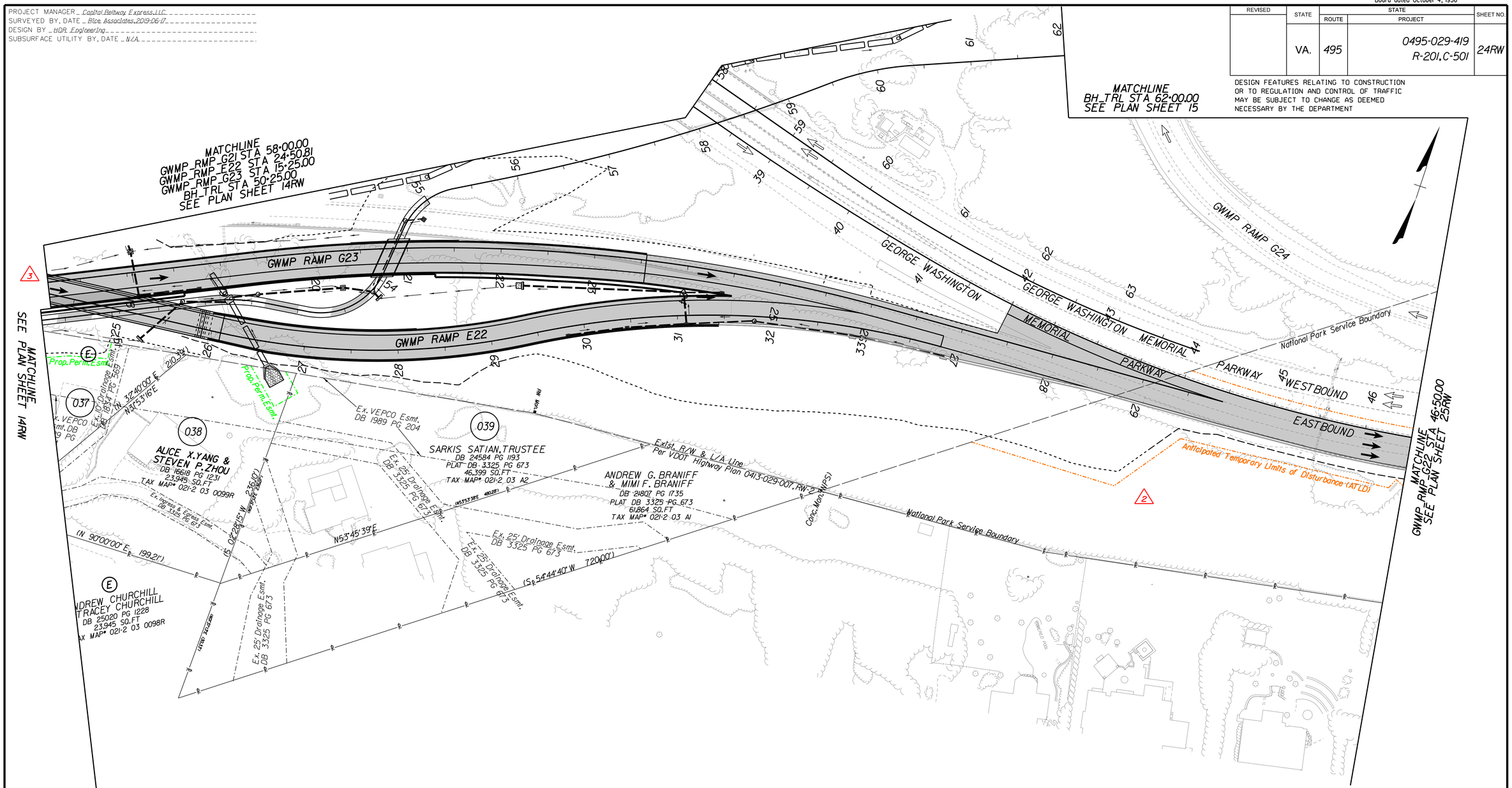
dxxxxxxsht-24RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	24RW

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



LEGEND

CONSTRUCTION LIMITS IN CUTS	Proposed R/W — PROPOSED RIGHT OF WAY
CONSTRUCTION LIMITS IN FILLS	Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
PROJECTS BY OTHERS	Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
PROPOSED PAVEMENT	Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT
PROPOSED SWM AREA	
EXISTING RIGHT OF WAY PROPERTY LINES	

REVISIONS

No.	Description	Date
2	Added ATLD to NPS parcel	12/18/2020
3	Revised Noise Barrier and Permanent Easement	03/09/2021

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	24RW

LIMITED ACCESS HIGHWAY

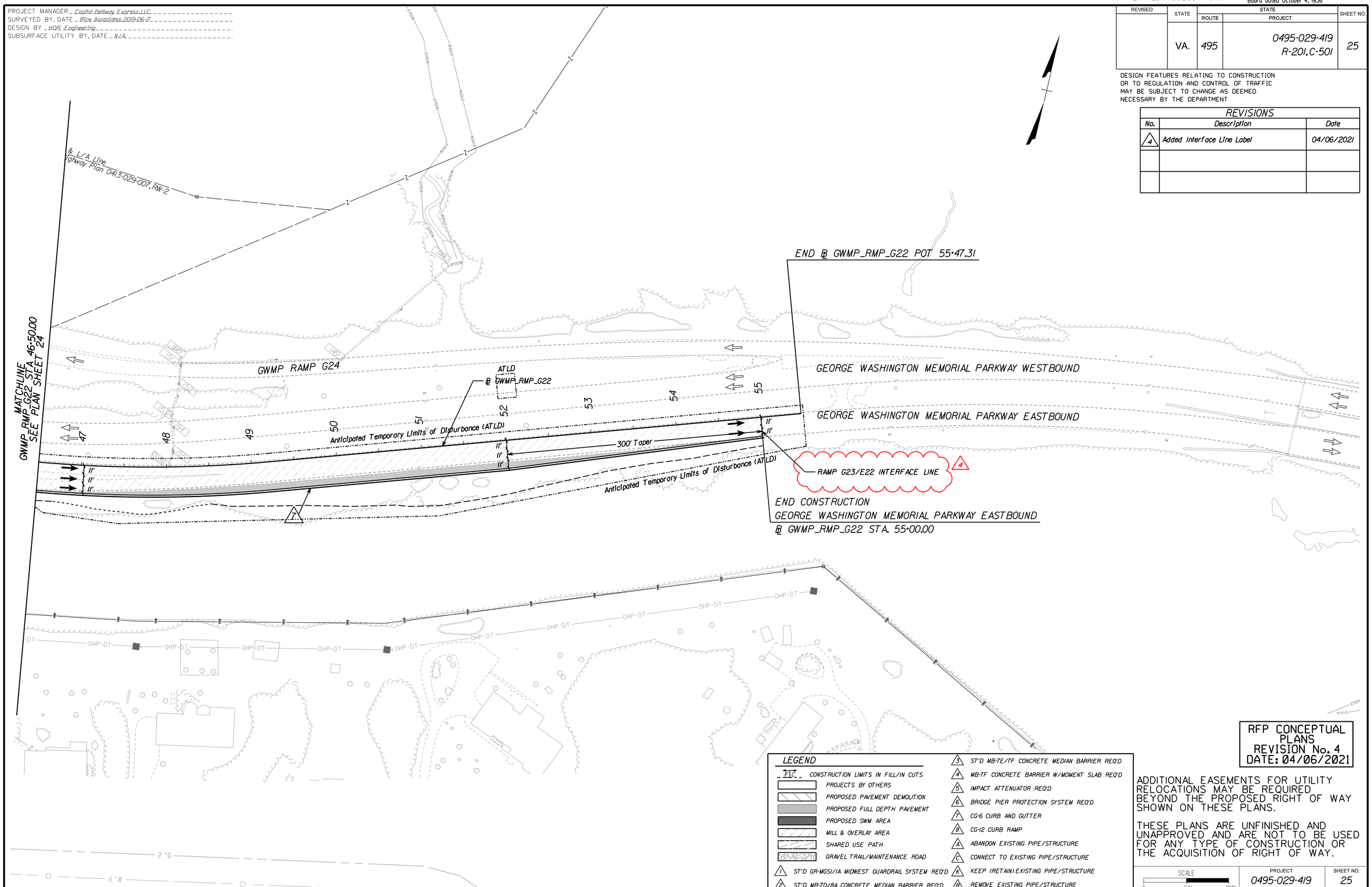
By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	25

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

REVISIONS		
No.	Description	Date
4	Added Interface Line Label	04/06/2021

PROJECT MANAGER Capital Beltway Express, LLC
SURVEYED BY, DATE Rice Associates, 2019-06-17
DESIGN BY HDR Engineering
SUBSURFACE UTILITY BY, DATE N/A



LEGEND

- F C — CONSTRUCTION LIMITS IN FILL/IN CUTS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT DEMOLITION
- PROPOSED FULL DEPTH PAVEMENT
- PROPOSED SWM AREA
- MILL & OVERLAY AREA
- SHARED USE PATH
- GRAVEL TRAIL/MAINTENANCE ROAD
- 1 ST'D GR-MGS1/1A MIDWEST GUARDRAIL SYSTEM REQ'D
- 2 ST'D MB-7D/8A CONCRETE MEDIAN BARRIER REQ'D
- 3 ST'D MB-7E/7F CONCRETE MEDIAN BARRIER REQ'D
- 4 MB-7F CONCRETE BARRIER W/MOMENT SLAB REQ'D
- 5 IMPACT ATTENUATOR REQ'D
- 6 BRIDGE PIER PROTECTION SYSTEM REQ'D
- 7 CG-6 CURB AND GUTTER
- 8 CG-12 CURB RAMP
- A ABANDON EXISTING PIPE/STRUCTURE
- C CONNECT TO EXISTING PIPE/STRUCTURE
- K KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- R REMOVE EXISTING PIPE/STRUCTURE

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	25

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

GWMP RAMP G22

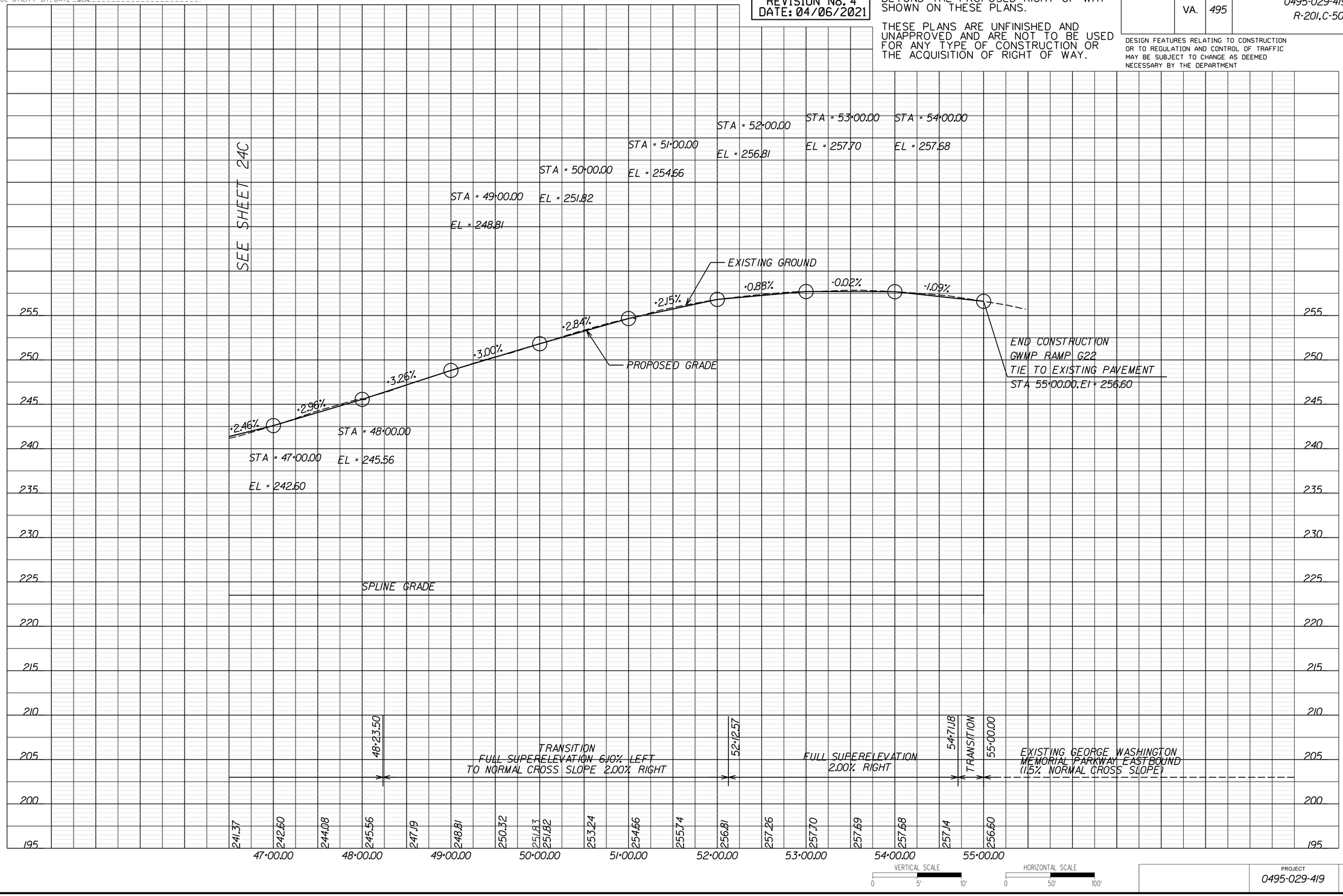
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	25A

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



VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	25A

Thursday, April 01, 2021 06:10:33 PM
6:10:33 PM

dxxxxxxsht-25RW.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	25RW

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

UNITED STATES OF AMERICA
DB 1879 PG 205
22.21467 AC.
TAX MAP# 021-2 01 0007

(S 21°23'30" W
(N 54°45'40" E 247.60')
℄ L/A Line
Highway Plan 0413-029-007, RW-2
℄ Conc. Mon. (NPS)
MATCHLINE GWMP RMP G22 STA 46+50.00 SEE PLAN SHEET 24RW
GWMP RAMP G24
ATLD
GEORGE WASHINGTON MEMORIAL PARKWAY WESTBOUND
GEORGE WASHINGTON MEMORIAL PARKWAY EASTBOUND
47 48 49 50 51 52 53 54 55
Anticipated Temporary Limits of Disturbance (ATLD)
Anticipated Temporary Limits of Disturbance (ATLD)
2
National Park Service Boundary
Conc. Mon. (NPS)
National Park Service Boundary

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS

No.	Description	Date
2	Added ATLD to NPS parcel	12/18/2020

LEGEND

- CONSTRUCTION LIMITS IN CUTS
- CONSTRUCTION LIMITS IN FILLS
- PROJECTS BY OTHERS
- PROPOSED PAVEMENT
- PROPOSED SWM AREA
- EXISTING RIGHT OF WAY PROPERTY LINES
- Proposed R/W — PROPOSED RIGHT OF WAY
- Prop. Perm. Esmt. — PROPOSED PERMANENT EASEMENT
- Temp. Const. Esmt. — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- Prop. Utility Esmt. — PROPOSED UTILITY EASEMENT

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	25RW

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	57

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 _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

RETAINING WALL GENERAL NOTES:

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020. /1

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

The minimum design life of retaining walls shall be 100-year.

Prior to wall construction, the foundation shall be compacted with a smooth wheel vribratory roller. The drums of the roller should be ballasted and eachand pavement plans.

Design Soil Properties shall be determined during final design.

For Boring Logs, see Geotechnical Data Report date December 31, 2019.

Lateral pressure arising from surcharge loading should be added to the soil earth pressures to determine the total lateral pressures that the walls must resist. In addition, transient loads imposed on the walls by construction equipment during placement and compaction of backfill should be taken into consideration during design and construction. Excessively heavy grading equipment (axle loads greater than 18,000 lbs) shall not be allowed within 5 feet of the walls. Compaction within 5 feet of the walls should be completed with a hand operated tamper or small roller compactor.

/1 Bearing Pressure and Settlement of walls shall be determined in final design.

If excavation is required in ground improved areas, the Engineer shall be notified prior to excavation.

Minimum panel design thickness of MSE wall is 5.5 inches. Thickness of concrete must increase to accommodate any architectural surface finish that may be specified.

Class I CRR steel shall be used in copings.

Class I CRR steel shall be used in portions of MSE wall panels within splash zone as shown on the plans.

Reinforcing steel shall be continuous through contraction joint. All construction joints in the facing shall include a shear key of not less then 2 inch by 1½ inch and a nonmetal waterstop. Expansion joints shall be provided at intervals not to exceed 80 feet. Joint shall be filled per Section 404.05 of the VDOT Road and Bridge Specifications and include a nonmetal waterstop.
see the corresponding plans.

For storm and water line structure locations and pipe inverts, see drainage verified againstFor communications, roadway lighting, signage, and other electrical crossings, roadway plan.
For roadway geometry, see the roadway plans.
pass of the roller should overlap one half the width of the previous pass.
The roller shall make at least ten passes over the proposed wall foundation zone. No density test will be required. Any foundation soils found to be unsuitable shall be removed and replaced with select material Type I minimum CBR of 30.

Remove unsuitable or unstable foundation material below the bottom of the wall and replace with select material prior to wall construction. Compact the foundation area according to the VDOT Specifications.

The Contractor shall field verify location and dimension of existing and proposed drainage pipes and conduits. Contractor shall make all necessary adjustments to retaining wall to accommodate existing and proposed utilities.

Dimensions are measured along front face of retaining wall (work line/base line.)

Dimensions shown on plans are based on the controlling roadway baseline. Secondary gutter line elevations (if shown) are calculated by projecting the offset from the controlling baseline to the wall and by computing equivalent stations and offsets from the secondary baseline. All dimensions shall be

The concrete moment slab system, which includes traffic barrier and coping, shall be designed by the retaining wall contractor and integrated into the wall design. Design calculations shall be supplied for the moment slab system. walls and the moment slab system shall be designed in accordance with AASHTO and applicable project standards.

Corrosion Resistant Reinforcing (CRR) steel shall be used in moment slab and shall be the same type of corrosion resistant reinforcing steel specified for parapet.

An impervious membrane shall be placed below the pavement and just above the first row of reinforcement to intercept any flows containing deicing chemicals. The membrane shall be sloped to drain away from the facing to an intercepting longitudinal drain outletted beyond the reinforcing zone.

A geotextile shall be used as a separator between the mechanically stabilized earth mass and the subbase.

All panel types and other related elements shall be detailed on shop drawings.

Waiting period for installing pavement, moment slab, coping, etc. will be determined by designer.

Complete working drawings/shop plans and design calculations shall be submitted to the Engineer for review prior to beginning wall work. The working plans/shop drawings shall conform to the submittal requirements of the project specific technical specifications. Top and bottom of wall and limits of wall shall be in accordance with the retaining wall layout. The drawing shall include the location of all construction joints, weep holes, and soil nail anchors.

Drainage system may be necessary behind the walls. If required, complete working plans/shop drawings and design calculations for the wall drainage system shall be designed by the Contractor and submitted to the Engineer for review. The submitted design shall be signed and sealed by an Engineer registered in the Commonwealth of Virginia.

For wall installation at stream crossing, provide adequate drainage so the difference between the streambed and saturated backfill is not greater than what is considered in the design.

Tie-backs, if required, shall be designed for an ultimate tie-back capacity per unit length in accordance with AASHTO LRFD Bridge Design Specifications, 8th Edition, (2017)

Structural steel anchor rods, dead man wales (if used) and miscellaneous hardware used in connection of rods to retaining wall shall be galvanized.

Welded connections shall be continuous unless specified.

Holes in sheet pile and anchor plate shall be ⅛" greater than anchor rod diameter.

Anchors shall be attached such that they do not protrude beyond the face of wall.

RETAINING WALL PLANS

SHEET NO.	DESCRIPTION
57	RETAINING WALL GENERAL NOTES
58(1) thru 58(7)	RETAINING WALL LOCATION MAP SHEETS
59(1), 59(2)	RETAINING WALL RW01 PLAN AND PROFILE SHEETS
60	RETAINING WALL RW02 PLAN AND PROFILE SHEET
61(1), 61(2), 61(3), 61(4)	RETAINING WALL RW03 PLAN AND PROFILE SHEETS
62(1), 62(2)	RETAINING WALL RW04 AND RW04A PLAN AND PROFILE SHEETS
63(1), 63(2)	RETAINING WALL RW06 AND RW06A PLAN AND PROFILE SHEETS
64(1), 64(2)	RETAINING WALL RW07A AND RW07B PLAN AND PROFILE SHEETS
65(1), 65(2)	RETAINING WALL RW08 PLAN AND PROFILE SHEETS
66(1), 66(2)	RETAINING WALL RW10 PLAN AND PROFILE SHEETS
67	RETAINING WALL RW11 PLAN AND PROFILE SHEET
68	RETAINING WALL RW12 PLAN AND PROFILE SHEET
69	RETAINING WALL RW13 PLAN AND PROFILE SHEET
70(1), 70(2)	RETAINING WALL RW14 PLAN AND PROFILE SHEETS
71	RETAINING WALL RW15 PLAN AND PROFILE SHEET
/2 72(1), 72(2), 72(3), 72(4)	RETAINING WALL RW16A, RW16B, AND RW16C PLAN AND PROFILE SHEETS
73(1), 73(2)	RETAINING WALL RW17A AND RW17B PLAN AND PROFILE SHEETS
74	RETAINING WALL RW18 PLAN AND PROFILE SHEET
75	RETAINING WALL RW19 PLAN AND PROFILE SHEET
76	RETAINING WALL RW20 PLAN AND PROFILE SHEET
77	RETAINING WALL RW21 PLAN AND PROFILE SHEET
78	RETAINING WALL RW23 PLAN AND PROFILE SHEET
79	RETAINING WALL RW25 PLAN AND PROFILE SHEET
80	RETAINING WALL RW26 PLAN AND PROFILE SHEET
81	RETAINING WALL RW28 PLAN AND PROFILE SHEET
82	RETAINING WALL RW29 PLAN AND PROFILE SHEET
83(1), 83(2)	RETAINING WALL RW30 AND RW30A PLAN AND PROFILE SHEETS
84	RETAINING WALL RW31 PLAN AND PROFILE SHEET
85	RETAINING WALL RW32 PLAN AND PROFILE SHEET
86	RETAINING WALL RW33 PLAN AND PROFILE SHEET
87	RETAINING WALL RW34 PLAN AND PROFILE SHEET

REVISIONS

No.	Description	Date
/1	Revised general notes	11/13/2020
/2	Revised index of sheets	12/18/2020

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

Thursday, April 01, 2021 06:10:41 PM
6:10:41 PM

d:xxxxxxsht-58(01).dgn
Plotted By: ETWRIGHT

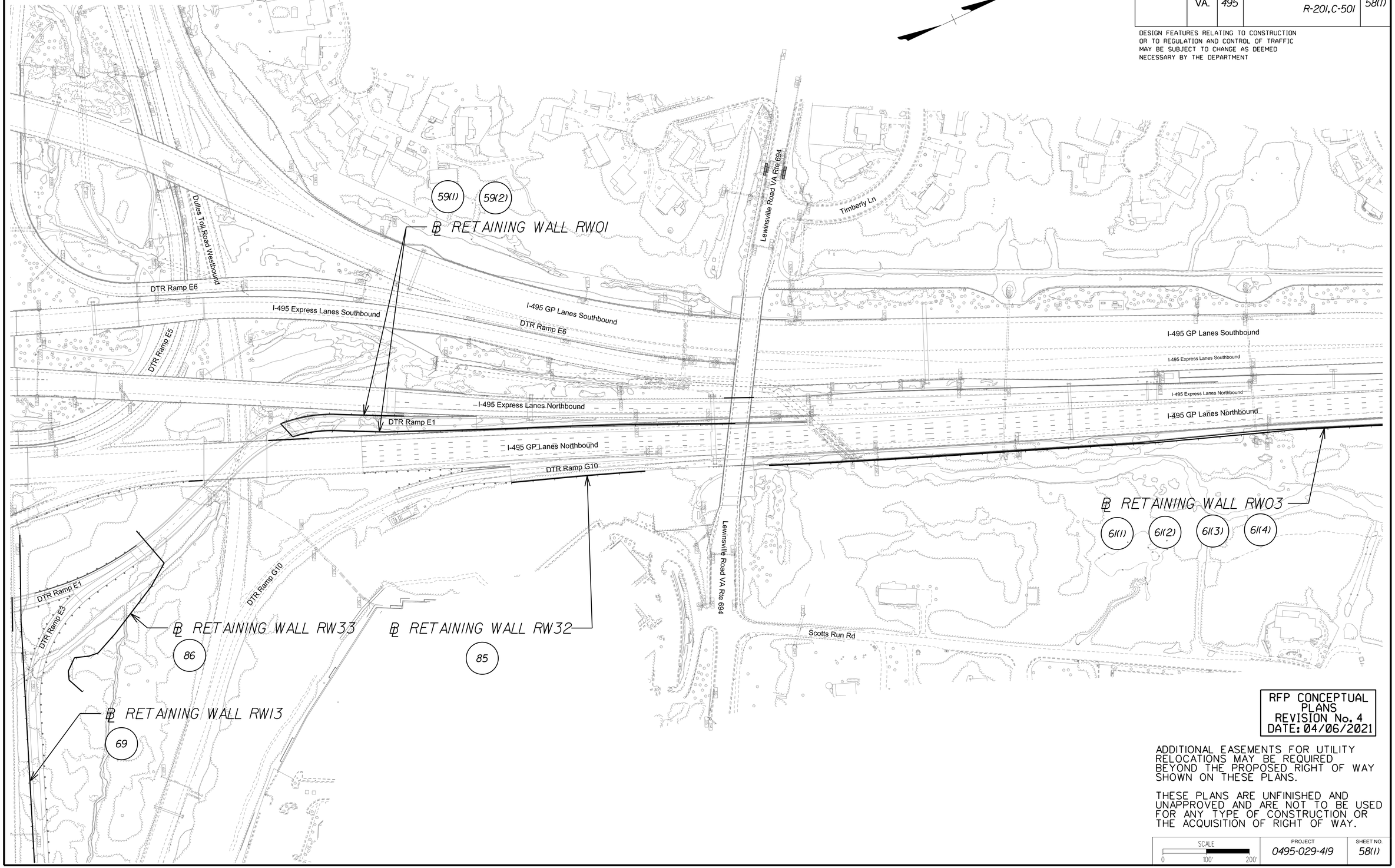
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	58(1)

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



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 100' 200'	0495-029-419	58(1)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	58(2)

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

℄ RETAINING WALL RW12
68

℄ RETAINING WALL RW02
60

℄ RETAINING WALL RW11
67

Old Dominion Drive

I-495 GP Lanes Southbound
I-495 Express Lanes Southbound
I-495 Express Lanes Northbound
I-495 GP Lanes Northbound

I-495 GP Lanes Southbound
I-495 Express Lanes Southbound
I-495 Express Lanes Northbound
I-495 GP Lanes Northbound

℄ RETAINING WALL RW03
61(1) 61(2) 61(3) 61(4)

℄ RETAINING WALL RW04
62(1)

VA Rte 738 Old Dominion Drive

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 100' 200'	0495-029-419	58(2)

Thursday, April 01, 2021 06:10:49 PM
6:10:49 PM

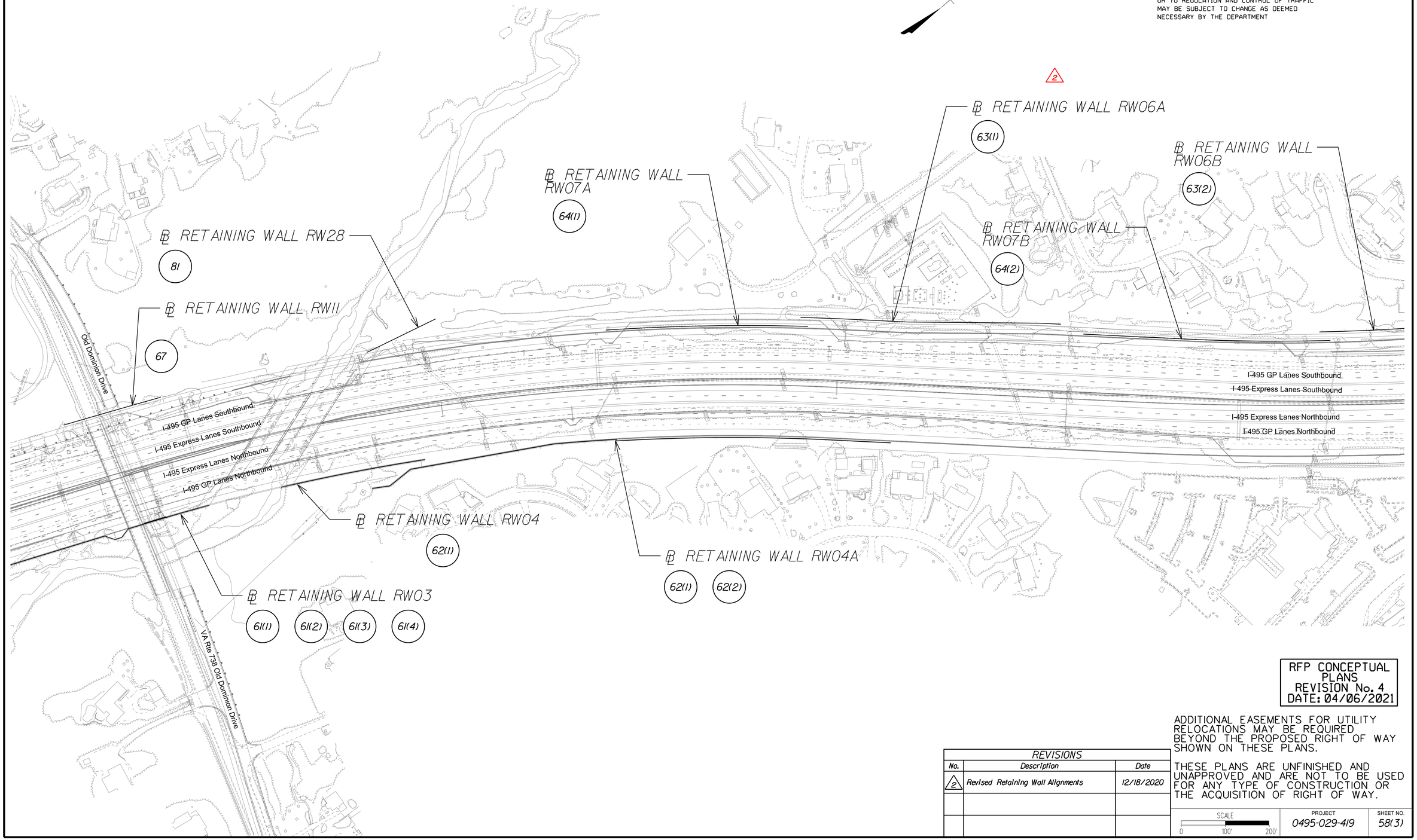
d:xxxxxxsht-58(03).dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	58(3)

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

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



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Revised Retaining Wall Alignments	12/18/2020

SCALE 0 100' 200'

PROJECT	SHEET NO.
0495-029-419	58(3)

d:xxxxxxsht-58(04).dgn
Plotted By: ETWRIGHT

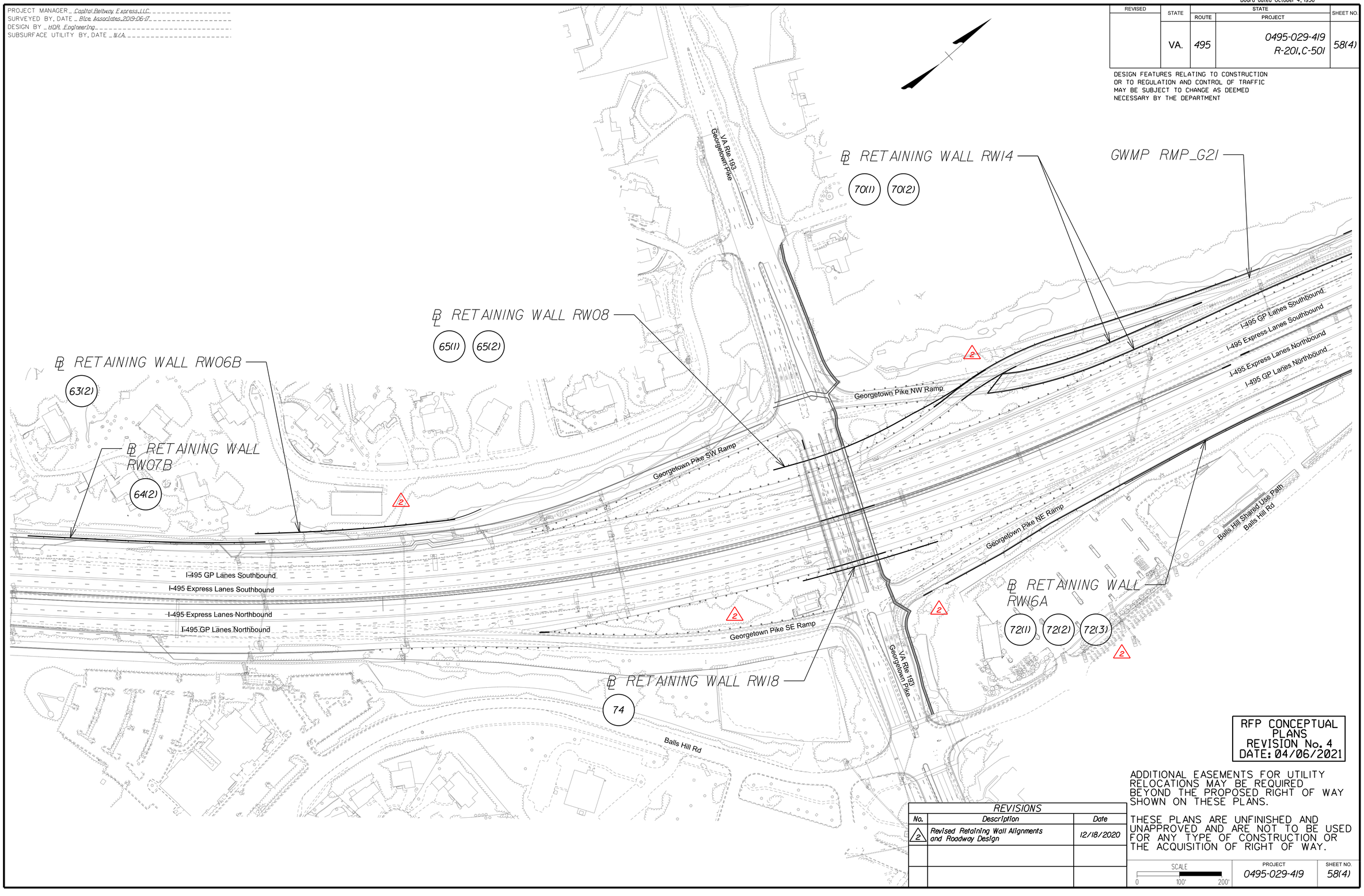
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	58(4)

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



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS

No.	Description	Date
2	Revised Retaining Wall Alignments and Roadway Design	12/18/2020

SCALE 0 100' 200'

PROJECT	SHEET NO.
0495-029-419	58(4)

Thursday, April 01, 2021 06:10:57 PM
6:10:57 PM

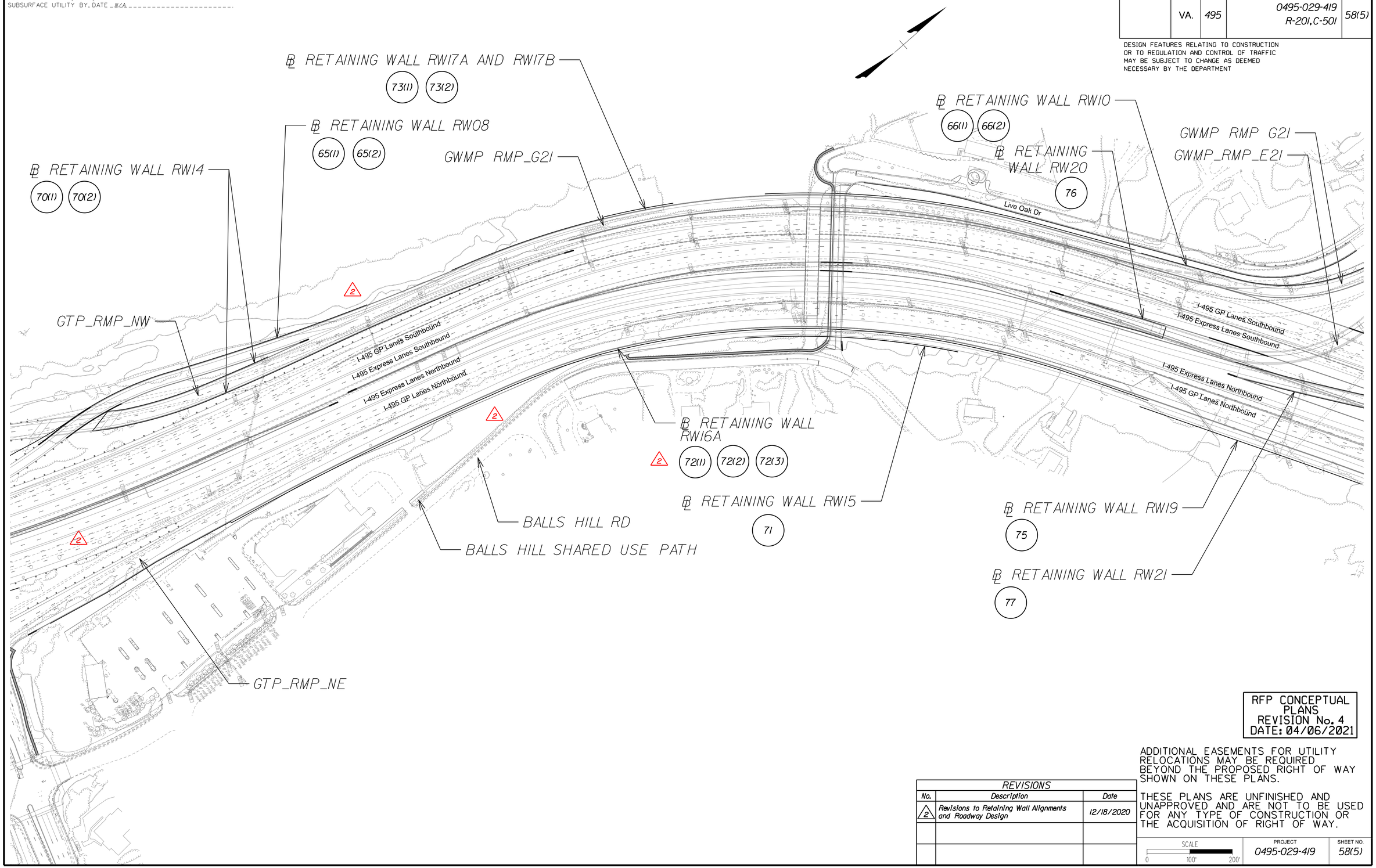
d:xxxxxxsht-58(05).dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	58(5)

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



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Revisions to Retaining Wall Alignments and Roadway Design	12/18/2020

SCALE: 0 100' 200'

PROJECT	SHEET NO.
0495-029-419	58(5)

Thursday, April 01, 2021 06:11:01 PM
6:11:01 PM

d:xxxxxxsht-58(06).dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	58(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 _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

℄ RETAINING WALL RW23 (78)
℄ RETAINING WALL RW20 (76)
℄ RETAINING WALL RW10 (66(1)) (66(2))
℄ RETAINING WALL RW25 (79)
GWMP RMP_E21
℄ RETAINING WALL RW19 (75)
℄ RETAINING WALL RW21 (77)
℄ RETAINING WALL RW16B (72(4)) 2
BALLS HILL SHARED USE PATH
℄ RETAINING WALL RW26 (80)
GWMP_RMP_G23
GWMP_RMP_E22
℄ RETAINING WALL RW34 (87)
℄ RETAINING WALL RW16C (72(4)) 2

Live Oak Dr
I-495 Express Lanes Southbound
I-495 Express Lanes Northbound
I-495 GP Lanes Northbound
George Washington Memorial Parkway Eastbound
George Washington Memorial Parkway Westbound
Green Oak Dr
George Washington Memorial Parkway Loop Ramp
I-495 GP Lanes Southbound
Live Oak Dr
Live Oak Dr
I-495 GP Lanes Southbound
I-495 GP Lanes Northbound
GWMP NE Ramp

REVISIONS		
No.	Description	Date
2	Revised Retaining Wall Alignments	12/18/2020

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE: 0 100' 200'	PROJECT	SHEET NO.
	0495-029-419	58(6)

Thursday, April 01, 2021 06:11:05 PM
6:11:05 PM

d:\xxxxxx\sht-58(07).dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	58(7)

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

℄ RETAINING WALL RW29
82

℄ RETAINING WALL RW30 AND RW30A
83(1) 83(2)

℄ RETAINING WALL RW13
69

84
℄ RETAINING WALL RW31

℄ RETAINING WALL RW33
86

℄ RETAINING WALL RW01
59(1) 59(2)

Dulles Toll Road Eastbound
Dulles International Airport Access Highway Eastbound
Dulles International Airport Access Highway Westbound
DTR Ramp E3
Dulles Toll Road Westbound
DTR Ramp G10
DTR Ramp E1
DTR Ramp G3
I-495 GP LANES NORTHBOUND
I-495 GP Lanes Northbound
I-495 Express Lanes Northbound
495 Express Lanes Northbound
495 Express Lanes Southbound
I-495 Express Lanes Southbound
DTR Ramp E5
DTR Ramp E6
I-495 GP Lanes Southbound

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

SCALE	PROJECT	SHEET NO.
0 100' 200'	0495-029-419	58(7)

dxxxxxxsht-5901(1).dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

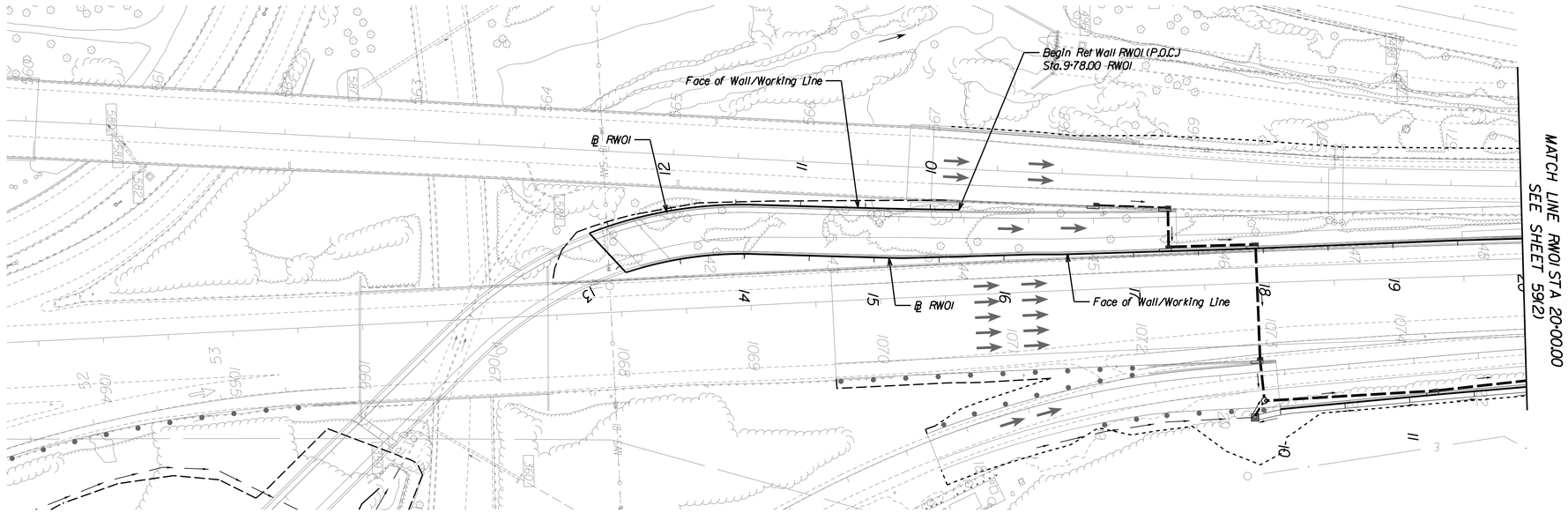
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

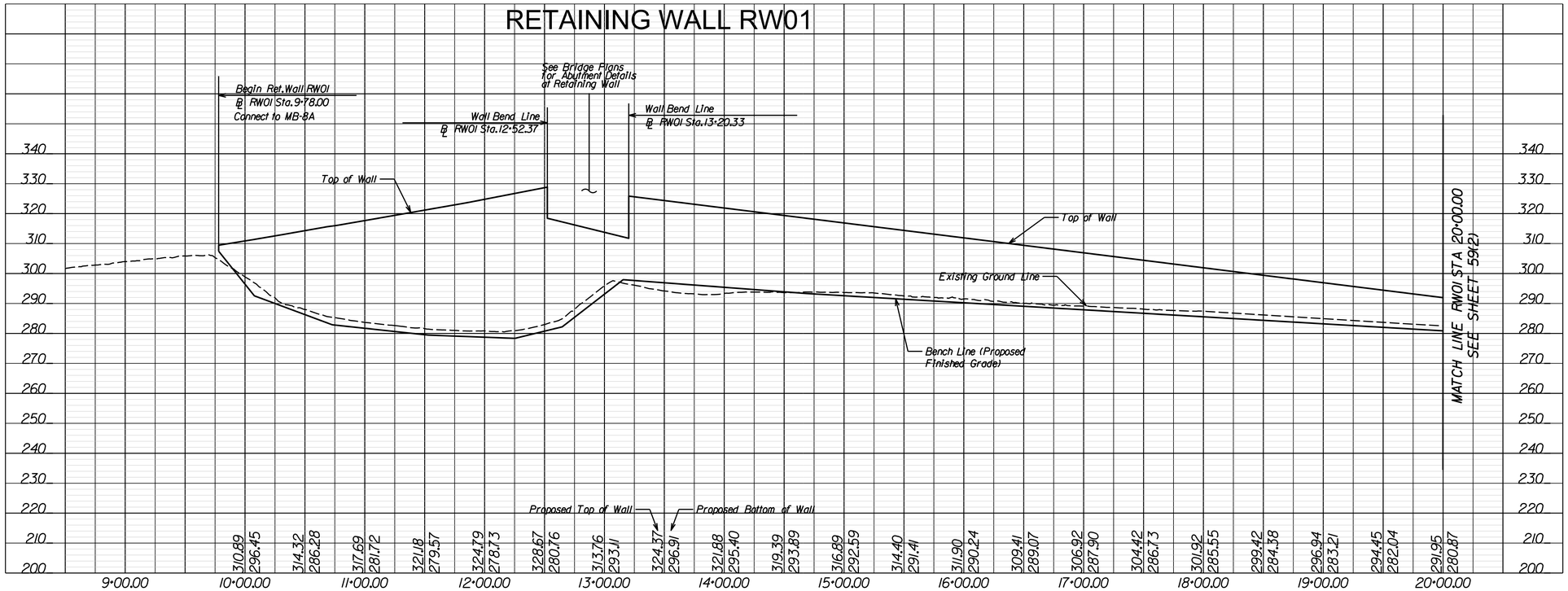
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	59(1)

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



RETAINING WALL RW01



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	59(1)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

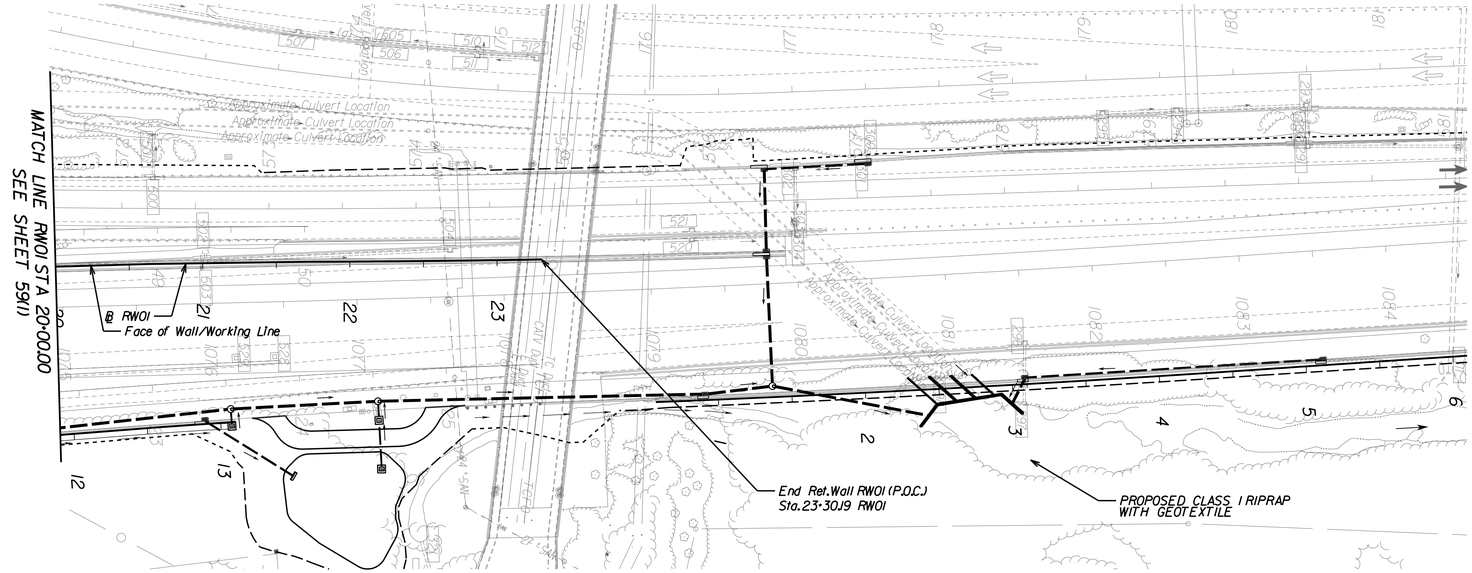
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

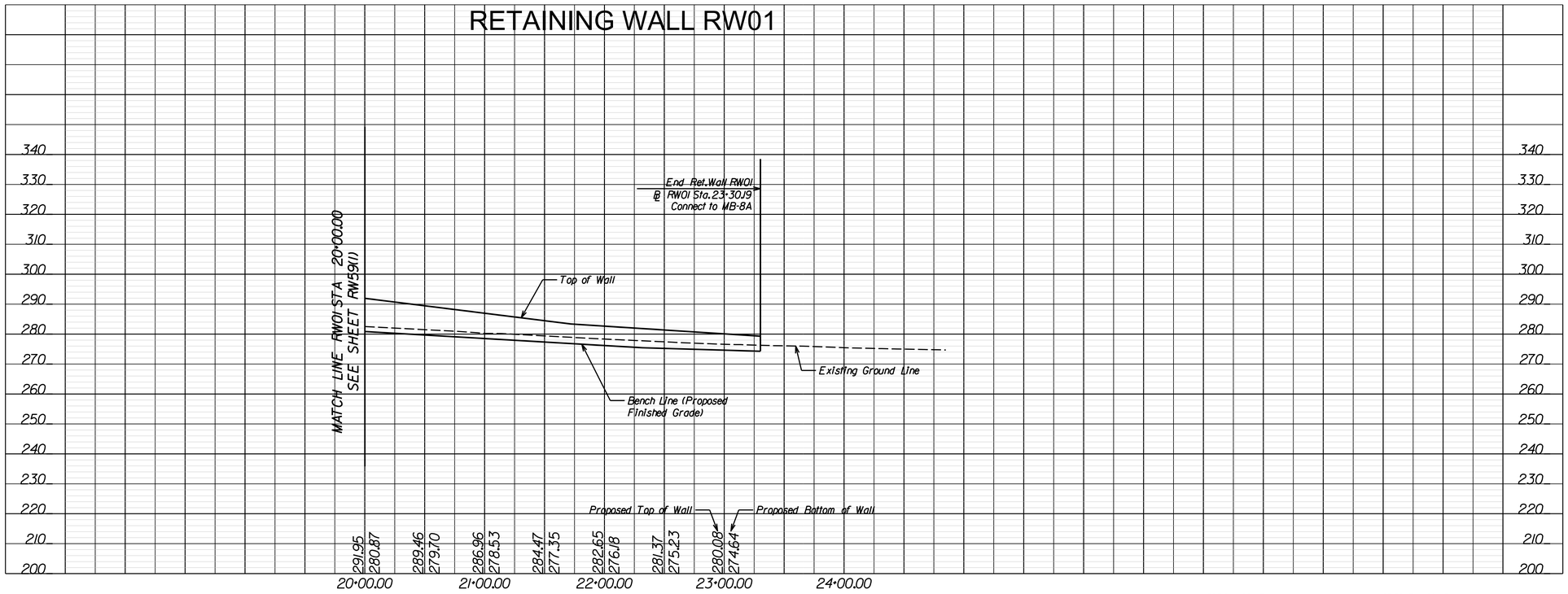
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	59(2)

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





VERTICAL SCALE
0 20' 40'

HORIZONTAL SCALE
0 50' 100'

PROJECT	SHEET NO.
0495-029-419	59(2)

Thursday, April 01, 2021 06:11:30 PM
6:11:30 PM

dxxxxxxsht-60.dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

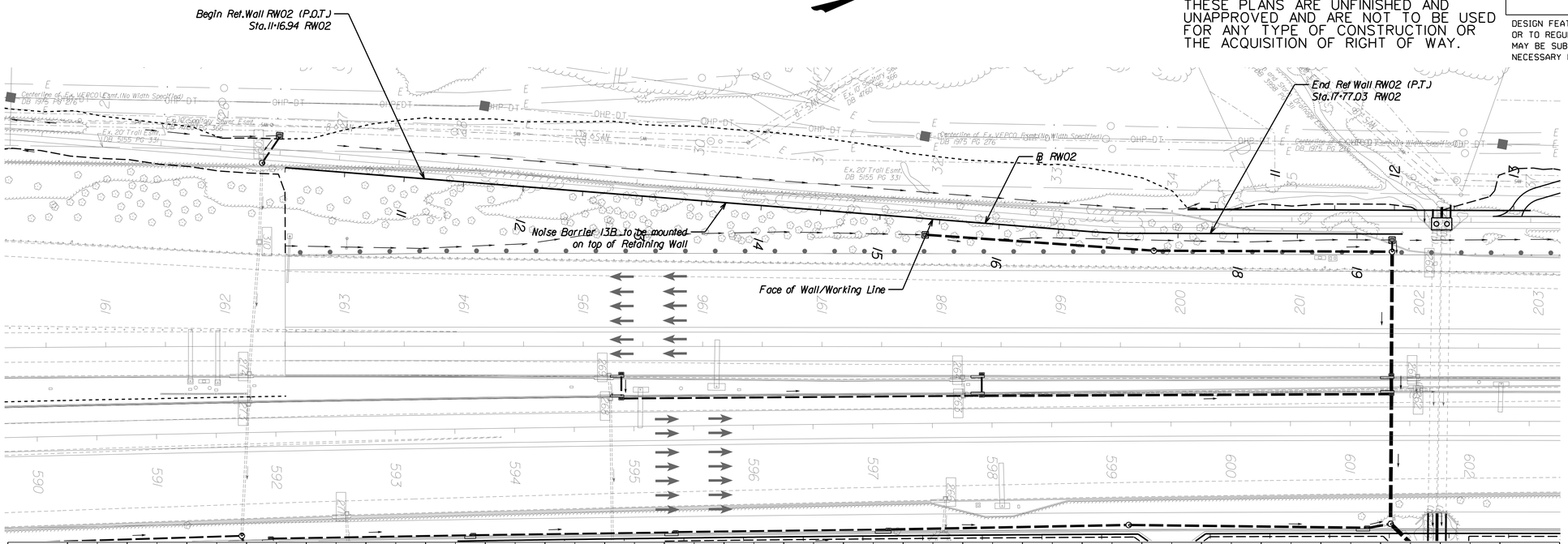
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

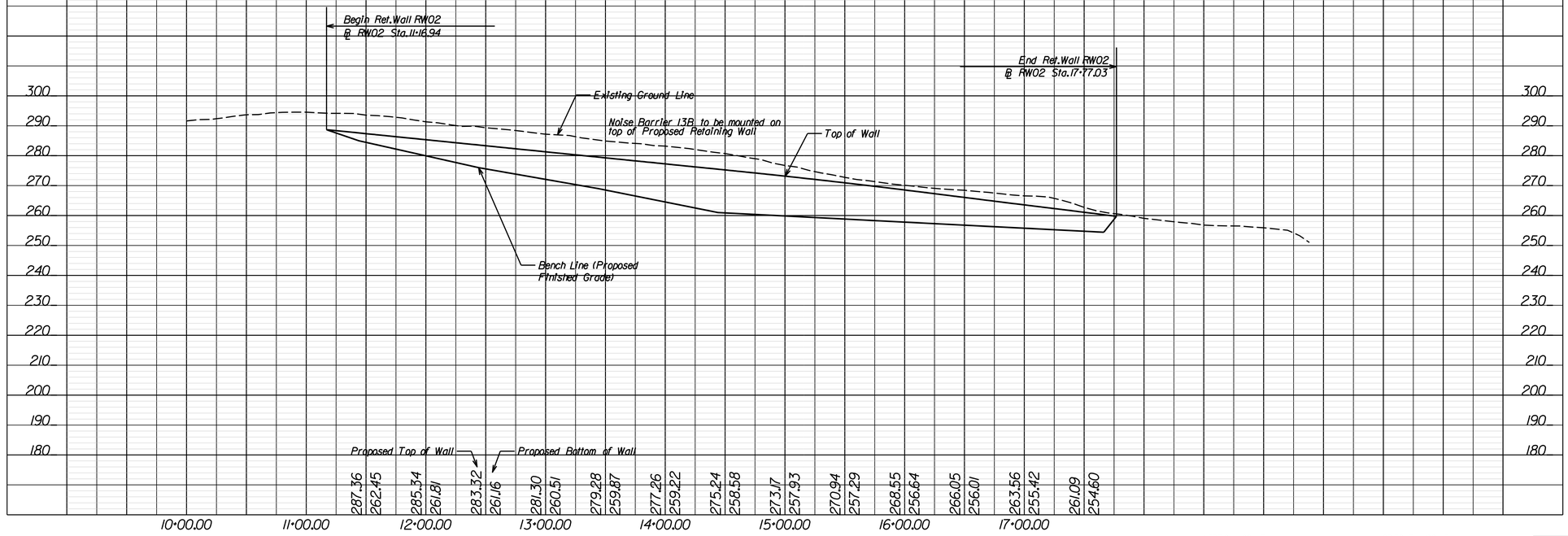
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	60

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



RETAINING WALL RW02



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	60

LIMITED ACCESS HIGHWAY

By Resolution
Board dated

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

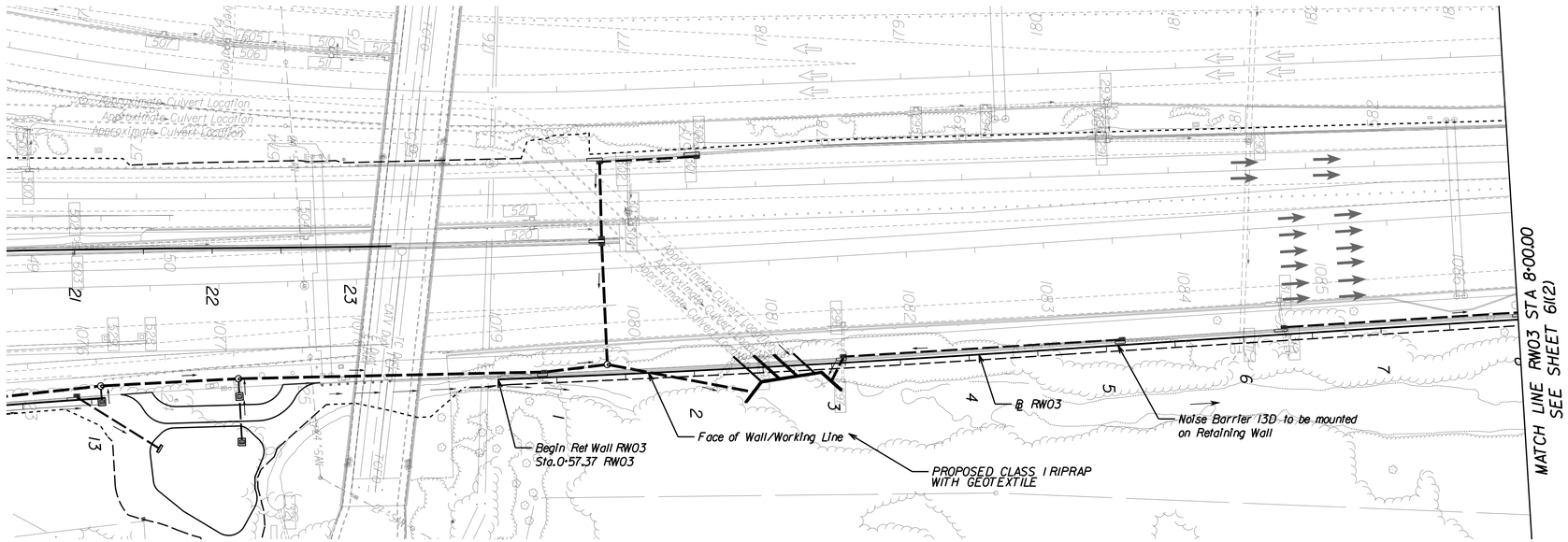
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

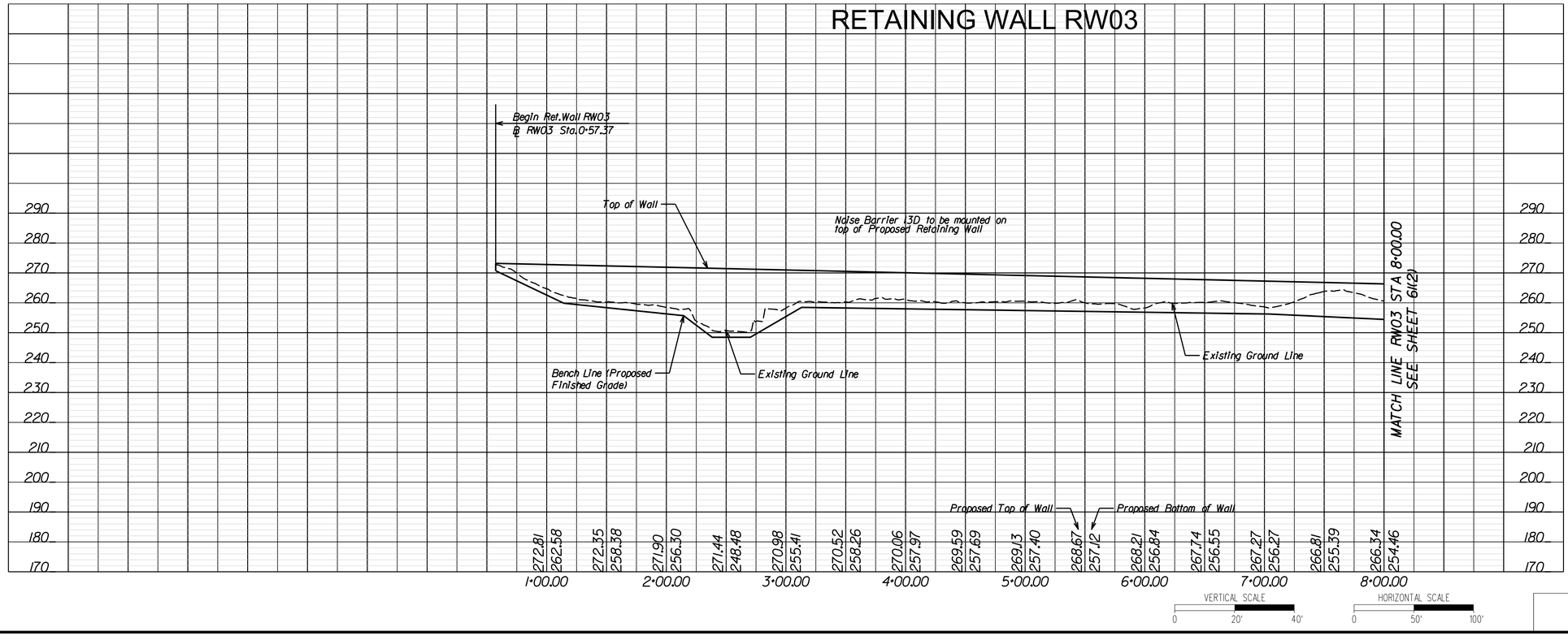
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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 PROJ
	VA.	495	04

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





PROJ
0495-0

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISIONS		
No.	Description	Date
3	Revised Retaining Wall RW03	03/09/2021

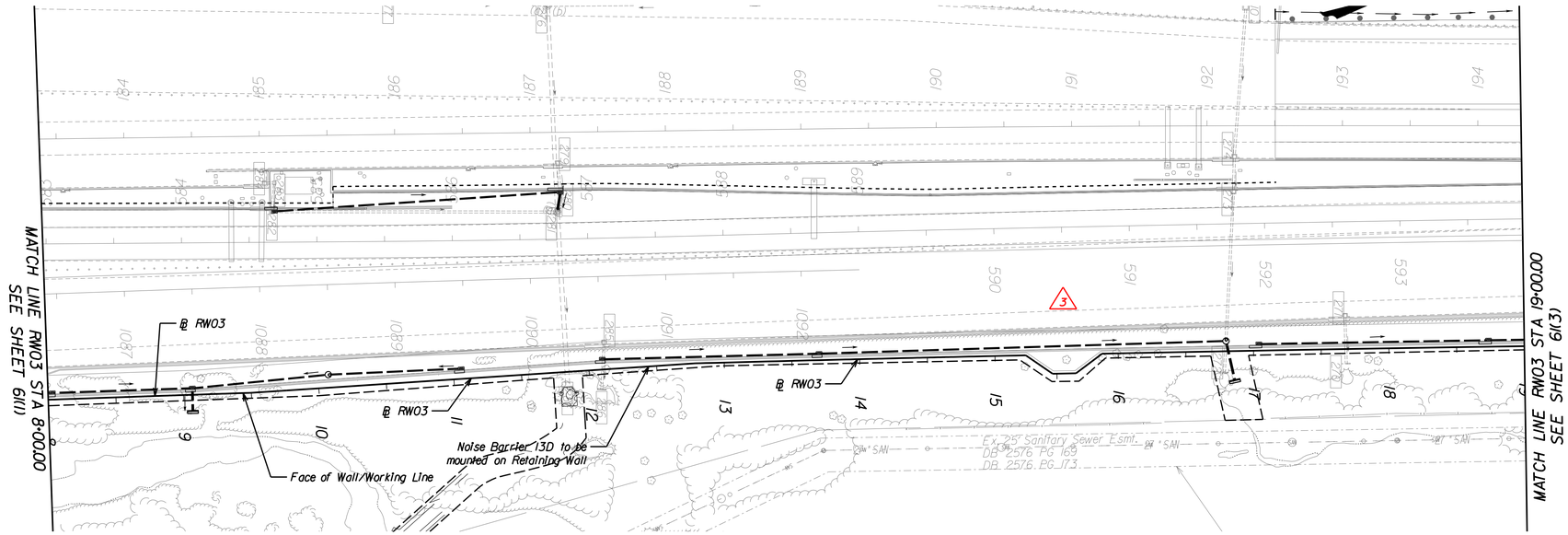
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

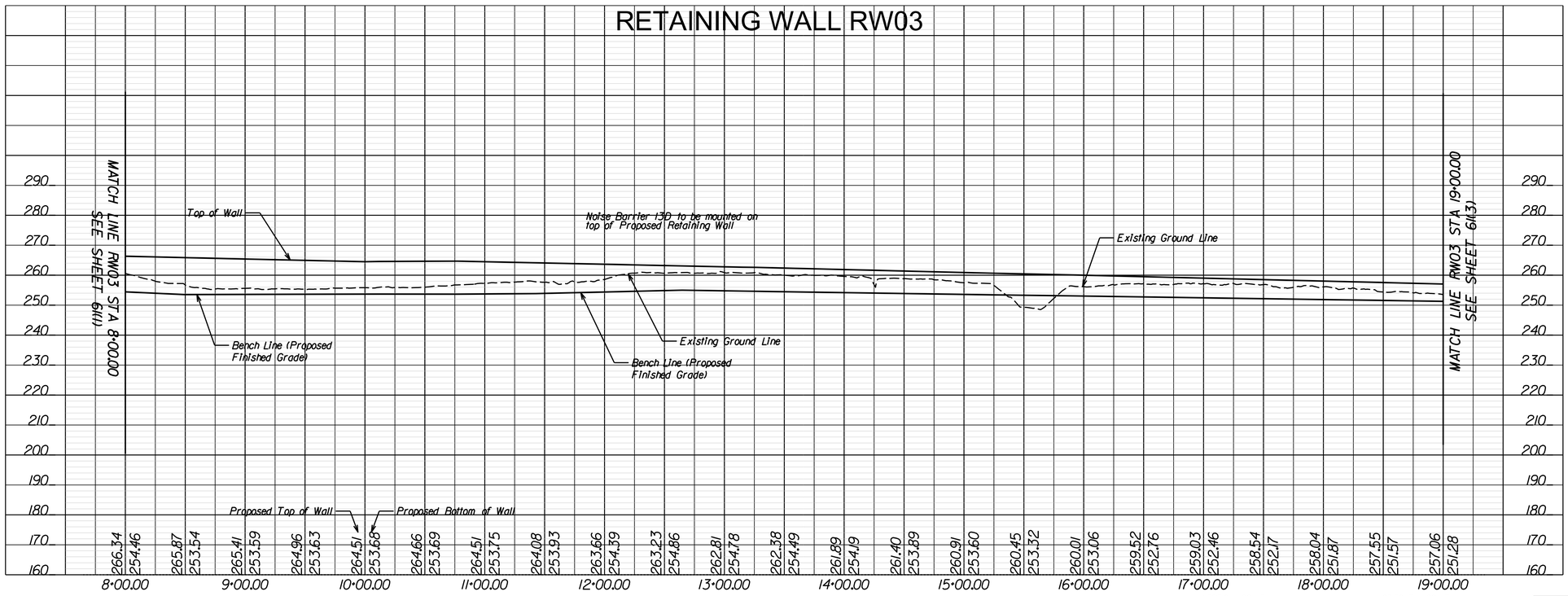
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT
	VA.	495	0495-029-419, R-201, C-501

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



RETAINING WALL RW03



PROJECT
0495-029-419

Thursday, April 01, 2021 06:12:15 PM
6:12:15 PM

dxxxxxxsht-6(03).dgn
Plotted By: ETWRIGHT

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISIONS		
No.	Description	Date
3	Revised Retaining Wall RW03	03/09/2021

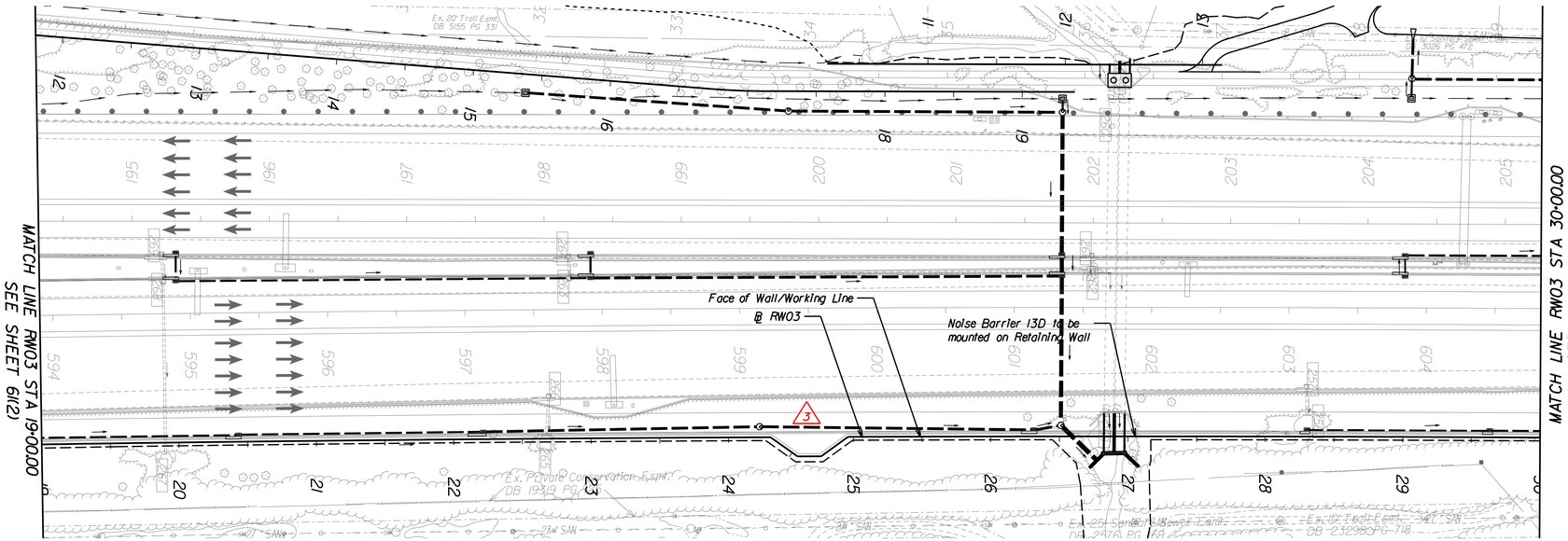
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

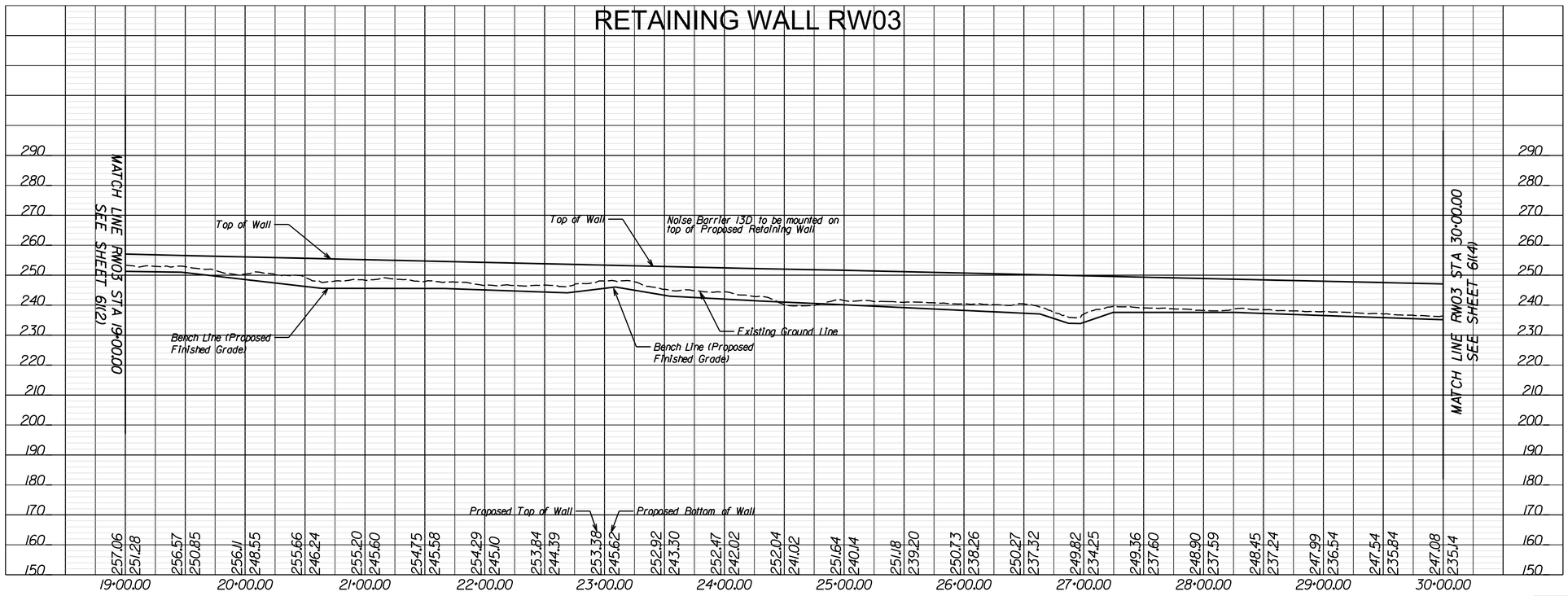
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE	
		ROUTE	PROJECT
	VA.	495	0495-029-419, R-201, C-501

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



RETAINING WALL RW03



PROJECT
0495-029-419

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISIONS		
No.	Description	Date
3	Revised Retaining Wall RW03	03/09/2021

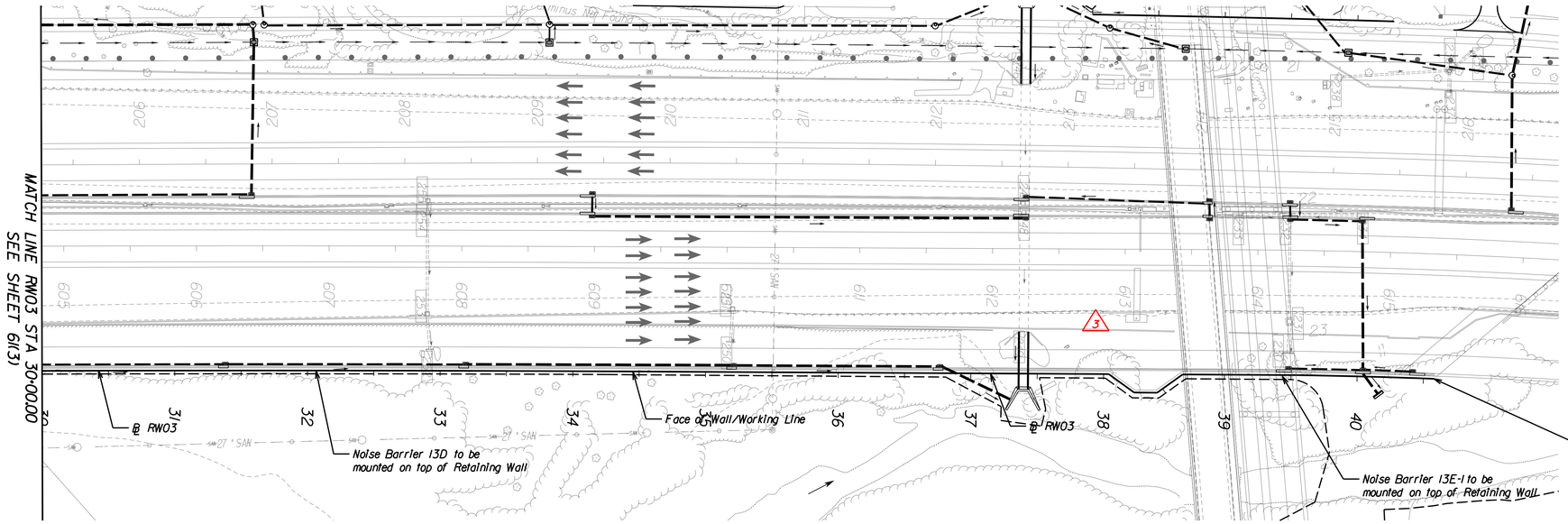
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

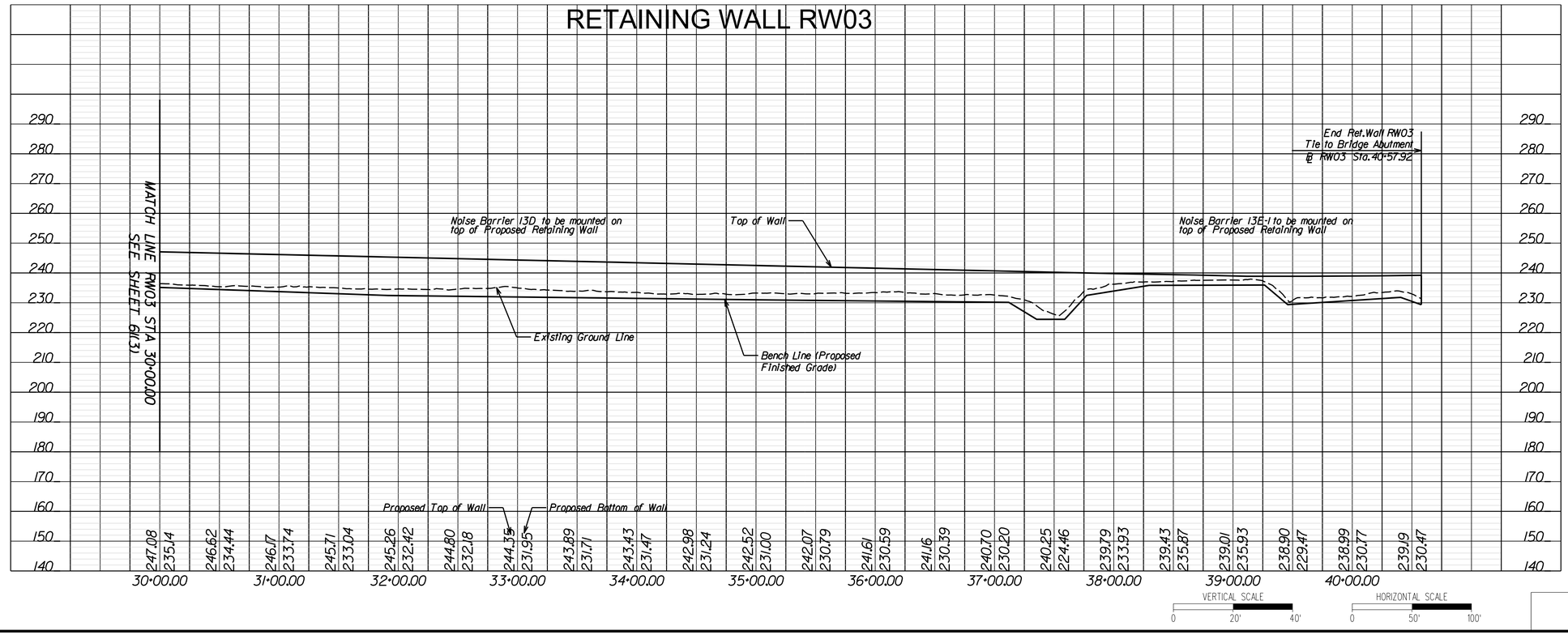
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	6(4)

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



RETAINING WALL RW03



PROJECT	SHEET NO.
0495-029-419	6(4)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

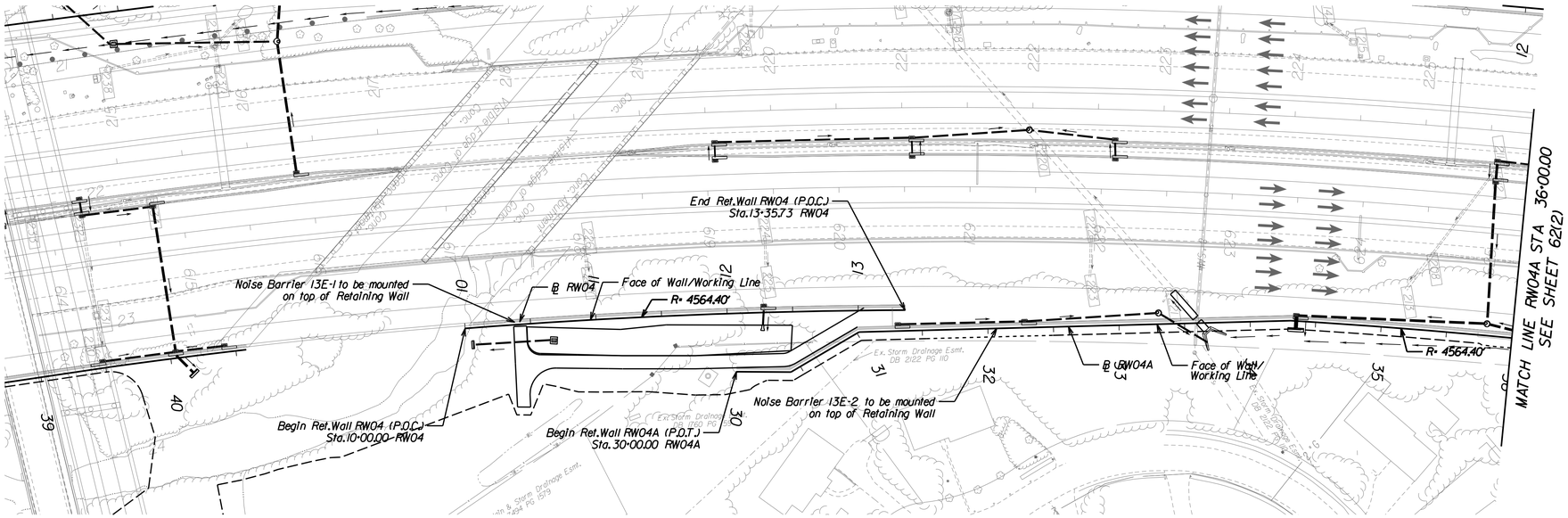
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

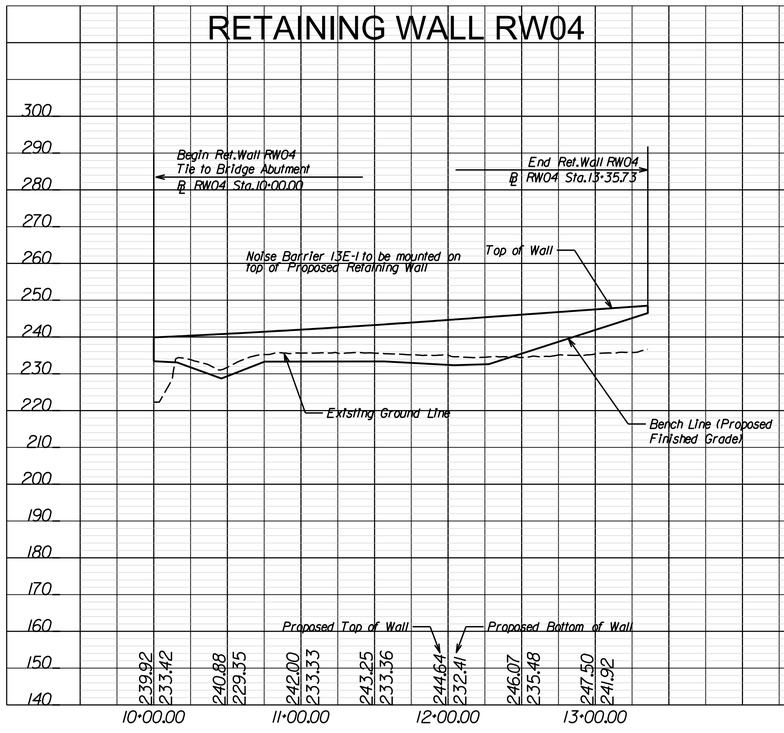
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	62(1)

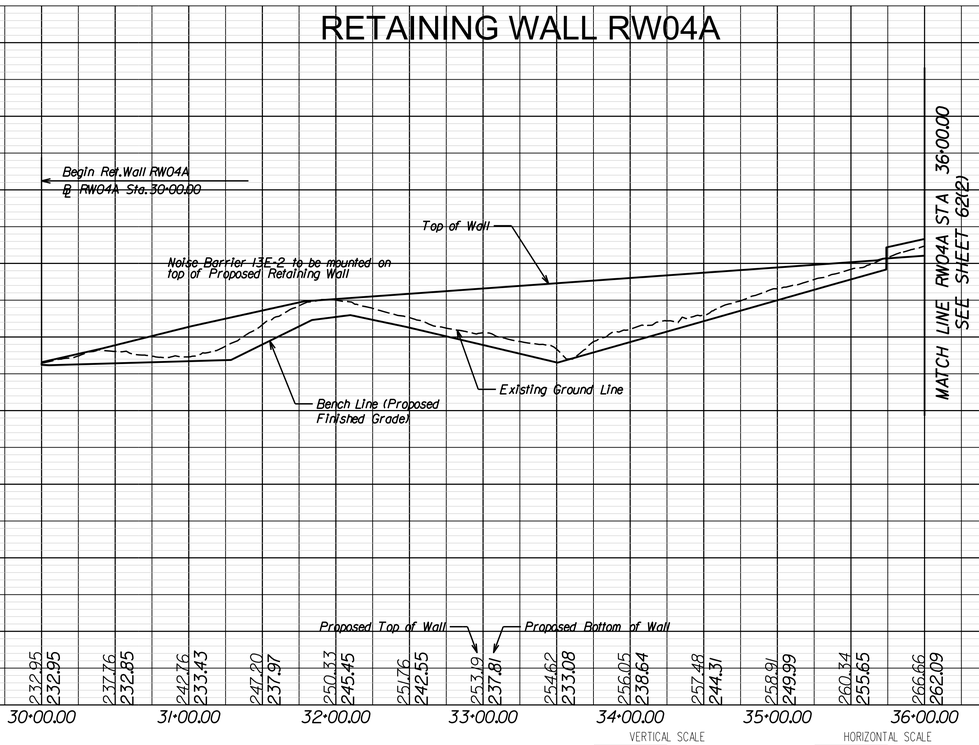
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



RETAINING WALL RW04



RETAINING WALL RW04A



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	62(1)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

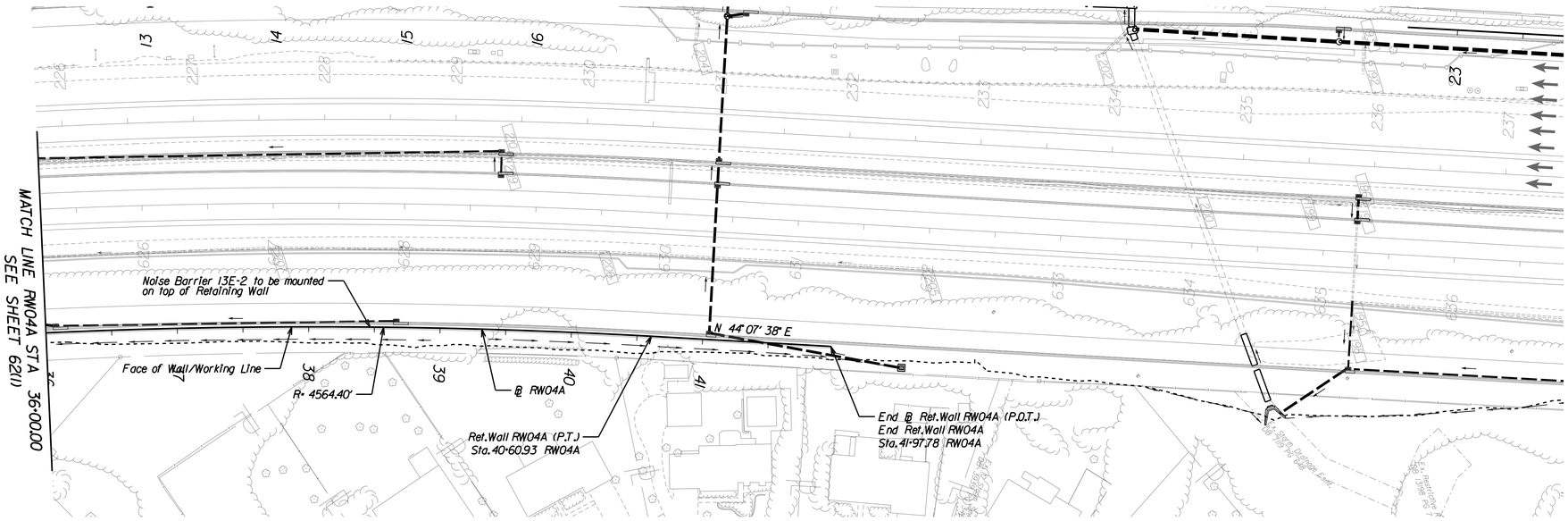
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

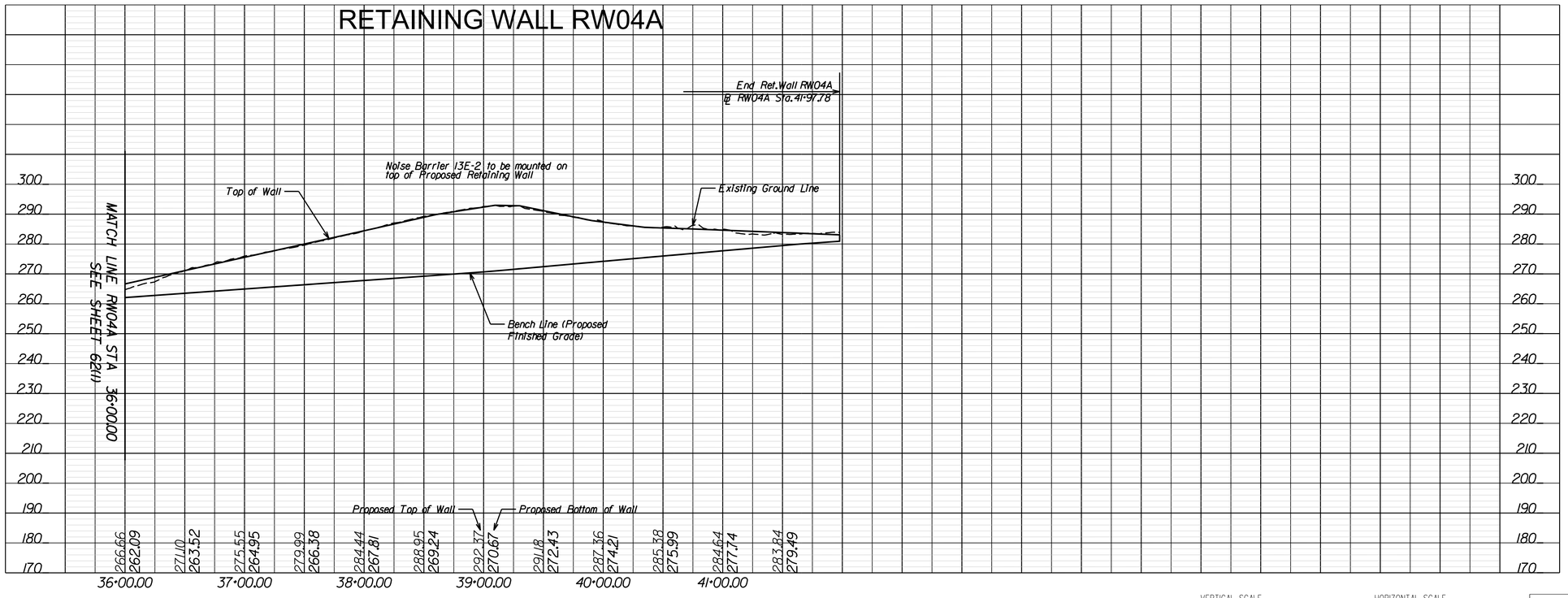
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	62(2)

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



RETAINING WALL RW04A



VERTICAL SCALE
0 20' 40'

HORIZONTAL SCALE
0 50' 100'

PROJECT	SHEET NO.
0495-029-419	62(2)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

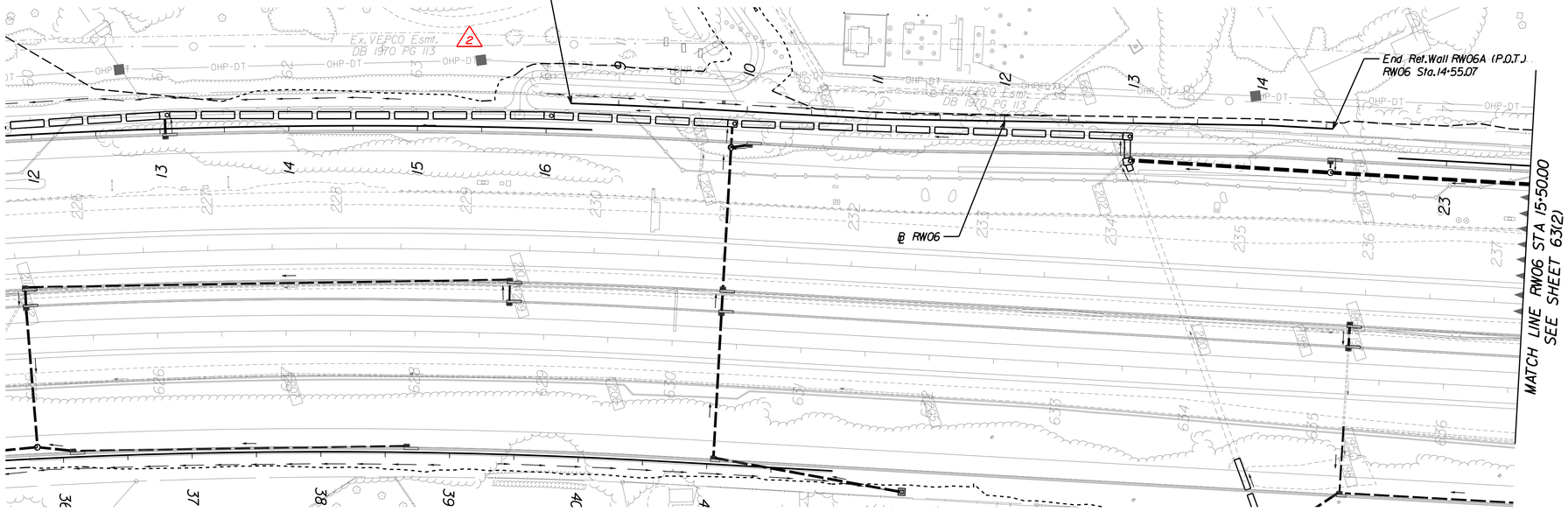
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	63(1)

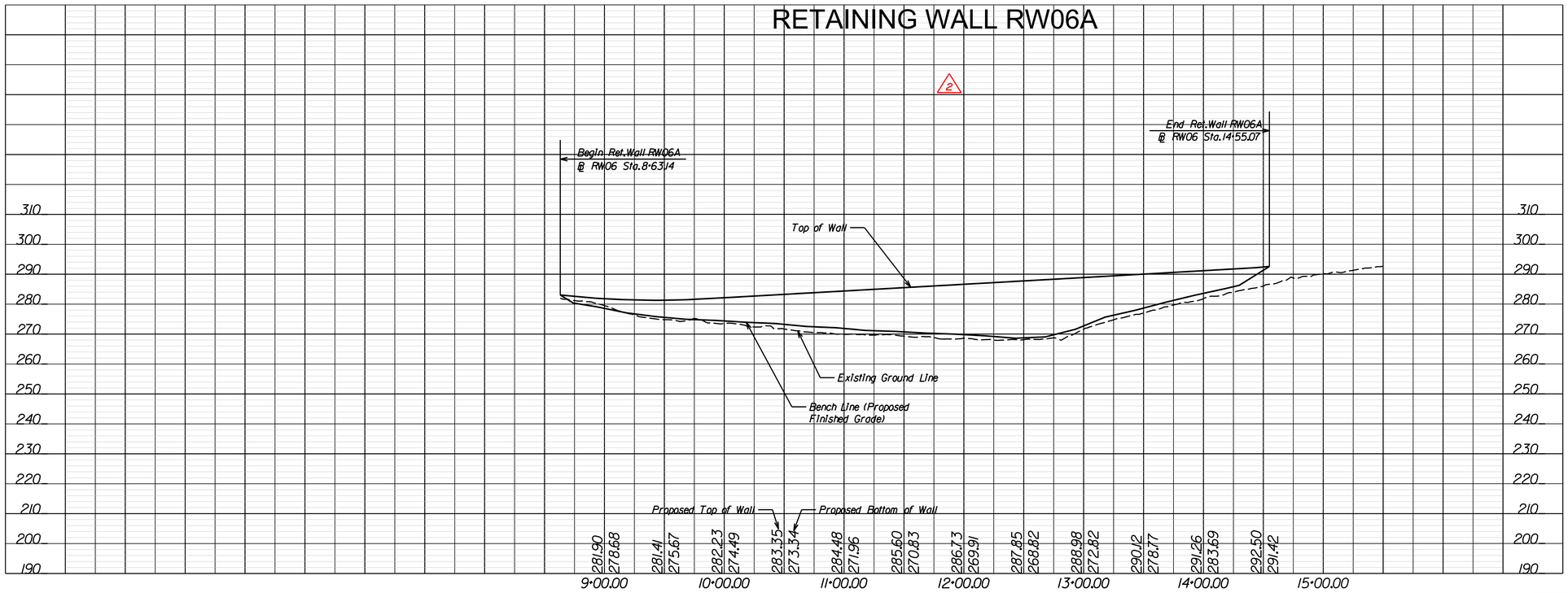
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISIONS

No.	Description	Date
2	Revised Retaining Wall Alignment and Profile	12/18/2020



RETAINING WALL RW06A



PROJECT	SHEET NO.
0495-029-419	63(1)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

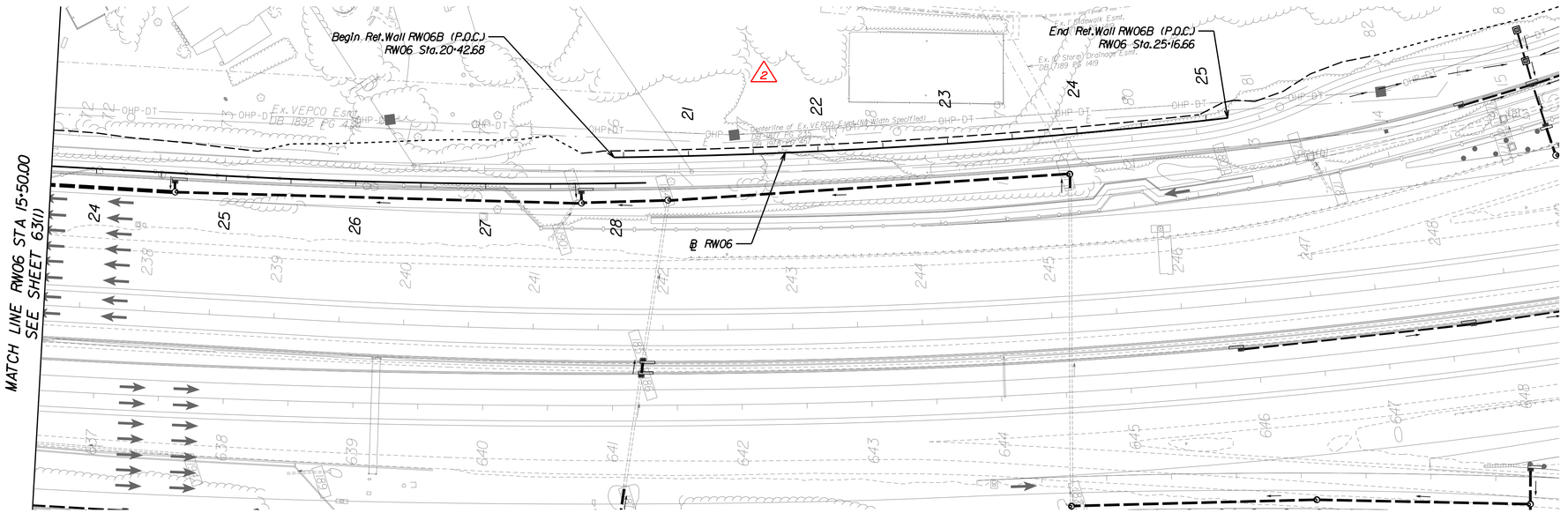
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

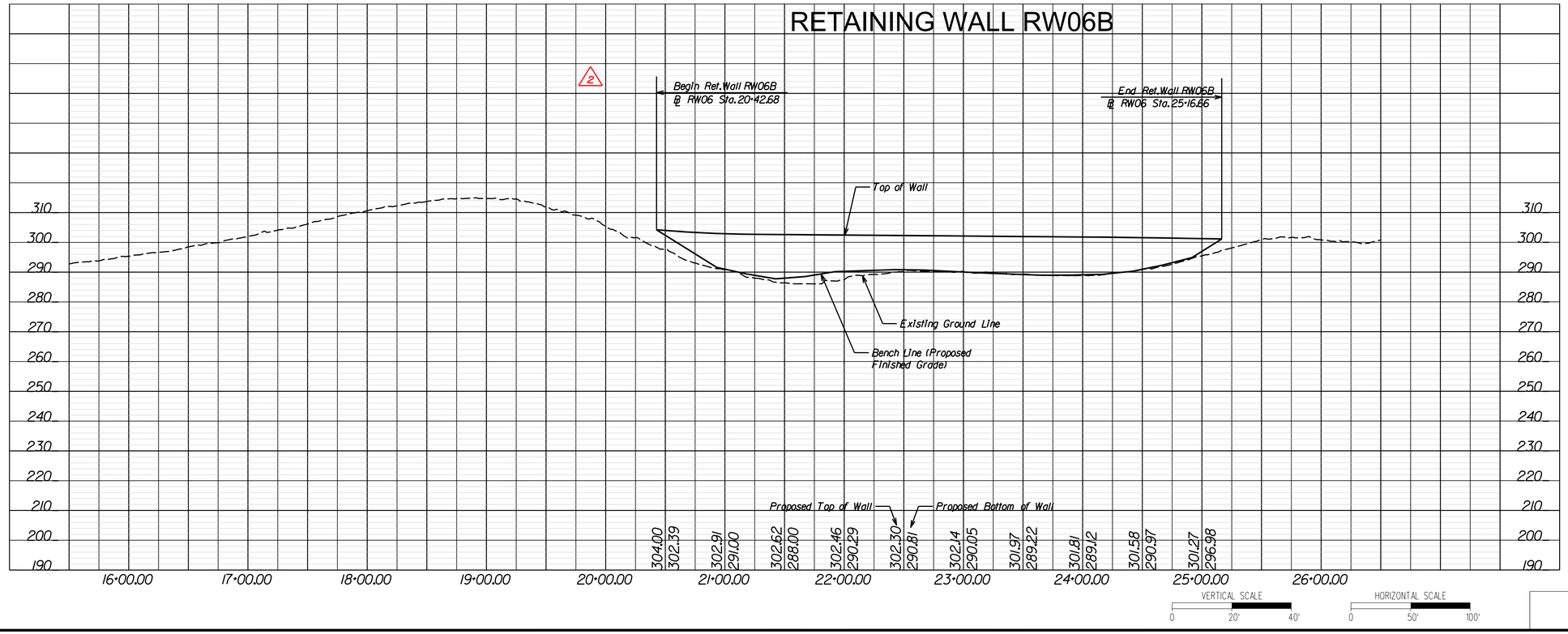
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	63(2)

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

REVISIONS		
No.	Description	Date
2	Revised Retaining Wall Alignment, Profile, and Roadway Design	12/18/2020



RETAINING WALL RW06B



PROJECT	SHEET NO.
0495-029-419	63(2)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

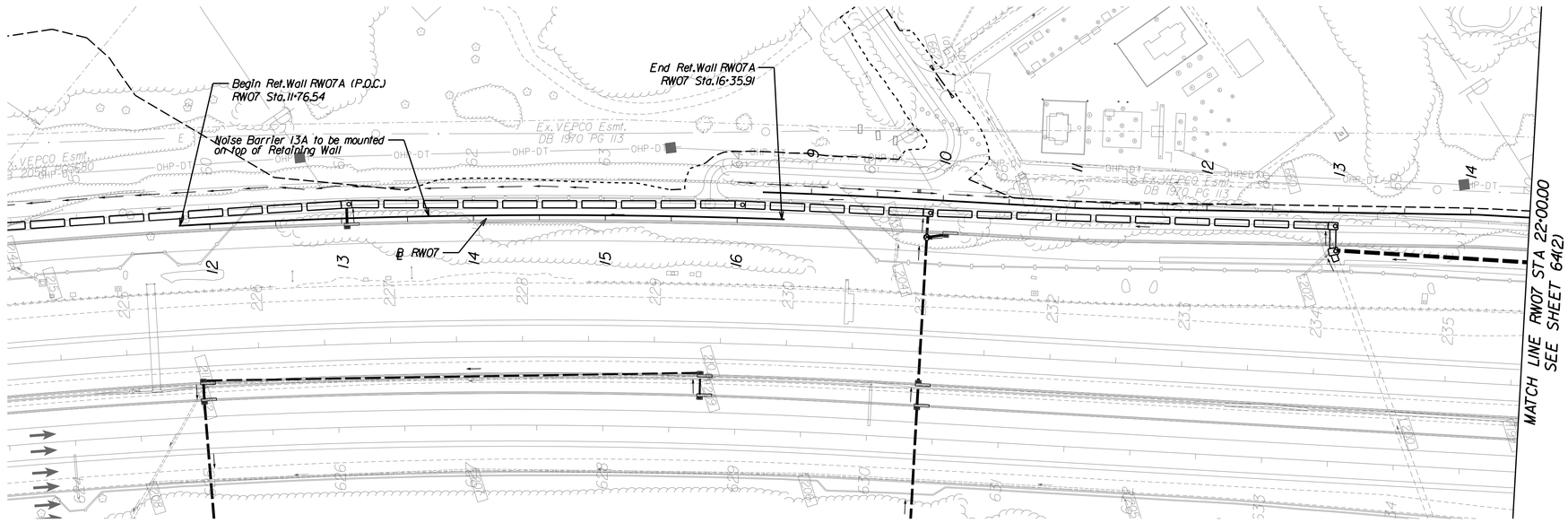
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

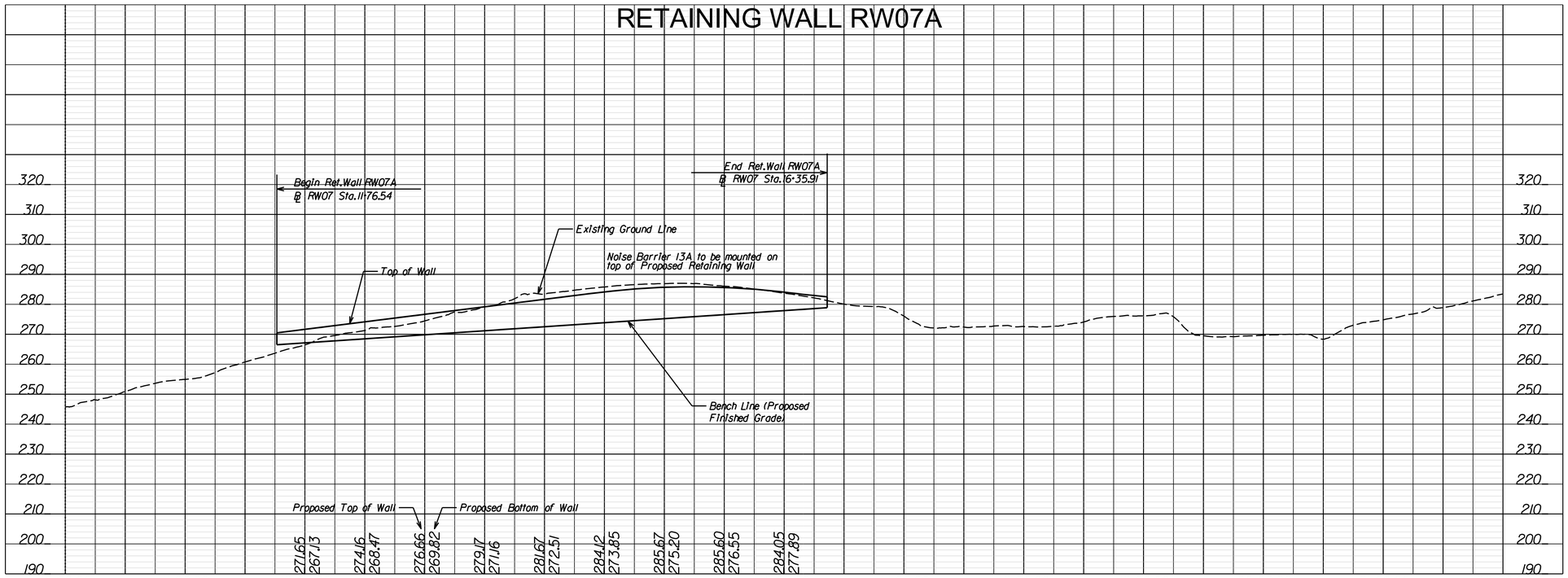
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	ROUTE	PROJECT	SHEET
	VA.	495	0495-029-419 R-201, C-501	64

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



RETAINING WALL RW07A



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET
0495-029-419	640

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transpo
Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

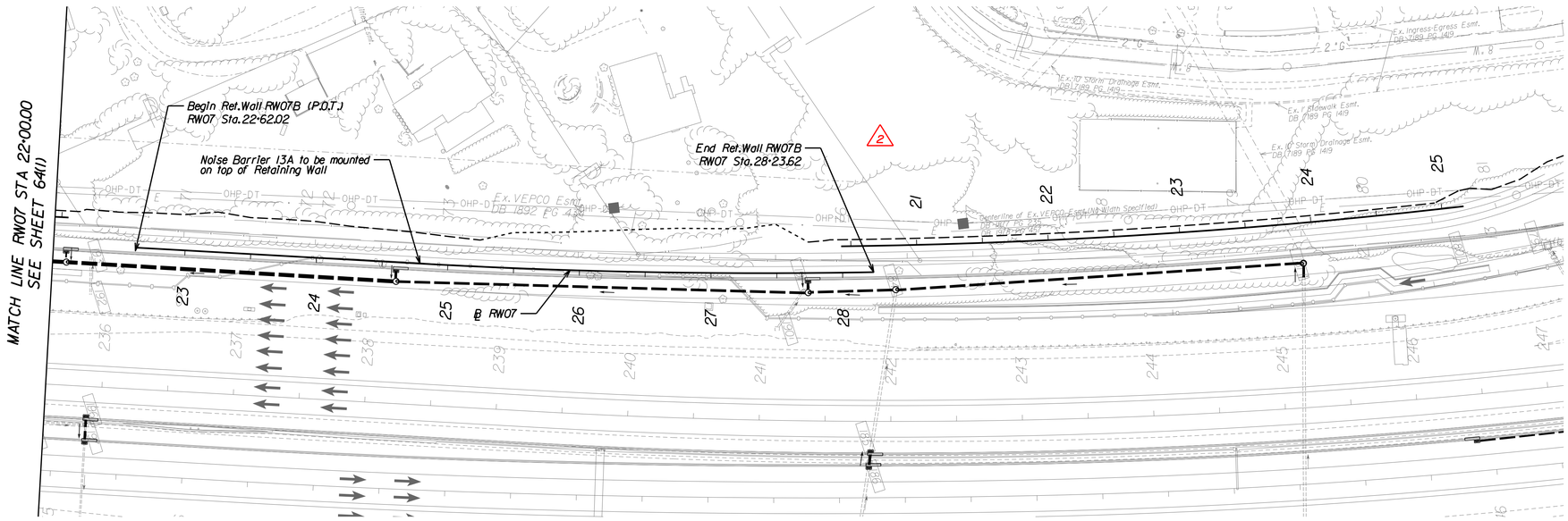
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

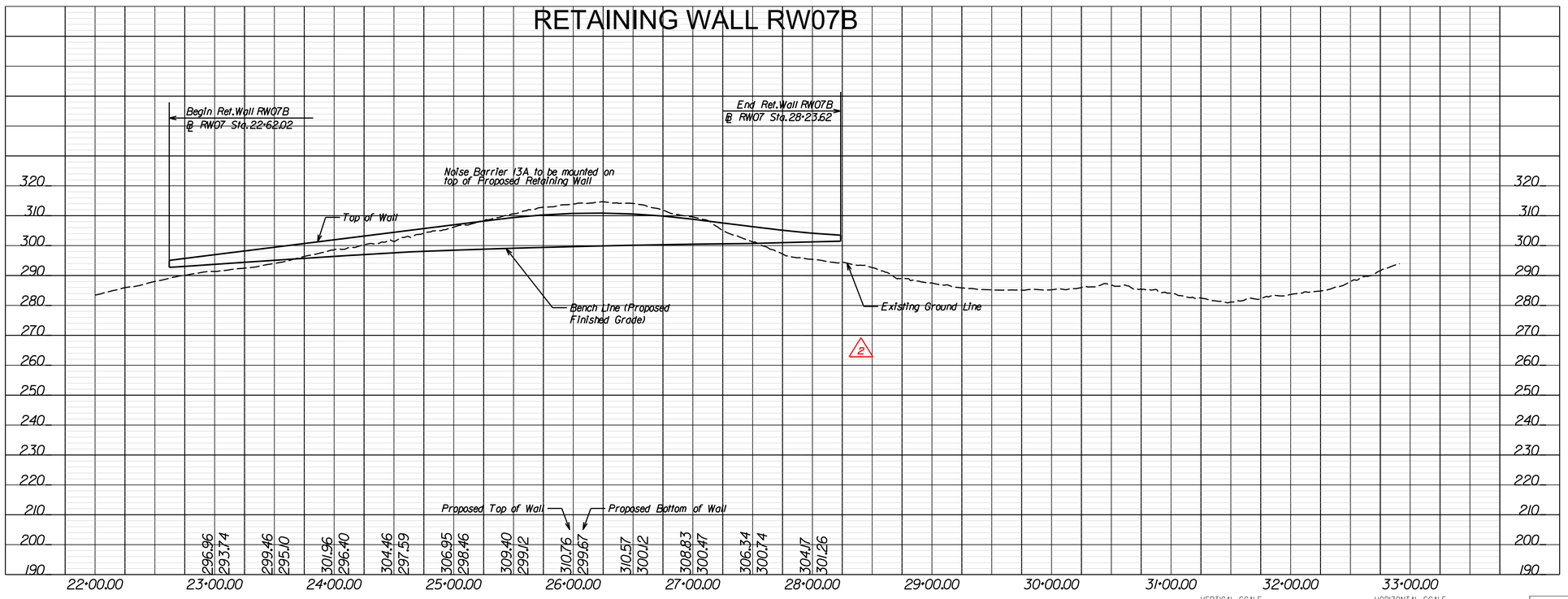
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEE
	VA.	495	0495-029-419 R-201, C-501	64

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

REVISIONS		
No.	Description	Date
2	Revised Retaining Wall Alignment, Profile, and Roadway Design	12/18/20



RETAINING WALL RW07B



VERTICAL SCALE 0 20' 40'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET
0495-029-419	64(2

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transp Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Bloc Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

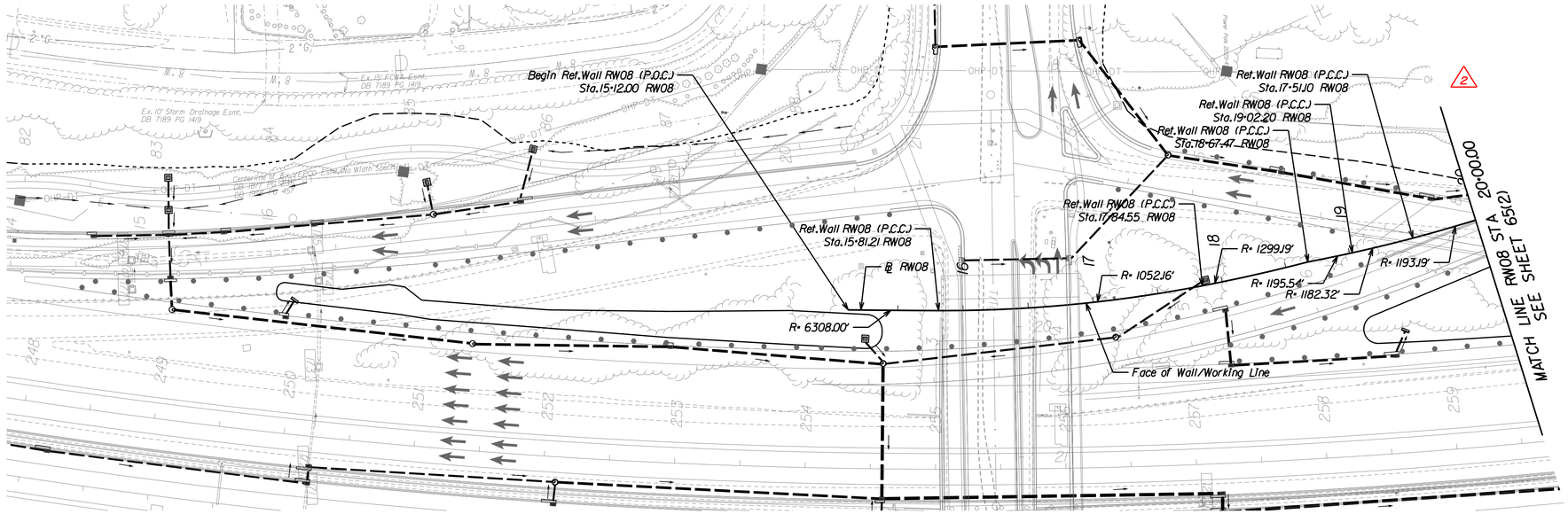
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHE
	VA.	495	0495-029-419 R-201,C-501	6

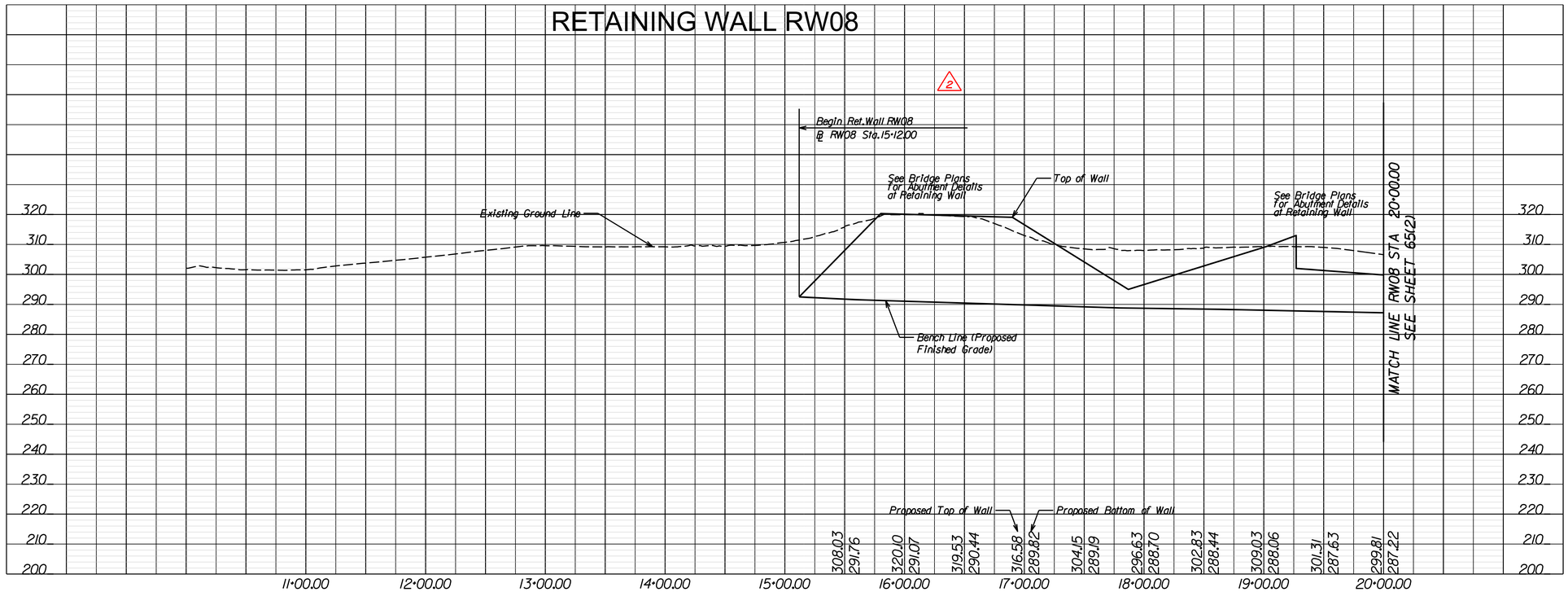
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISIONS

No.	Description	Date
2	Revised Retaining Wall Alignment, Profile, and Roadway Design	12/18/2



RETAINING WALL RW08



PROJECT	SHEE
0495-029-419	65

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

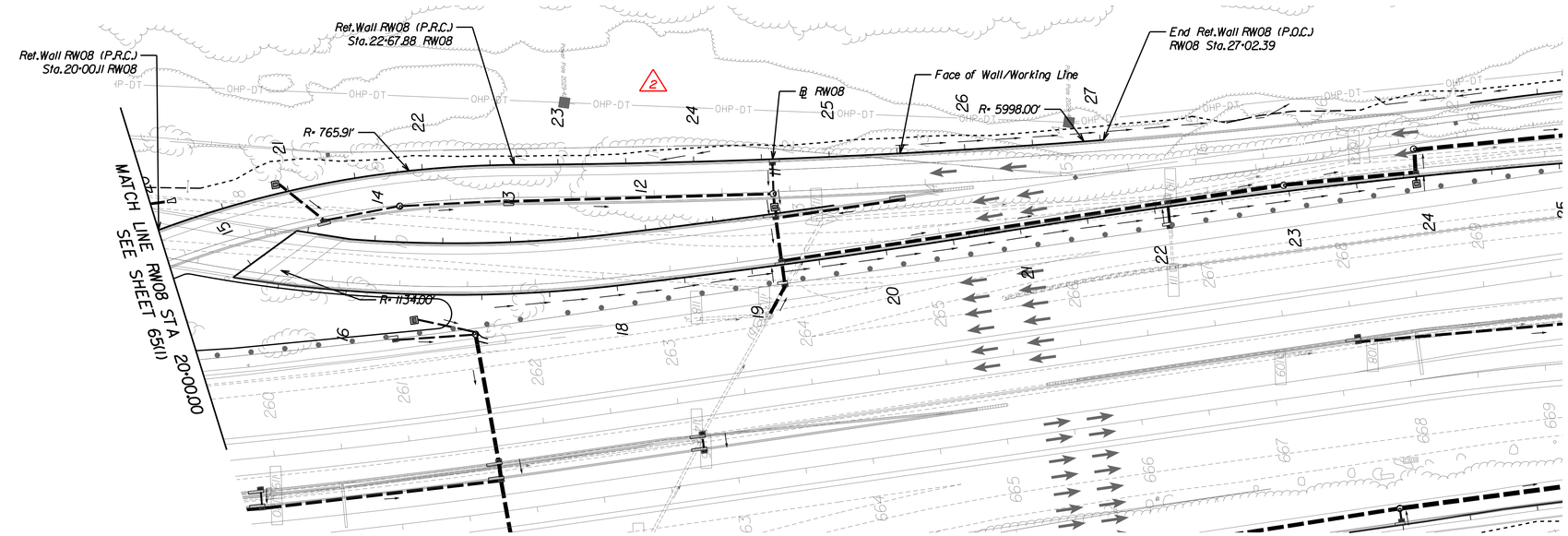
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

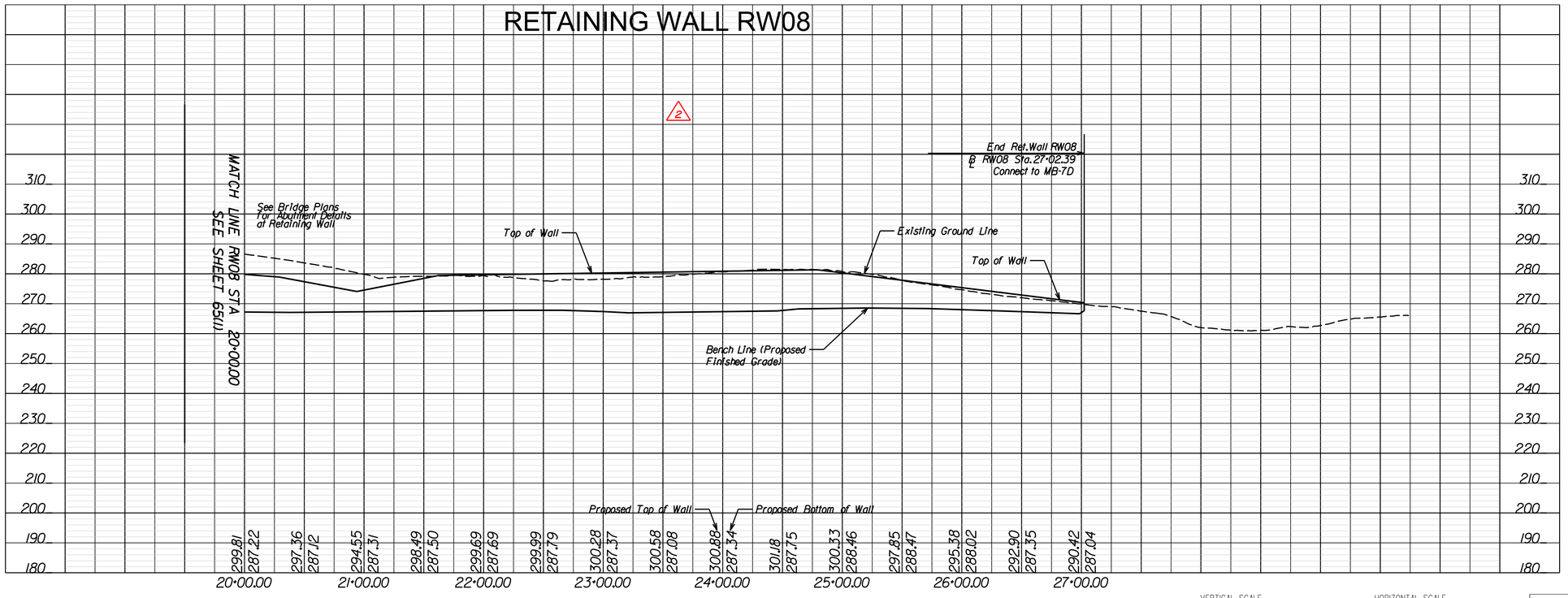
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	65(2)

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

REVISIONS		
No.	Description	Date
2	Revised Retaining Wall Alignment, Profile, and Roadway Design	12/18/2020



RETAINING WALL RW08



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	65(2)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	66(1)

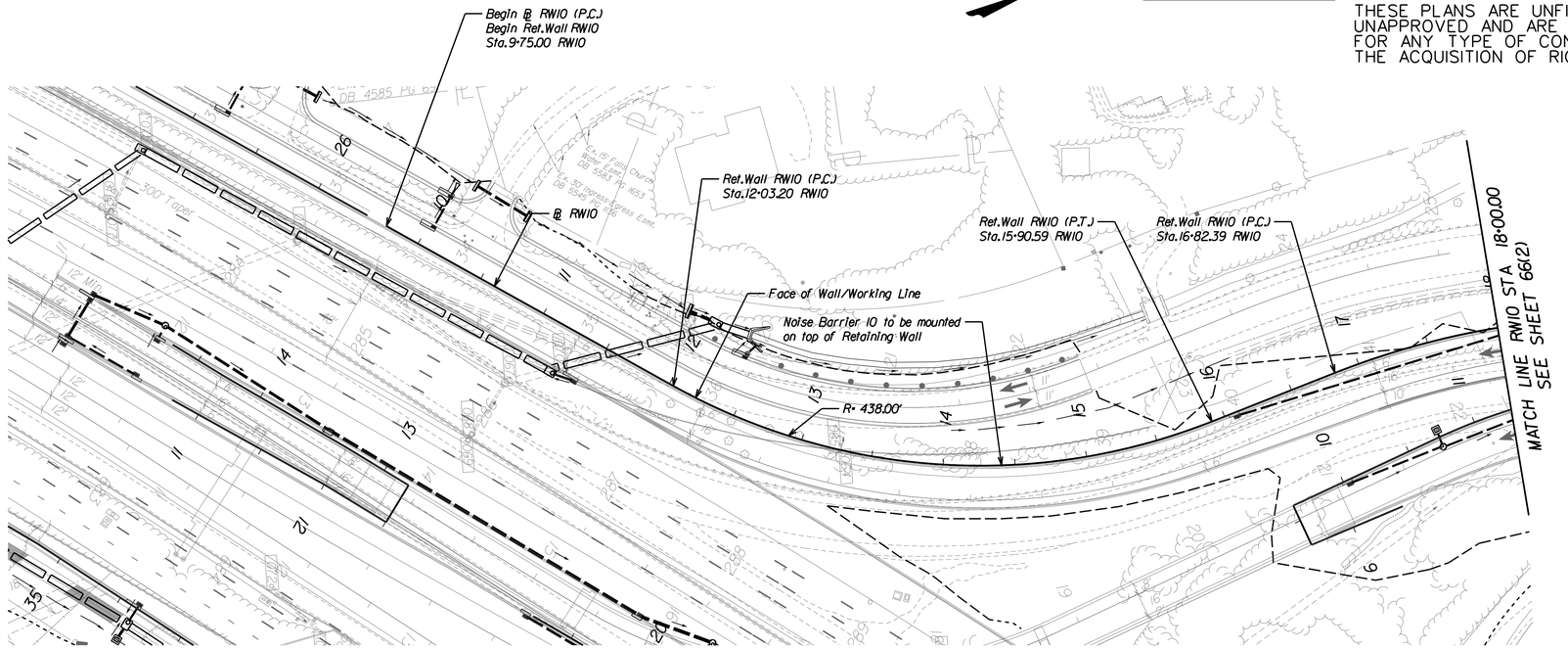
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

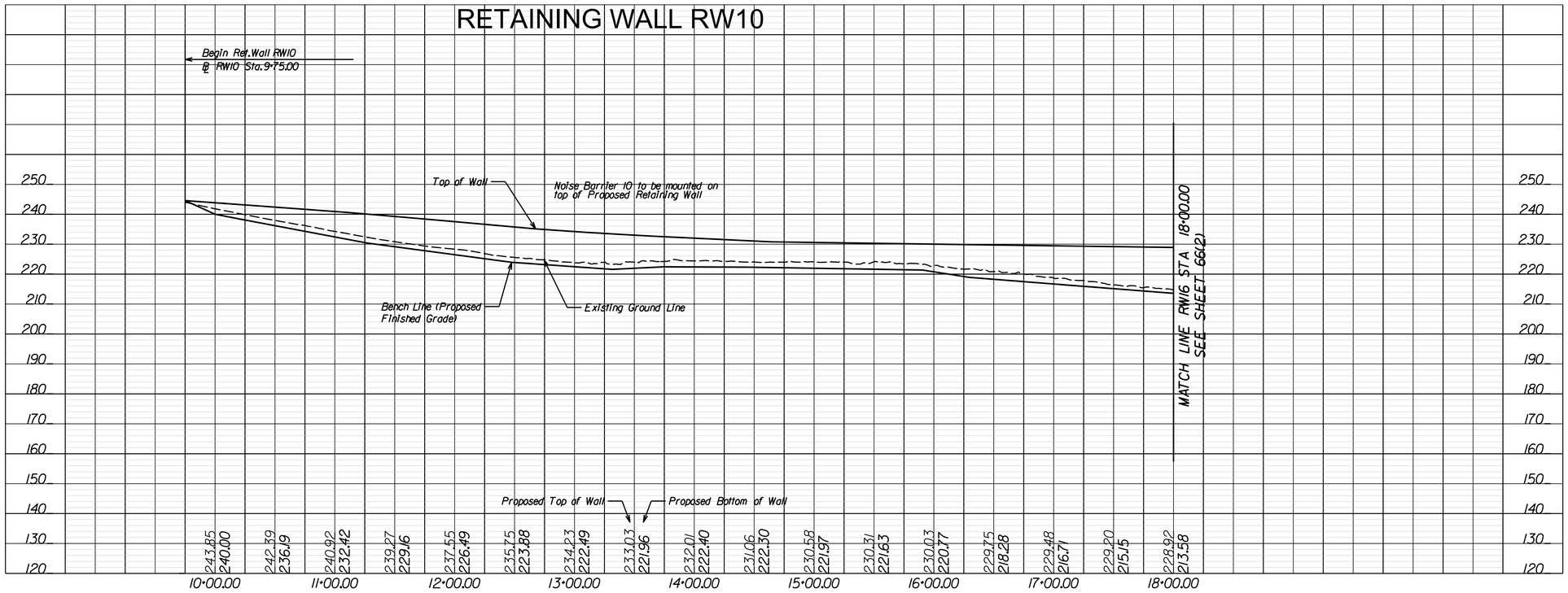
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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



RETAINING WALL RW10



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	66(1)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

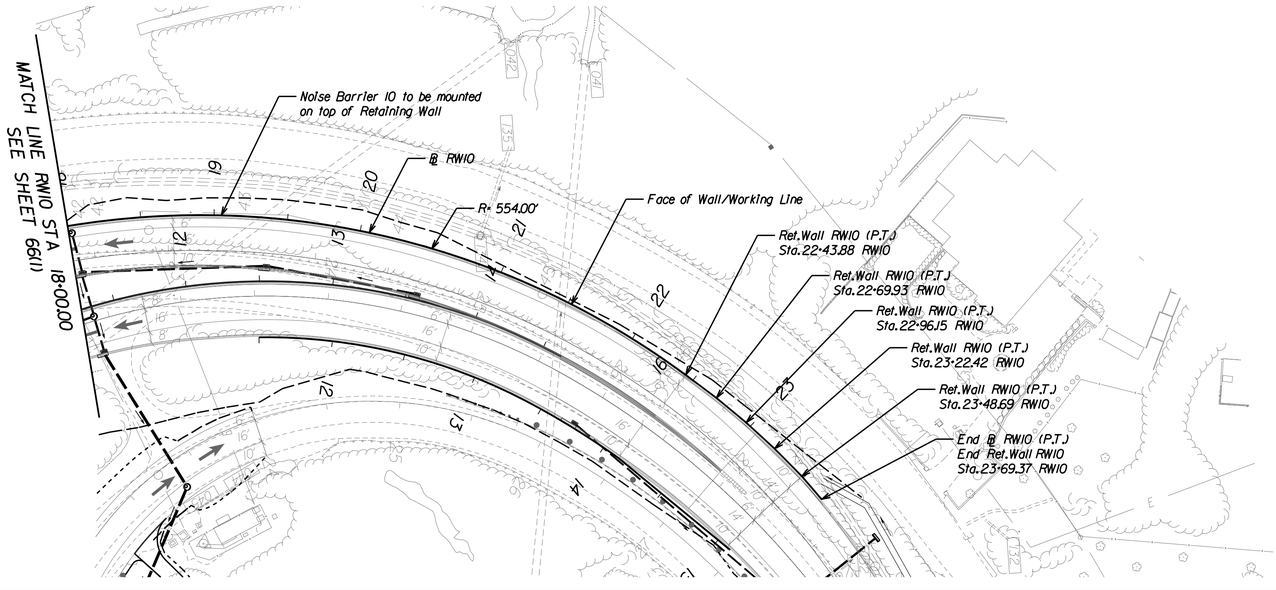
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

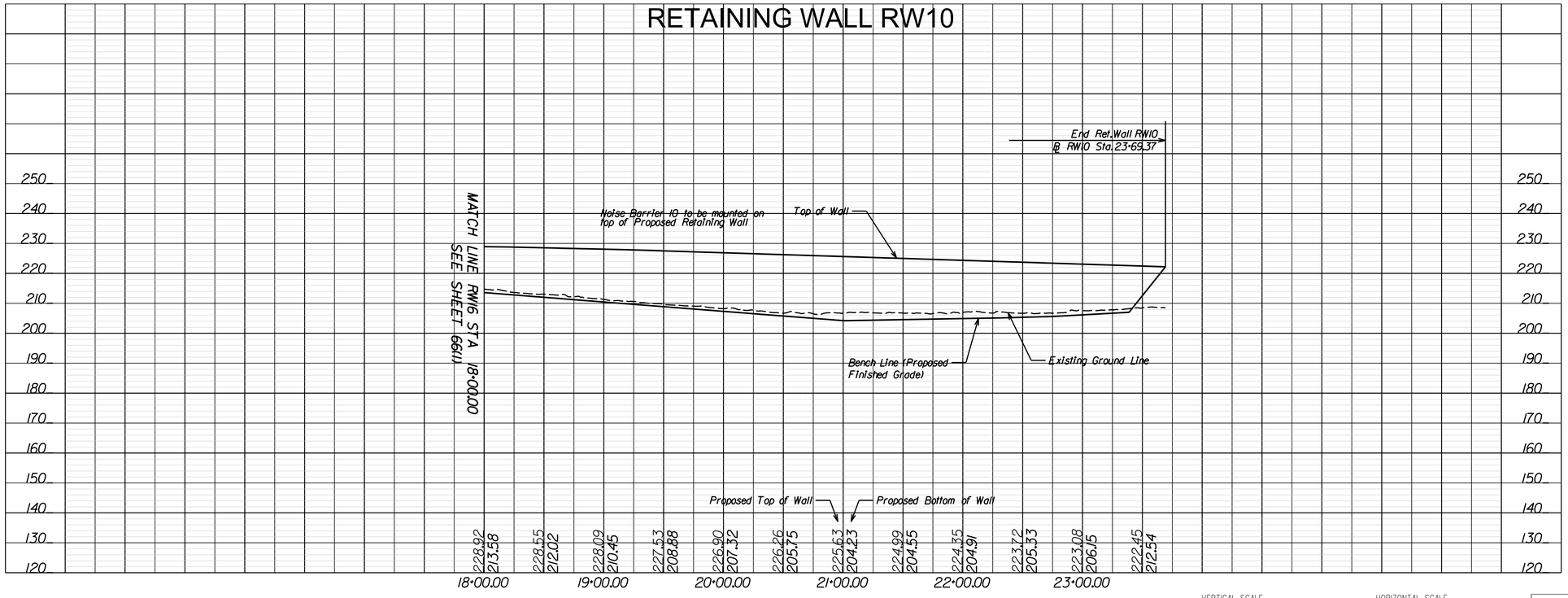
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	66(2)

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



RETAINING WALL RW10



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	66(2)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

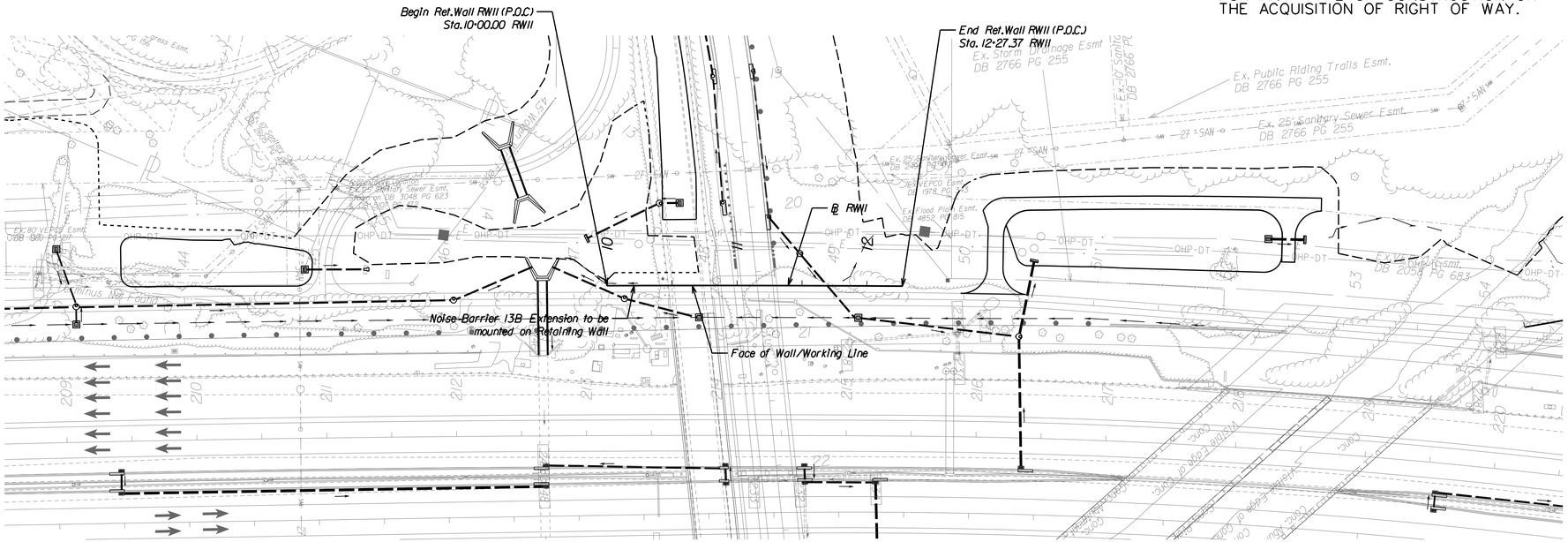
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	67

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


Begin Ret.Wall RW11 (P.O.C.)
Sta. 10+00.00 RW11
End Ret.Wall RW11 (P.O.C.)
Sta. 12+27.37 RW11
℄ RW11
Noise Barrier 13B Extension to be mounted on Retaining Wall
Face of Wall/Working Line
Ex. Public Riding Trails Esmt. DB 2766 PG 255
Ex. 25' Sanitary Sewer Esmt. DB 2766 PG 255
Ex. Storm Drainage Esmt DB 2766 PG 255
Ex. 25' Sanitary Sewer Esmt. DB 2766 PG 255
Ex. VEPCO Esmt. DB 1978 PG 1
Ex. Flood Plain Esmt. DB 4852 PG 185
Ex. VEPCO Esmt. DB 2058 PG 683
Ex. VEPCO Esmt. DBB 000 PG 207
Ex. Access Esmt.
Ex. Sanitary Sewer Esmt. Shown on DB 3048 PG 623
Ex. 25' Sanitary Sewer Esmt. DB 2766 PG 255
Ex. 65' Sanitary Sewer Esmt. DB 2766 PG 255
Ex. Gas Line
Ex. Telephone Manhole
Ex. Telephone Pedestal
Ex. Telephone Manhole
Ex. Telephone Pedestal
Ex. Telephone Manhole
Ex. Telephone Pedestal

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	68

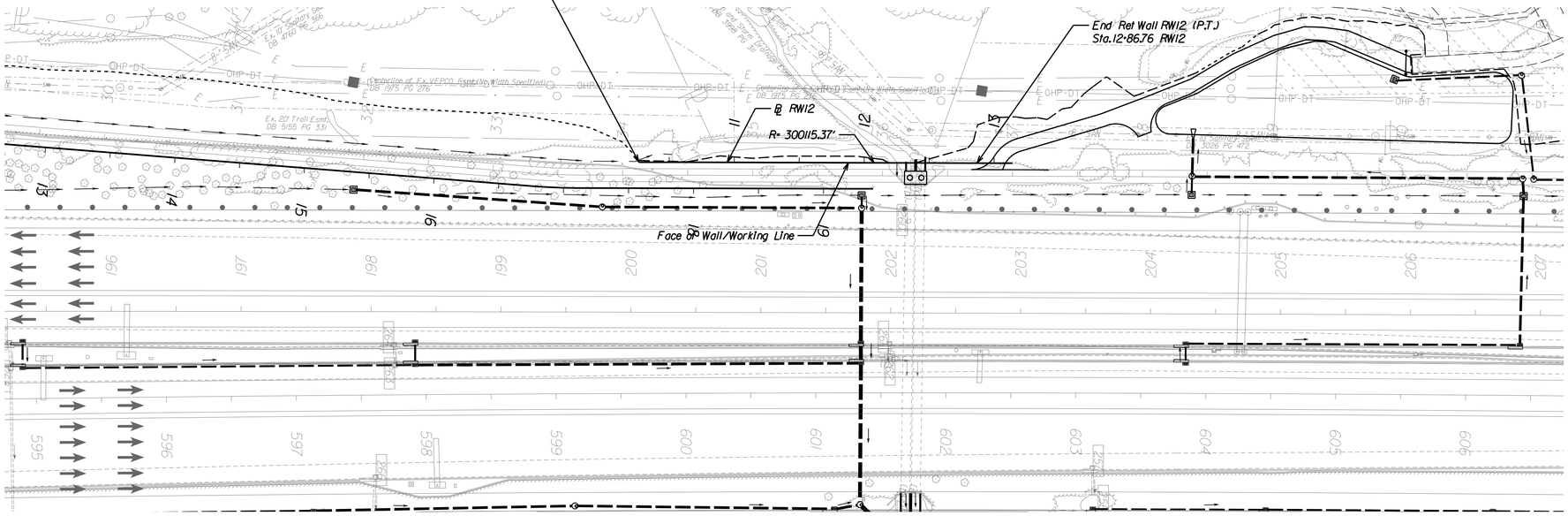
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

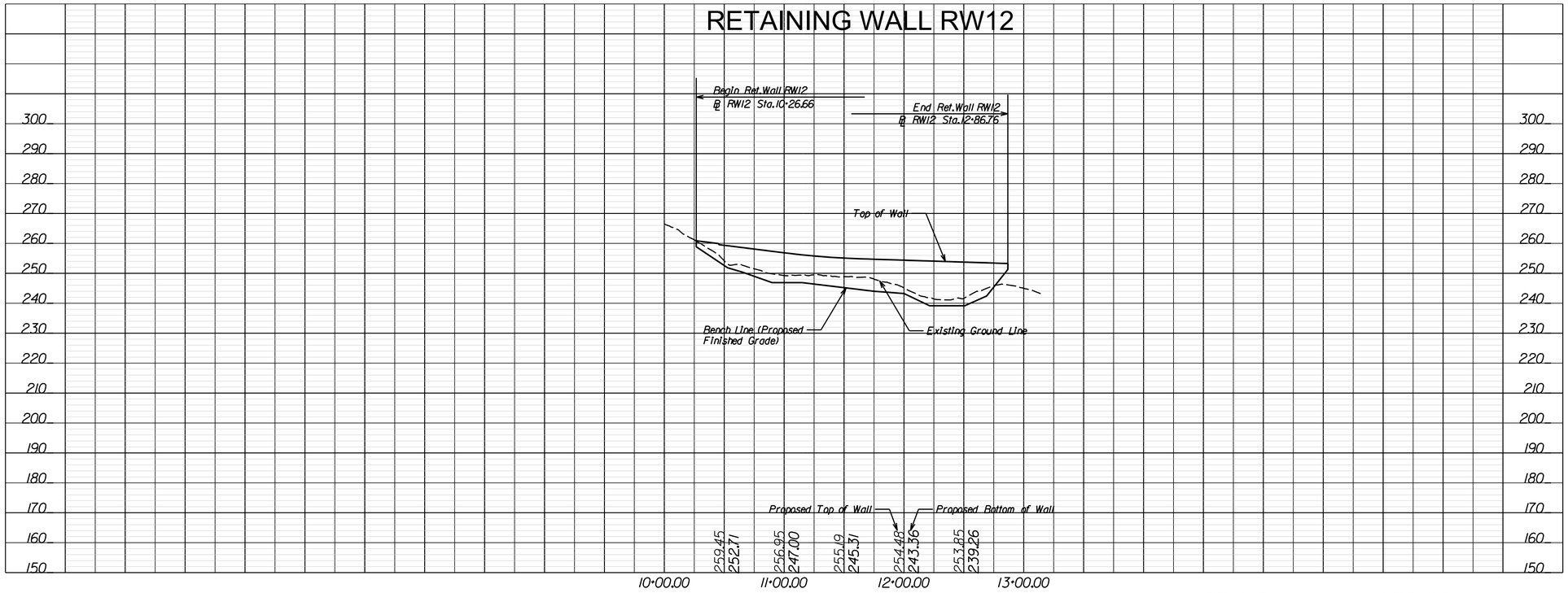
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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



RETAINING WALL RW12



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	68

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

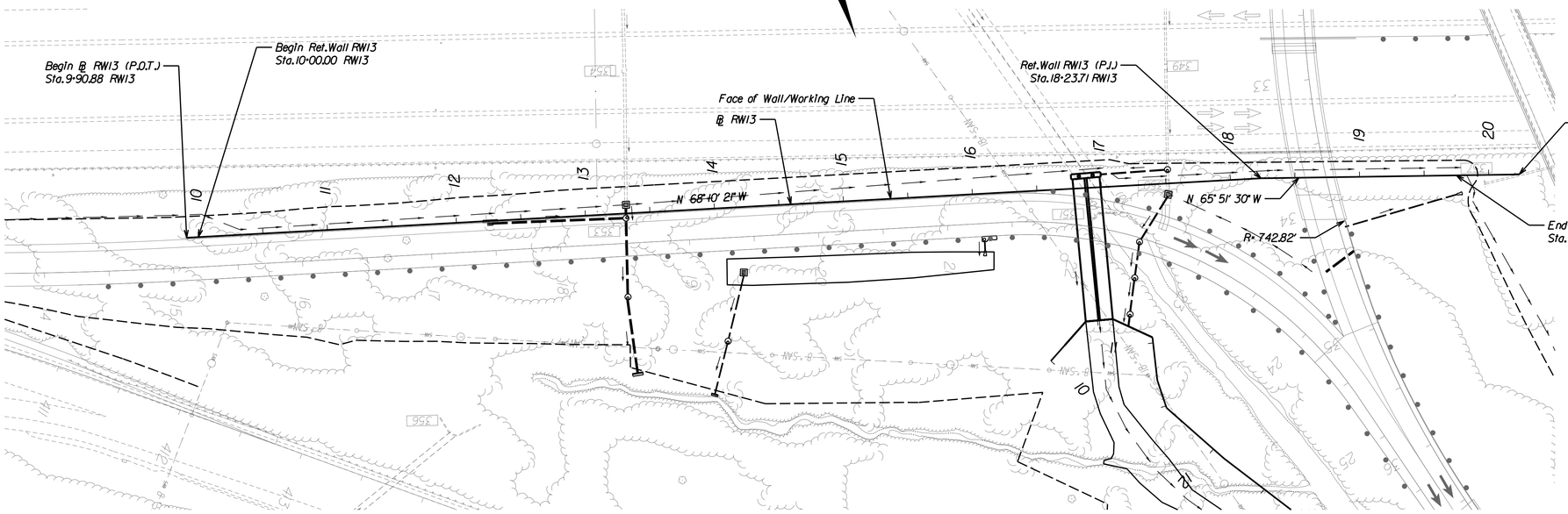
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

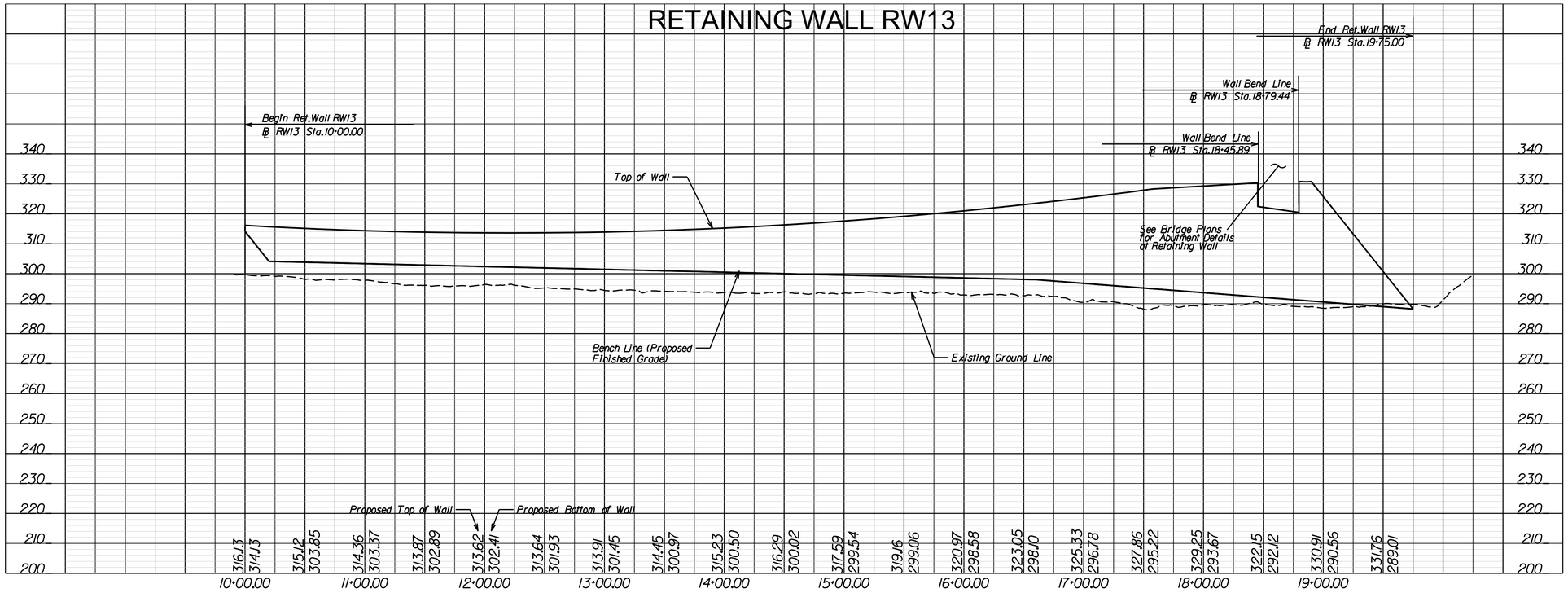
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	69

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



RETAINING WALL RW13



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	69

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

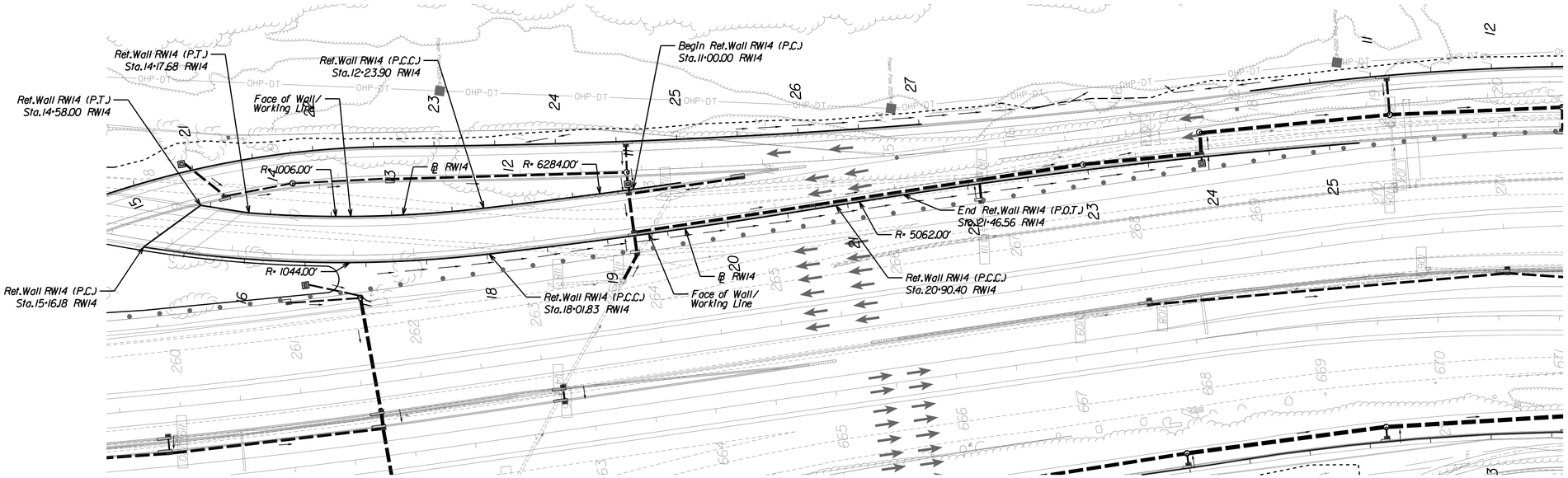
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

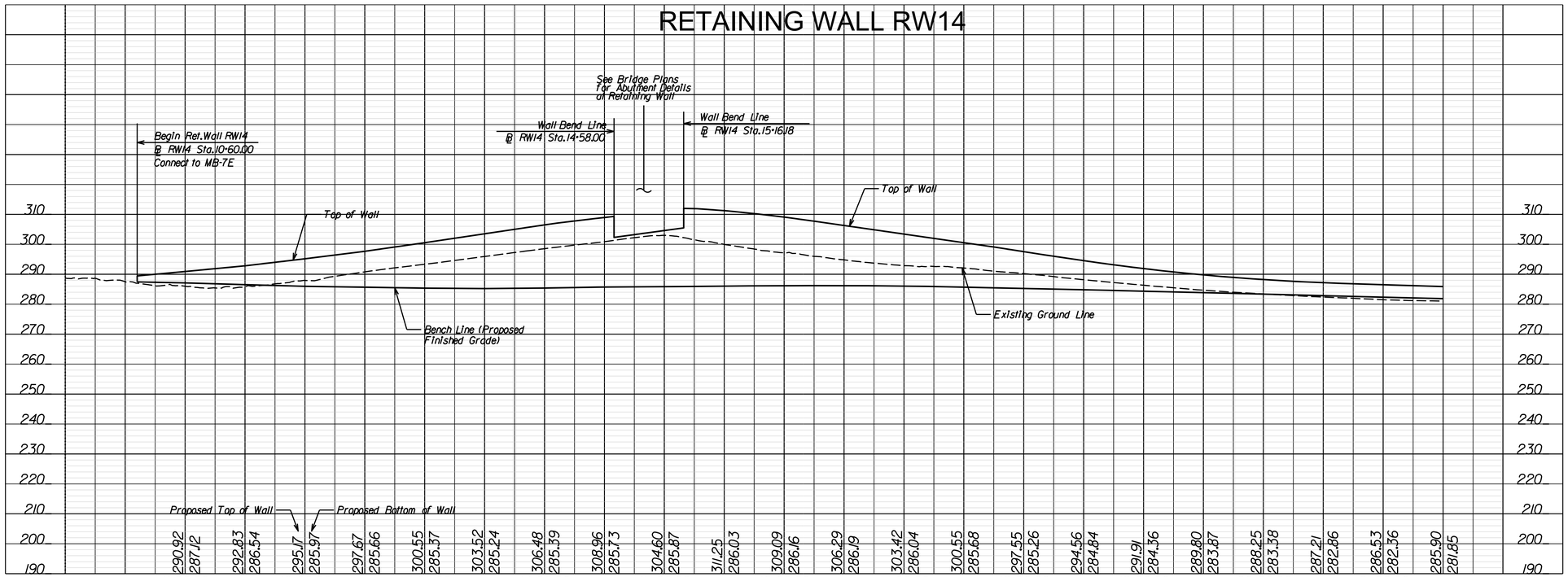
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	70

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



RETAINING WALL RW14



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	70

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

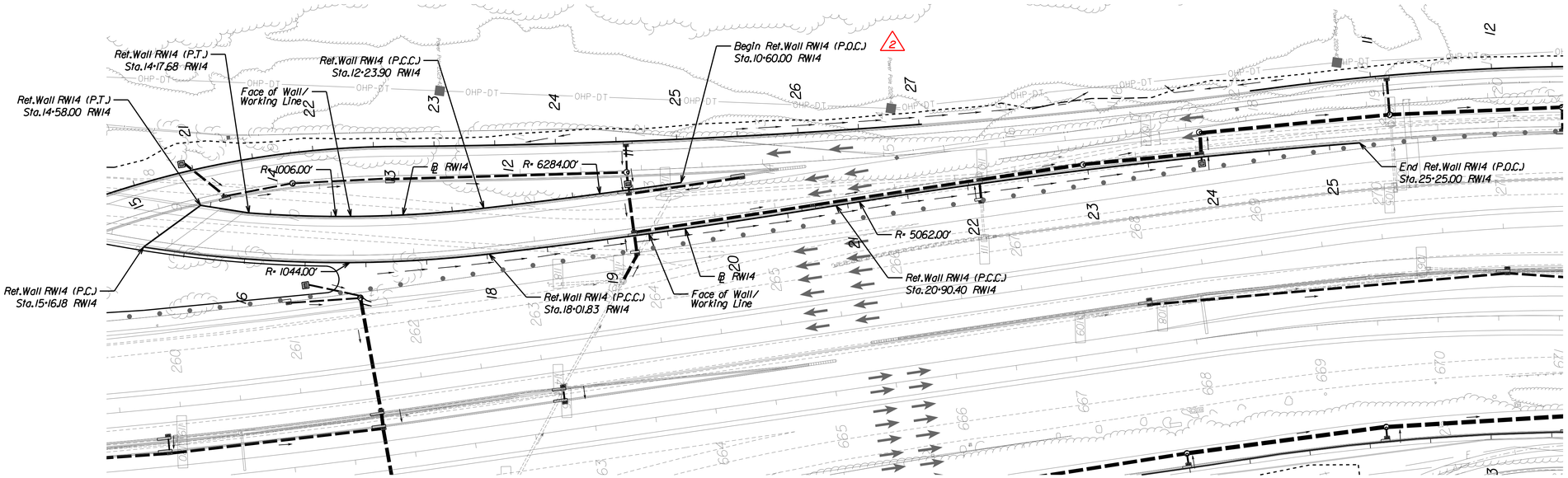
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	70(2)

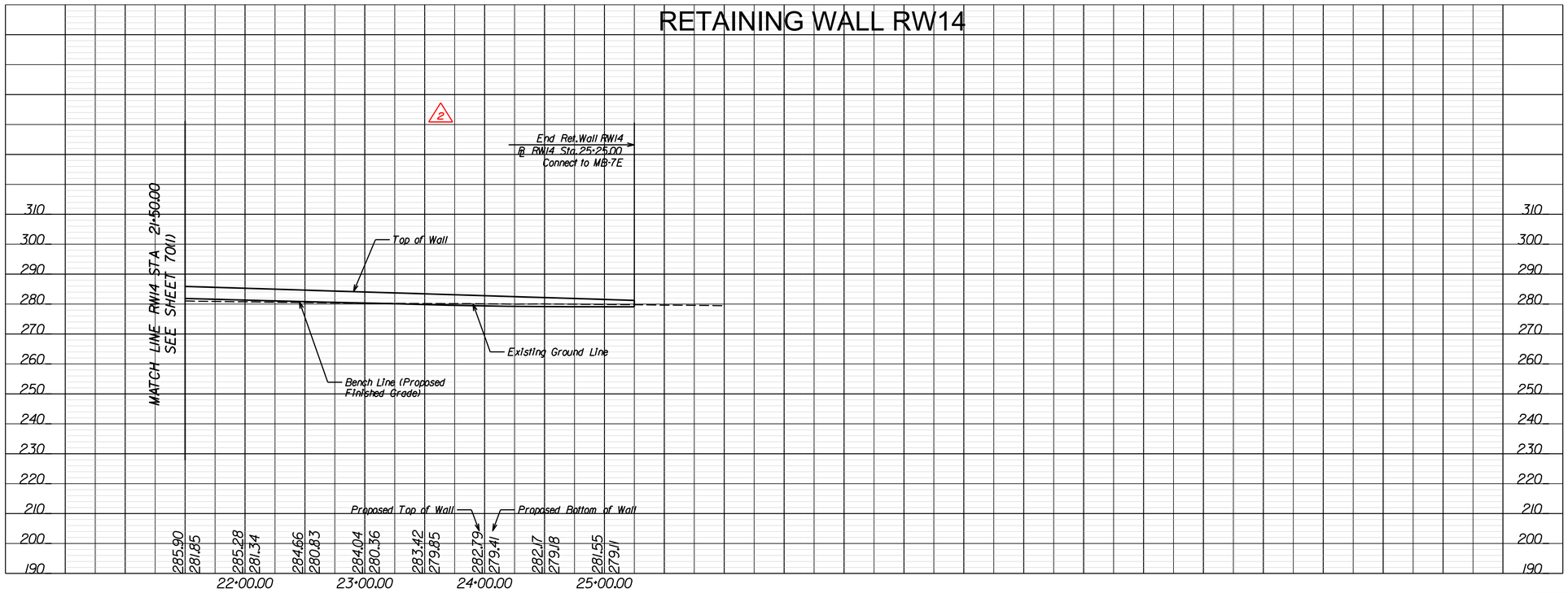
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISIONS

No.	Description	Date
2	Revised Retaining Wall Alignment, Profile, and Roadway Design	12/18/2020



RETAINING WALL RW14



VERTICAL SCALE
0 20' 40'

HORIZONTAL SCALE
0 50' 100'

PROJECT	SHEET NO.
0495-029-419	70(2)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

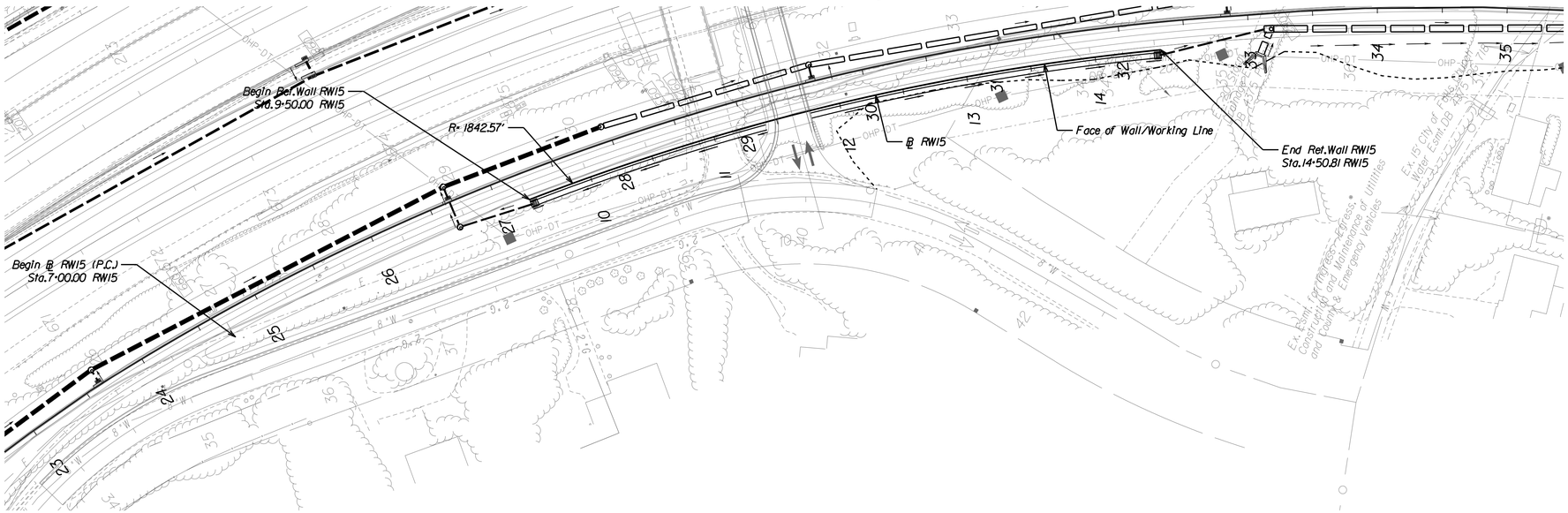
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

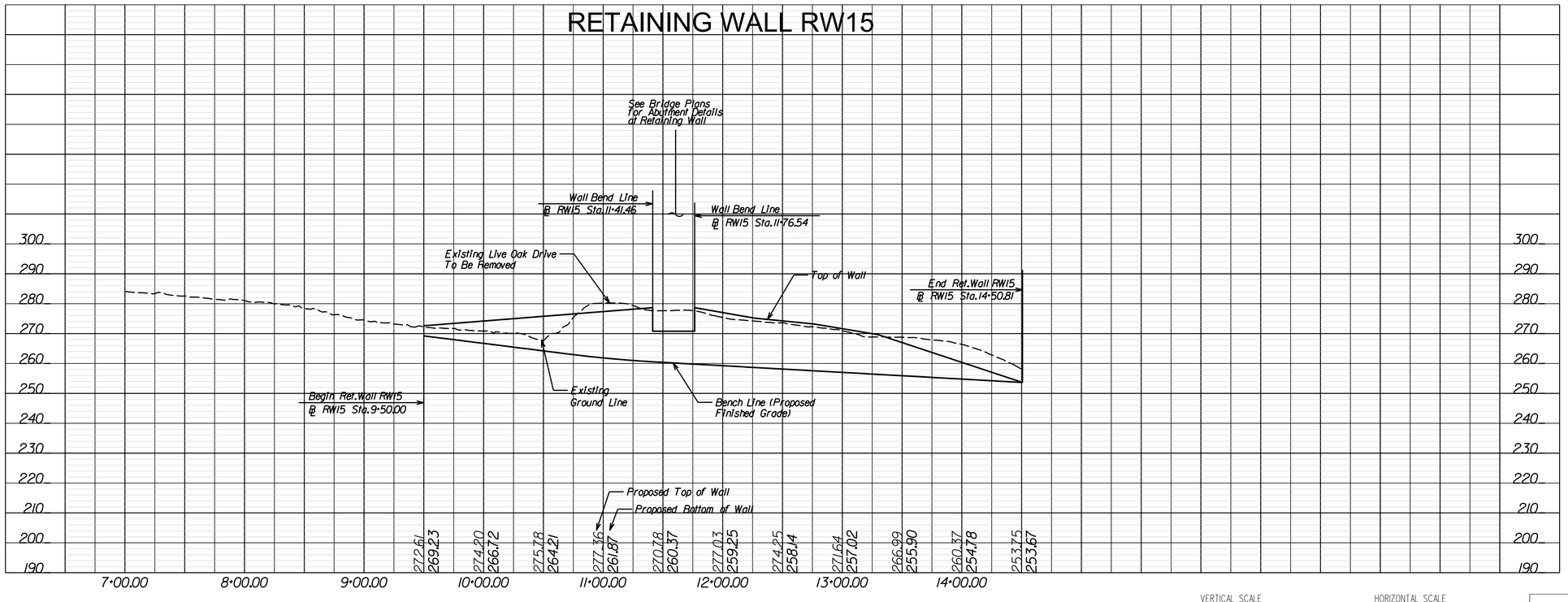
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	71

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



RETAINING WALL RW15



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	71

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

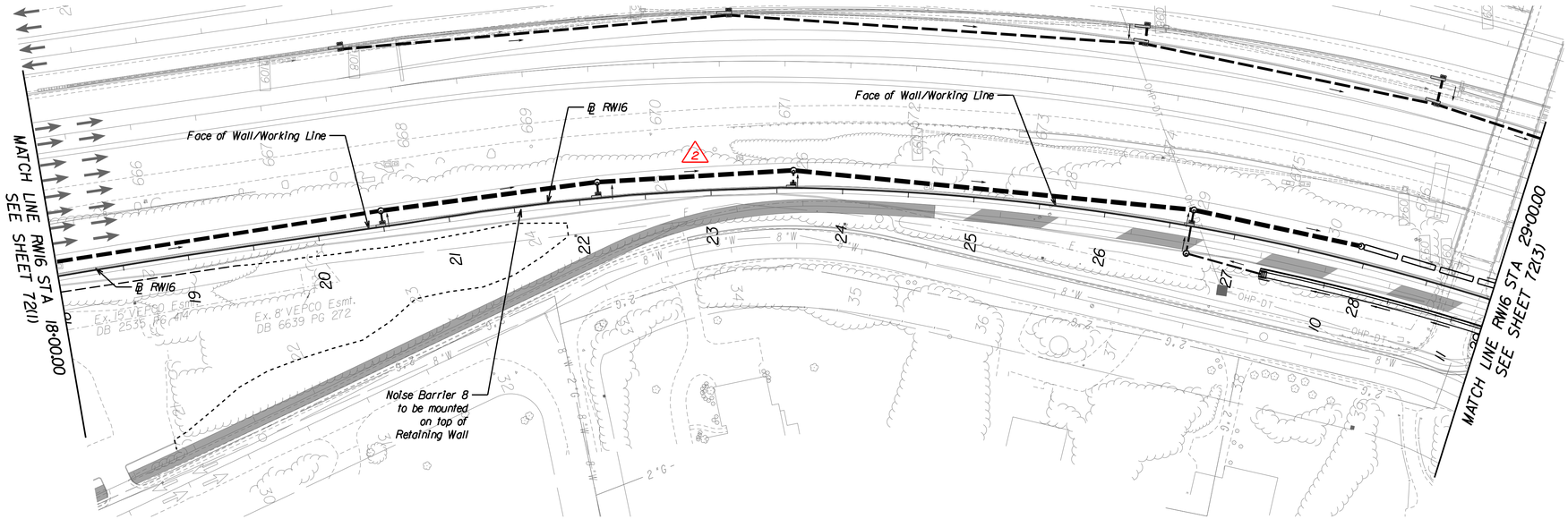
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

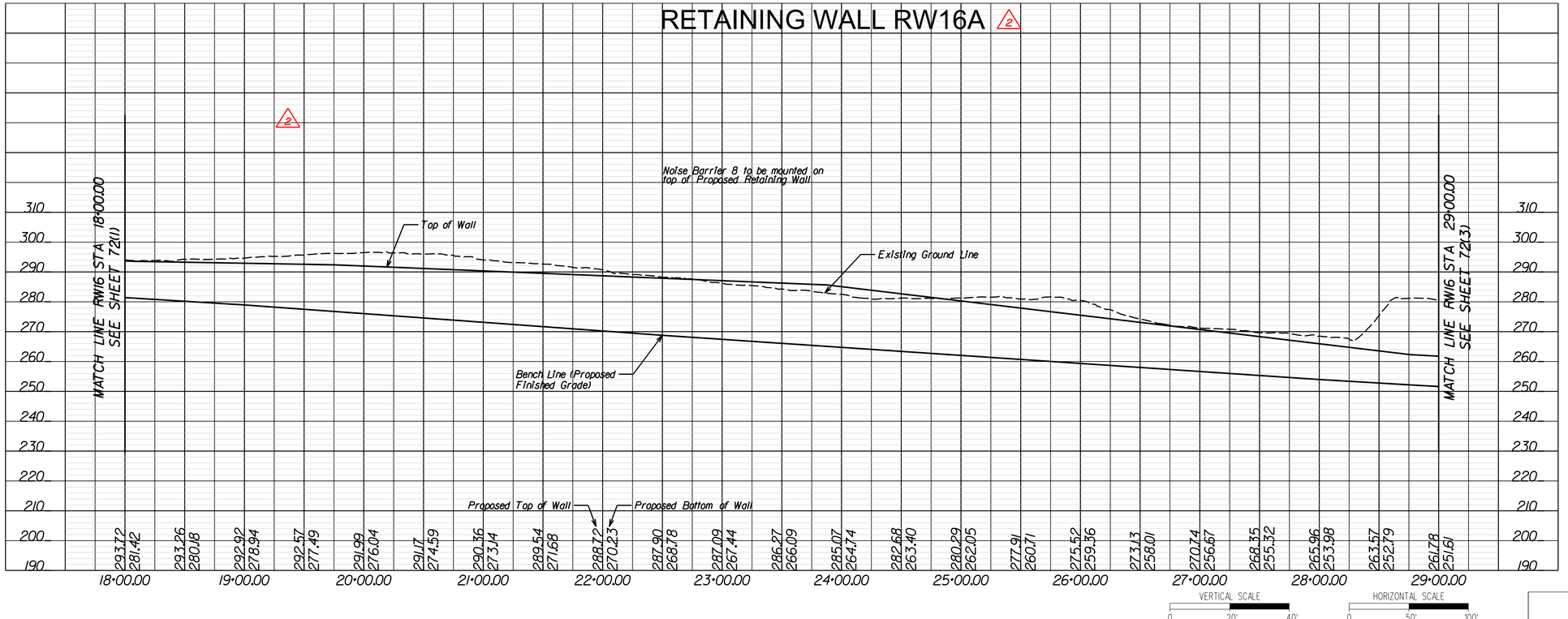
REVISED	STATE	ROUTE
	VA.	495

DESIGN FEATURES RELATING TO CON
OR TO REGULATION AND CONTROL OF
MAY BE SUBJECT TO CHANGE AS DE
NECESSARY BY THE DEPARTMENT

No.	Descr
2	Revised Retaining Wa and Roadway Design



RETAINING WALL RW16A 2



PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

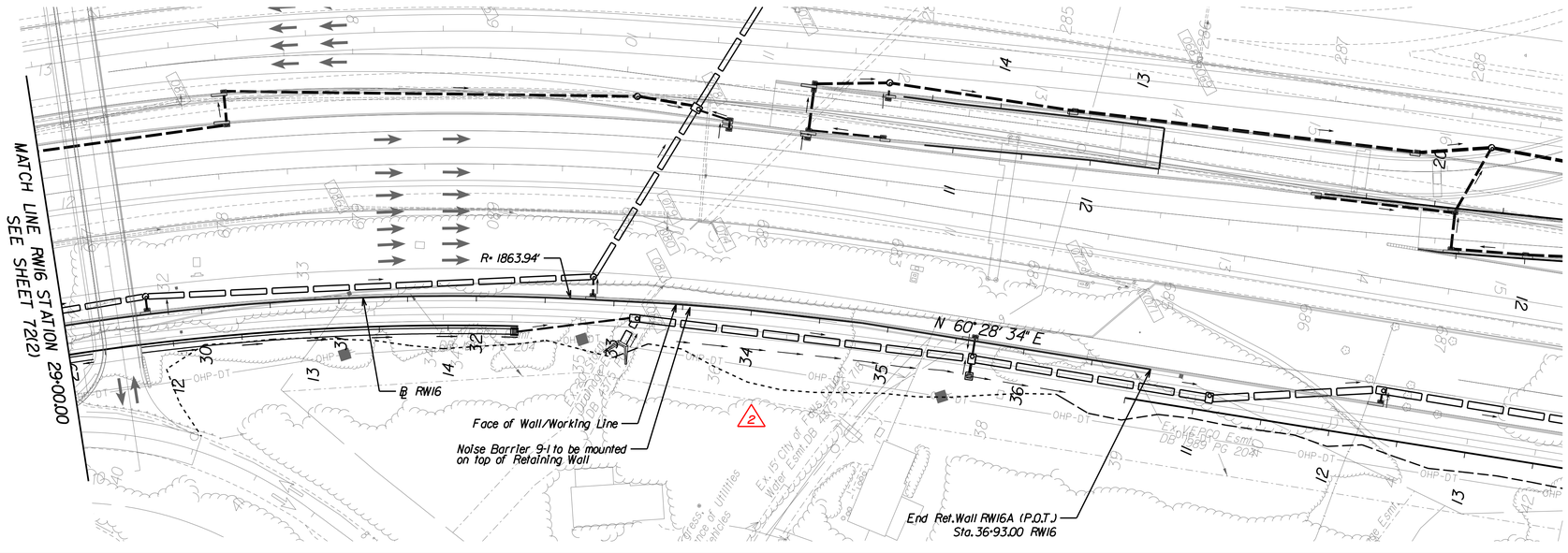
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

LIMITED ACCESS HIGHWAY — by Resolution of the Board of Supervisors

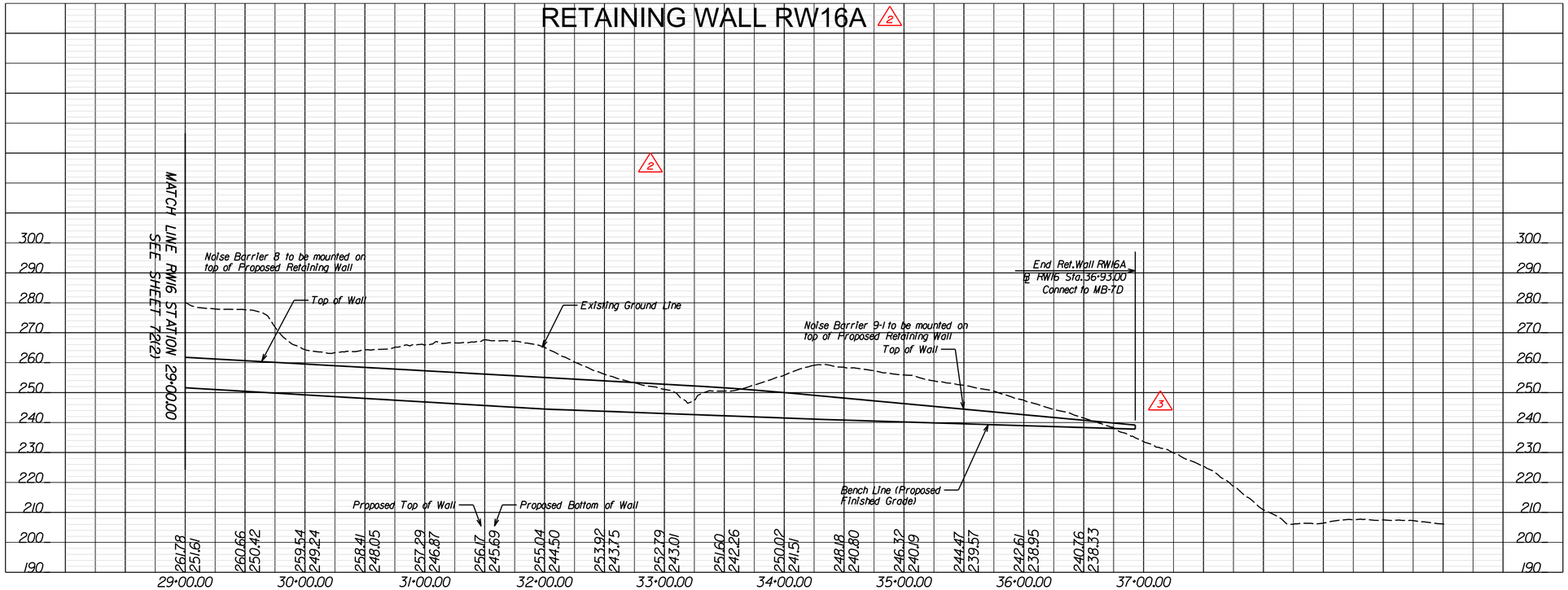
REVISED	STATE	STATE ROUTE	PROJECT
	VA.	495	0

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

REVISION	
No.	Description
2	New Sheet for RW16A. Revised Retaining Wall Alignment and Pr
3	Revised Top of Wall Elevations Retaining Wall RW16A



RETAINING WALL RW16A 2



PF
0495

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

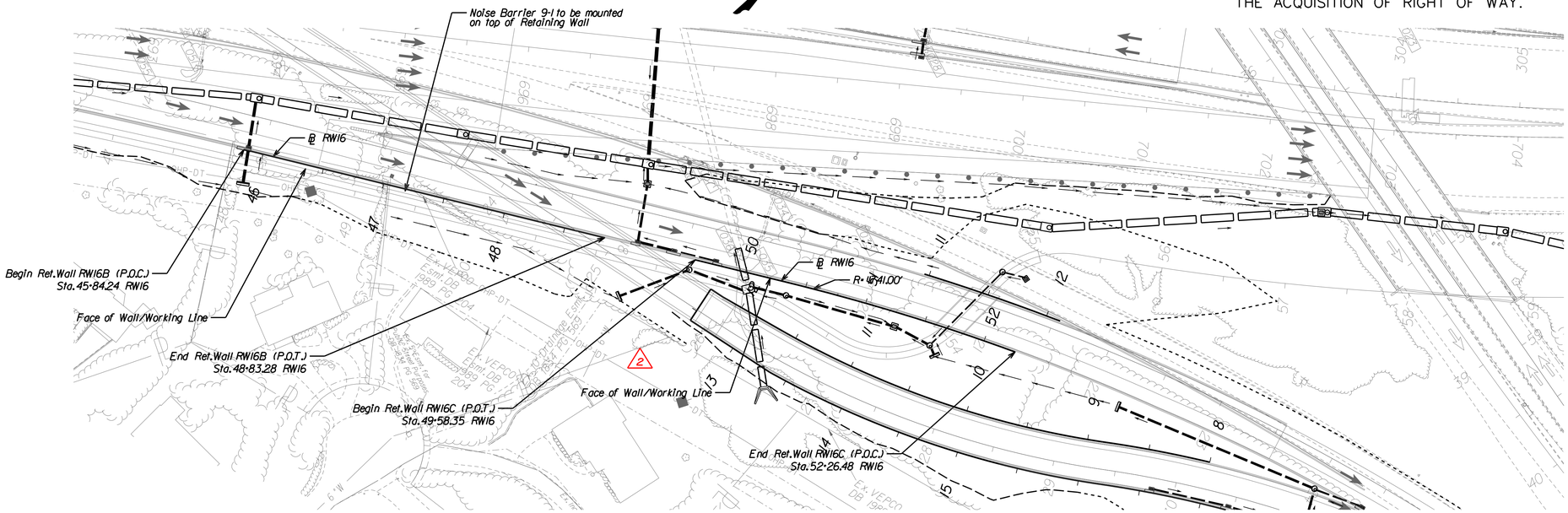
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	72(4)

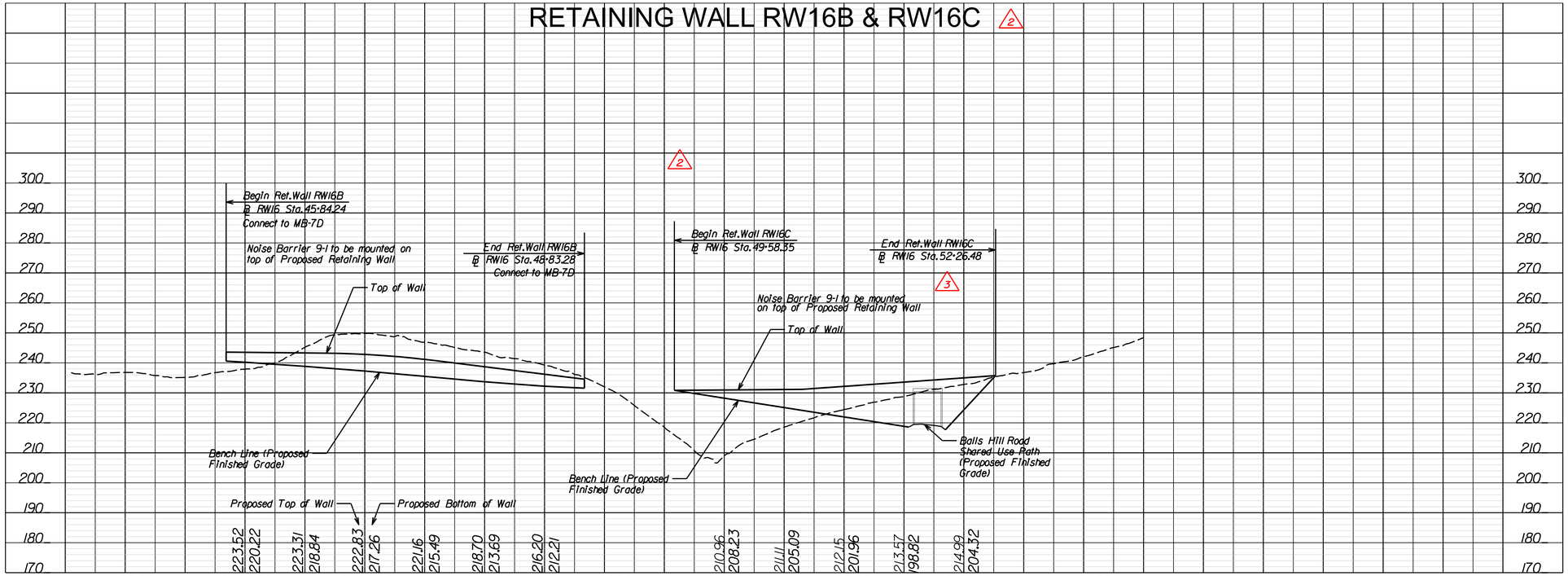
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISIONS

No.	Description	Date
2	Renamed RW16B to RW16C. New RW16B, revised Wall Alignment and Profiles	12/18/2020
3	Added Retaining Wall Mounted Noise Barrier to RW16C	03/09/2021



RETAINING WALL RW16B & RW16C



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	72(4)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

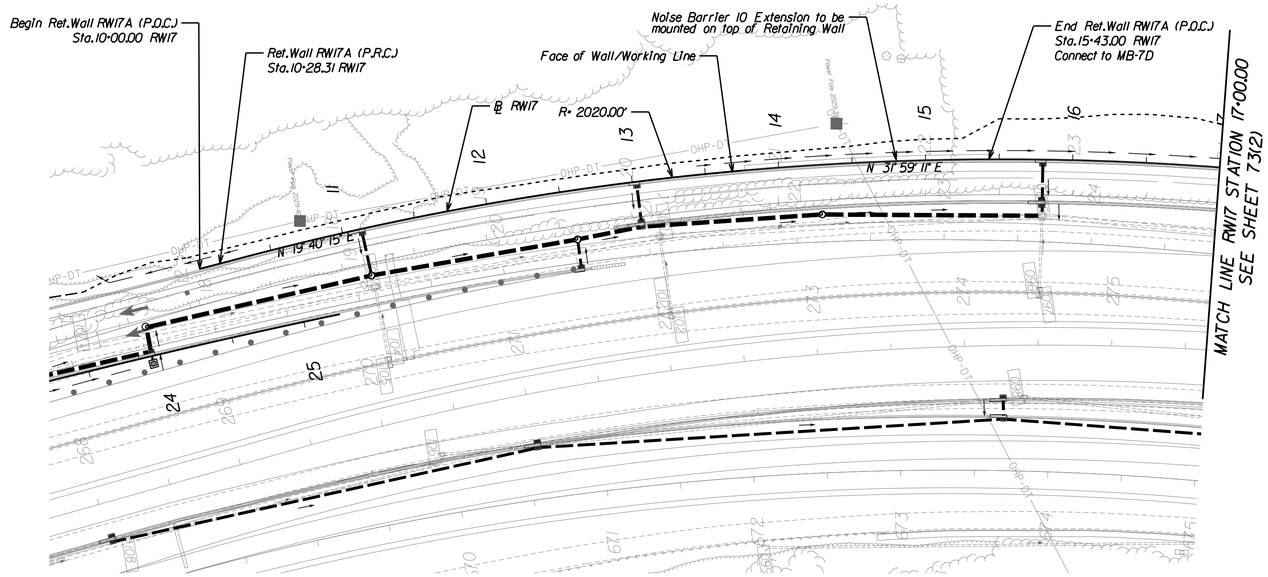
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

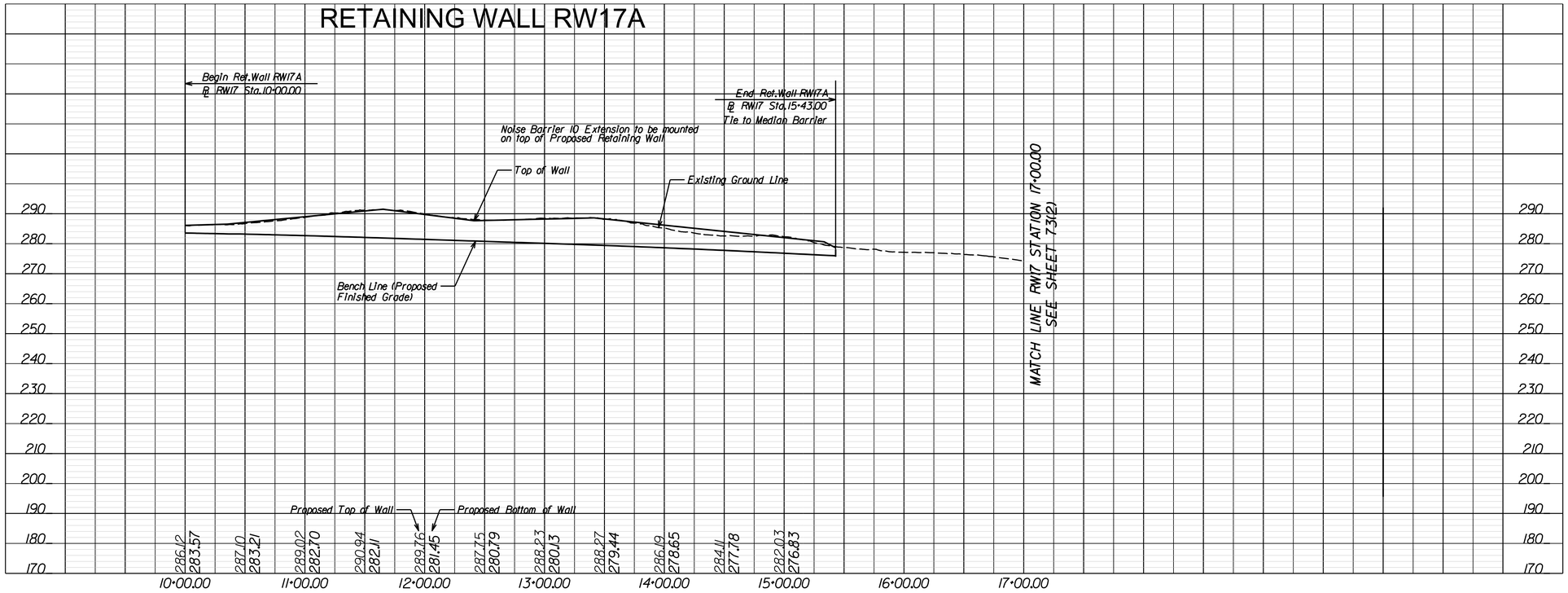
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	73(1)

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





VERTICAL SCALE
0 20' 40'

HORIZONTAL SCALE
0 50' 100'

PROJECT	SHEET NO.
0495-029-419	73(1)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

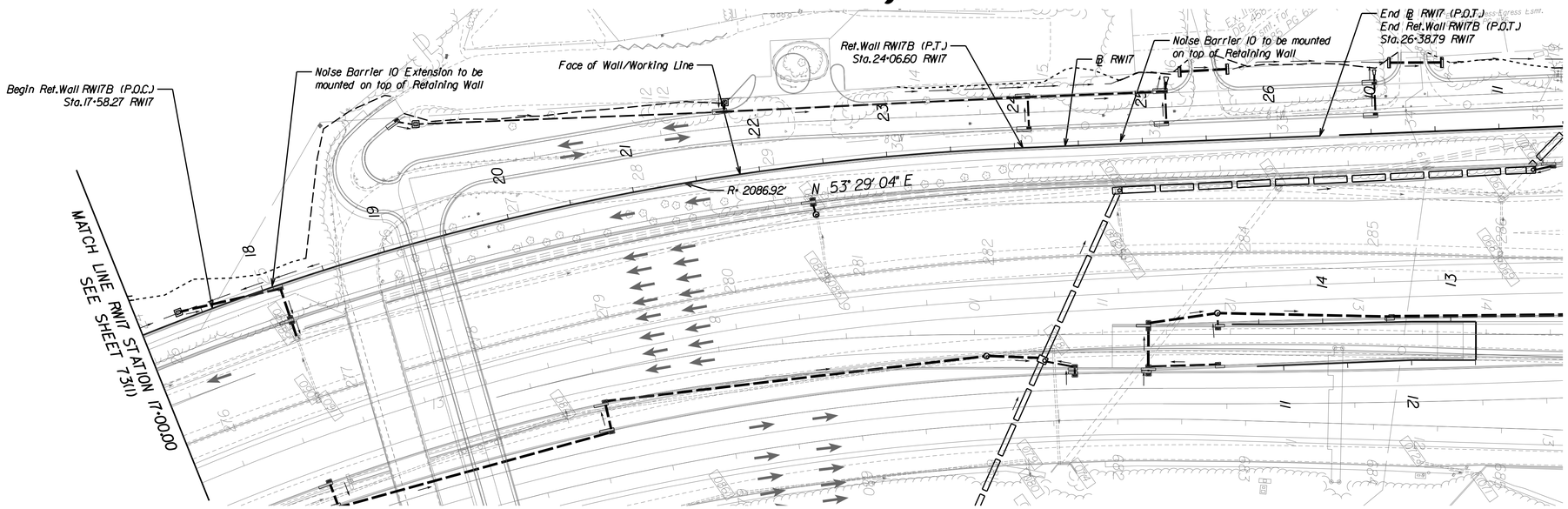
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

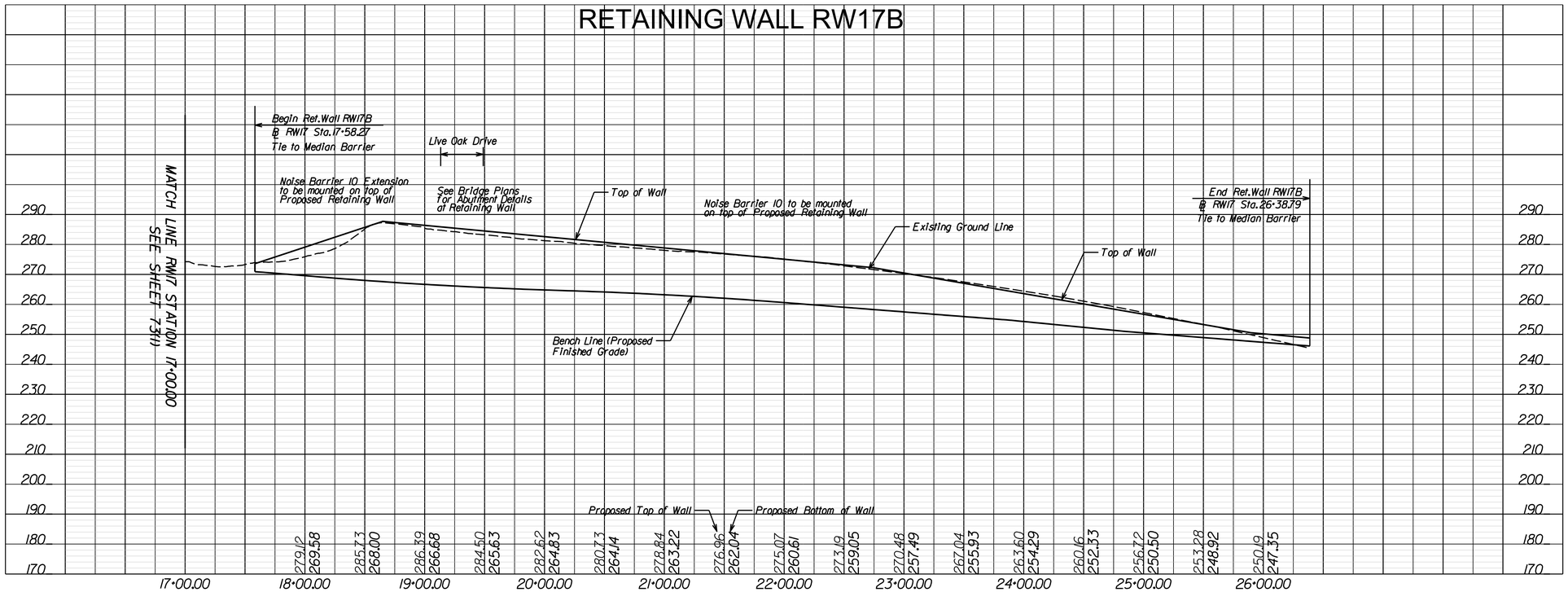
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	73(2)

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



RETAINING WALL RW17B



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	73(2)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

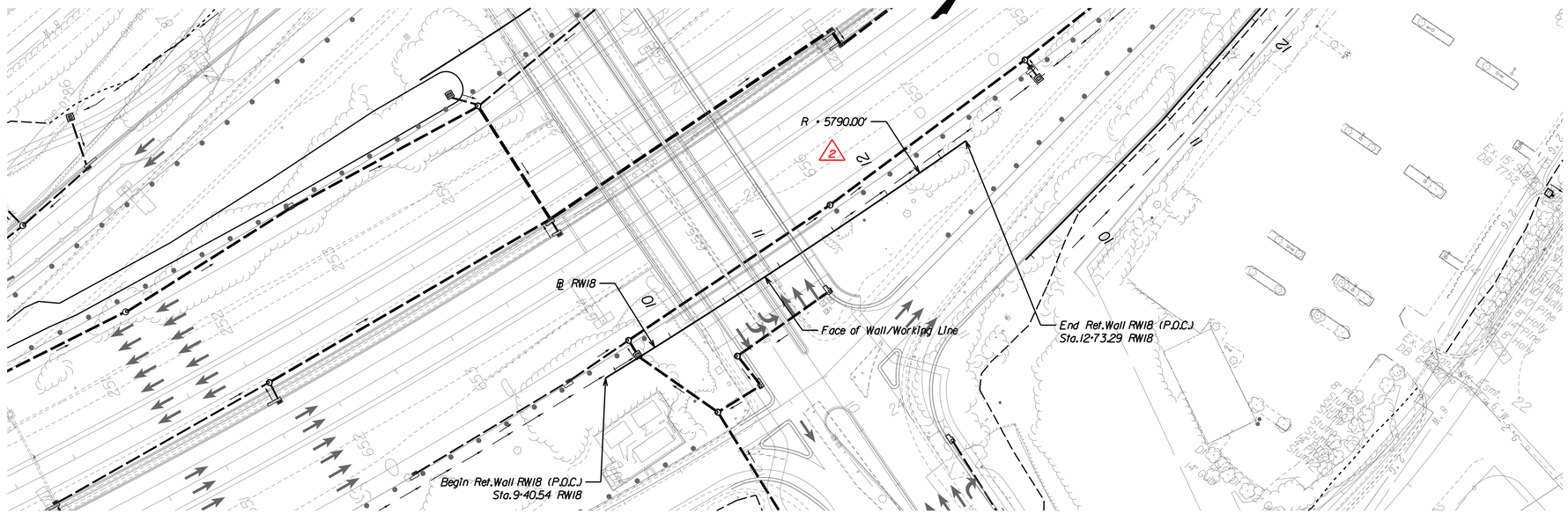
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	74

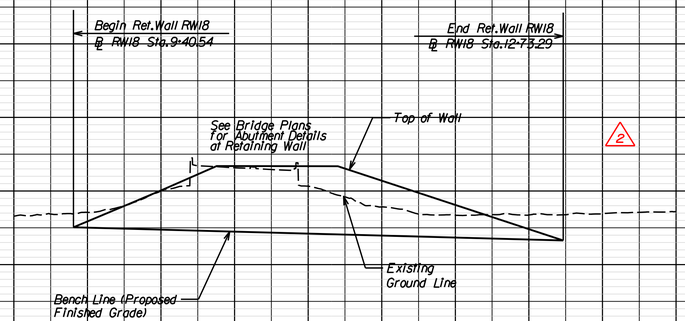
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

REVISIONS

No.	Description	Date
2	Revised Retaining Wall Alignment, Profile, and Roadway Design	12/18/2020



RETAINING WALL RW18



VERTICAL SCALE
0 20' 40'

HORIZONTAL SCALE
0 50' 100'

PROJECT	SHEET NO.
0495-029-419	74

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

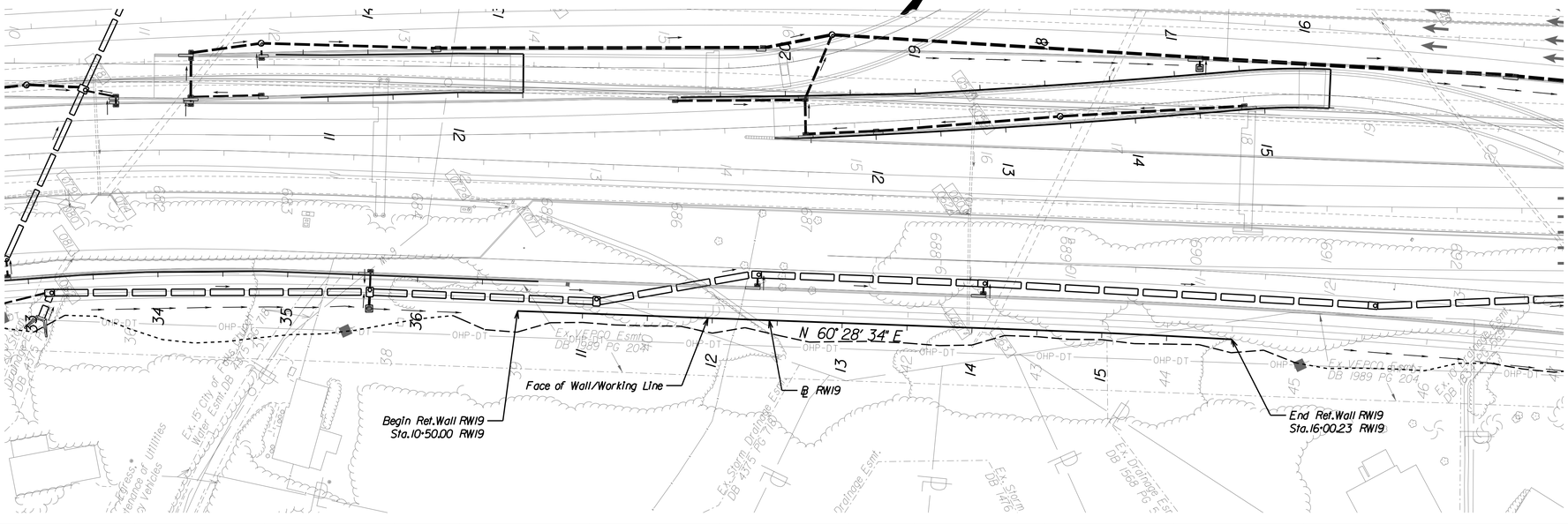
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

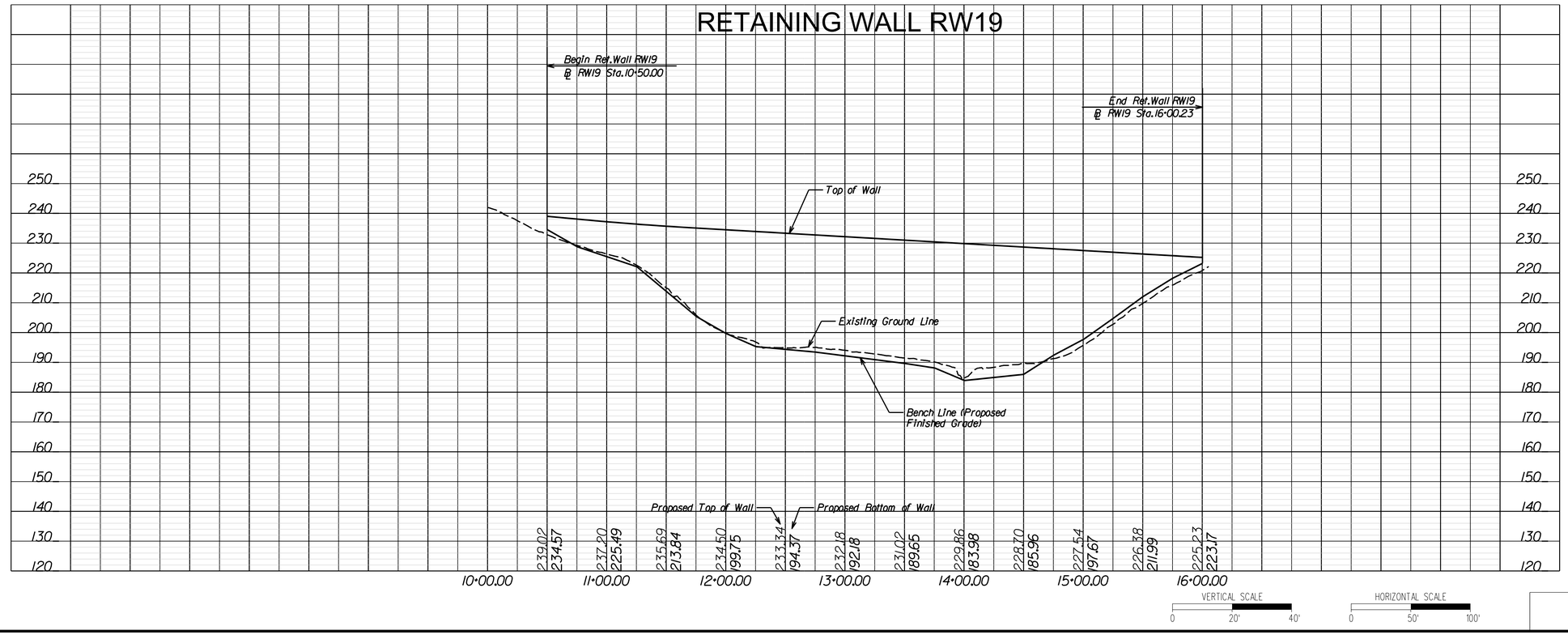
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	75

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



RETAINING WALL RW19



PROJECT	SHEET NO.
0495-029-419	75

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

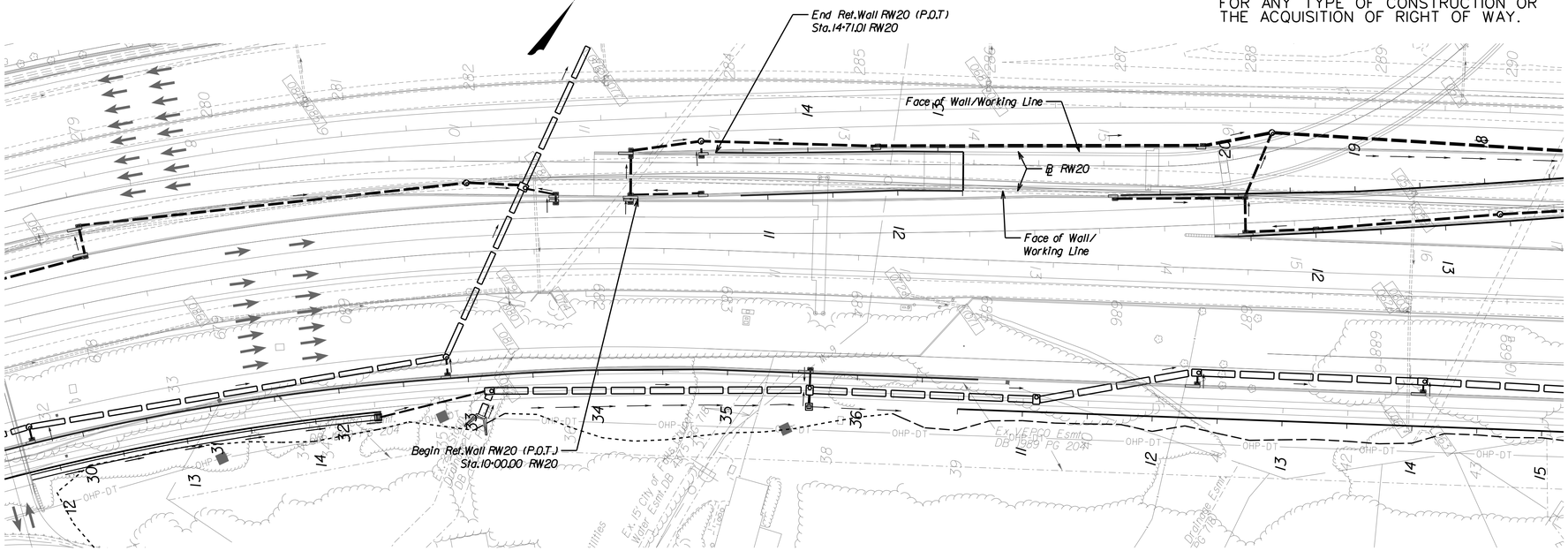
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

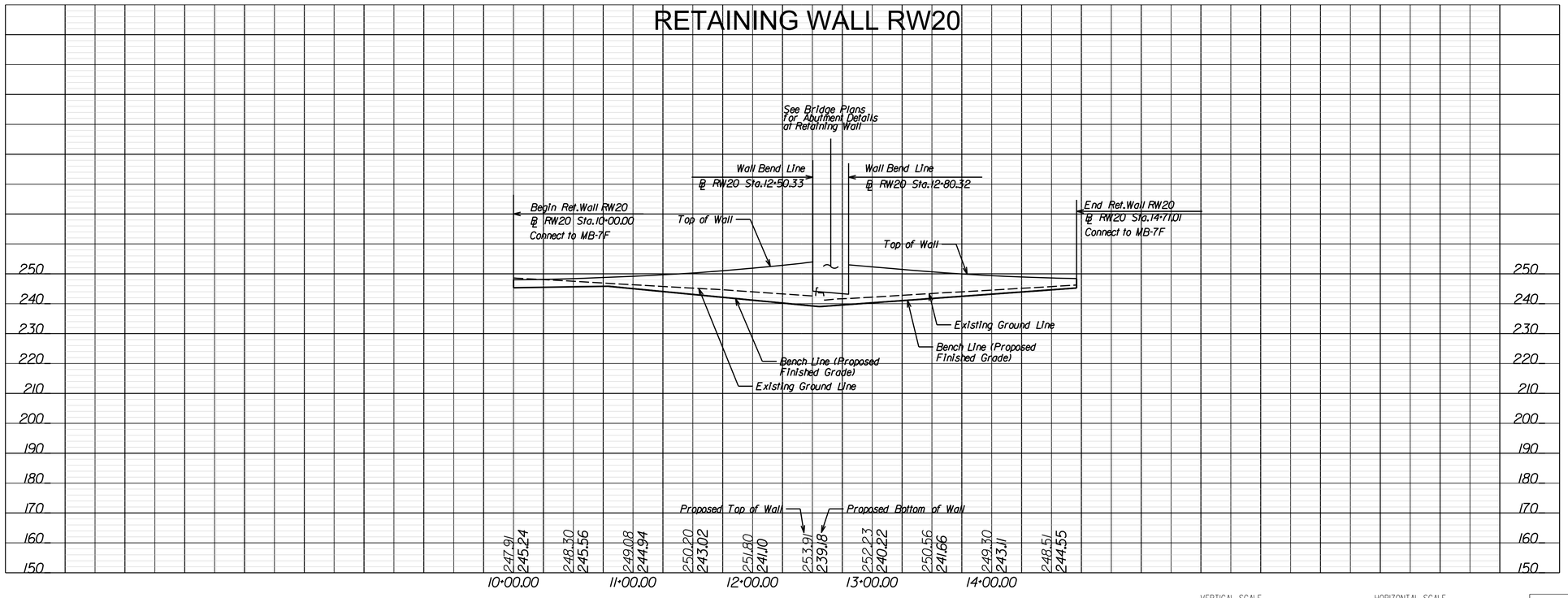
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	76

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



RETAINING WALL RW20



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	76

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

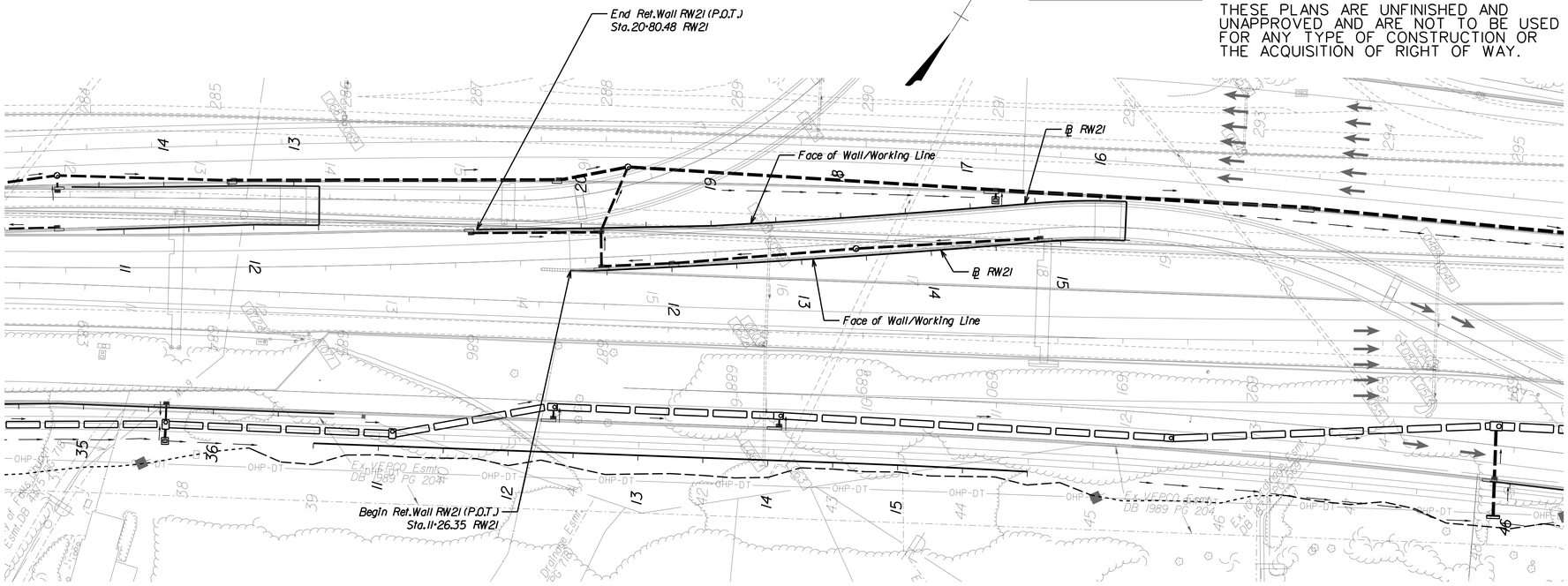
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

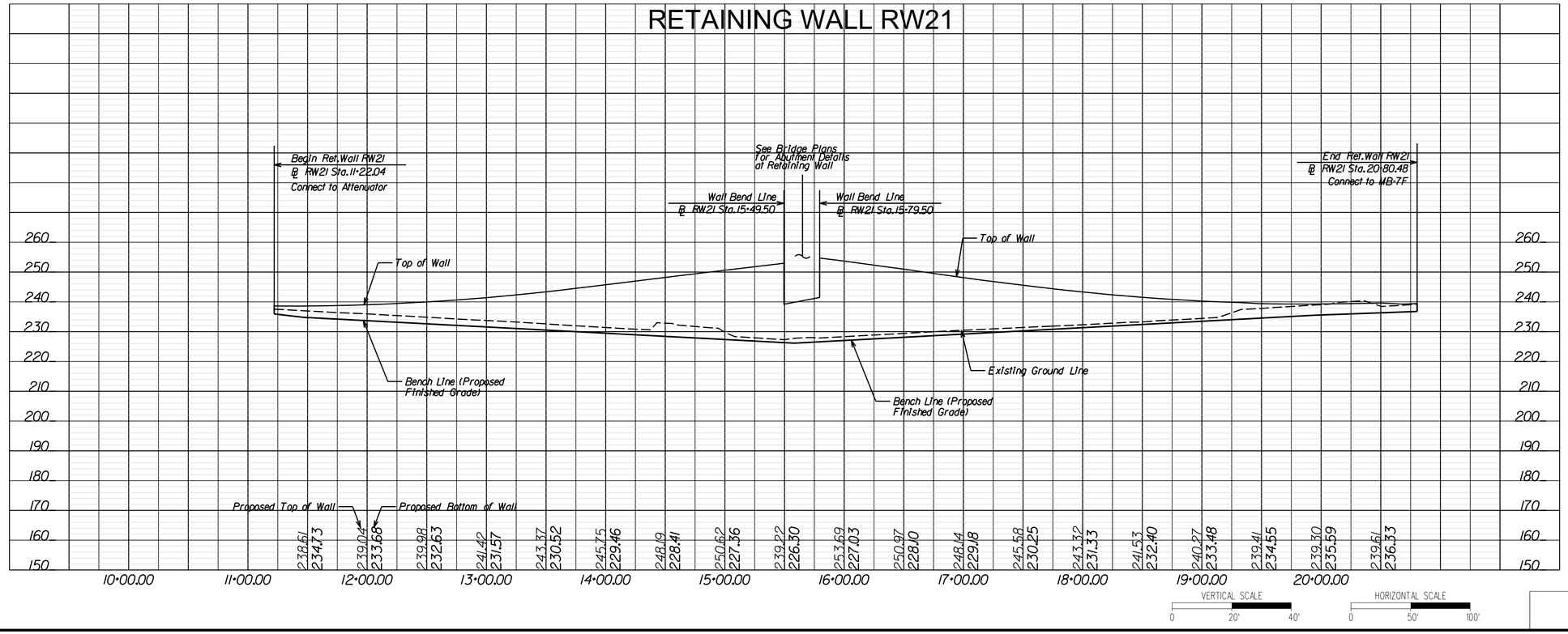
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	77

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



RETAINING WALL RW21



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	77

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

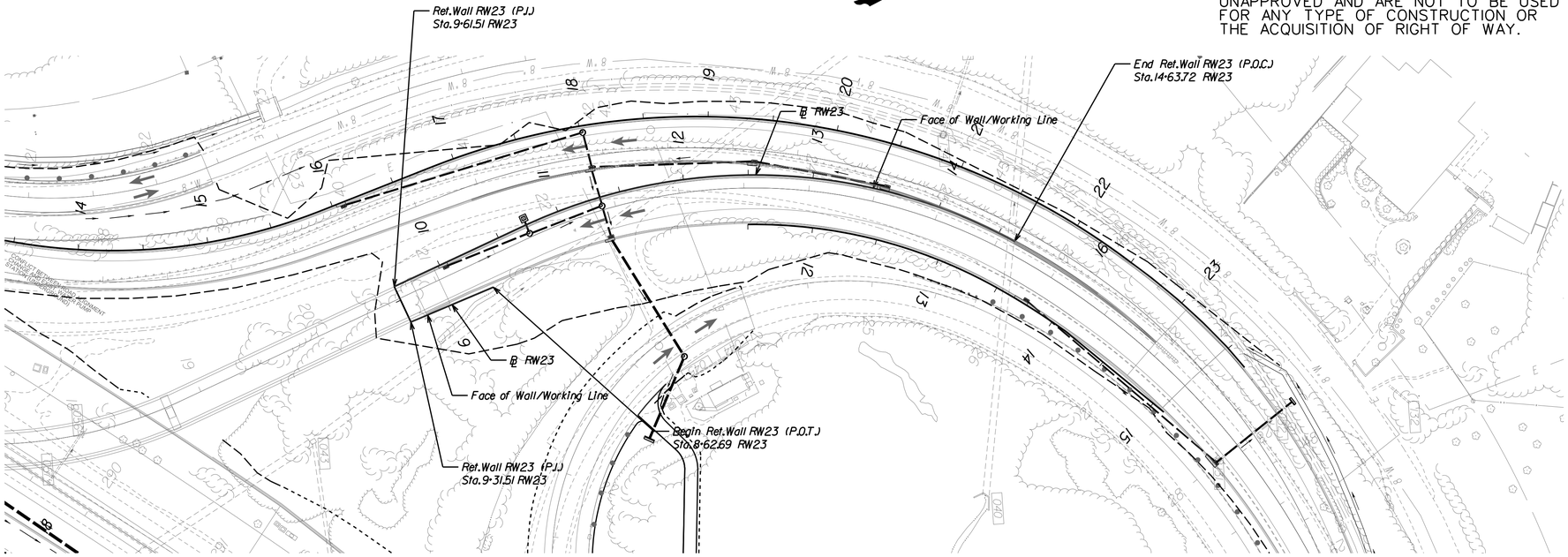
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

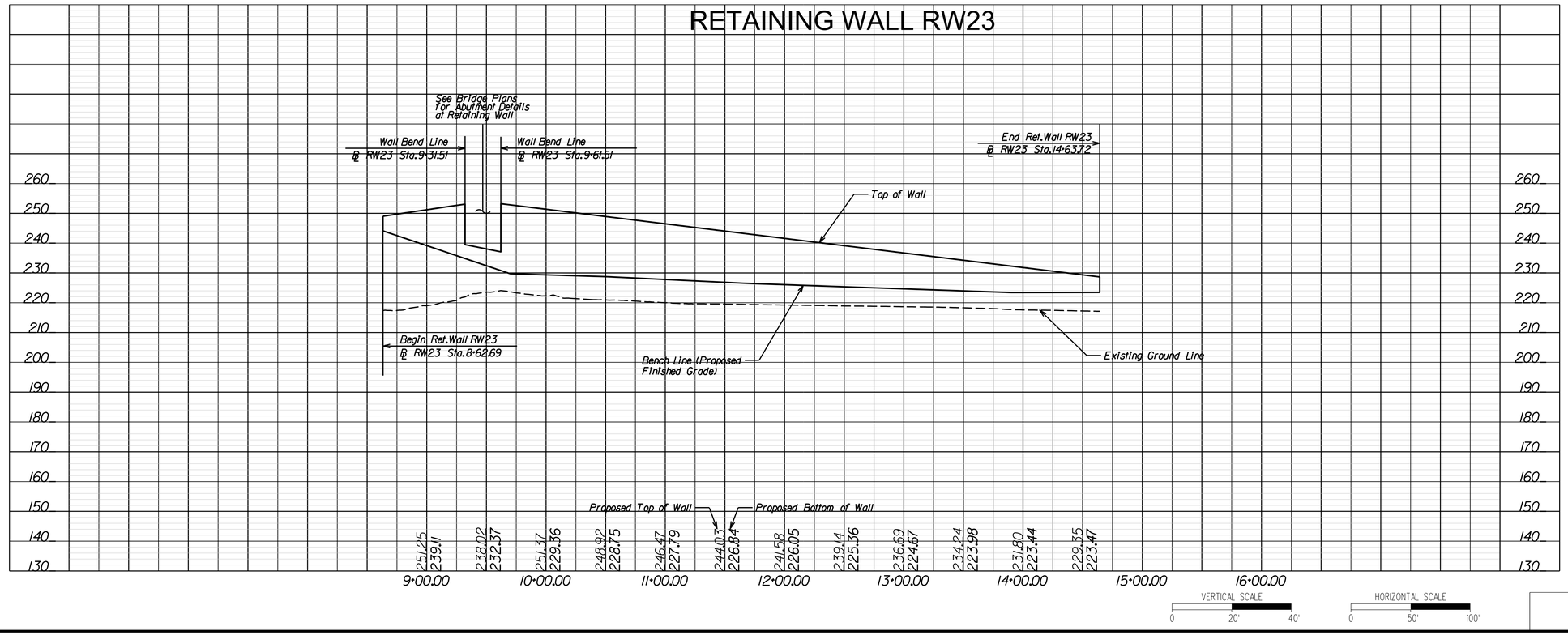
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	78

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



RETAINING WALL RW23



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	78

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

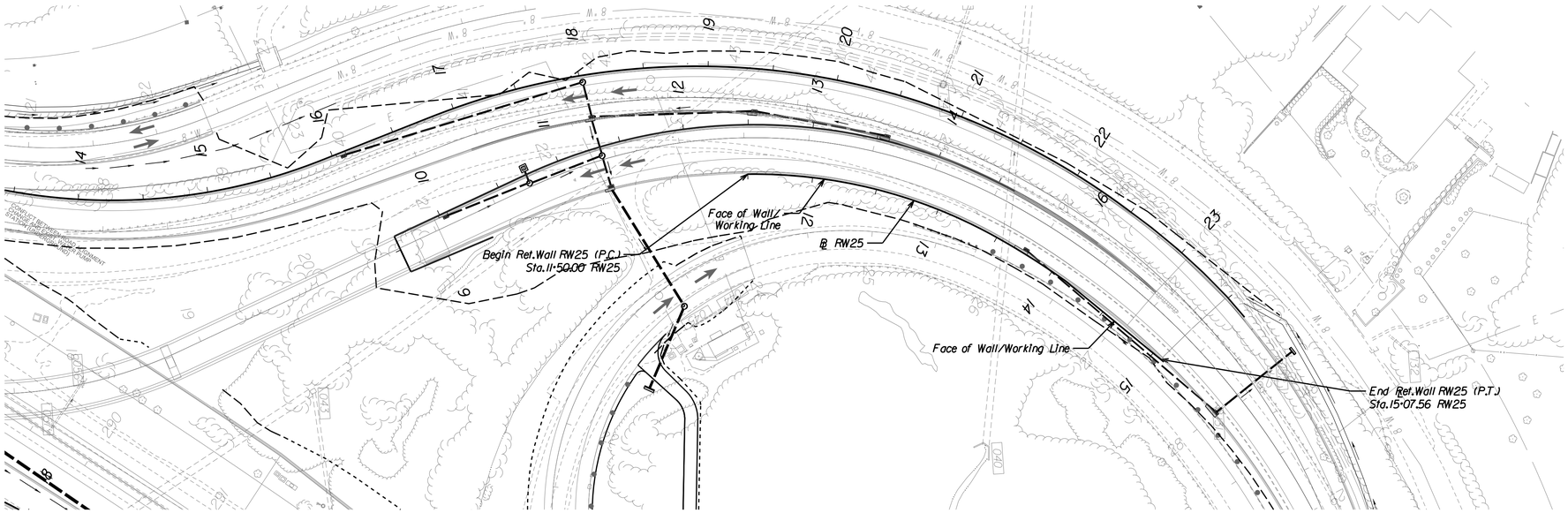
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

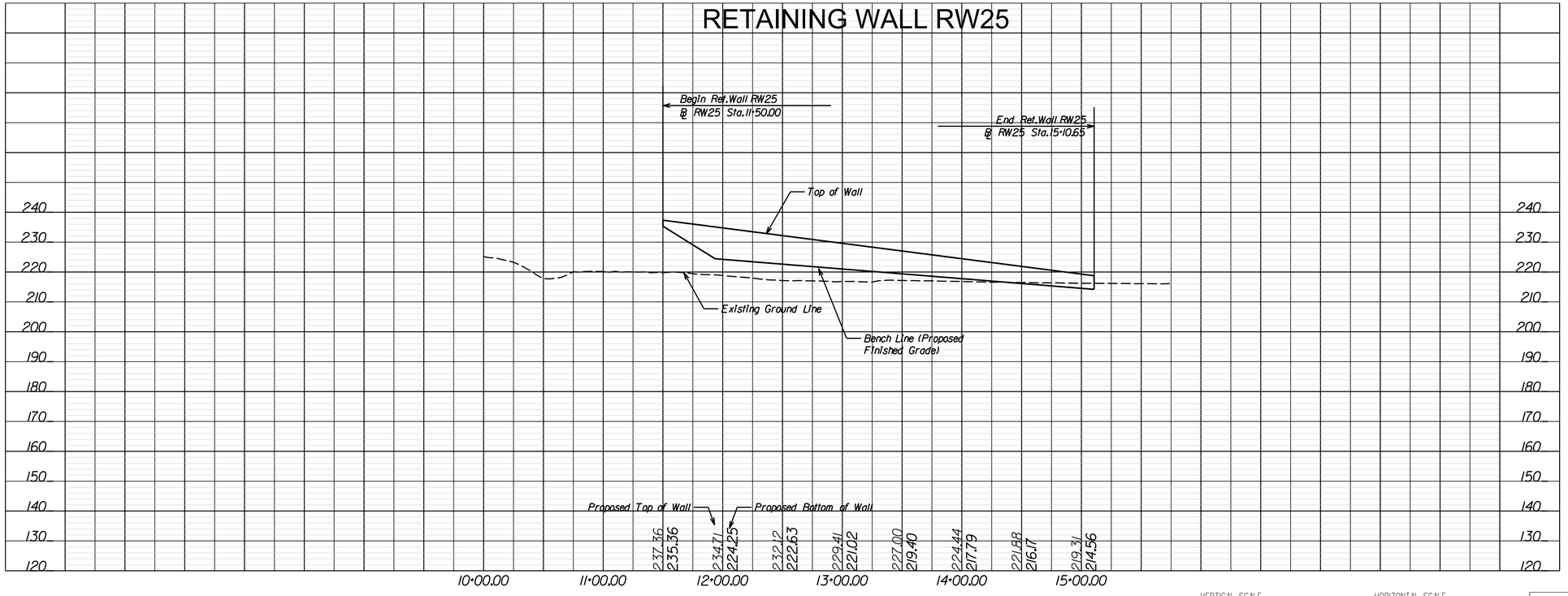
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	79

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



RETAINING WALL RW25



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	79

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

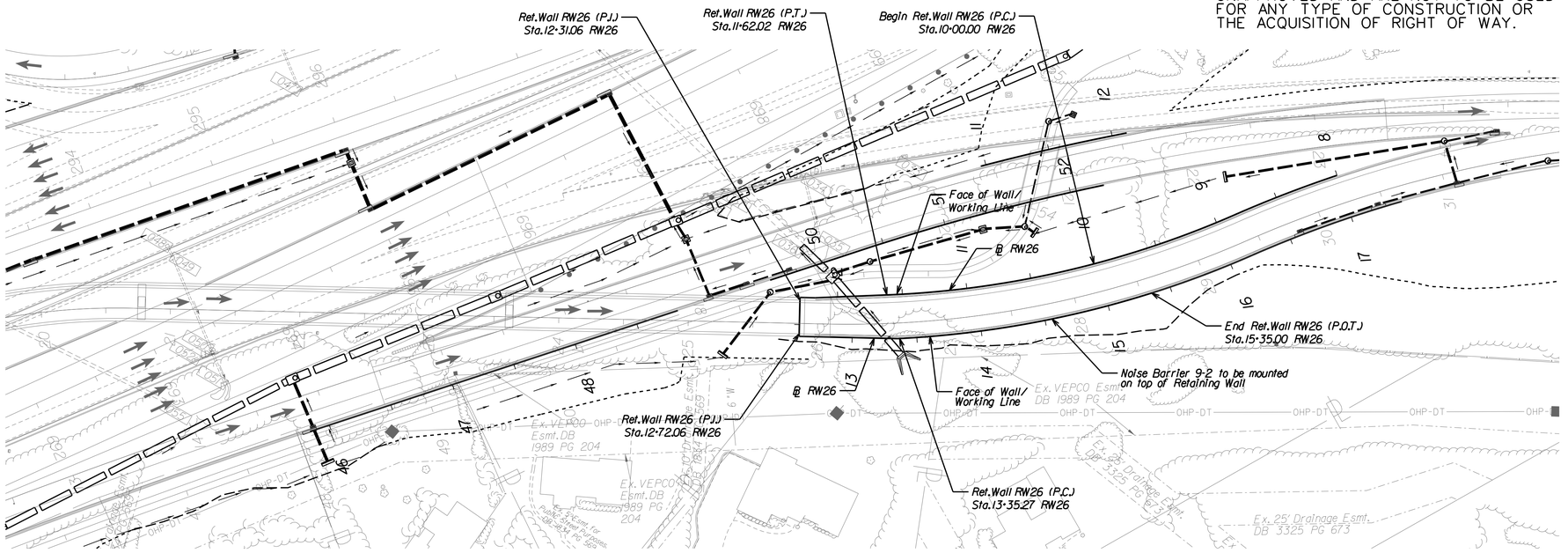
ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

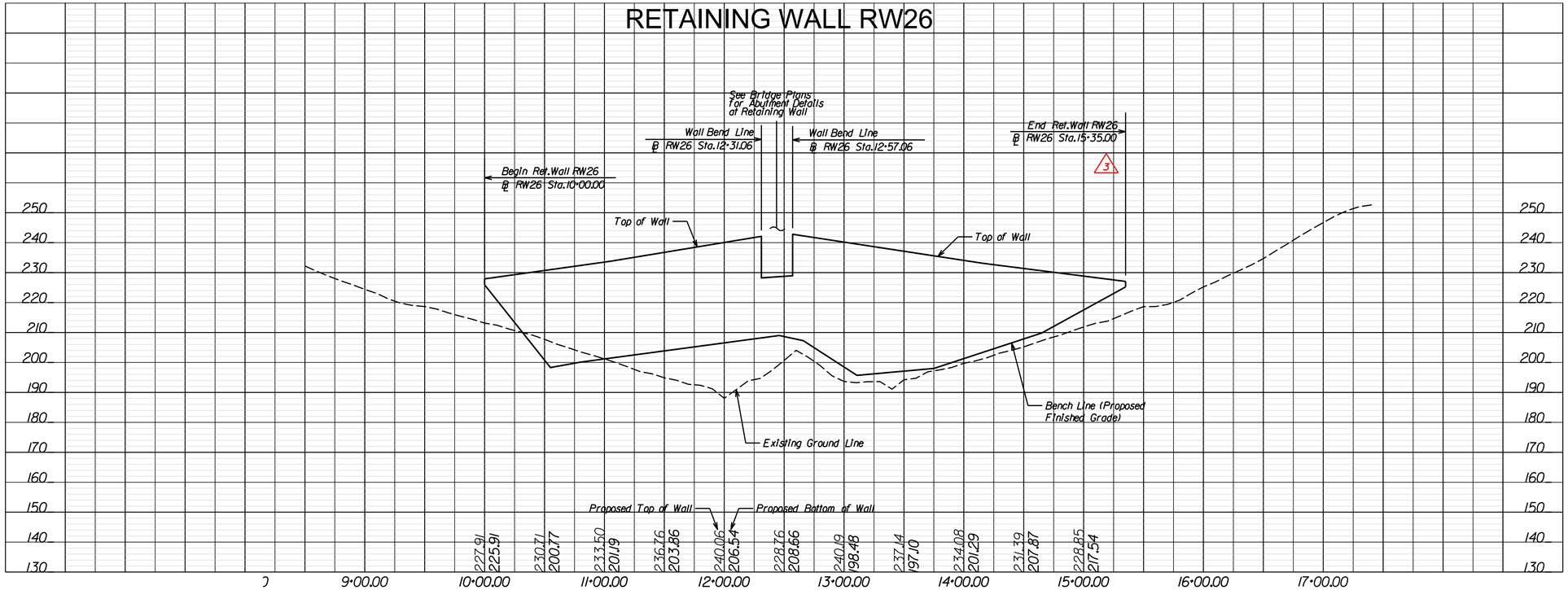
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	80

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

REVISIONS		
No.	Description	Date
3	Removed Retaining Wall Mounted Noise Barrier from RW26	03/09/2021



RETAINING WALL RW26



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	80

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _
DESIGN BY _ HDR Engineering _
SUBSURFACE UTILITY BY, DATE _ N/A _

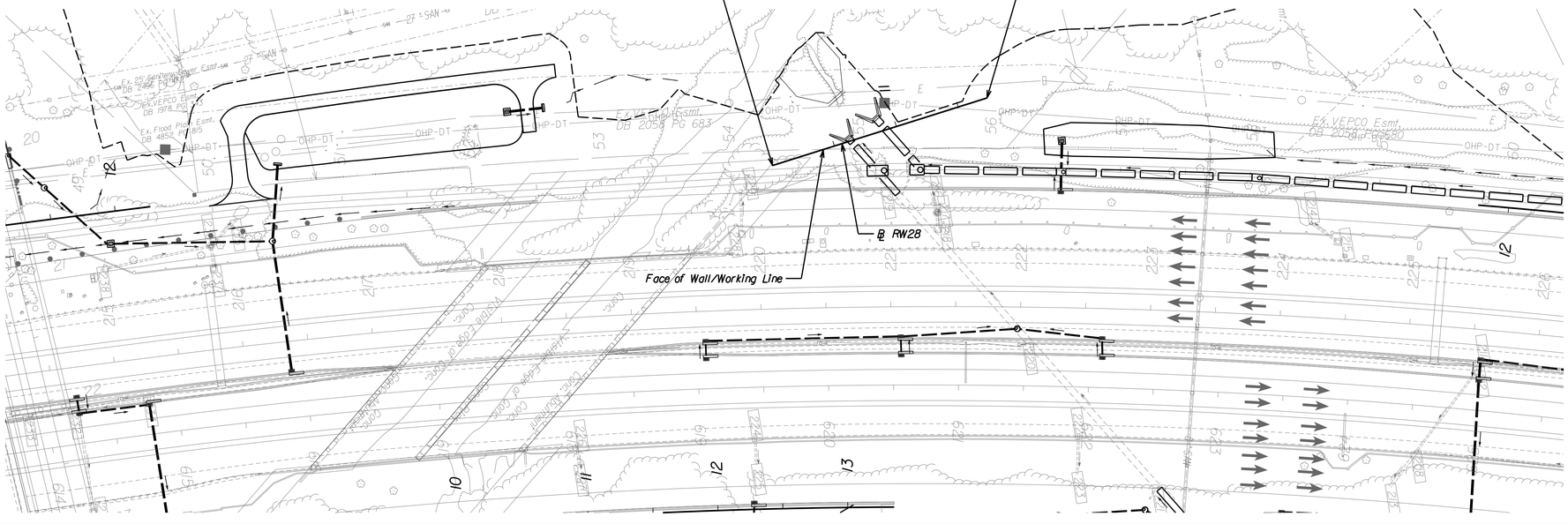
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

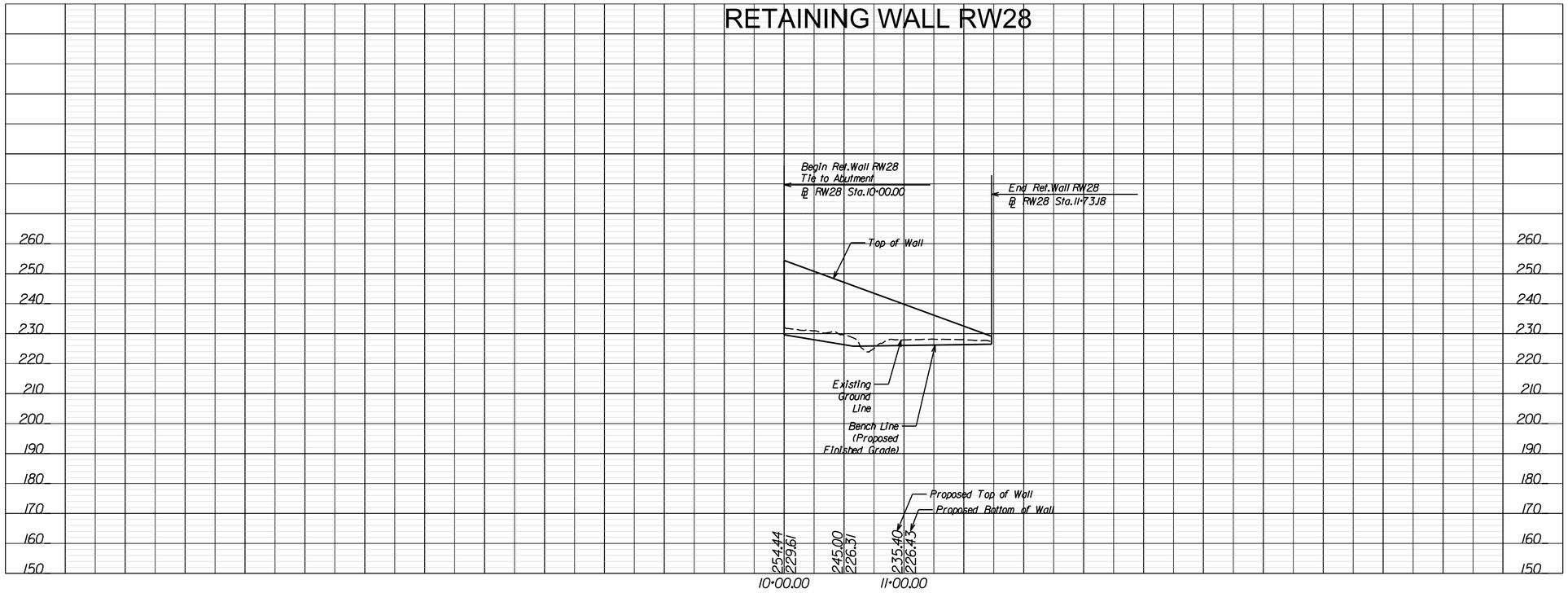
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	81

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



RETAINING WALL RW28



VERTICAL SCALE
0 20' 40'

HORIZONTAL SCALE
0 50' 100'

PROJECT	SHEET NO.
0495-029-419	81

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

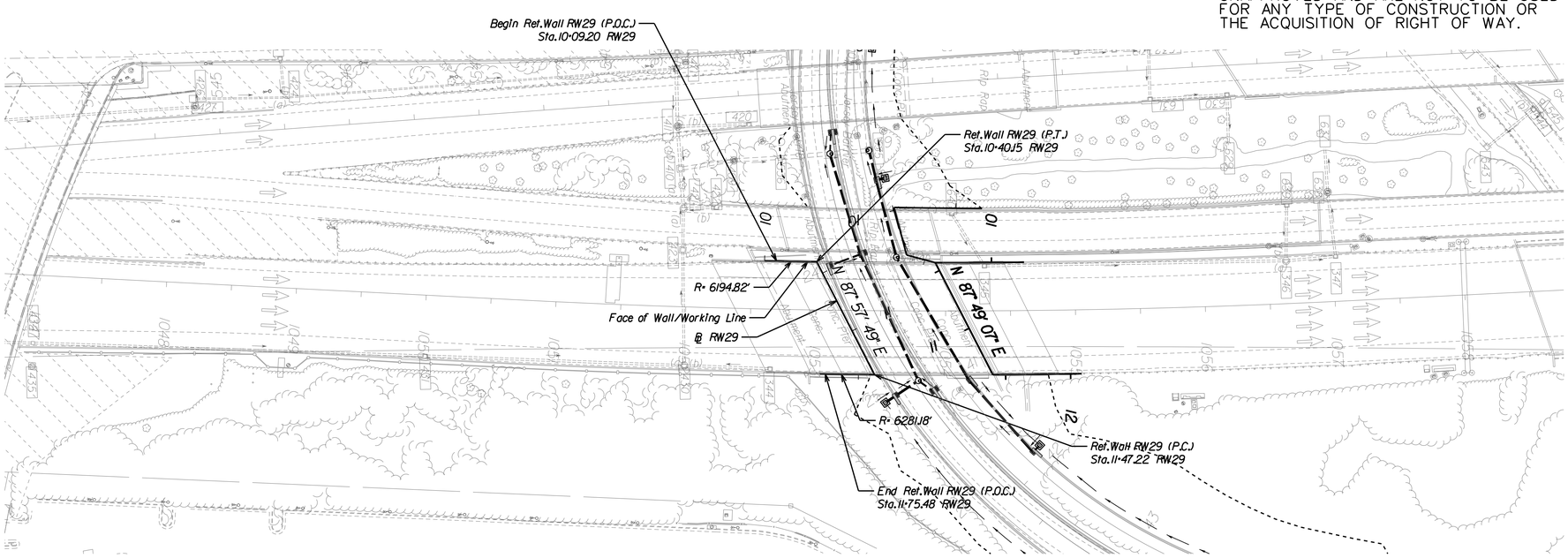
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

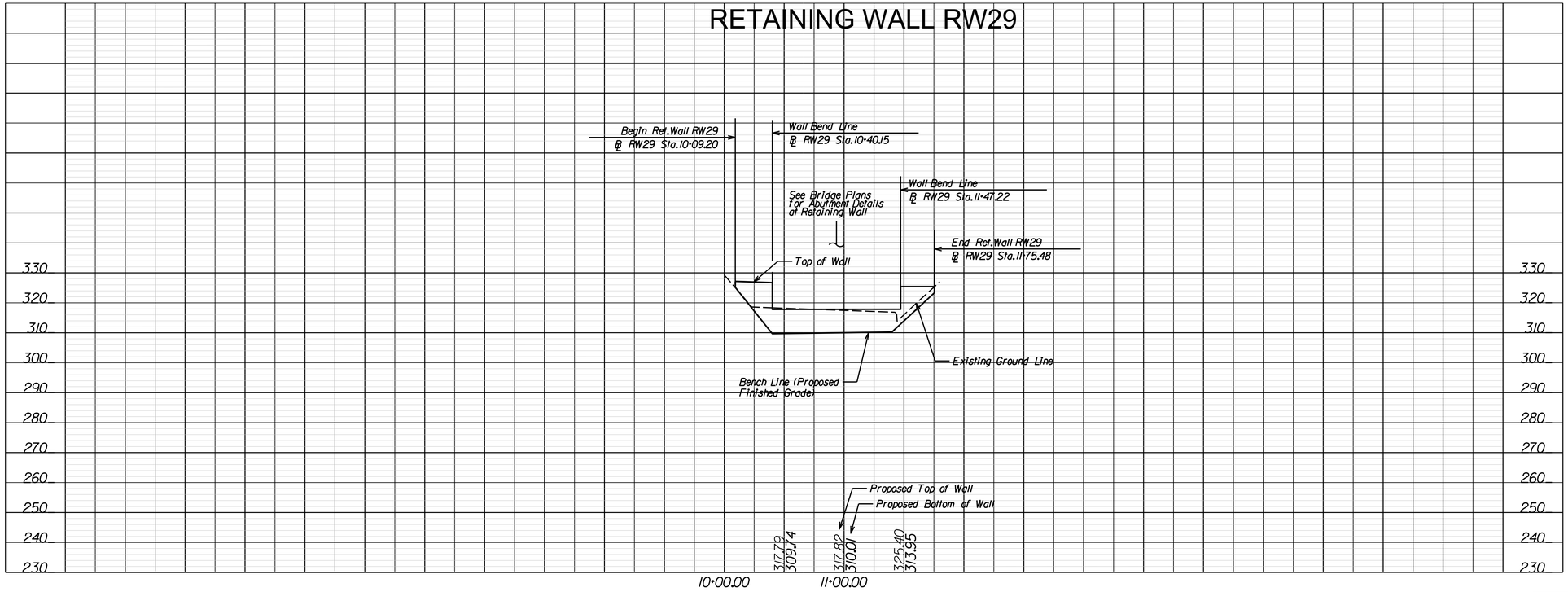
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	82

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



RETAINING WALL RW29



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	82

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	83(1)

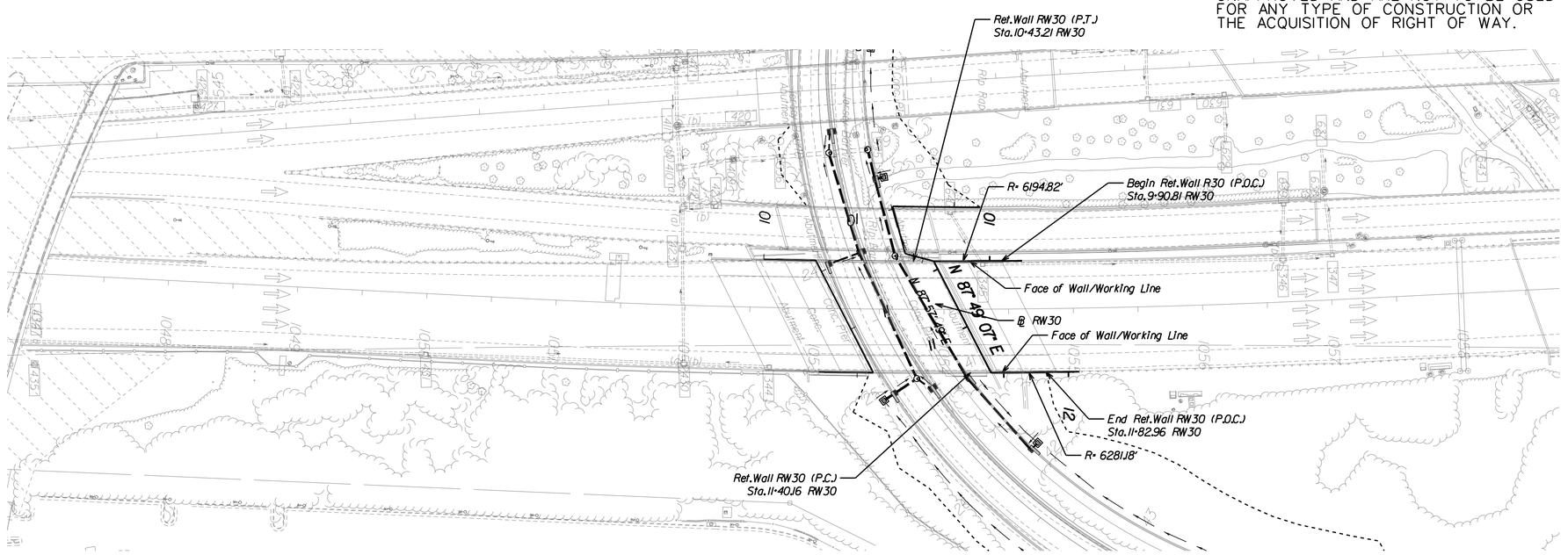
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

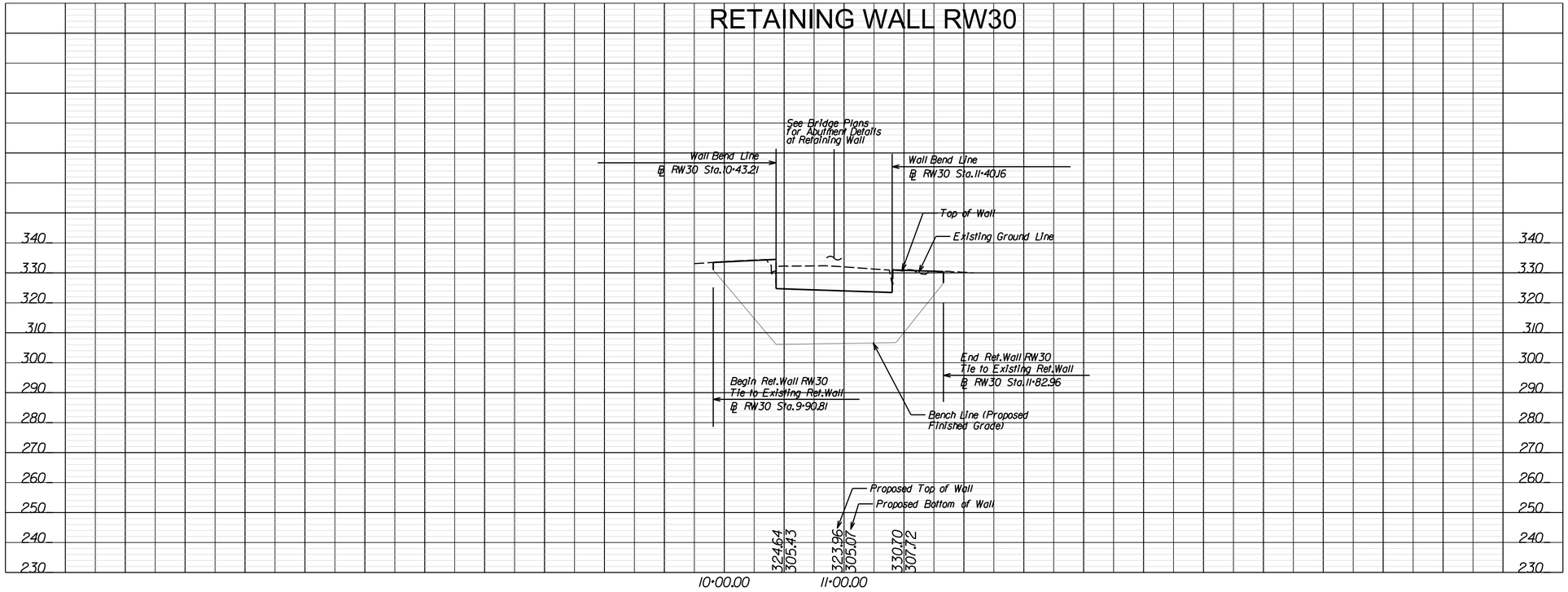
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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



RETAINING WALL RW30



VERTICAL SCALE
0 20' 40'

HORIZONTAL SCALE
0 50' 100'

PROJECT	SHEET NO.
0495-029-419	83(1)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

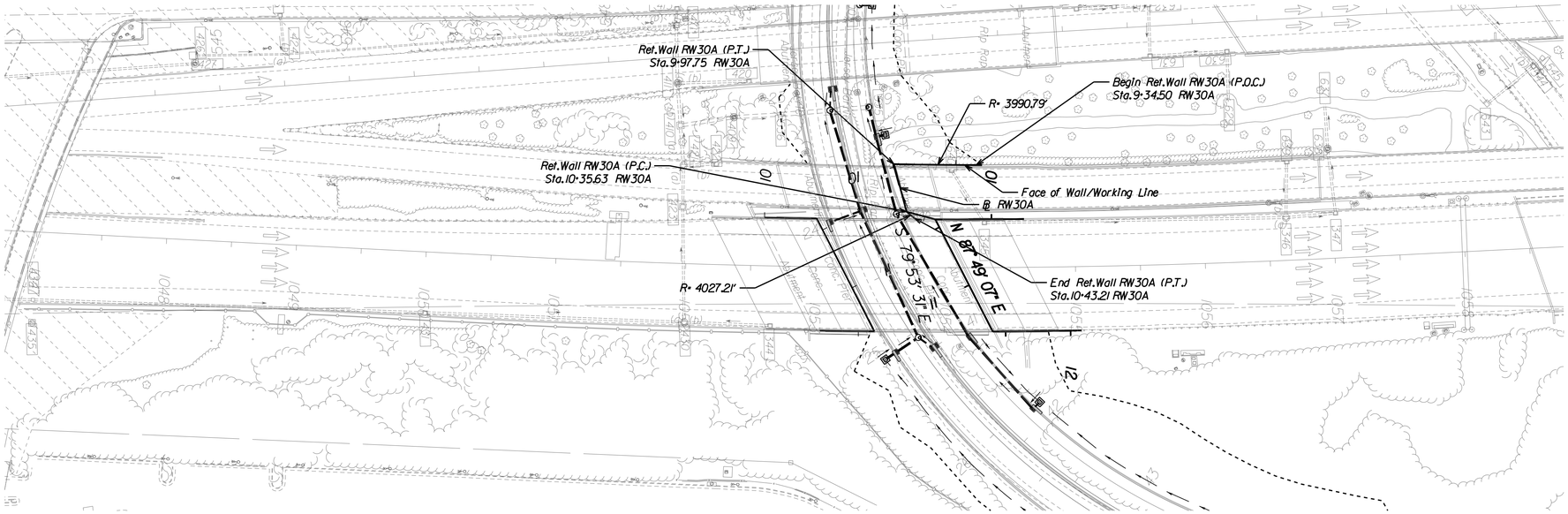
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

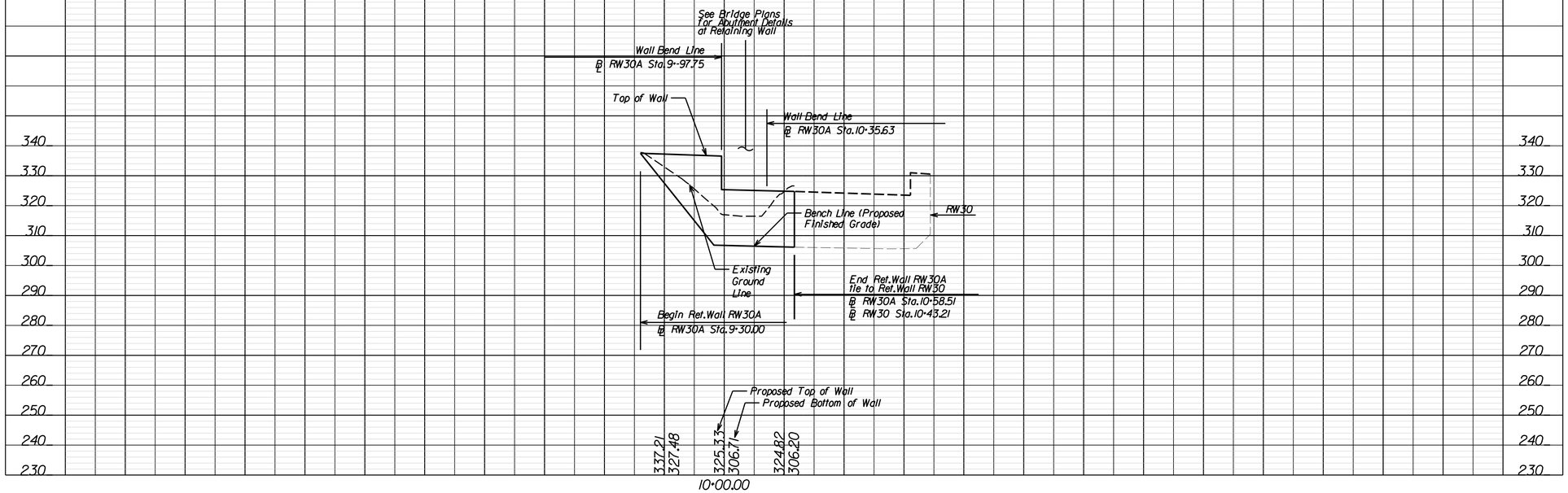
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	83(2)

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



RETAINING WALL RW30A



VERTICAL SCALE
0 20' 40'

HORIZONTAL SCALE
0 50' 100'

PROJECT	SHEET NO.
0495-029-419	83(2)

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

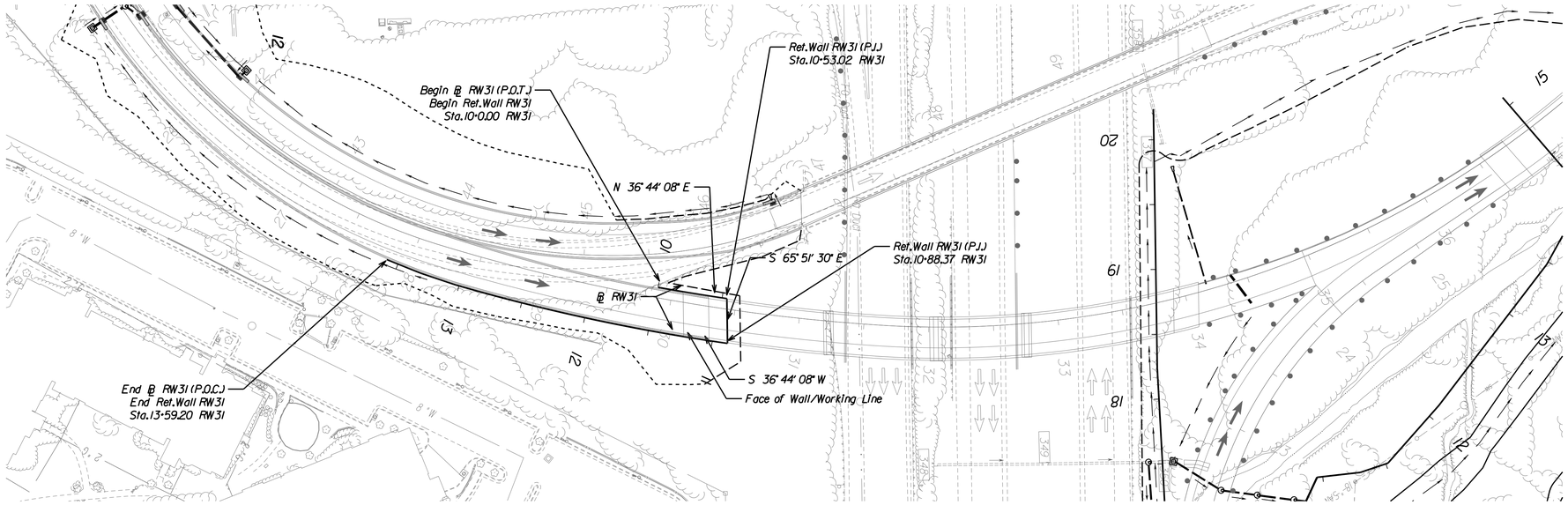
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

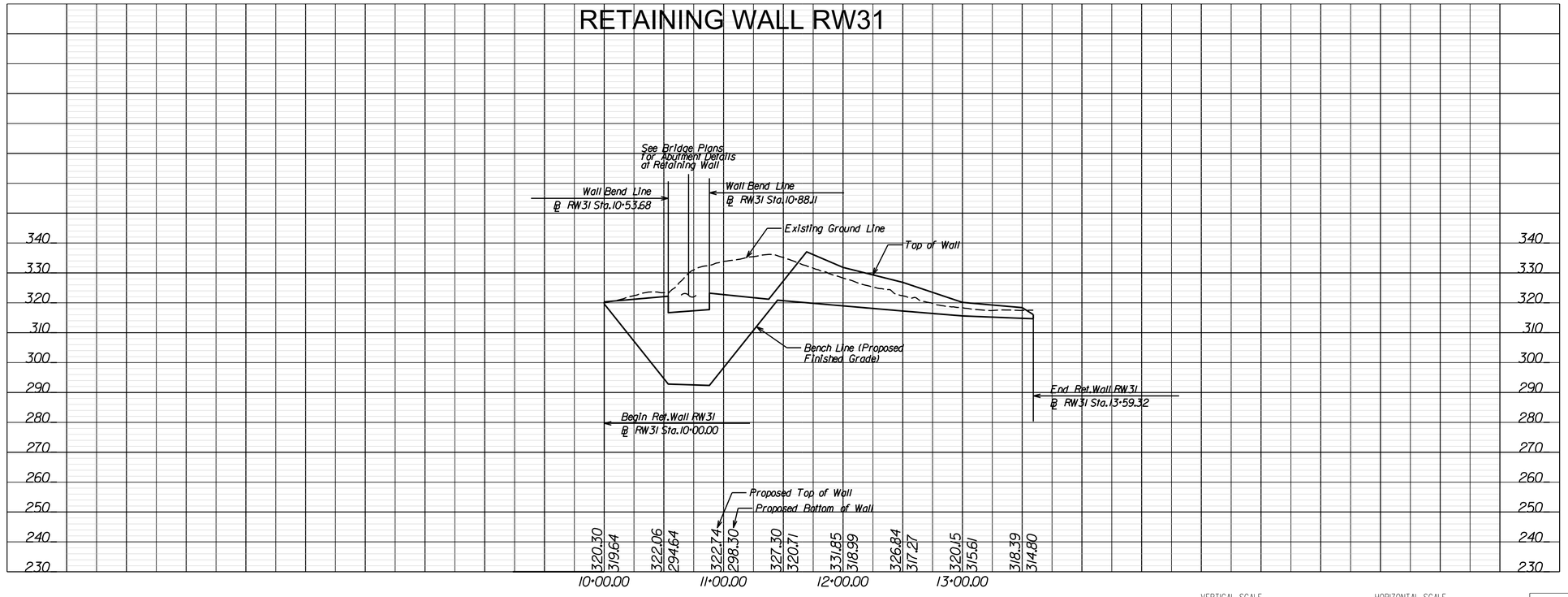
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	84

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



RETAINING WALL RW31



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	84

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

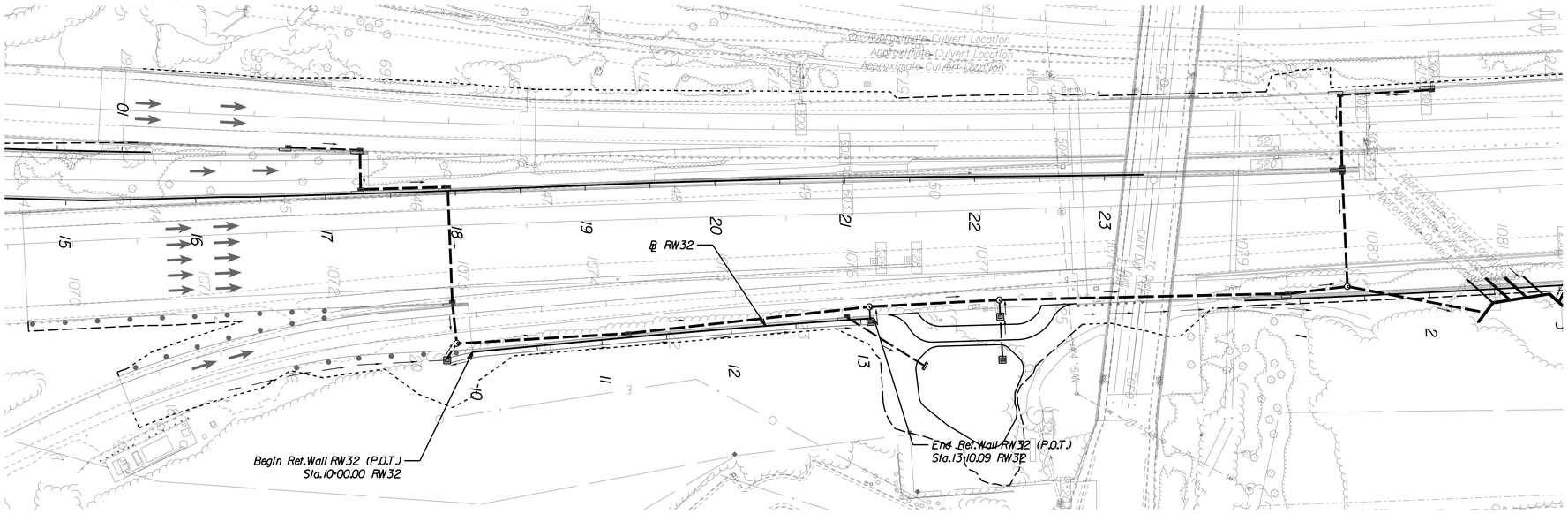
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

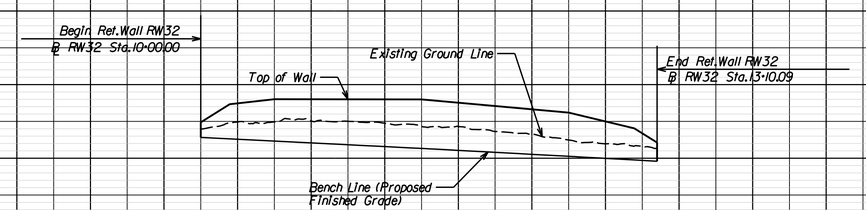
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	85

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



RETAINING WALL RW32



340 330 320 310 300 290 280 270 260 250 240 230 220

10+00.00	11+00.00	12+00.00	13+00.00
289.75 / 285.64	296.03 / 284.65	296.00 / 283.65	295.97 / 282.65
		294.18 / 281.59	292.40 / 280.52
			286.76 / 279.40

VERTICAL SCALE 0 20' 40'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	85

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

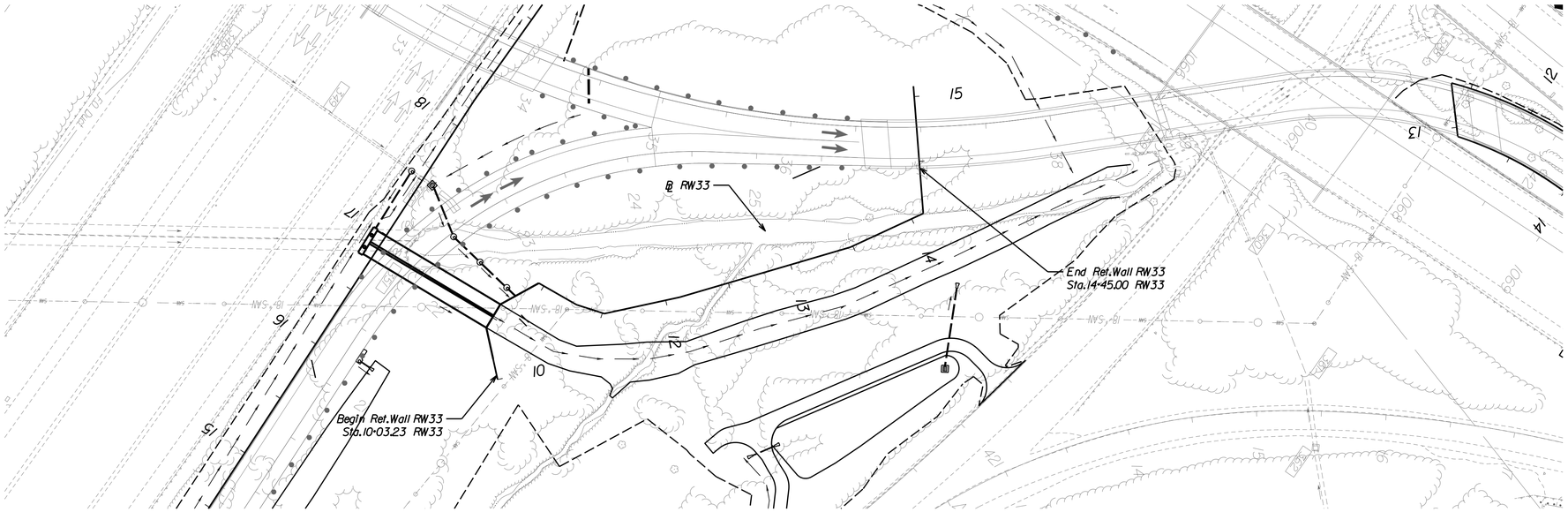
RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

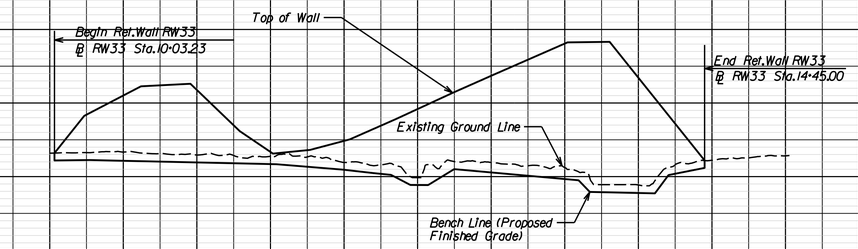
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	86

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



RETAINING WALL RW33



	10+00.00	11+00.00	12+00.00	13+00.00	14+00.00	15+00.00
Proposed Top of Wall	292.04 274.30	293.55 273.86	276.30 273.41	279.69 271.84	288.35 267.72	297.40 271.14	306.16 269.35	296.88 265.54
Proposed Bottom of Wall								

VERTICAL SCALE 0 20' 40'
HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	86

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

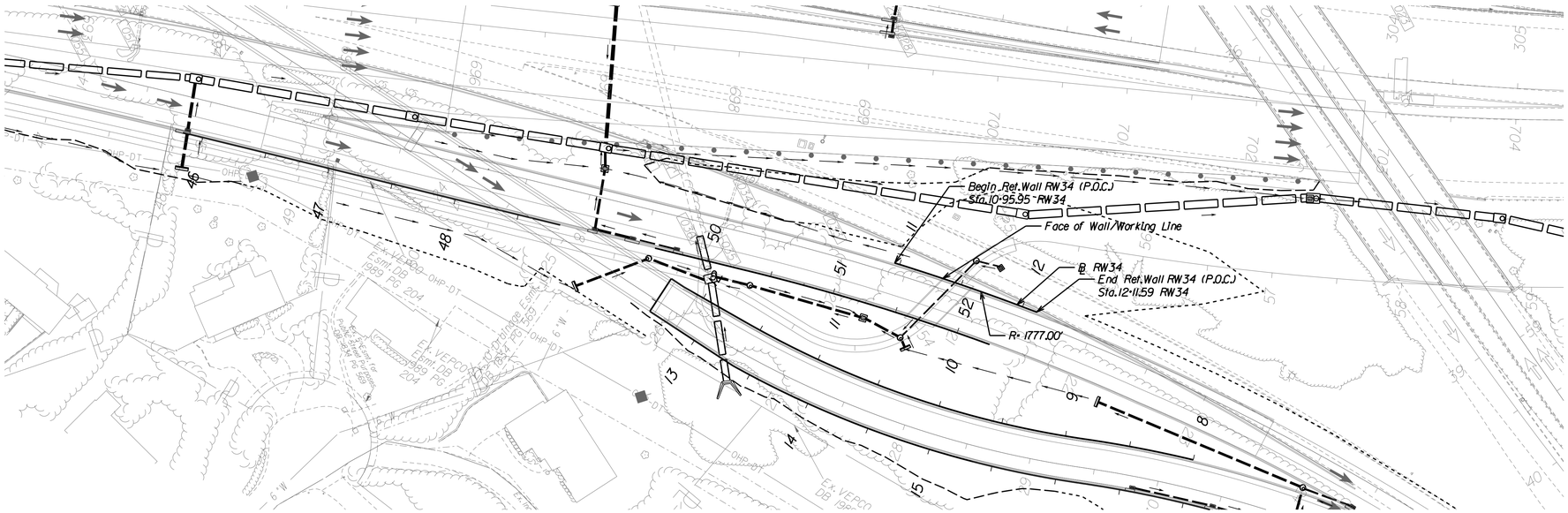
RFP CONCEPTUAL PLANS REVISION No. 4 DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

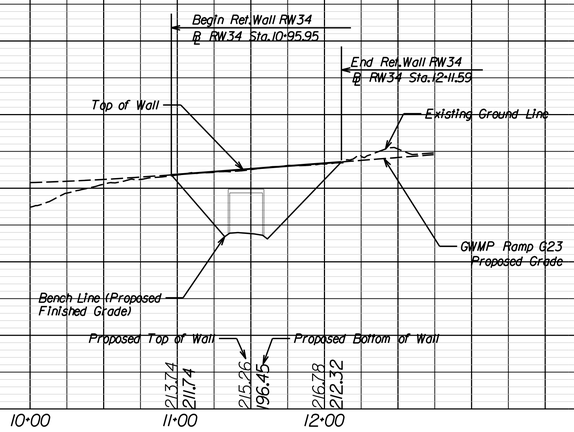
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	87

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



RETAINING WALL RW34



VERTICAL SCALE 0 20' 40'

HORIZONTAL SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	87

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
CCIA	TOLL & TRAFFIC MANAGEMENT PLAN LOCATION MAP
CCIB	TOLL & TRAFFIC MANAGEMENT PLAN INDEX OF SHEETS
CC2A	TOLL & TRAFFIC MANAGEMENT PLAN GENERAL NOTES
CC2B	TOLL & TRAFFIC MANAGEMENT PLAN LEGEND
CC2C1	TOLL & TRAFFIC MANAGEMENT CONDUIT CROSS SECTIONS
CC2C2	TOLL & TRAFFIC MANAGEMENT CONDUIT CROSS SECTIONS
CC3	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC4	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC5	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC6	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC7	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC8	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC9	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC10	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC11	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC12	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC13	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC14	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC15	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC15A	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC15B	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC15C	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC15D	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC15E	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC16	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC16A	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC16B	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC16C	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC17	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC18	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC19	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC20	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC20A	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC20B	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC20C	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC20D	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC21	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC22	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC23	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC24	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC25	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS
CC26	TOLL & TRAFFIC MANAGEMENT PLAN SITE PLANS

SHEET NO.	DESCRIPTION
CC(A1)	TOLL & TRAFFIC MANAGEMENT PLAN STEEL POLE DETAIL (GROUND MOUNTED)
CC(A2)	TOLL & TRAFFIC MANAGEMENT PLAN STEEL POLE DETAIL (BARRIER WALL MOUNTED)
CC(A3)	TOLL & TRAFFIC MANAGEMENT PLAN CONCRETE POLE DETAIL (GROUND MOUNTED)
CC(A4)	TOLL & TRAFFIC MANAGEMENT PLAN DETECTOR POLE DETAIL
CC(B1)	TOLL & TRAFFIC MANAGEMENT PLAN CABINET FOUNDATION DETAIL
CC(B2)	TOLL & TRAFFIC MANAGEMENT PLAN SPLICE PEDESTAL AND POLE MOUNTED CABINET DETAIL
CC(C1)	TOLL & TRAFFIC MANAGEMENT PLAN CIRCULAR JUNCTION BOX DETAIL
CC(D1)	TOLL & TRAFFIC MANAGEMENT PLAN TYPICAL CONDUIT ROUTING ON DMS SIGN STRUCTURE
CC(E1)	TOLL & TRAFFIC MANAGEMENT PLAN ITS EQUIPMENT AND CABINET SCHEDULE
CC(E2)	TOLL & TRAFFIC MANAGEMENT PLAN ITS EQUIPMENT AND CABINET SCHEDULE
CC(F1)	TOLL & TRAFFIC MANAGEMENT PLAN COMMUNICATION ARCHITECTURE DIAGRAM
CC(F2)	TOLL & TRAFFIC MANAGEMENT PLAN COMMUNICATION BLOCK DIAGRAM
CC(F3)	TOLL & TRAFFIC MANAGEMENT PLAN COMMUNICATION BLOCK DIAGRAM
CC(F4)	TOLL & TRAFFIC MANAGEMENT PLAN COMMUNICATION BLOCK DIAGRAM
CC(F5)	TOLL & TRAFFIC MANAGEMENT PLAN COMMUNICATION BLOCK DIAGRAM
CC(F6)	TOLL & TRAFFIC MANAGEMENT PLAN COMMUNICATION BLOCK DIAGRAM
CC(F7)	TOLL & TRAFFIC MANAGEMENT PLAN COMMUNICATION BLOCK DIAGRAM
CC(F8)	TOLL & TRAFFIC MANAGEMENT PLAN COMMUNICATION BLOCK DIAGRAM
CC(F9)	TOLL & TRAFFIC MANAGEMENT PLAN COMMUNICATION BLOCK DIAGRAM
CC(G1)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G2)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G3)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G4)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G5)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G6)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G7)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G8)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G9)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G10)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G11)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G12)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(G13)	TOLL & TRAFFIC MANAGEMENT PLAN POWER DISTRIBUTION DIAGRAM
CC(H1)	TOLL & TRAFFIC MANAGEMENT PLAN TYPICAL GENERATOR SITE DETAIL
CC(H2)	TOLL & TRAFFIC MANAGEMENT PLAN SE-5 MODIFIED SERVICE PANEL DETAIL
CC(H3)	TOLL & TRAFFIC MANAGEMENT PLAN SE-9 TYPE "A" MOD W/GEN.SERVICE PANEL DETAIL
CC(H4)	TOLL & TRAFFIC MANAGEMENT PLAN SERVICE PANEL W/GENERATOR DETAIL
CC(H5)	TOLL & TRAFFIC MANAGEMENT PLAN SE-9 TYPE "B" SERVICE PANEL DETAIL
CC(H6)	TOLL & TRAFFIC MANAGEMENT PLAN STANDALONE METER DETAIL
CC(H7)	TOLL & TRAFFIC MANAGEMENT PLAN CONTROL CENTER WIRING DETAILS
CC(H8)	TOLL & TRAFFIC MANAGEMENT PLAN PROPANE TANK DETAIL
CC(H9)	TOLL & TRAFFIC MANAGEMENT PLAN GENERATOR CONNECTION DIAGRAM
CC(H10)	TOLL & TRAFFIC MANAGEMENT PLAN TYPICAL COMMUNICATION HUB EQUIPMENT CABINET DETAIL

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CCIB

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CCIB

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC2A

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

GENERAL NOTES FOR TOLL AND TRAFFIC MANAGEMENT WORK:

1. COORDINATION OF WORK IMPACTING EXISTING VDOT TRAFFIC MANAGEMENT SYSTEMS SHALL BE CONDUCTED IN ACCORDANCE WITH THE TERMS OF THE VDOT TURNOVER PLAN AND ALL RELATED ADDENDA.
2. ALL VDOT AND TRANSURBAN FIBER OPTIC AND COMMUNICATIONS CABLES SHALL REMAIN IN PLACE AND OPERATIONAL UNLESS OTHERWISE NOTED ON THE PLANS.
3. EXISTING VDOT AND TRANSURBAN TRAFFIC MANAGEMENT SYSTEM EQUIPMENT IS SHOWN ON THE PLANS. NOT ALL LOCATIONS HAVE BEEN FIELD VERIFIED. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND OPERATIONS PRIOR TO COMMENCING WORK THAT WILL IMPACT THE SYSTEM.
4. THE DESIGN BUILDER SHALL NOTIFY THE TRANSURBAN ENGINEER OF EQUIPMENT THAT IS NOT OPERATIONAL PRIOR TO THE START OF WORK THAT WILL IMPACT THE SYSTEM. TRANSURBAN WILL RESTORE OPERATION OF THE EQUIPMENT PRIOR TO THE START OF WORK OR WILL OTHERWISE EXEMPT THE CONTRACTOR FROM ANY REQUIRED MAINTENANCE OF THE EQUIPMENT.
5. EXISTING VDOT AND TRANSURBAN TRAFFIC MANAGEMENT SYSTEM EQUIPMENT SHALL REMAIN IN SERVICE EXCEPT AS NOTED ON THE PLANS OR OTHERWISE APPROVED BY THE VDOT AND TRANSURBAN ENGINEER.
6. TRAFFIC MANAGEMENT SYSTEM EQUIPMENT THAT IS FOUND DURING THE COURSE OF CONSTRUCTION, THAT IS NOT SHOWN IN THESE PLANS, SHALL BE GOVERNED BY THE SAME PROVISIONS OF THESE GENERAL NOTES.
7. COMMUNICATION CABLES SHALL ONLY BE SPLICED IN EQUIPMENT CABINETS AND PEDESTALS, UNLESS OTHERWISE NOTED ON THE PLANS.
8. PULL WIRES UNCUT BETWEEN THE SERVICE PANEL AND THE EQUIPMENT CABINET. SPLICING IS ONLY PERMITTED IN JUNCTION BOX WHEN THE LENGTH EXCEEDS THE AMOUNT ON A STANDARD REEL, OR WHERE SHOWN ON THE PLANS. ENGINEER APPROVED SPLICE KITS MUST BE USED FOR SUCH SPLICES.
9. IN THE EVENT THAT VDOT AND TRANSURBAN COMMUNICATION CABLE IS DAMAGED DUE TO CONSTRUCTION ACTIVITY, NOTIFY VDOT AND TRANSURBAN IMMEDIATELY AND REPLACE ALL EXISTING CABLES IN KIND AT THE CONTRACTOR'S EXPENSE.
10. COORDINATE WITH VDOT AND TRANSURBAN FOR ANY THIRD PARTY CABLE RELOCATION.
11. COORDINATE WITH VDOT AND TRANSURBAN FOR ACCESS TO EXISTING TRAFFIC MANAGMENT SYSTEM EQUIPMENT CABINETS.
12. ELECTRONIC COORDINATE DATA FOR CONDUIT AND JUNCTION BOX INSTALLATION WILL BE PROVIDED BY THE DESIGN BUILDER'S ENGINEER TO THE DESIGN BUILDER'S INSTALLATION CONTRACTOR AND TRANSURBAN FOLLOWING AFC PLANS.
13. ELECTRICAL SERVICE DROP LOCATIONS SHOWN ARE APPROXIMATE LOCATIONS. FINAL LOCATIONS SHALL BE ESTABLISHED BY COORDINATING WITH VDOT, TRANSURBAN AND DOMINION POWER, AND WITH THE APPROVAL OF THE DESIGN-BUILDER'S PROJECT ENGINEER.
14. PLANS RELATED TO EXISTING VDOT AND TRANSURBAN TRAFFIC MANAGEMENT SYSTEM, COMMUNICATIONS, AND INFRASTRUCTURE (CONDUITS, JUNCTION BOXES) HAVE BEEN PREPARED USING A COMBINATION OF ORIGINAL DESIGN DRAWINGS, AS-BUILT DRAWINGS, AND SUPPLEMENTAL INFORMATION PROVIDED BY VDOT AND TRANSURBAN. ALL INFORMATION IS SUBJECT TO FIELD VERIFICATION UNLESS OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR SHALL CONTACT VDOT AND TRANSURBAN TO HAVE VDOT AND TRANSURBAN ASSIST AND VERIFY EXISTING SYSTEM INFORMATION INCLUDING EXISTING COMMUNICATIONS CABLE ROUTING AND FIBER SPLICING/TERMINATIONS AS NEEDED TO COMPLETE THE WORK DETAILED IN THESE PLANS.
15. FOR ALL EXISTING DMS, SEE SIGNING PLANS FOR STATIC PANEL OVERLAY OR REPLACEMENT.
16. FOR ITS DEVICE DISTRIBUTION FIBER RING, A MAXIMUM OF 7 LAYER 2 SWITCHES SHALL BE ALLOWED PER DISTRIBUTION RING.
17. ARMORED FIBER OPTIC CABLE SHALL BE GROUNDED AT ALL SPLICE AND TERMINATION POINTS.
18. ALL ITS ROADSIDE CABINETS AND GENERATOR/SERVICE LOCATIONS SHALL HAVE CYBERLOCKS FOR PHYSICAL SECURITY.
19. PROVIDE TELEMETRY EQUIPMENT AT EACH EXPRESS LANES SERVICE PANEL TO REPORT THE CURRENT AND BREAKER STATUS OF EACH CIRCUIT AND MAIN POWER.
20. TRAFFIC MONITORING SENSORS SHALL BE ABLE TO COLLECT ACCURATE DATA FOR BOTH EXPRESS LANES AND GP LANES, WHILE BEING OPTIMIZED FOR DETECTION OF THE EXPRESS LANES.

CONDUIT INSTALLATION NOTES:

1. CONDUIT SHALL BE DIRECTIONALLY BORED WHERE THE PLANS SHOW BORED CONDUIT.
2. CONDUIT SHOWN AS TRENCHED OR ATTACHED TO BRIDGE STRUCTURES MAY BE BORED ONLY WITH THE APPROVAL OF THE DESIGN-BUILDER'S PROJECT ENGINEER.
3. CONDUIT SHALL BE STAKED OUT USING ELECTRONIC COORDINATE DATA TO BE PROVIDED BY THE DESIGN BUILDER'S ENGINEER FOLLOWING AFC PLANS. FINAL LAYOUT OF CONDUIT SHALL BE ADJUSTED IN THE FIELD AS NEEDED TO CONFORM TO FIELD CONDITIONS AND UTILITIES AS MARKED.
4. LOCATIONS OF EXISTING JUNCTION BOXES, MANHOLES AND CONDUIT SYSTEM SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
5. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR ("EGC") IN ALL NON-METALLIC POWER CONDUITS EXCEPT SPARES. THE "EGC" SIZE SHALL BE THE SAME AS THE LARGEST POWER CONDUCTOR IN THE CONDUIT, BUT NO SMALLER THAN #8.
6. INSTALL 3-INCH, 3-CELL TEXTILE INNERDUCT IN ALL 4" EXISTING AND PROPOSED COMMUNICATION CONDUITS IN WHICH CABLES ARE INSTALLED, EXCEPT MULTIDUCT AND CONDUITS UNDER 20' LONG. PROVIDE ENOUGH 3-CELL PACKS, UP TO THREE, SO THAT EACH CABLE IS IN A SEPARATE CELL.
7. TRENCH EXCAVATION IN EARTH AREAS SHALL CONFORM TO STANDARD DRAWING EC-1 UNLESS OTHERWISE NOTED. THE REQUIRED DEPTH OF THE TRENCH IS MEASURED FROM THE LOW POINT OF THE SLOPE ABOVE.
8. USE EXISTING CONDUIT STUB-OUTS WHERE AVAILABLE IN LIEU OF INSTALLING NEW CONDUIT INTO EXISTING MANHOLES, JUNCTION BOXES, AND FOUNDATIONS.
9. USE FRE CONDUIT FOR EXPOSED HORIZONTAL RUNS ON BRIDGES, RIGID GALVANIZED STEEL (RGS) CONDUIT FOR OTHER EXPOSED RUNS, HDPE (PER VDOT STANDARD SPEC SECTION 812) CONDUIT FOR TRENCH RUNS, RIGID GALVANIZED STEEL CONDUIT FOR CONDUIT RUNS BETWEEN SERVICE PANEL AND CLOSEST JUNCTION BOX, AND HDPE CONDUIT FOR BORED RUNS.
10. COORDINATE ALL WORK WITH OTHER CONTRACTORS TO AVOID CONFLICTS WITH OTHER WORK. CONDUITS SHALL AVOID BRIDGE PIERS, ABUTMENTS, GUARDRAILS, FOUNDATIONS, AND OTHER CIVIL WORKS.
11. 2' SEPARATION SHALL BE MAINTAINED BETWEEN THE TRENCH RUNNING LINE AND EXISTING/PROPOSED GUARDRAIL.
12. USE THE FOLLOWING PROCEDURES BEFORE SPLICING EXISTING VDOT AND TRANSURBAN TRUNK AND DISTRIBUTION CABLES:
    - ENSURE THAT ALL NEW CONDUITS AND PEDESTALS ARE IN PLACE AND READY TO SPLICE
    - ENSURE THAT ALL SPLICE CABINETS ARE IN PLACE WITH ALL SPLICE TRAYS OR ENCLOSURES READY TO INSTALL.
    - NOTIFICATION OF ACTIVITIES SHALL BE IN ACCORDANCE WITH THE VDOT TURNOVER PLAN AND ALL RELATED ADDENDA AND THE AUTHORIZATION TO WORK FORM/PROCESS.
    - SEEK VDOT'S AND TRANSURBAN'S AGREEMENT ON MUTUALLY AGREED TIME AND DURATION OF OUTAGE TO PERFORM THE SPLICING ACTIVITY.
13. UTILITY DEPTHS AT PROPOSED CONDUIT CROSSINGS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. CONDUIT SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 3' FROM ANY UNDERGROUND UTILITY. DEVIATION FROM THE PRESCRIBED CLEARANCE WILL BE ALLOWED ONLY WITH THE APPROVAL OF THE VDOT AND TRANSURBAN ENGINEER.

CONDUIT INSTALLATION NOTES (CONT'D.)

14. DIRECTIONAL BORING UNDER ROADWAY SHALL BE AT A MINIMUM DEPTH OF 5' BELOW SURFACE ELEVATION.
15. ALL CONDUIT AND JUNCTION BOXES SHALL BE INSTALLED AS SHOWN ON THE PLANS UNLESS FIELD CONDITIONS REQUIRE MODIFICATIONS WHERE CONDUIT IS SHOWN BETWEEN THE HOV/HOT LANES AND GP LANES, THE CONTRACTOR SHALL NOTIFY VDOT ENGINEER OF FIELD ADJUSTMENTS REQUIRING THE CONDUIT ALIGNMENT TO CROSS TO THE GP LANE SIDE OF THE DRAINAGE DITCH.
16. NEW CONDUITS INSTALLED INTO EXISTING CABINET FOUNDATIONS SHALL UTILIZE AVAILABLE STUB-OUTS. IF NO STUB-OUTS ARE AVAILABLE THE CONTRACTOR SHALL SURVEY THE CABINET FOUNDATION AND PROVIDE MEANS AND METHODS FOR CONDUIT ENTRY INTO THE CABINET TO THE VDOT AND TRANSURBAN ENGINEER FOR APPROVAL.
17. THESE PLANS ARE INTENDED TO SHOW THE MAIN CONDUIT AND CABLE RUNS ONLY. THEY DO NOT SHOW ALL CONDUIT AND CABLE DROPS TO CABINETS NOR BETWEEN CABINETS AND DEVICES. DESIGN BUILDER SHALL DEVELOP SITE PLANS AND DETAILS FOR ALL CONDUIT, BOXES, AND CABLE RUNS.
18. THE CONDUIT DUCTBANK SHALL BE ROUTED AROUND EXISTING AND PROPOSED DRAINAGE STRUCTURES (SEE ROADWAY PLANS FOR LOCATIONS). THE DESIGN BUILDER SHALL REFER TO THE TYPICAL DETAIL PROVIDED IN THESE PLANS AND EXPAND UPON IT TO PROVIDE DETAILED DRAWINGS TO ADDRESS ALL CASES.

POWER DISTRIBUTION NOTES:

1. CABLES IDENTIFIED TO BE ABANDONED SHALL BE DISCONNECTED FROM THE CABINET, SERVICE PANEL, OR MID-POINT JUNCTION BOX AS SHOWN ON THE PLANS. EACH END OF ABANDONED CABLES SHALL BE LABELED "ABANDONED" PER THE REQUIREMENTS STATED IN THE SPECIAL PROVISIONS. ABANDONED CABLES SHALL BE PULLED FROM THE SERVICE PANEL OR CABINET TO THE NEAREST JUNCTION BOX AND COILED SUCH THAT THE CABLE LABEL IS VISIBLE.
2. WHERE CABLES ARE TO BE INSTALLED IN EXISTING CONDUITS, THE CONTRACTOR MAY REMOVE AND DISPOSE OF ANY CABLES CALLED OUT ON THE PLANS TO BE ABANDONED IN ORDER TO FACILITATE INSTALLATION OF NEW CABLES.

FIELD EQUIPMENT NOTES:

1. THE CONTRACTOR SHALL ACCOUNT FOR GUARDRAIL DEFLECTION WHEN ADJUSTING ANY POLE OR EQUIPMENT LOCATIONS. THE CONTRACTOR SHALL MAINTAIN A MINIMUM SETBACK AS FOLLOWS FOR POLES, CABINETS, AND GATES:
   -NEW GUARDRAIL - 3' CLEAR DISTANCE FROM BACK OF POST.
   -EXISTING GUARDRAIL - 7' CLEAR DISTANCE FROM BACK OF POST. THE CONTRACTOR MAY REDUCE THE CLEAR DISTANCE IF THE EXISTING GUARDRAIL IS DETERMINED TO BE STRONG POST. THE CONTRACTOR SHALL PROVIDE EVIDENCE OF EXISTING GUARDRAIL TYPE TO THE DESIGN BUILDER'S ENGINEER PRIOR TO CONSTRUCTING ANY EQUIPMENT.
   -CONCRETE BARRIER - MINIMUM 3' CLEAR DISTANCE TO THE BACK OF BARRIER IF CABINET DOORS OPEN TOWARDS THE BARRIER, 6" TO BACK OF BARRIER OTHERWISE.
2. SIGN LOCATIONS ARE SHOWN FOR REFERENCE ONLY ON TOLL AND TRAFFIC MANAGEMENT SHEETS, CONDUIT INSTALLATION ON SIGN STRUCTURES SHALL BE COORDINATED WITH THE STRUCTURE DESIGNER AND FABRICATOR.
3. FOR SIGN AND POLE FOUNDATION LOCATIONS ON BARRIER, REFERENCE THE ROADWAY PLAN SHEETS.
4. THE CONTRACTOR SHALL TAKE CARE WHEN ADJUSTING POLE FOUNDATION LOCATIONS FOR POLES THAT SUPPORT AID CAMERAS TO ENSURE MODIFICATIONS TO THE DESIGN LOCATION DOES NOT RESULT IN OBSTRUCTED AID CAMERA VIEWS. THE CONTRACTOR SHALL NOTIFY THE DESIGN BUILDER'S ENGINEER OF ANY ADJUSTMENTS TO AID POLE LOCATIONS.

UTILITY NOTES:

1. THE EXISTING UNDERGROUND UTILITIES AND STORM SEWERS ARE NOT SHOWN IN THEIR EXACT LOCATION AND MAY NOT BE COMPLETE. ALL UTILITIES SHALL BE MARKED PRIOR TO INITIATION OF CONSTRUCTION. TRANSURBAN'S AND VDOT'S FACILITIES INCLUDE UNDERGROUND UTILITIES THAT ARE NOT MARKED BY MISS UTILITY. IT IS THE DESIGN BUILDER'S SOLE RESPONSIBILITY TO MARK THESE UTILITES AND MAINTAIN THE MARKINGS THROUGH THE LIFE OF THE PROJECT IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS. THE DESIGN BUILDER MAY HIRE VDOT'S ON-CALL CONSULTANT TO PERFORM THIS WORK, WITH ALL COSTS TO BE PAID BY DESIGN BUILDER.
2. VERIFY THE DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AT LOCATIONS WHERE PROPOSED CONDUIT BORE OR TRENCH IS CROSSING TO AVOID ANY DISRUPTION TO THE EXISTING UNDERGROUND UTILITIES.
3. AVOID IMPACTING ANY EXISTING UNDER-DRAIN SYSTEMS AT LOCATIONS WHERE PROPOSED CONDUIT BORE OR TRENCH IS CROSSING.
4. THE DESIGN BUILDER SHALL REFERENCE EXISTING UTILITY FILES INTO THE ITS SITE PLANS, IDENTIFY, AND ADDRESS ANY CONFLICTS BETWEEN THE PROPOSED TTMS AND UTILITIES.

JUNCTION BOX NOTES:

1. DE-WATER ALL EXISTING JUNCTION BOXES BEFORE PERFORMING ANY WORK INSIDE THEM.
2. LIDS OF TRANSURBAN COMMUNICATION BOXES SHALL SAY "XPL COMM". LIDS OF VDOT COMMUNICATION BOXES SHALL SAY "VDOT COMM". LIDS OF POWER BOXES SHALL SAY "XPL POWER" OR "VDOT POWER", AS APPROPRIATE.
3. THE JUNCTION BOXES SHALL BE STAKED OUT USING ELECTRONIC COORDINATE DATA TO BE PROVIDED BY THE DESIGN BUILDER'S ENGINEER FOLLOWING AFC PLANS. FINAL LAYOUT OF JUNCTION BOXES SHALL BE ADJUSTED IN THE FIELD AS NEEDED TO CONFORM TO FIELD CONDITIONS AND AVOID CONFLICTS WITH DRAINAGE STRUCTURE AND UTILITIES.
4. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING MANHOLES AND JUNCTION BOXES BEFORE COMMENCING ANY WORK WITH THEM. IN CASE THE JUNCTION BOXES COULD NOT BE VERIFIED OR ARE NOT IN PLACE AS SHOWN IN PLANS, CONTACT THE DESIGN-BUILDER'S ENGINEER FOR FURTHER ACTION.
5. AVOID INSTALLATION OF JUNCTION BOXES IN DRAINAGE AREAS.
6. THESE PLANS ARE NOT INTENDED TO SHOW ALL JUNCTION BOX LOCATIONS. DESIGN BUILDER SHALL DEVELOP SITE PLANS AND DETAILS FOR JUNCTION BOXES AND THEIR LOCATIONS.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC2A

TMxxxxxxdtl_CC2B.dgn
Plotted By: ZZHANG

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

EXISTING	PROPOSED	DESCRIPTION	
-CC-	-CC-	COMMUNICATION/CONTROL	UNDERGROUND CONDUIT
-P-	-P-	EQUIPMENT POWER	
-CC/P-	-CC/P-	COMMUNICATION AND POWER	
	CC	COMMUNICATION/CONTROL	STRUCTURAL MOUNTED CONDUIT
	P	EQUIPMENT POWER	
	CC/P	COMMUNICATION AND POWER	
		BORED CONDUIT	
P E 3 5	N/A	VDOT ELECTRICAL JUNCTION BOX	
S-3	N/A	VDOT JB-S3 POWER JUNCTION BOX	
C	N/A	VDOT COMMUNICATION/CONTROL JUNCTION BOX	
3 5	N/A	EXPRESS LANES ELECTRICAL JUNCTION BOX	
C	N/A	EXPRESS LANES COMMUNICATION JUNCTION BOX	
2	©	EXPRESS LANES POLE-MOUNTED EQUIPMENT CABINET	
C	C	VDOT GROUND-MOUNTED EQUIPMENT CABINET	
C	©	EXPRESS LANES GROUND-MOUNTED EQUIPMENT CABINET	
C	C	VDOT POLE, STRUCTURE, OR PEDESTAL-MOUNTED CABINET	
	SE-X	VDOT SERVICE PANEL (NO. AS NOTED)	
		XPL SERVICE PANEL (NO. AS NOTED)	
		VDOT CCTV CAMERA	
		AUTOMATED INCIDENT DETECTION CAMERA AND COVERAGE AREA	
		EXPRESS LANES CCTV CAMERA	
X-DMS	X-DMS	EXPRESS LANES DYNAMIC MESSAGE SIGN	
V-DMS	V-DMS	VDOT DYNAMIC MESSAGE SIGN	
LCS	N/A	LANE CONTROL SIGNAL	
V		VDOT MICROWAVE DETECTOR	
X		EXPRESS LANES MICROWAVE DETECTOR	
	N/A	EXPRESS LANES RADIO ANTENNA	
G	GENERATOR & PROPANE TANK	GENERATOR	
		MICROWAVE DETECTION ZONES	
N/A		30' POLE	
N/A		40' POLE	
		50' POLE	
	N/A	EXISTING POLE	

REVISIONS		
No.	Description	Date
1	Revised conduits cross section to clarify spare conduits.	11/13/2020

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC2B

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

EXISTING	PROPOSED	DESCRIPTION
	N/A	TOLL GANTRY
		CANTILEVER STRUCTURE W/SIGN PANEL
		SPAN STRUCTURE W/SIGN PANEL
		TRENCHED CONDUIT CROSS SECTION (● INDICATES CONDUIT OCCUPIED ○ INDICATES SPARE CONDUIT)
		BORED CONDUIT CROSS SECTION (● INDICATES CONDUIT OCCUPIED ○ INDICATES SPARE CONDUIT)
		UNDER BRIDGE MOUNTED CONDUIT CROSS SECTION (● INDICATES CONDUIT OCCUPIED ○ INDICATES SPARE CONDUIT)

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

PROJECT	SHEET NO.
0495-029-419	CC2B

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

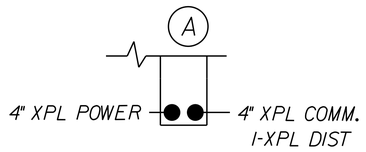
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

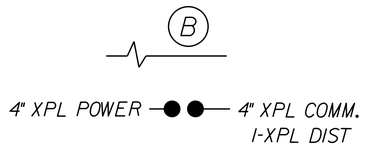
REVISIONS		
No.	Description	Date
1	Revised conduits cross section to clarify spare conduits.	11/13/2020
2	Revised conduits cross section to match with ITS design change	12/18/2020

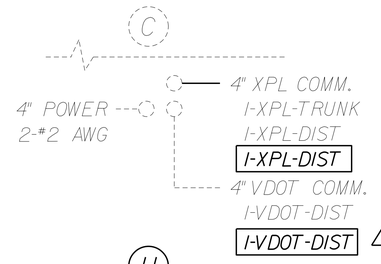
VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

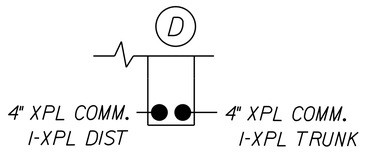
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC2CI

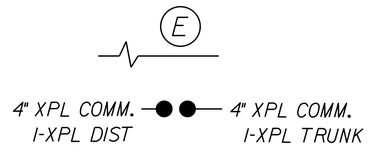
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

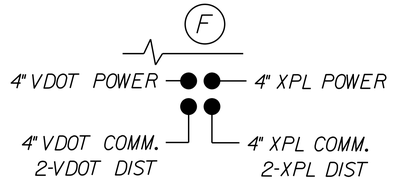


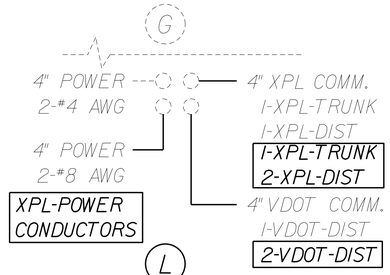


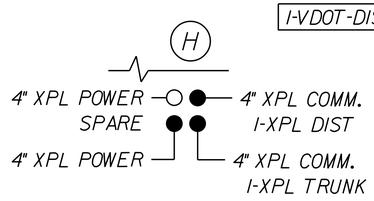


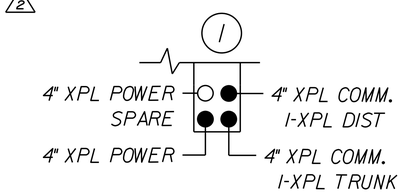


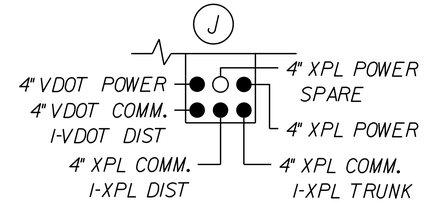


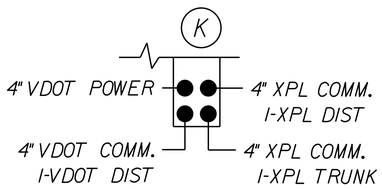


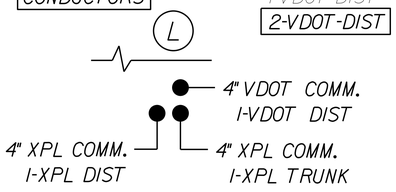


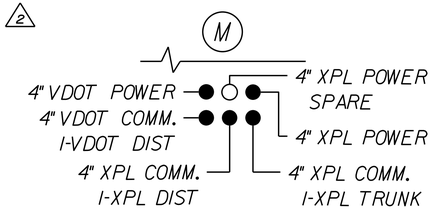


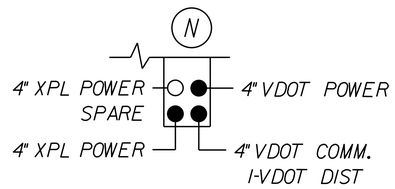


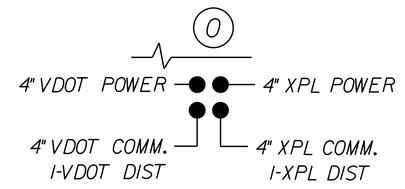


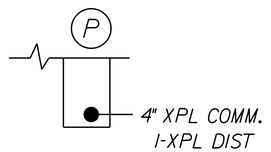


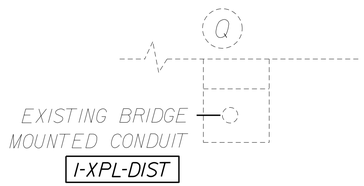


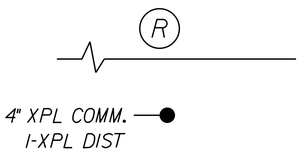


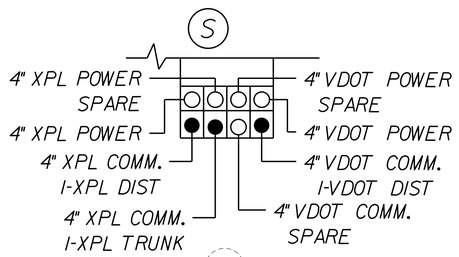


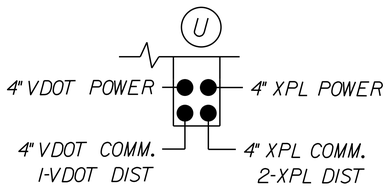


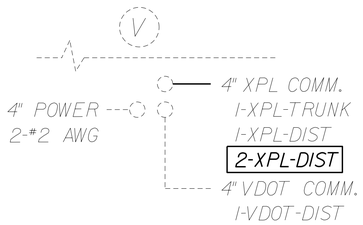


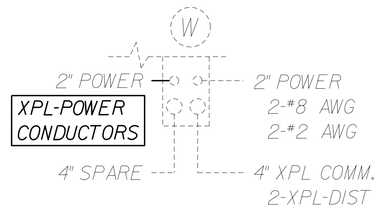


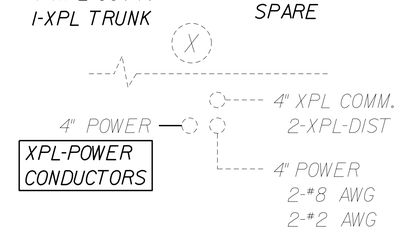












RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

PROJECT	SHEET NO.
0495-029-419	CC2CI

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

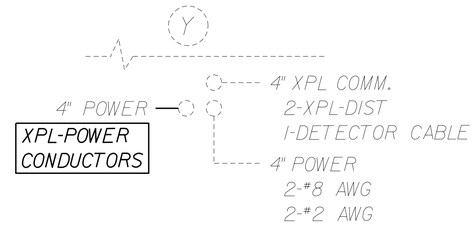
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

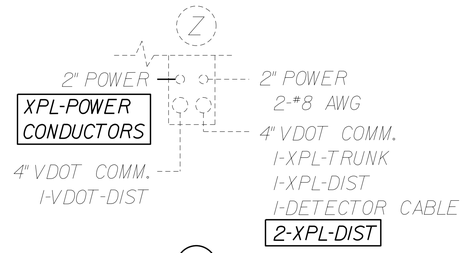
REVISIONS		
No.	Description	Date
2	Revised conduits cross section to match with ITS design change	12/18/2020

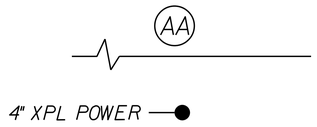
VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

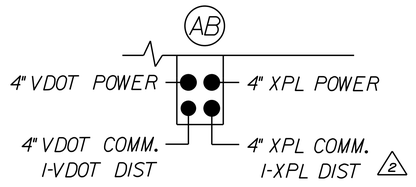
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC2C2

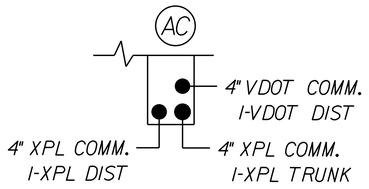
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

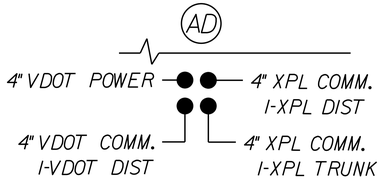


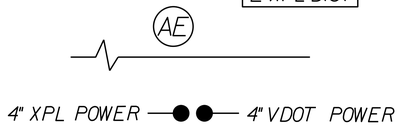


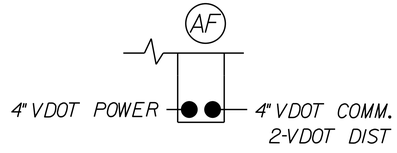


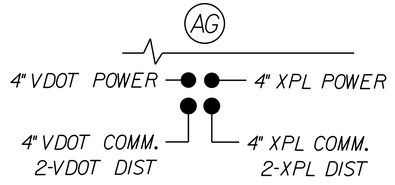


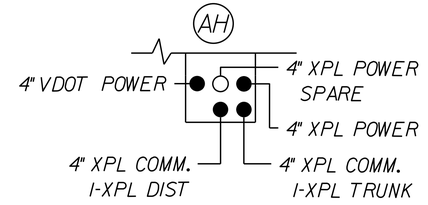


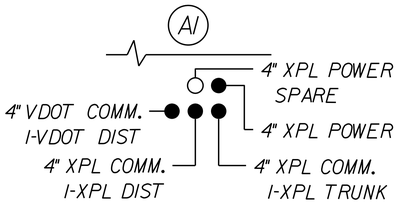


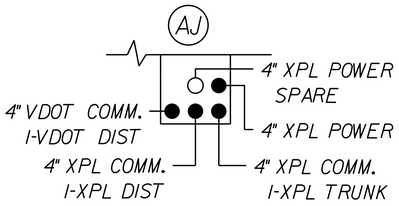


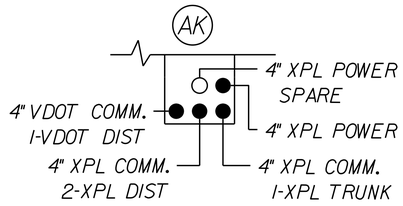


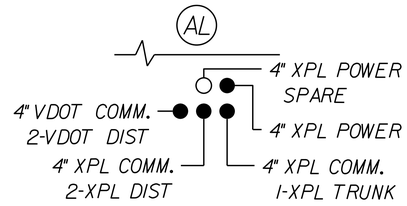


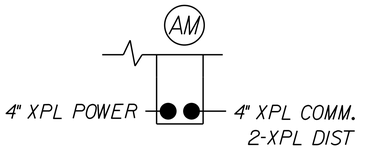


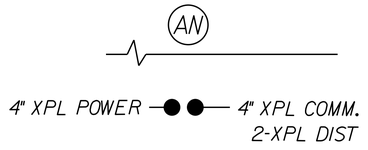


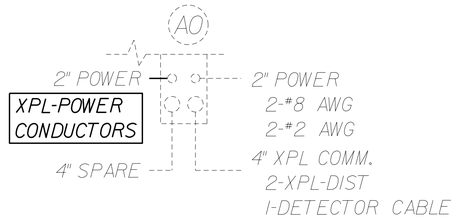


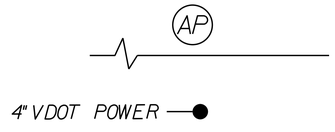


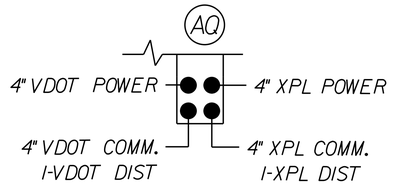


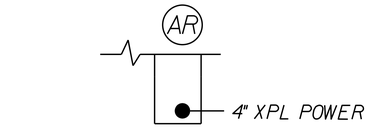


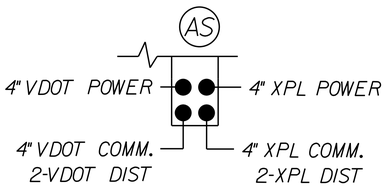




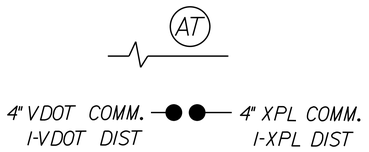


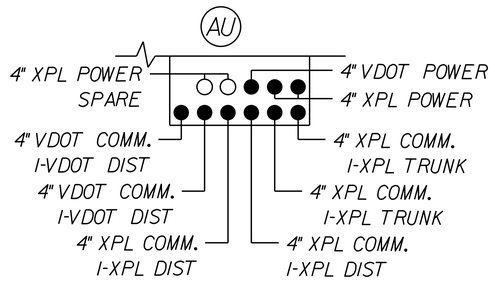






2





RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

Friday, April 02, 2021 12:24:32 AM
12:24:32 AM

TMxxxxxxsht_CC3_phl.dgn
Plotted By: ZZHANG

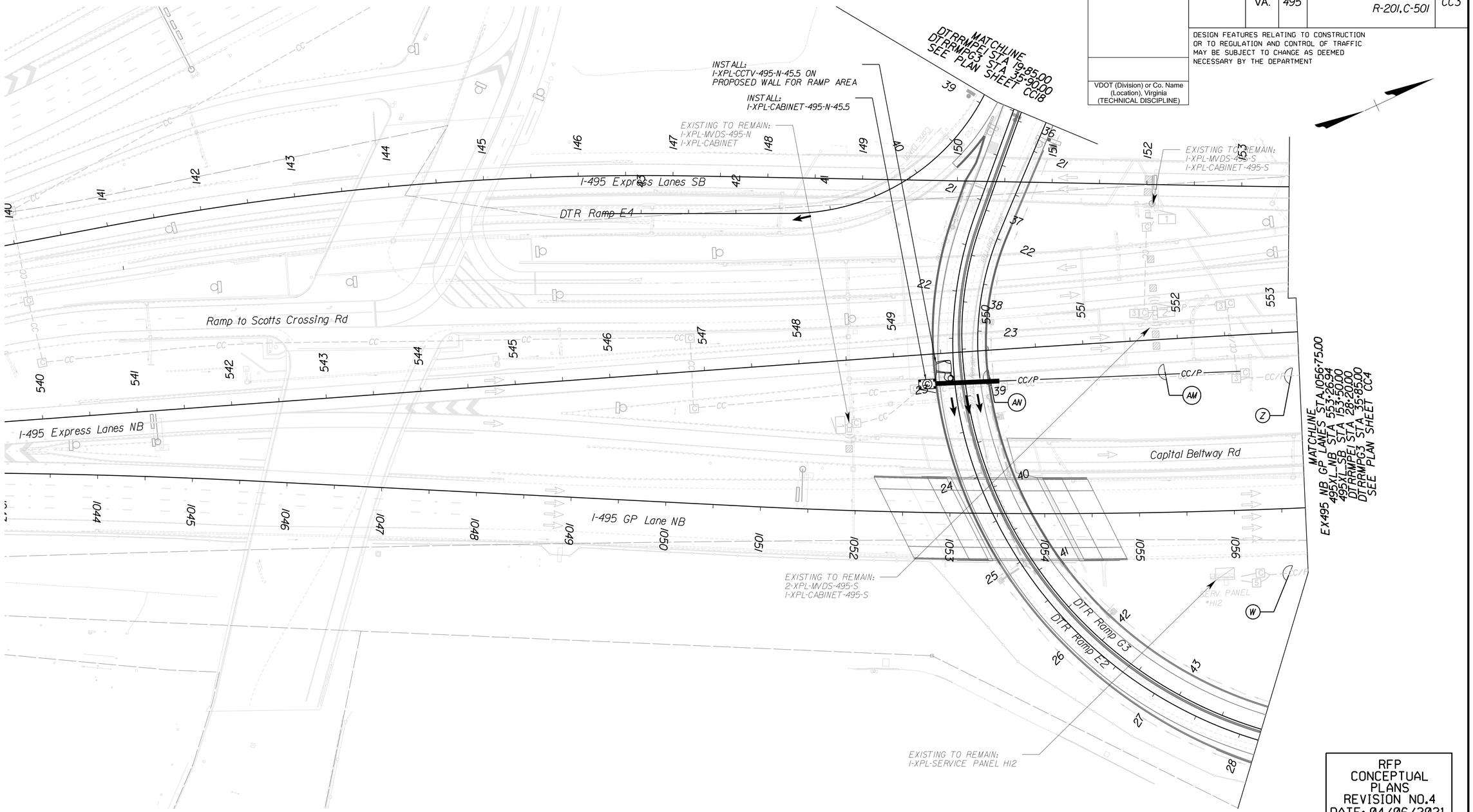
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC3

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE 0 50' 100'	PROJECT	SHEET NO.
	0495-029-419	CC3

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
2	Added VDOT ITS device between Interchange	12/18/2020

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC4

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

MATCHLINE A

EXISTING TO REMAIN:
I-XPL-DMS-495-S
I-XPL-CABINET C495MX456D

I-495 Express Lanes SB
I-495 Express Lanes NB
I-495 GP Lane NB
Ramp from Scotts Crossing Rd
Capital Beltway Rd
DTR Ramp G3
DTR Ramp E6
DTR Ramp E1
Dulles Toll Rd EB
Dulles Airport Access Rd EB
Dulles Airport Access Rd WB
Dulles Toll Rd

MATCHLINE
EX495 NB GP LANES STA.1056+75.00
495XL_NB STA 553+26.94
495XL_SB STA 153+50.00
DTRRMPE1 STA 28+20.00
DTRRMPG3 STA 35+85.00
SEE PLAN SHEET CC3

MATCHLINE
EX495 NB GP LANES STA.1071+00.00
495XL_NB STA 567+55.42
495XL_SB STA 168+05.00
DTRRMPE1 STA 44+30.00
RMPGIO STA 10+75.00
SEE PLAN SHEET CC5

MATCHLINE
DTRRMPE3 STA 26+70.00
SEE PLAN SHEET CC19

MATCHLINE A
SEE PLAN SHEET CC5

INSTALL:
2-XPL-AID-495-N-45J
I-XPL-CABINET-495-N-45J

INSTALL:
I-XPL-CABINET-495-45.3
I-XPL-CCTV-495-N-45.3
I-XPL-MVDS-495-N-45.3
I-VDOT-CCTV-495-N-45.3

INSTALL:
I-VDOT-CABINET-495-N-45.3

EXISTING TO REMAIN:
I-VDOT-SERVICE PANEL M02

EXISTING TO REMAIN:
I-VDOT-MVDS-495-N
I-VDOT-CABINET-495-N

EXISTING TO REMAIN:
I-VDOT-DMS
I-VDOT-MVDS
I-VDOT-CABINET

EXISTING TO REMAIN:
2-XPL-MVDS-495-N
I-XPL-CABINET
C495MX455M

LEFT EXIT 45B TO 66 EAST
Wash Blvd Washington
NO TOLL

MATCHLINE A

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	CC4

Friday, April 02, 2021 12:24:46 AM
12:24:46 AM

TMxxxxxxstf_CC5_phl.dgn
Plotted By: ZZHANG

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER
SURVEYED BY, DATE
DESIGN BY _HDR Engineering_
SUBSURFACE UTILITY BY, DATE _N/A_

REVISIONS		
No.	Description	Date
1	Added VDOT DMS to match with signing design.	11/13/2020
2	Added VDOT ITS device between Interchange	12/18/2020

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC5

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

SEE MATCHLINE A PLAN SHEET CC4

REMOVE EXISTING:
I-VDOT-DMS-N

RECALIBRATE EXISTING:
I-XPL-MVDS-495-N
EXISTING TO REMAIN:
I-XPL-MVDS-495-N

DMS

Lewinsville Rd VA Rte 694

TO Rte. 66 EAST
Wash Blvd Washington
NO TOLL

EXISTING TO REMAIN:
I-VDMS-495-S-XX
EXISTING TO REMAIN:
I-VDOT-CABINET 04-11A-25

End Limited Access Line

I-495 GP Lanes SB
DTR Ramp E62
I-495 Express Lanes SB
I-495 Express Lanes NB
I-495 GP Lane NB
DTR Ramp G10

VDOT DMS

INSTALL:
I-XPL-CCTV-495-N-45J
I-XPL-AID-495-N-45J
I-VDOT-CCTV-495-N-45J

INSTALL:
I-VDOT-CABINET 04-011-25

INSTALL:
I-XPL-MVDS-495-N-45.0

INSTALL:
I-VDOT-DMS-495-N-45J

REMOVE EXISTING:
I-XPL-CABINET C495IX454C
I-XPL-CCTV-495-N
2-XPL-AID-495-N
I-VDOT-CABINET 04-011-25
I-VDPT-CCTV-495-N

INSTALL:
I-XPL-CABINET C495IX454C

REMOVE EXISTING:
I-VDOT-MVDS-495-N

INSTALL:
I-VDOT-CABINET-495-N-45J
SEE NOTE 1

REMOVE EXISTING:
I-VDOT-CABINET 04-011-27

Lewinsville Rd VA Rte 694

MATCHLINE STA 1071+00.00
495XL_NB STA 567+55.42
495XL_SB STA 168+05.00
DTRRMPE1 STA 44+30.00
RMPG10 STA 10+75.00
SEE PLAN SHEET CC4

MATCHLINE STA 581+85.00
495XL_NB STA 182+30.00
495XL_SB STA 1085+30.00
LEW-TRL STA 6+30.00
SEE PLAN SHEET CC6
EX495 NB GP LANES

NOTE:

1. REROUTE EXISTING VDOT DISTRIBUTION FIBER OPTIC CABLE TO PROPOSED VDOT CABINET-495-N-45J AND SPLICE PROPOSED VDOT DISTRIBUTION FIBER OPTIC CABLE TO EXISTING VDOT DISTRIBUTION FIBER OPTIC CABLE IN THE PROPOSED CABINET.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC5

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

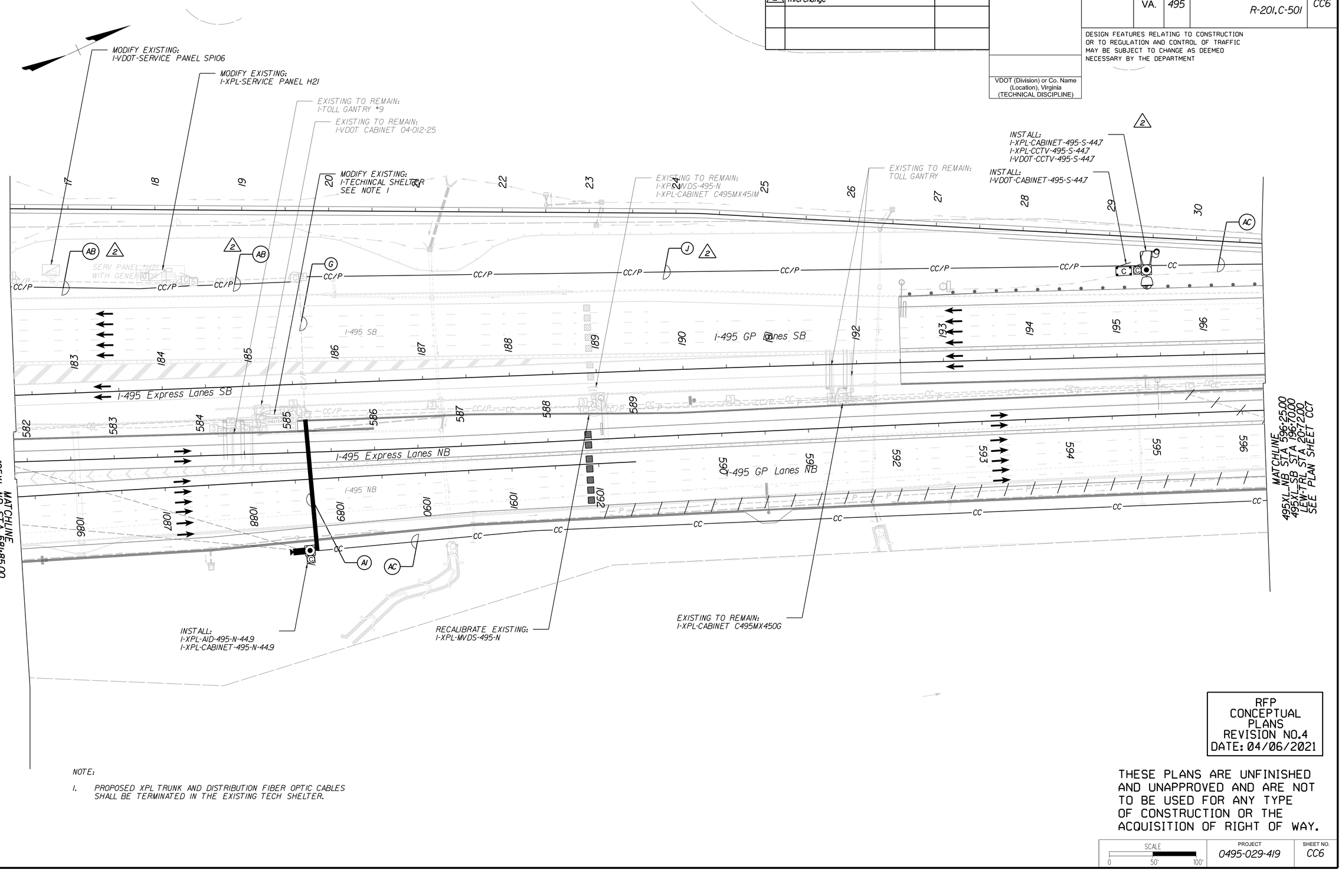
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
2	Added VDOT ITS device between Interchange	12/18/2020

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC6

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



NOTE:

1. PROPOSED XPL TRUNK AND DISTRIBUTION FIBER OPTIC CABLES SHALL BE TERMINATED IN THE EXISTING TECH SHELTER.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC6

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

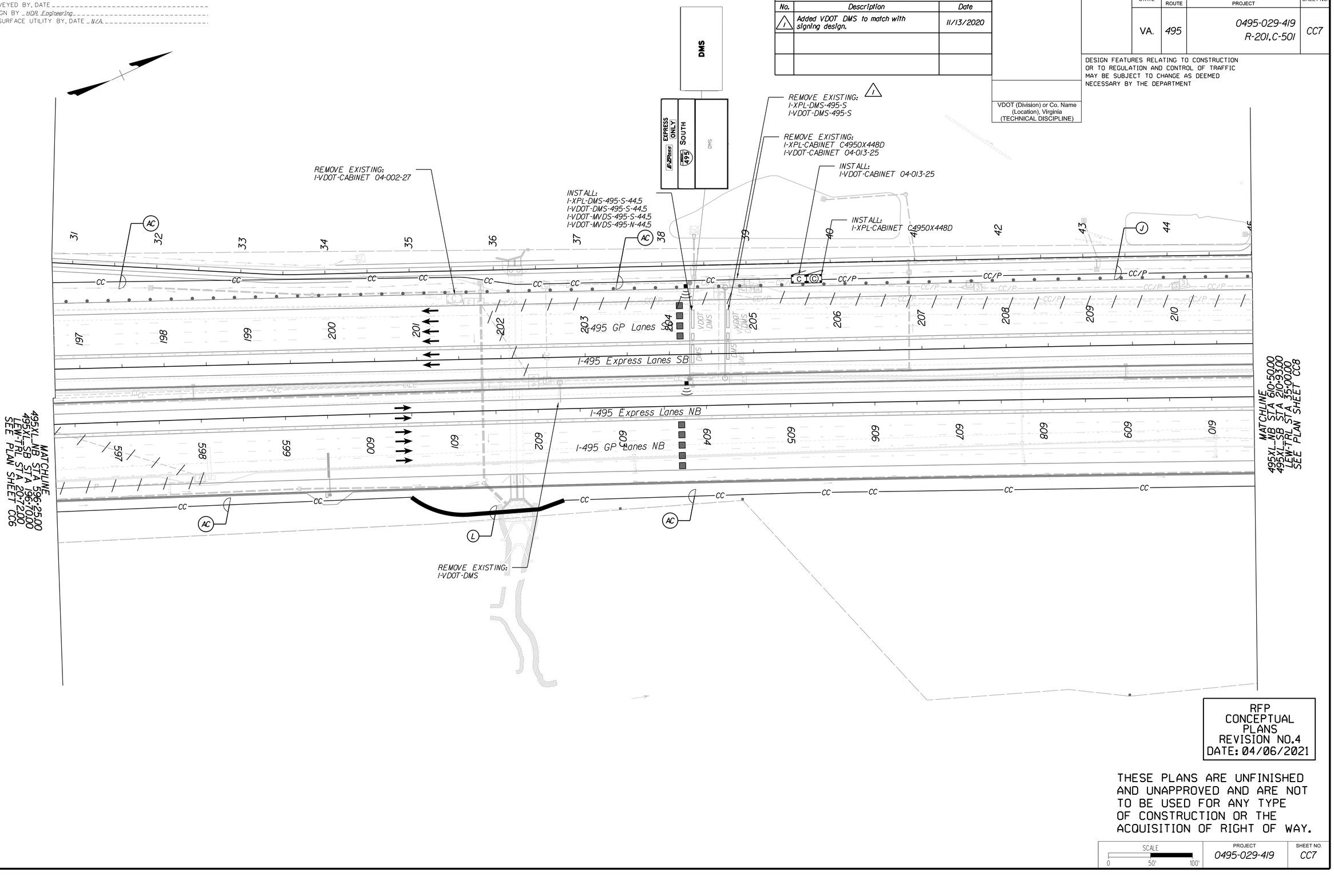
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
1	Added VDOT DMS to match with signing design.	11/13/2020

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC7

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC7

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC8

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

MATCHLINE
RTE738-R STA 18+50.00
SEE PLAN SHEET CC21

REMOVE EXISTING:
I-XPL-SERVICE PANEL H22
I-VDOT-SERVICE PANEL VT2

INSTALL:
I-XPL-SERVICE PANEL H22
I-VDOT-SERVICE PANEL VT2

INSTALL:
I-XPL-CCTV-495-S-44.3
I-VDOT-CCTV-495-S-44.3

INSTALL:
I-XPL-CABINET C4950X446C
I-VDOT-CABINET 04-014-25

REMOVE EXISTING:
I-XPL-CABINET C4950X446C
I-VDOT-CABINET 04-014-25

REMOVE EXISTING:
I-VDOT-AID-CCTV
I-VDOT-LCS-495-N

REMOVE EXISTING:
I-VDOT-CABINET 04-003-27

REMOVE EXISTING:
I-VDOT-CABINET 04-004-27

REMOVE EXISTING:
2-VDOT-AID-495-N
I-VDOT-LCS-495-N

REMOVE EXISTING:
I-XPL-CCTV-495-S
I-VDOT-CCTV-495-S
2-VDOT-AID-495-S

REMOVE EXISTING:
I-XPL-DMS-495-S

REMOVE EXISTING:
I-VDOT-AID-495-N

INSTALL:
I-XPL-DMS-495-N-44.3

INSTALL:
I-XPL-CABINET
-495-N-44.3

INSTALL:
I-XPL-MVDS-495-S-44.3
I-XPL-MVDS-495-N-44.3
I-XPL-CABINET-495-S-44.3

I-495 GP Lanes SB
I-495 Express Lanes SB
I-495 Express Lanes NB
I-495 GP Lanes NB
I-495 SB
Old Dominion Dr
Churchill Rd
End Limited Access Line
DMS

MATCHLINE
495XL_NB STA 610+50.00
495XL_SB STA 210+93.00
LEW-TRL STA 35+00.00
SEE PLAN SHEET CC7

MATCHLINE
495XL_NB STA 624+50.00
495XL_SB STA 225+10.00
SC-RUN-TRL STA 21+70.00
SEE PLAN SHEET CC9

MATCHLINE
RTE738-R STA 27+00.00
SEE PLAN SHEET CC22

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC8

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

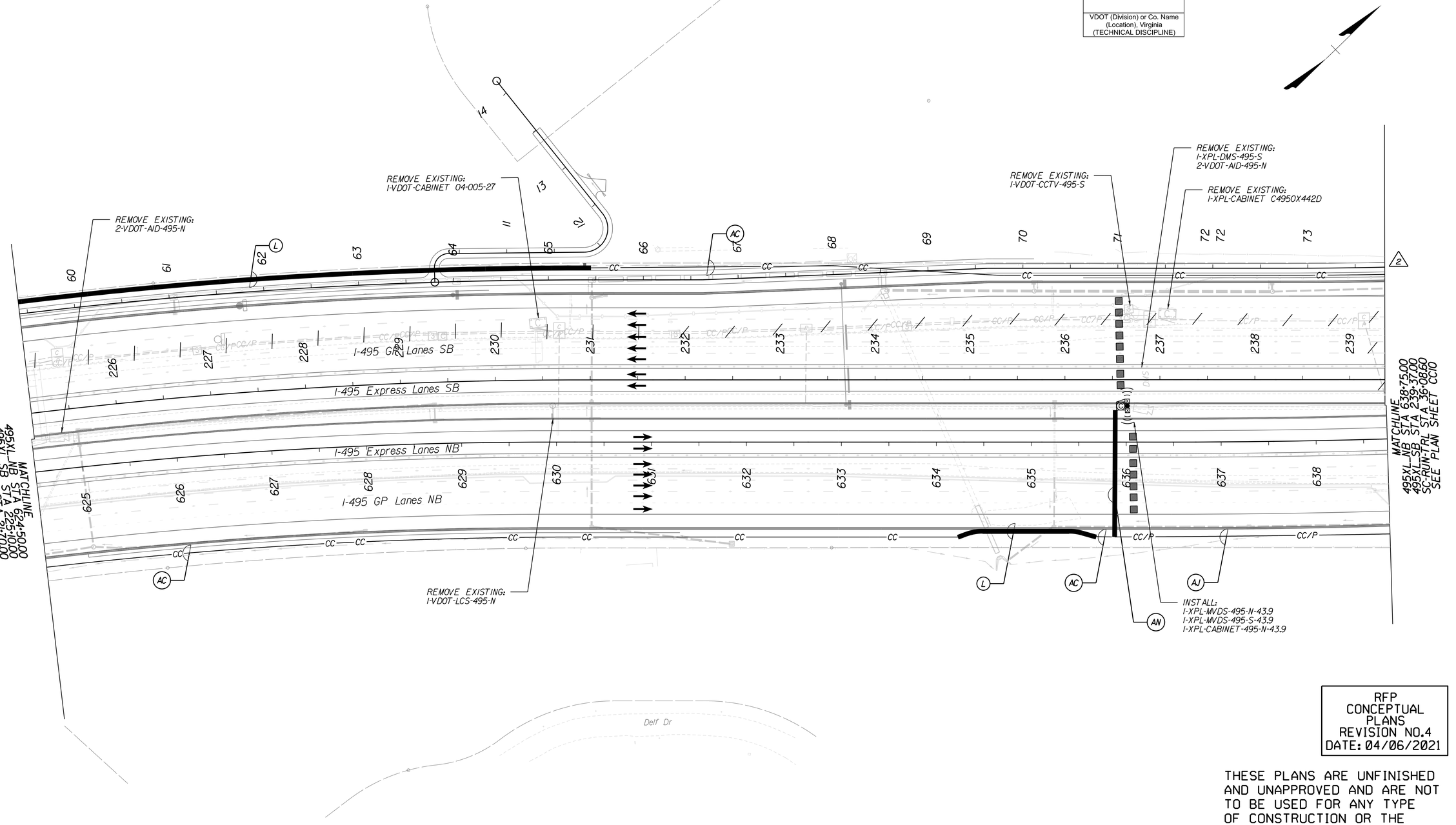
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
2	Revised ITS design per roadway change	12/18/2020

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC9

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



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC9

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

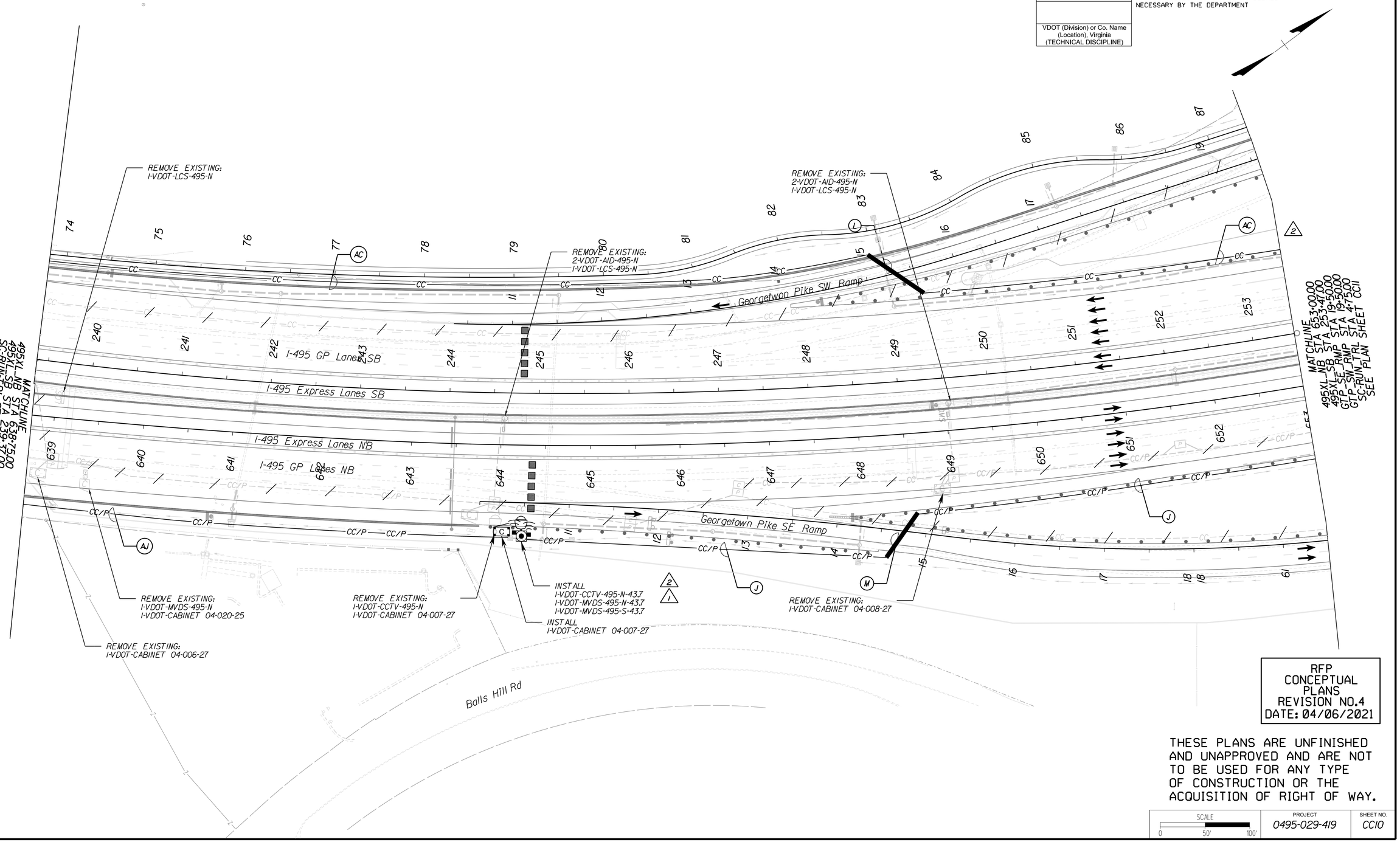
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
1	Added VDOT MVDS between Interchange for each direction.	11/13/2020
2	Revised ITS design per roadway change Added VDOT ITS device between Interchange	12/18/2020

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC10

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



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC10

Friday, April 02, 2021 12:25:25 AM
12:25:25 AM

TMxxxxxxsht_CC11_phl.dgn
Plotted By: ZZHANG

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

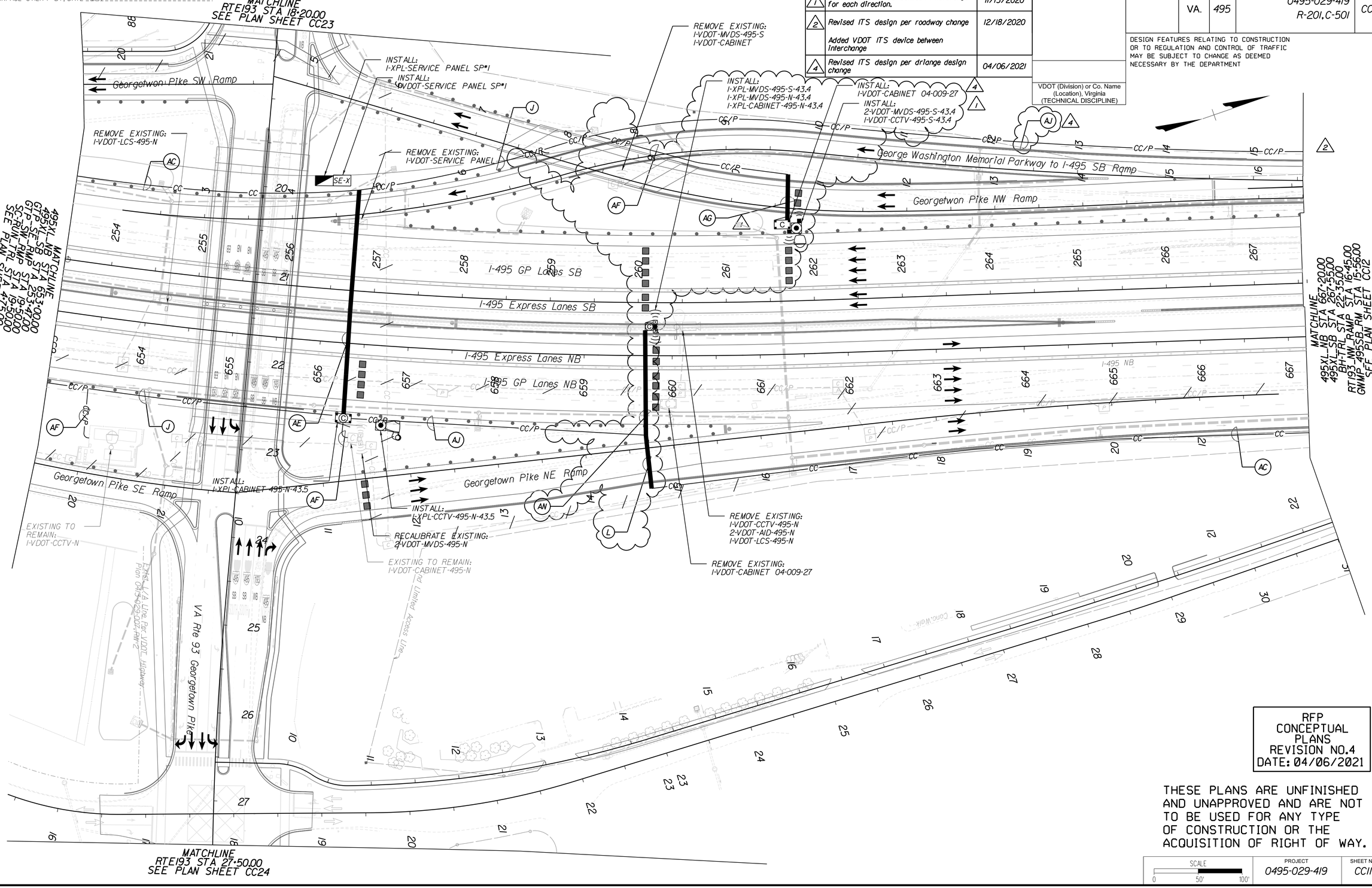
PROJECT MANAGER
SURVEYED BY, DATE
DESIGN BY HDR Engineering
SUBSURFACE UTILITY BY, DATE N/A

REVISIONS		
No.	Description	Date
1	Added VDOT MVDS between interchange for each direction.	11/13/2020
2	Revised ITS design per roadway change Added VDOT ITS device between interchange	12/18/2020
4	Revised ITS design per driange design change	04/06/2021

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	CC11

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



RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC11

Friday, April 02, 2021 12:25:32 AM
12:25:32 AM

TMxxxxxxsht_CC12_phl.dgn
Plotted By: ZZHANG

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

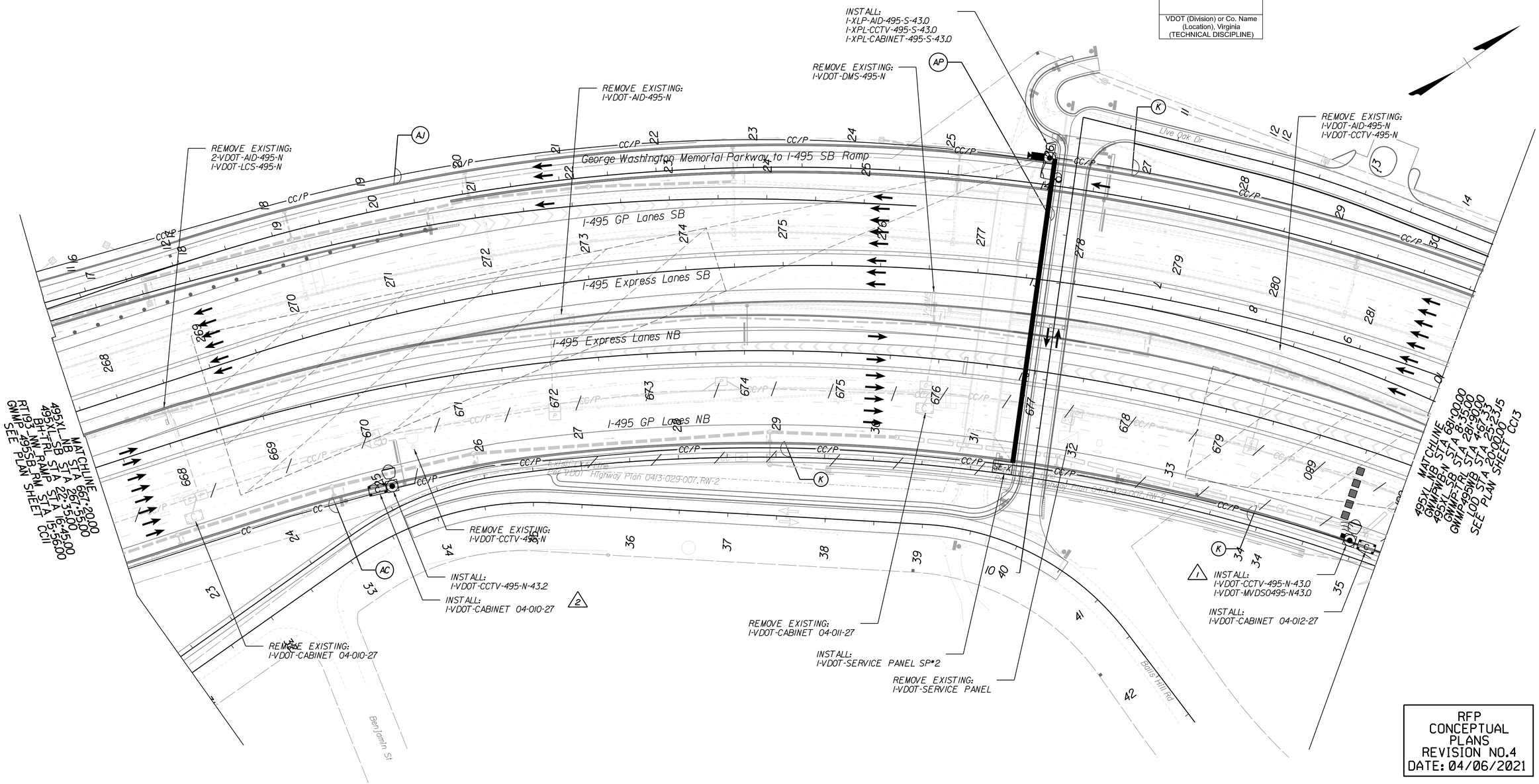
PROJECT MANAGER
SURVEYED BY, DATE
DESIGN BY HDR Engineering
SUBSURFACE UTILITY BY, DATE N/A

REVISIONS		
No.	Description	Date
1	Added VDOT MVDS between interchange for each direction.	11/13/2020
2	Added VDOT ITS device between interchange	12/18/2020

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	CC12

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC12

Friday, April 02, 2021 12:25:39 AM
12:25:39 AM

TMxxxxxxsht_CC13_phl.dgn
Plotted By: ZZHANG

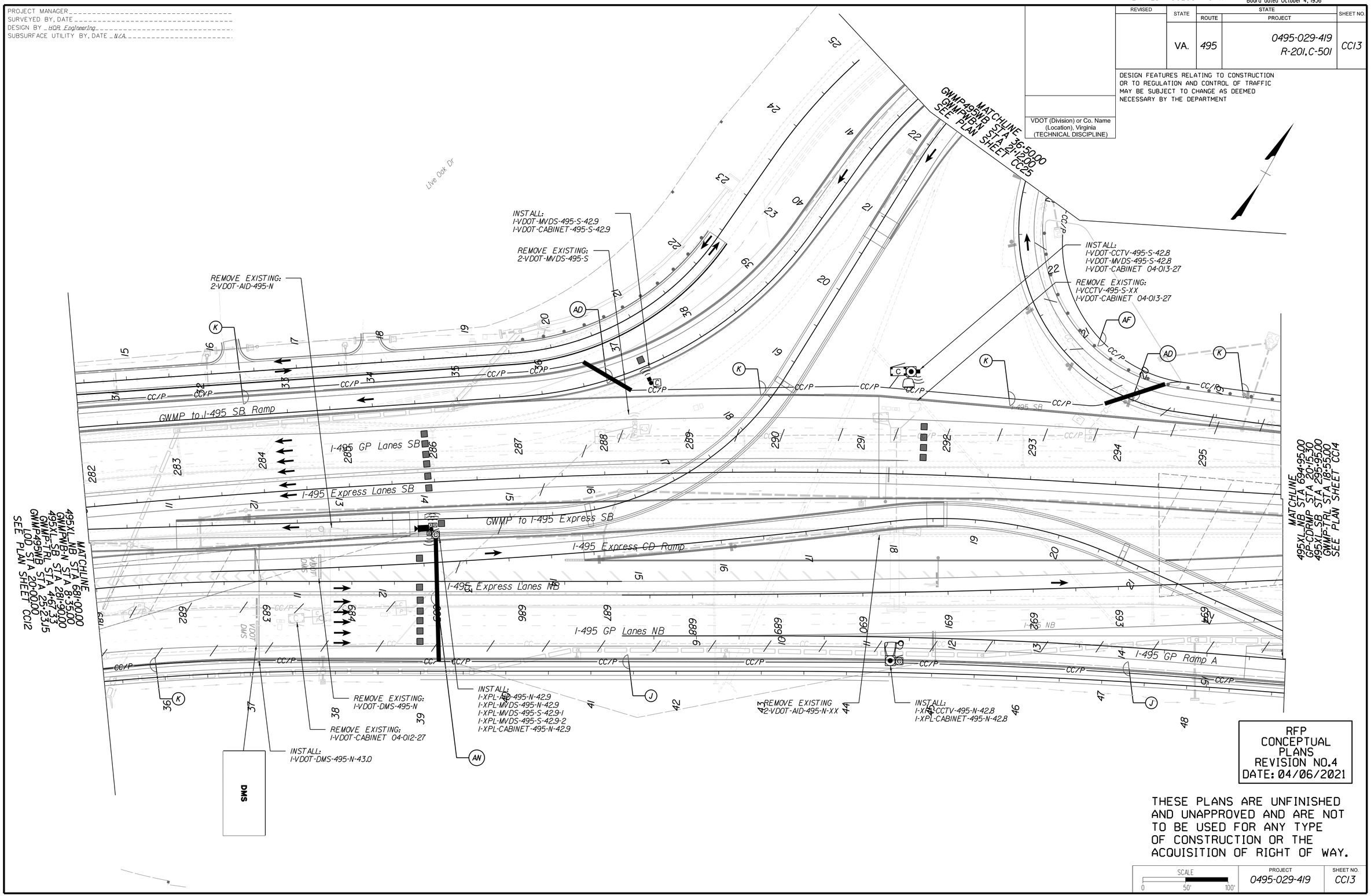
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC13

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC13

Friday, April 02, 2021 12:25:45 AM
12:25:45 AM

TMxxxxxxsht_CC14_phl.dgn
Plotted By: ZZHANG

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

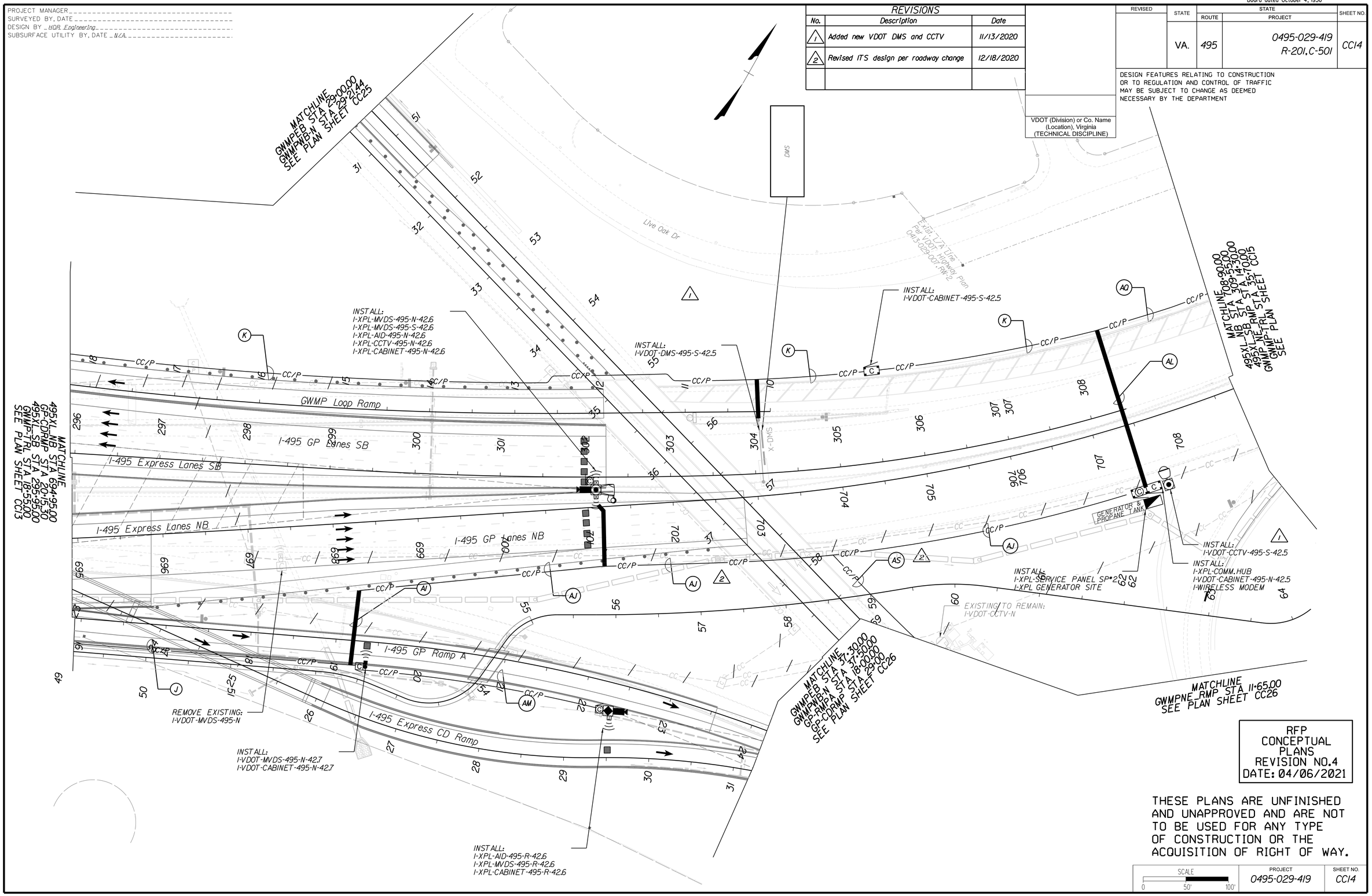
PROJECT MANAGER
SURVEYED BY, DATE
DESIGN BY HDR Engineering
SUBSURFACE UTILITY BY, DATE N/A

REVISIONS		
No.	Description	Date
1	Added new VDOT DMS and CCTV	11/13/2020
2	Revised ITS design per roadway change	12/18/2020

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	CC14

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC14

Friday, April 02, 2021 12:25:51 AM
12:25:51 AM

TMxxxxxxsht_CC15_phl.dgn
Plotted By: ZZHANG

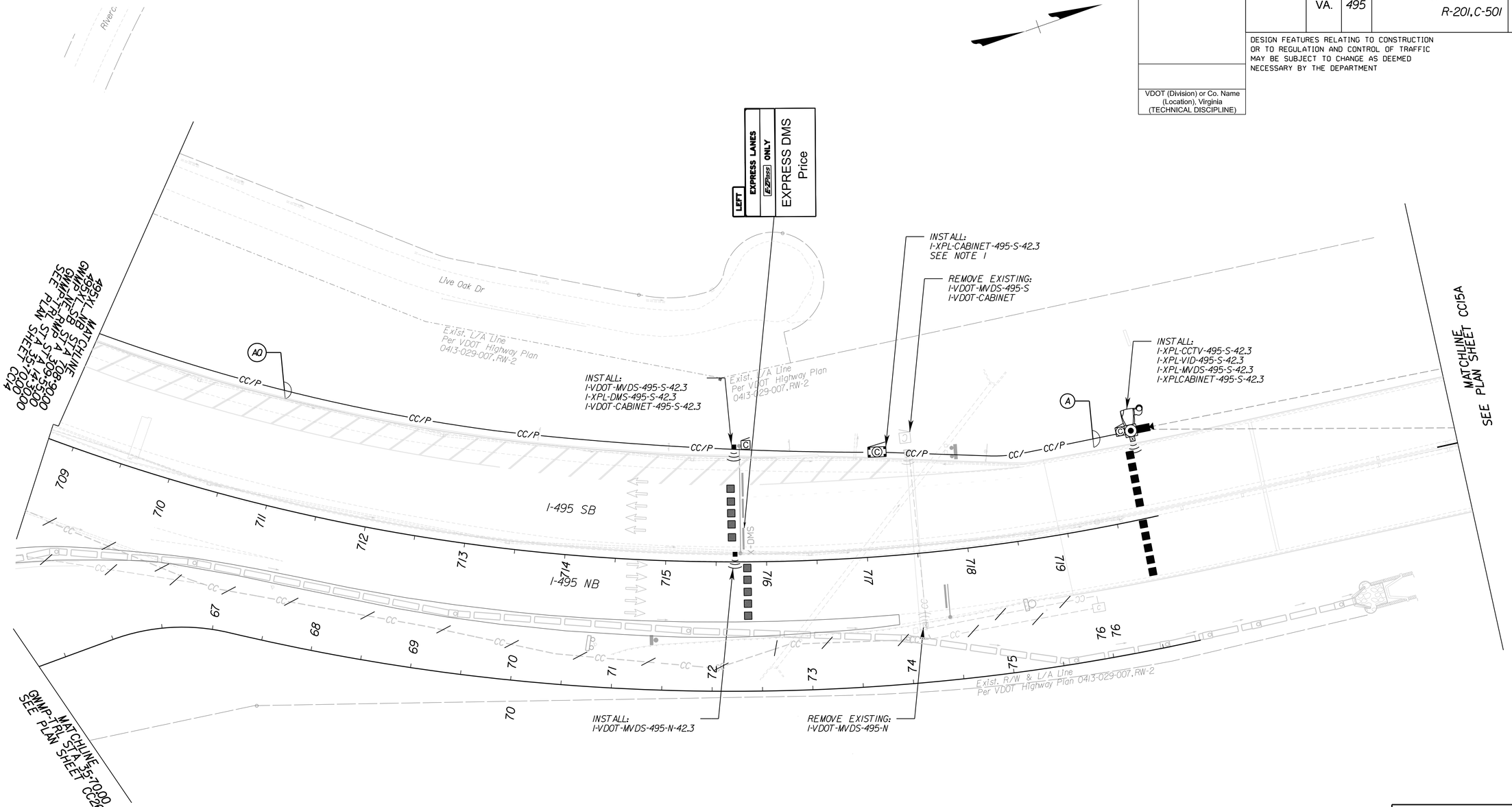
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC15

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



NOTE:

1. INSTALL UPS FOR CONFIRMATION PRICING DMS.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC15

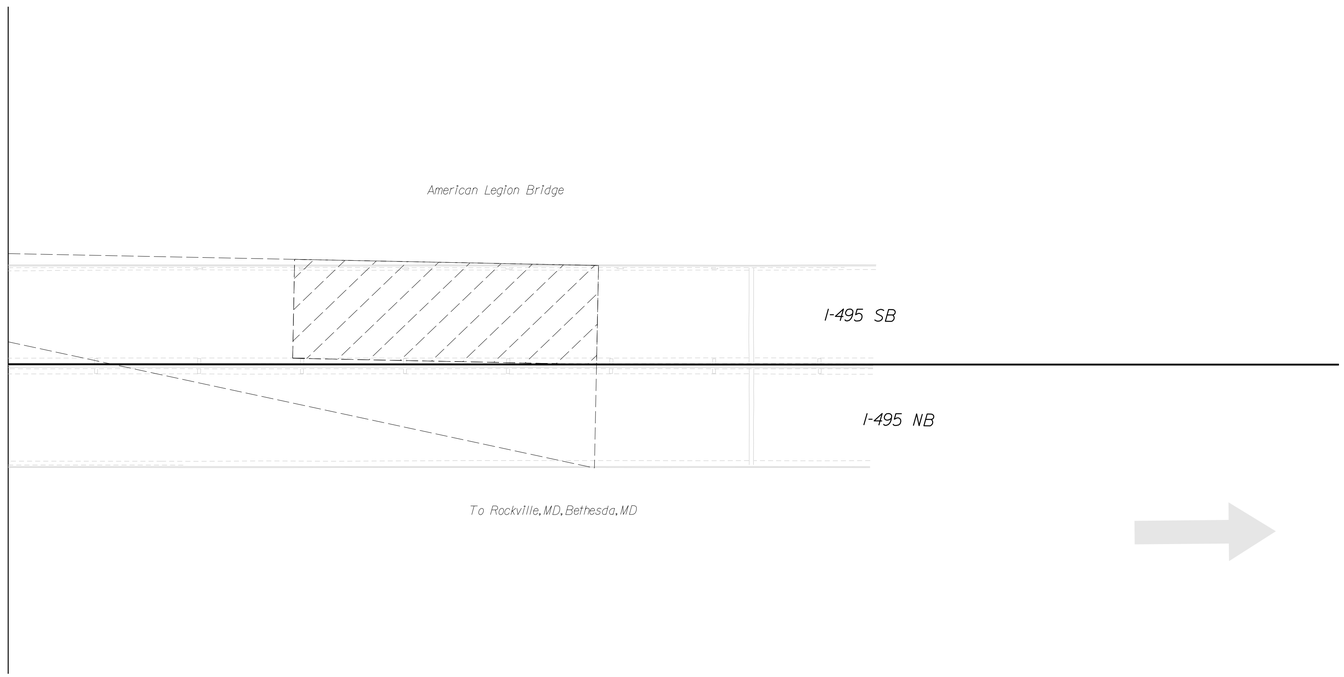
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	CC15A

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC15A

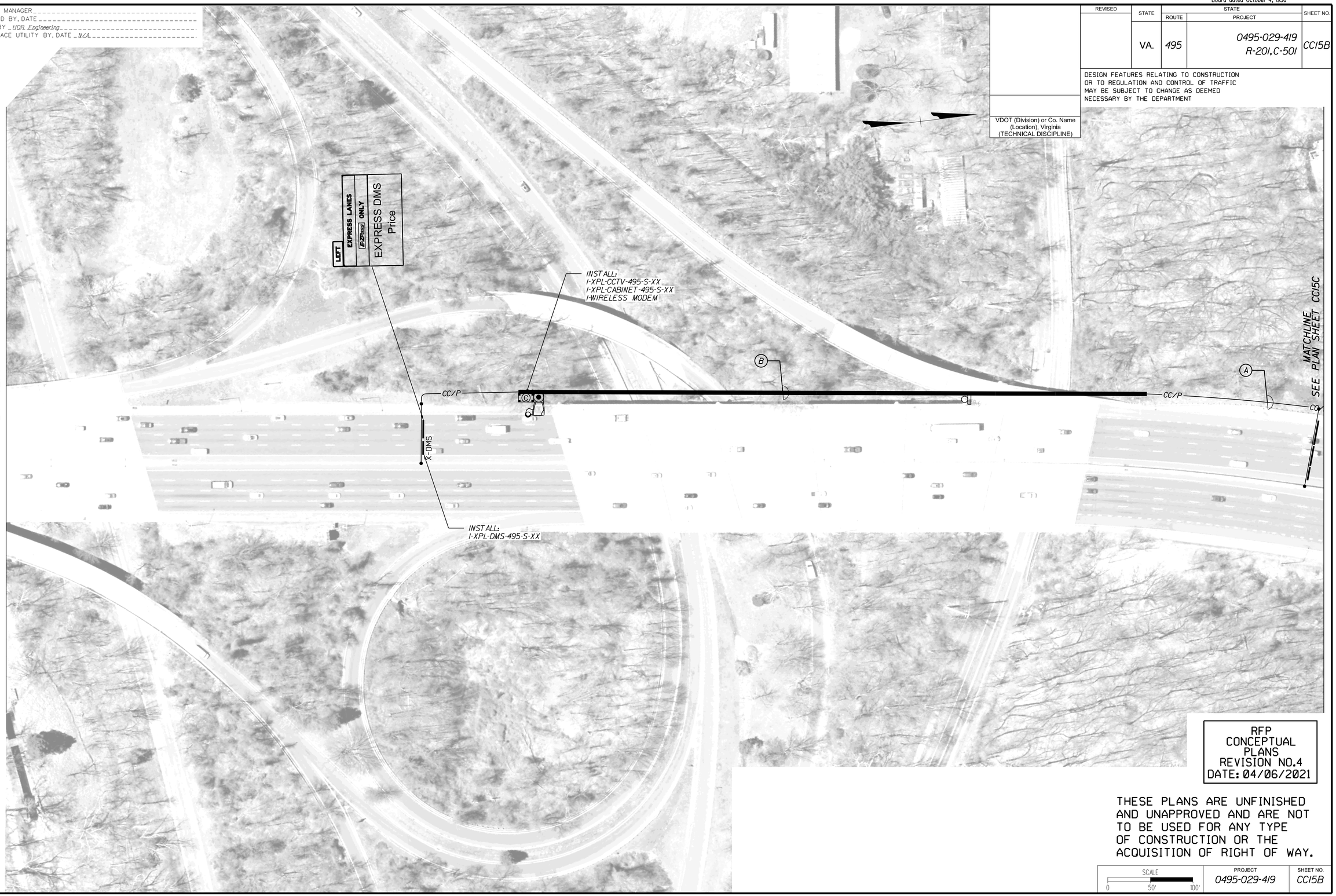
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC15B

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC15B

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC15C

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

SEE MATCHLINE PLAN SHEET CC15B

CC/P

A

SEE MATCHLINE PLAN SHEET CC15D

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC15C

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC15D

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC15D

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC15E

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



SEE MATCHLINE PLAN SHEET CC15D

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC15E

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC16

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC16

Friday, April 02, 2021 12:28:45 AM
12:28:45 AM

TMxxxxxxsht_CC16A_phl.dgn
Plotted By: ZZHANG

LIMITED ACCESS HIGHWAY

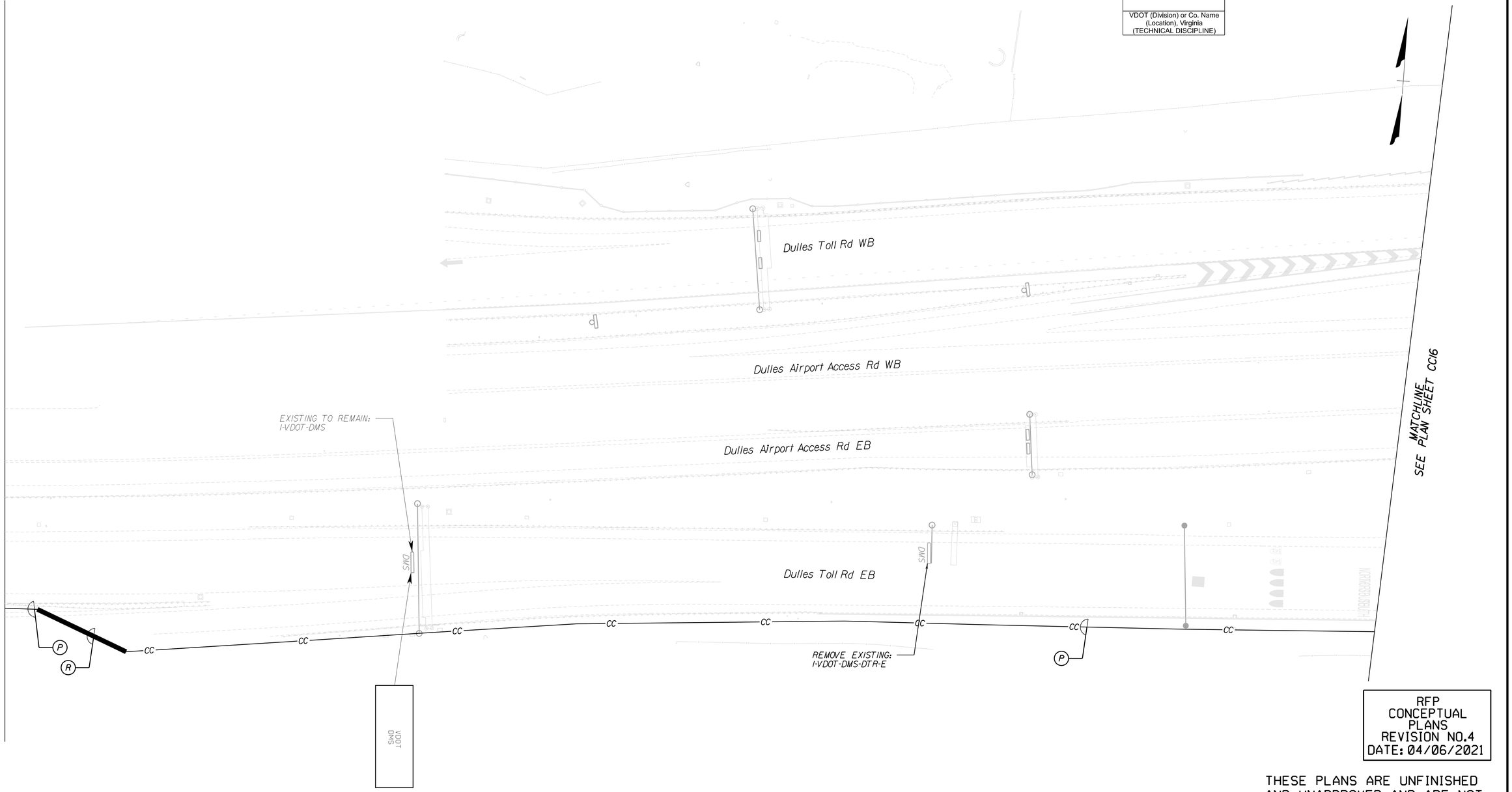
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC16A

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC16A

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

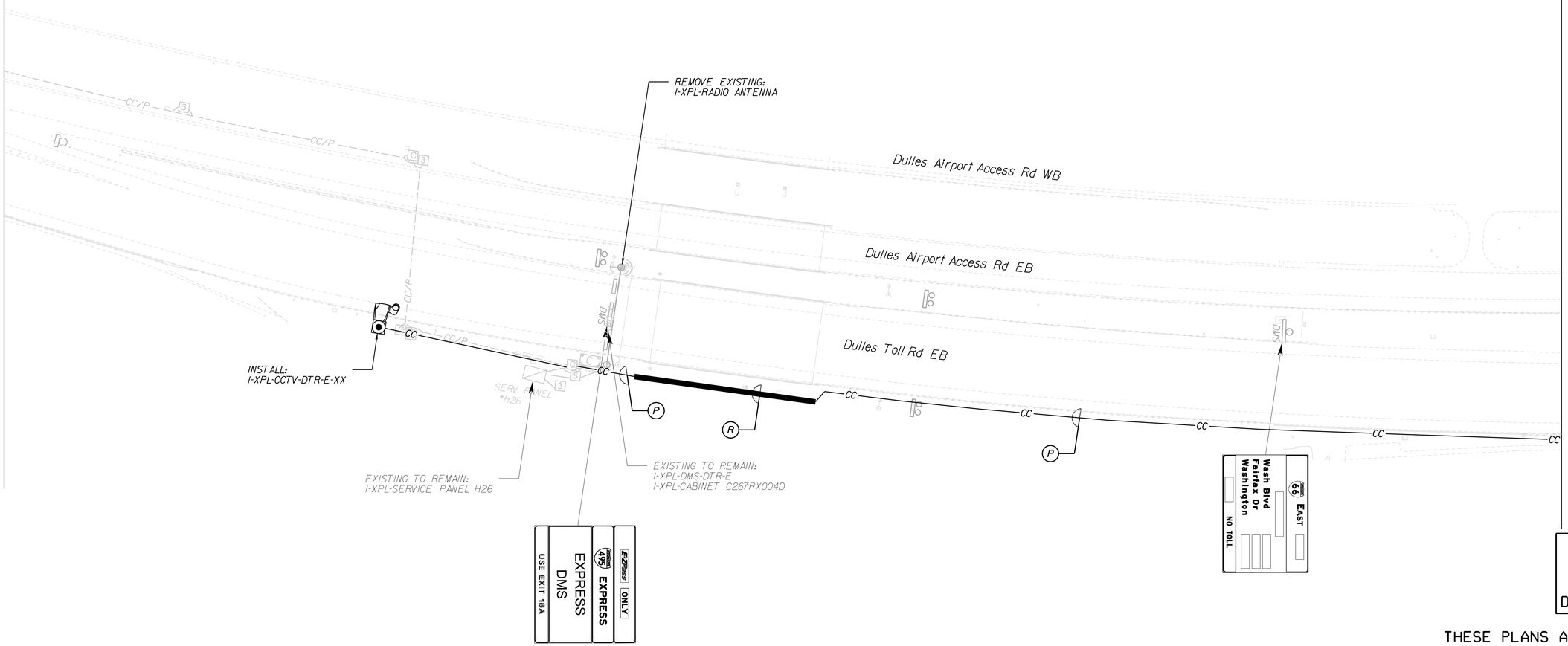
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC16B

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

MATCHLINE
SEE PLAN SHEET CC16C

MATCHLINE
SEE PLAN SHEET CC16A



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC16B

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC16C

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

EXISTING TO REMAIN:
I-DMS-495-S-XX
I-XPL-CABINET C267RX005D

INSTALL:
I-XPL-CCTV-DTR-E-XX

CC

CC/P

SMD

3

EXPRESS
DMS

EZPass EXPRESS ONLY

MATCHLINE
SEE PLAN SHEET CC16B

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC16C

LIMITED ACCESS HIGHWAY

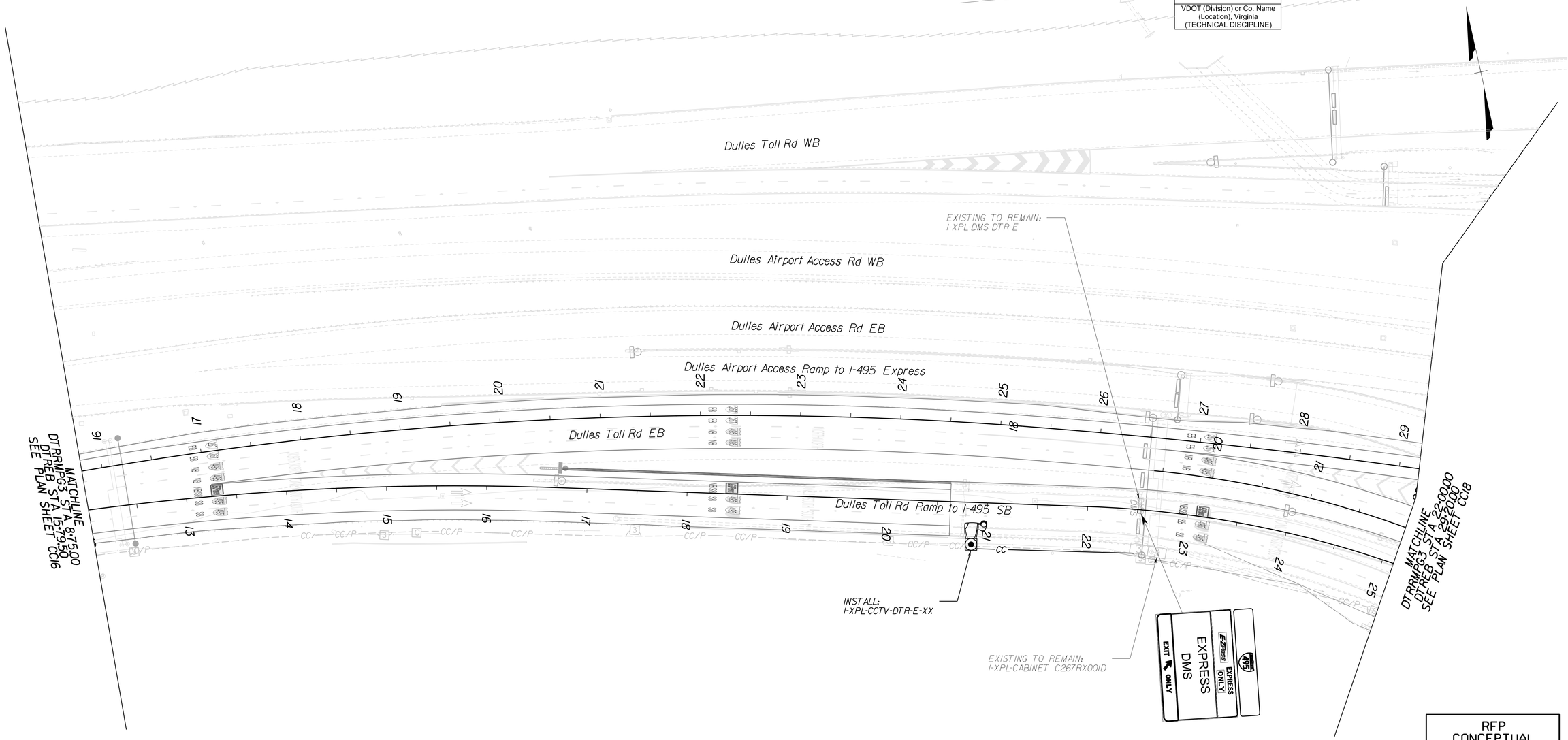
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC17

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

NOTE:

1. INSTALL UPS FOR CONFIRMATION PRICING DMS.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC17

Friday, April 02, 2021 12:29:47 AM
12:29:47 AM

TMxxxxxxshf_CC18_phl.dgn
Plotted By: ZZHANG

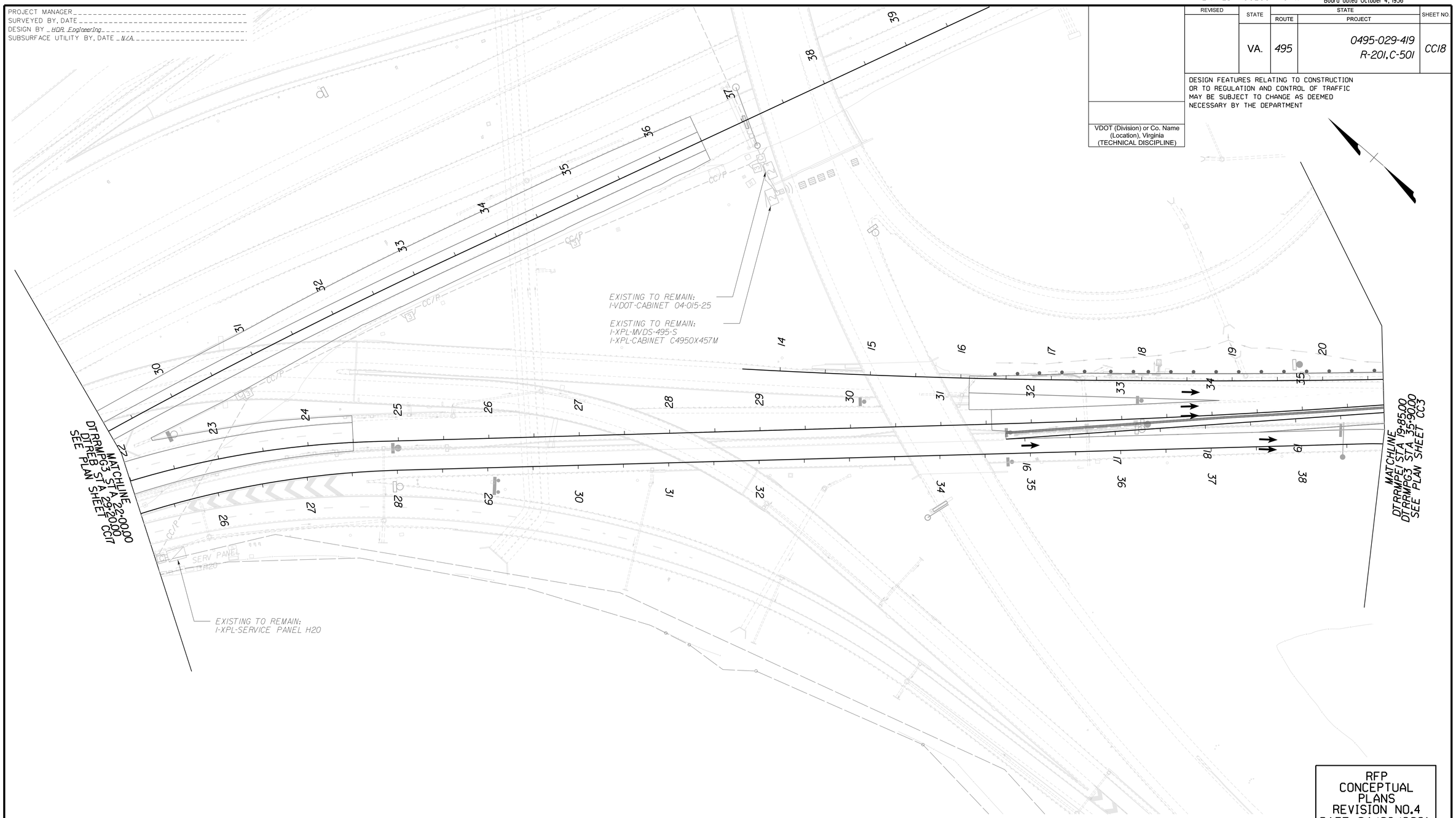
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC18

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

NO PROPOSED ITS WORK ON THIS SHEET

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC18

Friday, April 02, 2021 12:29:55 AM
12:29:55 AM

TMxxxxxxsht_CC19_phl.dgn
Plotted By: ZZHANG

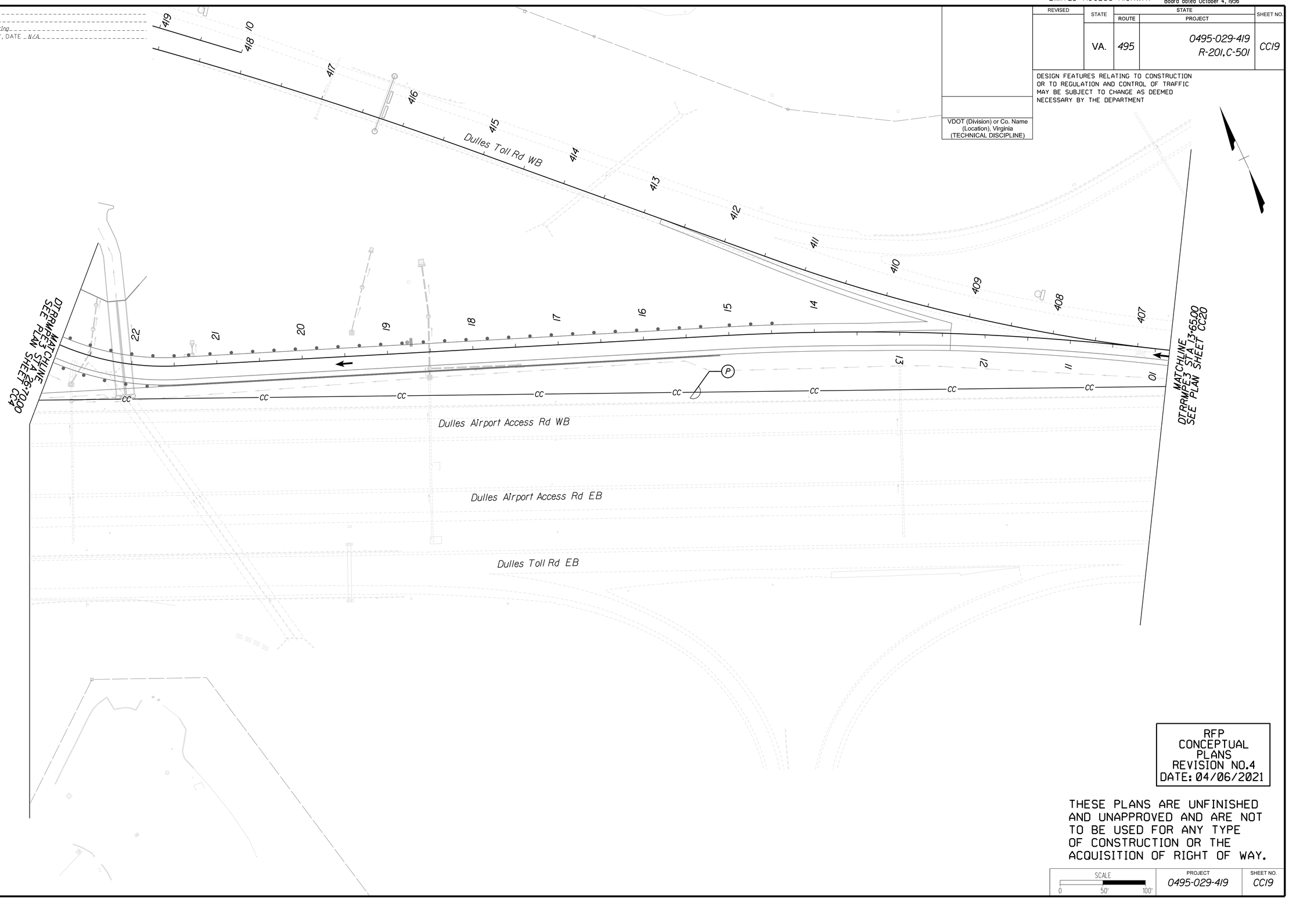
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC19

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC19

Friday, April 02, 2021 12:30:20 AM
12:30:20 AM

TMxxxxxxsht_CC20_ph1.dgn
Plotted By: ZZHANG

LIMITED ACCESS HIGHWAY

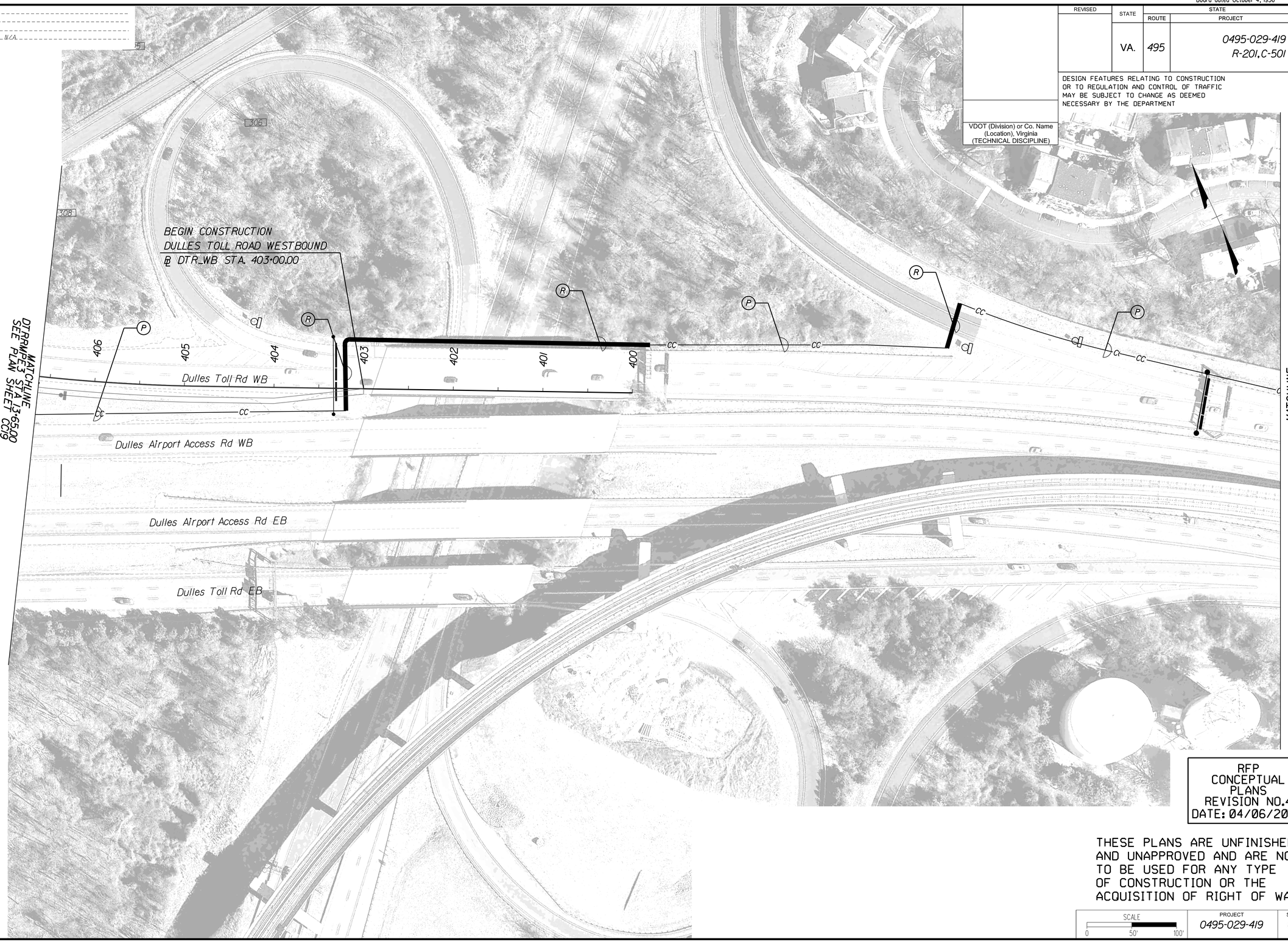
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC20

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE: 0 50' 100'	PROJECT	SHEET NO.
	0495-029-419	CC20

Friday, April 02, 2021 12:30:58 AM
12:30:58 AM

TMxxxxxxsht_CC20A_phl.dgn
Plotted By: ZZHANG

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC20A

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC20A

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISIONS		
No.	Description	Date
3	Revised CCTV and DMS cabinet location per the relocation of DMS	03/09/2021

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC20B

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



NOTE:
1. INSTALL UPS FOR CONFIRMATION PRICING DMS.

RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC20B

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC20C

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

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



RFP CONCEPTUAL PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC20C

Friday, April 02, 2021 12:32:53 AM
12:32:53 AM

TMxxxxxxshf_CC20D_phl.dgn
Plotted By: ZZHANG

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC20D

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

INSTALL:
I-XPL-CABINET-DTR-W-XX

INSTALL:
I-XPL-CCTV-DTR-W-XX

X-DMS

CC/P

MATCHLINE
SEE PLAN SHEET CC20C

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC20D

LIMITED ACCESS HIGHWAY

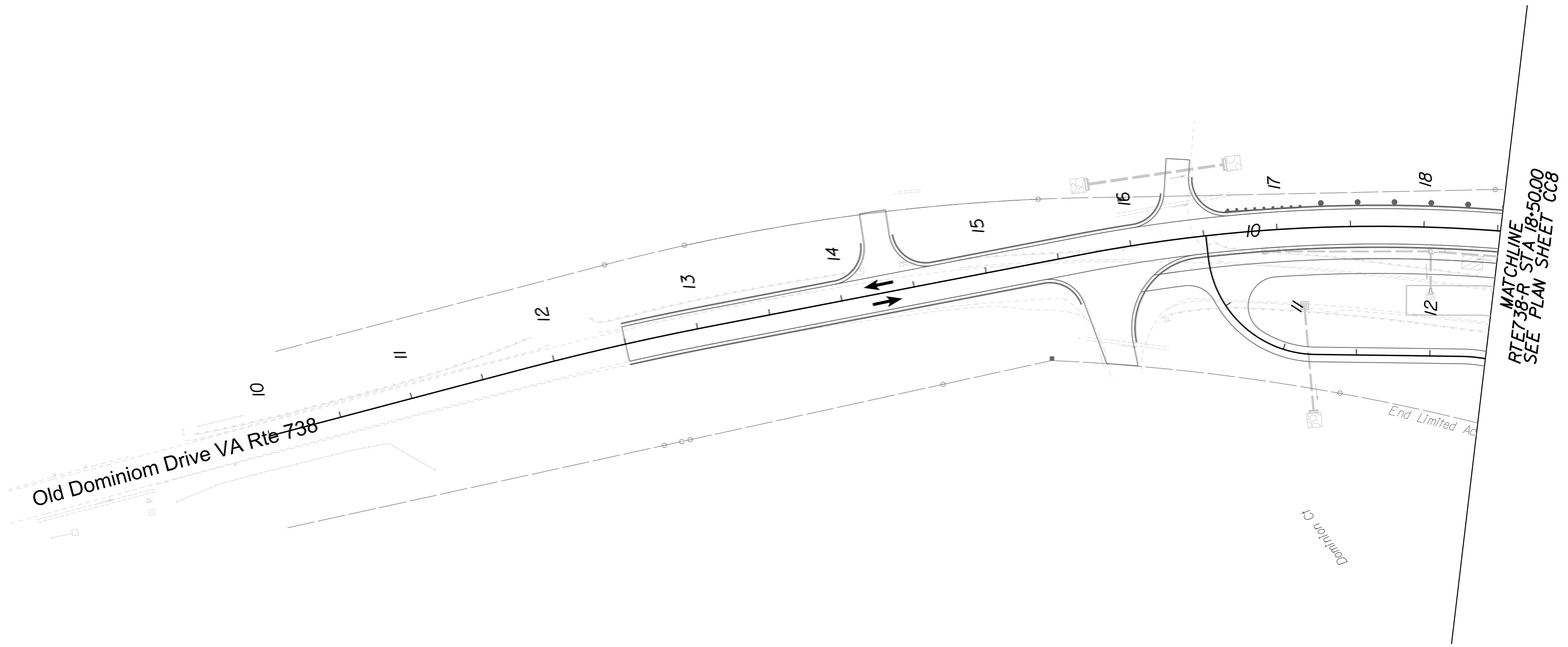
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC21

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



NOTES:

1. NO ITS WORK IS ON THIS SHEET. DRAWING IS INCLUDED FOR CONTINUITY.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC21

LIMITED ACCESS HIGHWAY

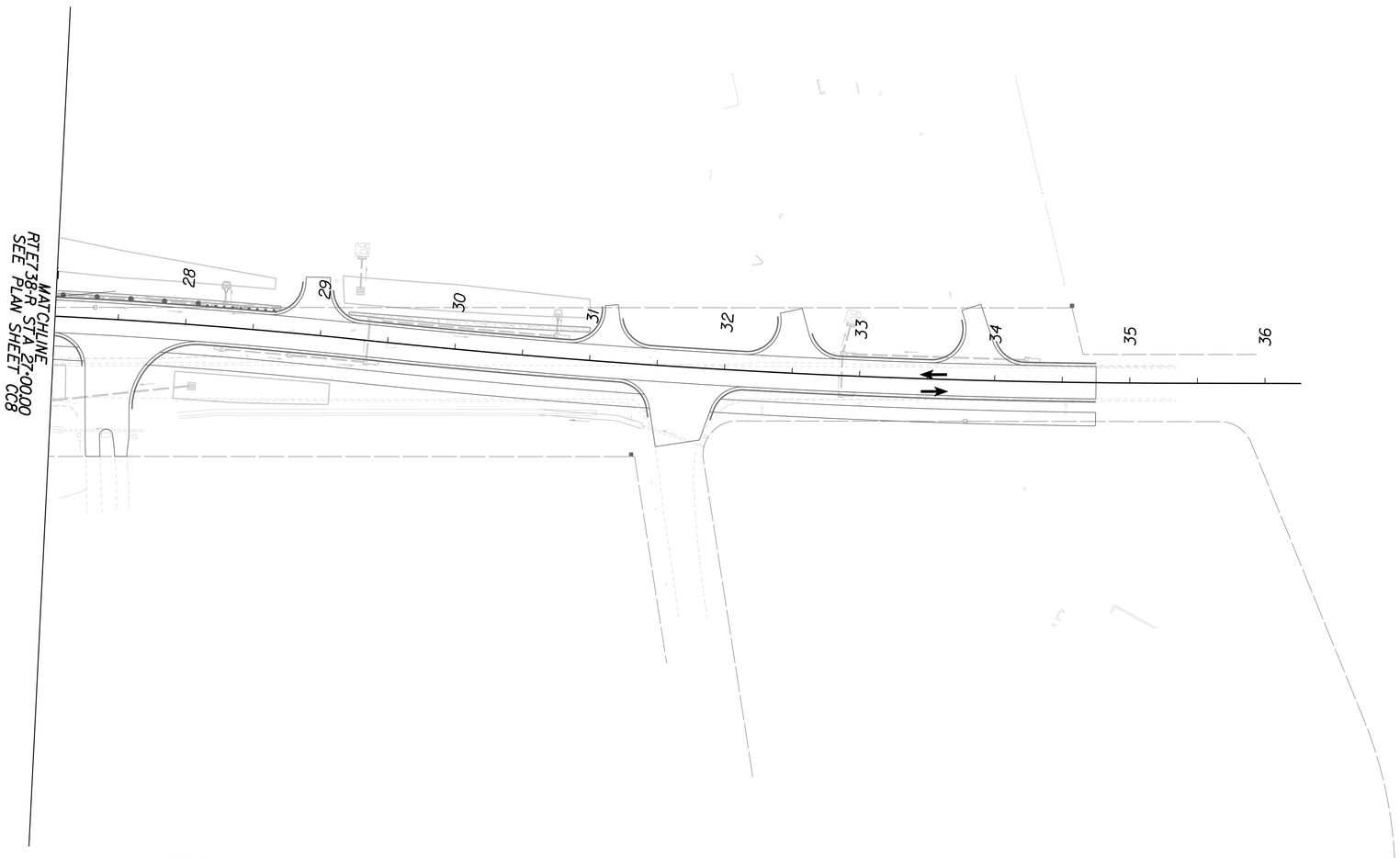
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC22

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



NOTES:

1. NO ITS WORK IS ON THIS SHEET. DRAWING IS INCLUDED FOR CONTINUITY.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC22

LIMITED ACCESS HIGHWAY

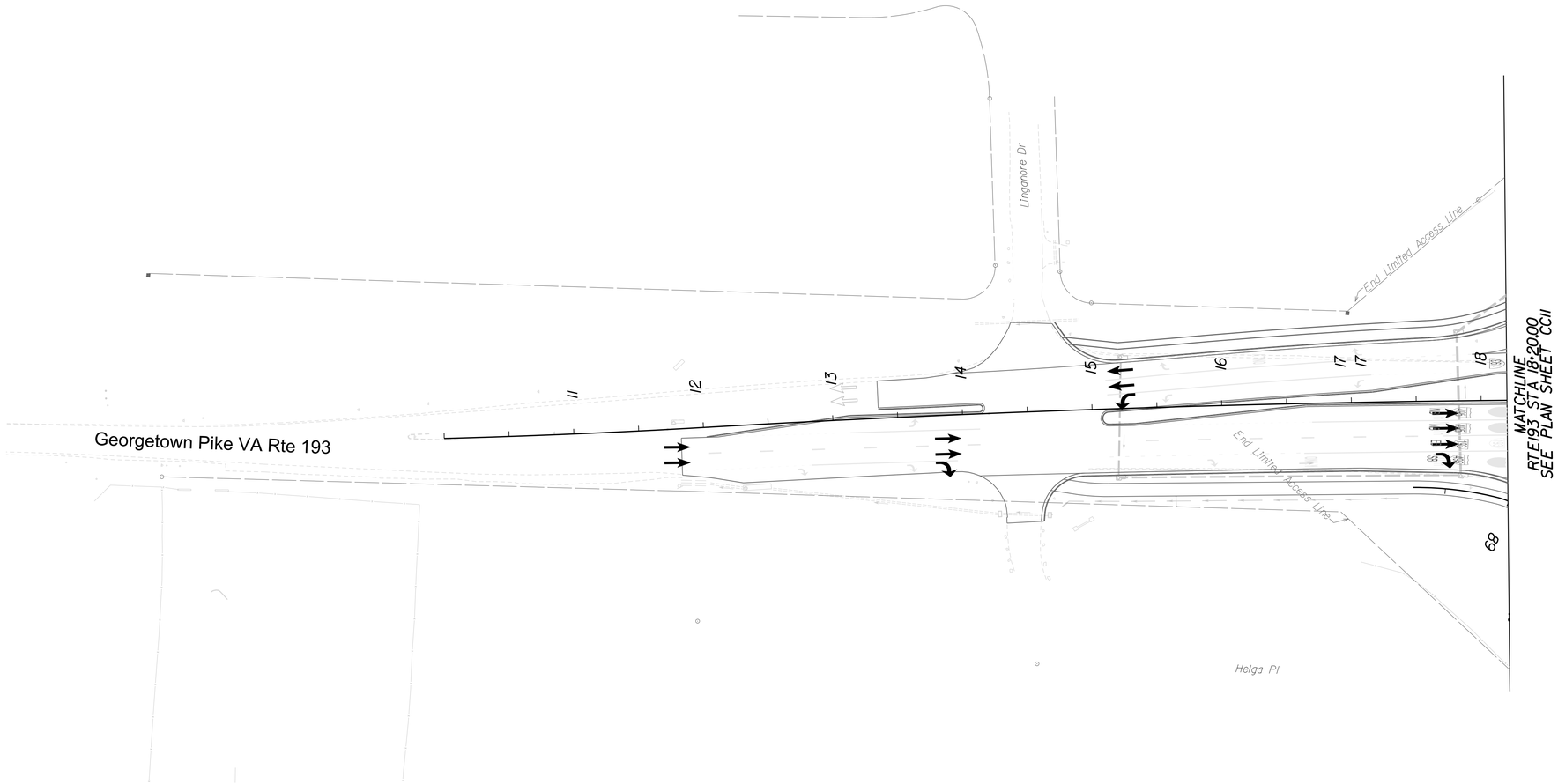
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	CC23

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



NOTE:

1. NO ITS WORK IS ON THIS SHEET. DRAWING IS INCLUDED FOR CONTINUITY.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC23

LIMITED ACCESS HIGHWAY

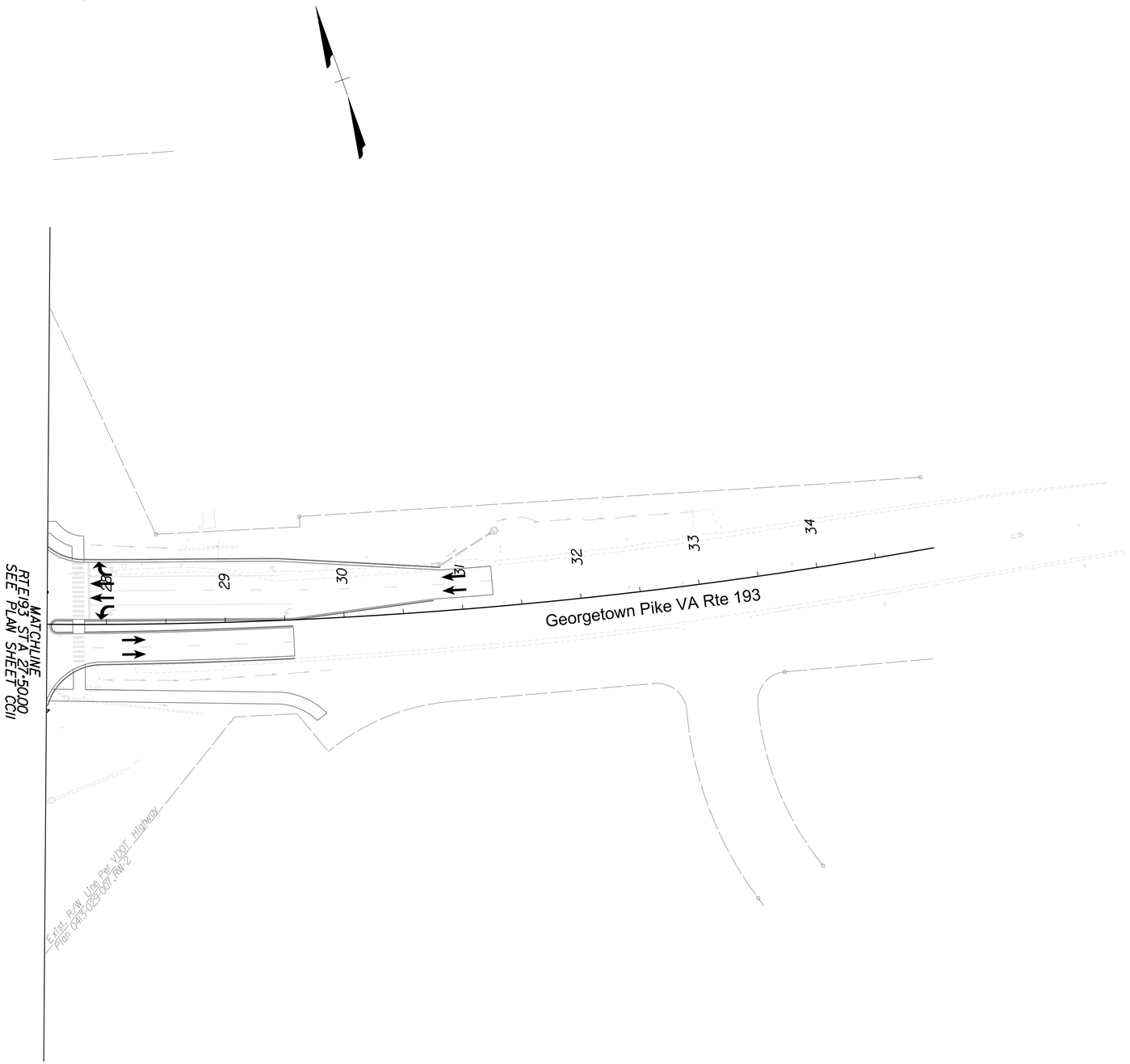
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC24

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



NOTE:

1. NO ITS WORK IS ON THIS SHEET. DRAWING IS INCLUDED FOR CONTINUITY.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC24

LIMITED ACCESS HIGHWAY

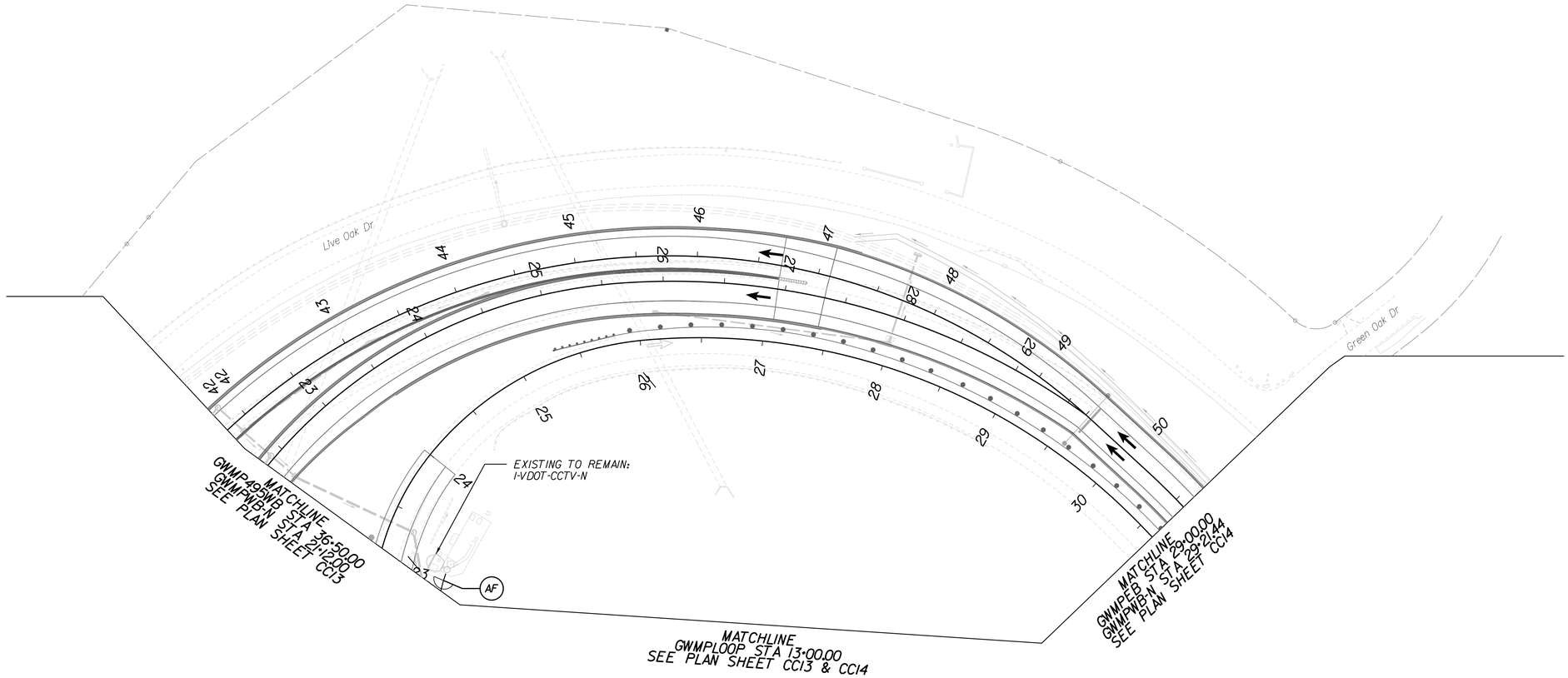
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	CC25

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC25

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

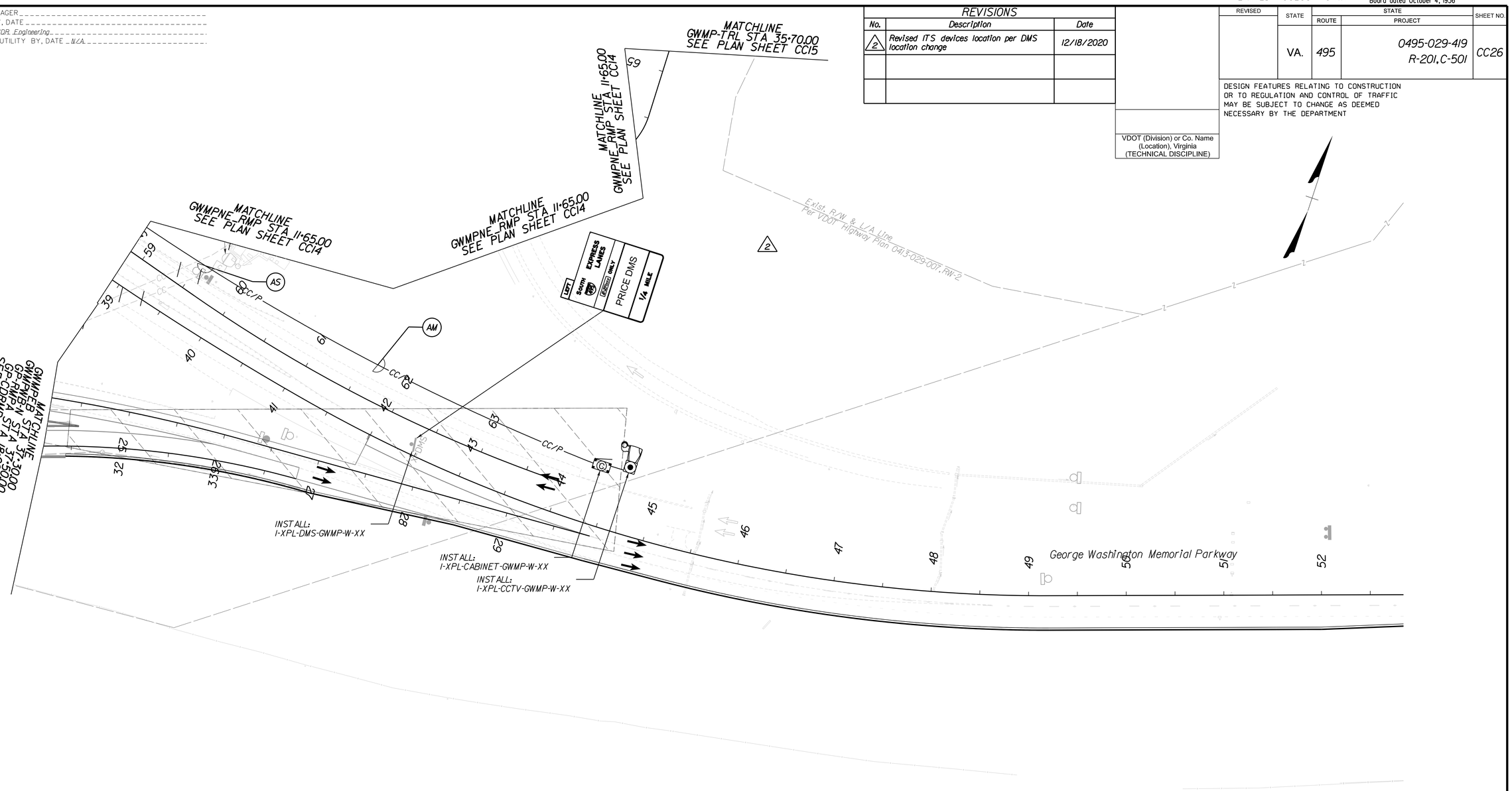
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
2	Revised ITS devices location per DMS location change	12/18/2020

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC26

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



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC26

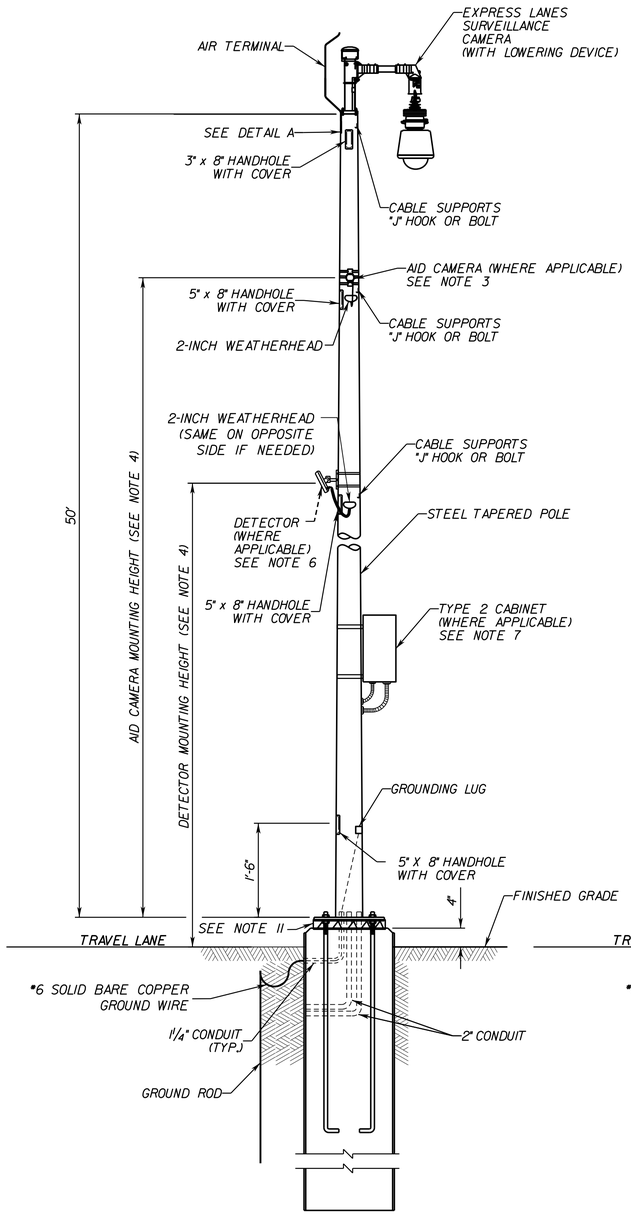
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

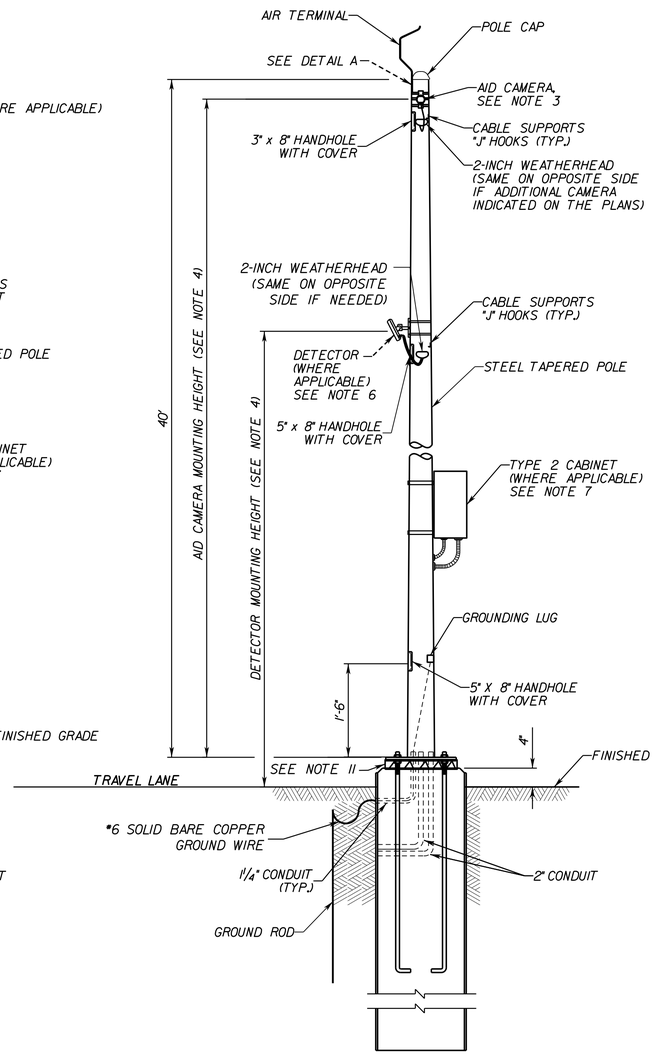
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(A1)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

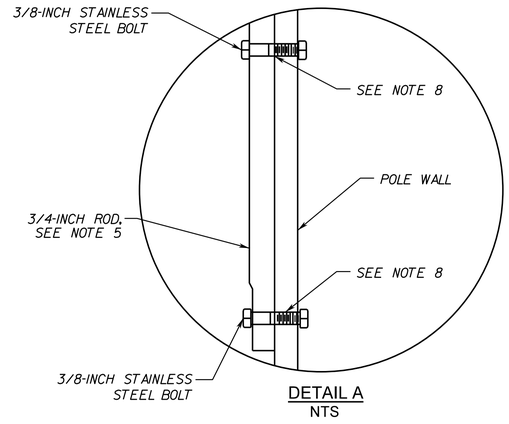


TYPICAL 50' CAMERA POLE
NTS



TYPICAL AID CAMERA POLE
NTS

STEEL POLE DETAIL (GROUND MOUNTED)
NTS



DETAIL A
NTS

NOTES:

1. ALL CONDUITS AND ANCHOR BOLTS SHALL BE RIGIDLY INSTALLED BEFORE THE CONCRETE IS PLACED. CONDUITS SHALL BE FLUSH WITH THE TOP OF THE ANCHOR BOLTS. THE CENTER OF WHICH SHALL COINCIDE WITH THE CENTER OF THE FOUNDATION.

2. HIGH STRENGTH BOLTS, NUTS AND WASHERS SHALL CONFORM TO AASHTO M164 OR HIGH STRENGTH BOLTS CONFORMING TO ASTM A193 AND GRADES B5, B6, B7 OR B16 AND NUTS CONFORMING TO ASTM A194 WILL BE PERMITTED.

3. SEE CCTV AND AID CAMERA MOUNTING DETAILS FOR EQUIPMENT INSTALLATION DETAILS ON SHEET CC(A3)

4. DESIGN BUILDER SHALL PROVIDE CROSS SECTIONS AT EACH ITS EQUIPMENT LOCATION TO SHOW MOUNTING HEIGHTS.

5. PROVIDE A SOLID COPPER AIR TERMINAL, 0.75 INCHES IN DIAMETER. THE LENGTH OF THE AIR TERMINAL SHALL BE SUCH THAT IT PROJECTS 5 FEET ABOVE THE TOP OF THE CAMERA. AIR TERMINAL SHALL BE ATTACHED WITH TWO BOLTS.

6. SEE DETECTOR MOUNTING DETAILS ON SHEET CC(A4).

7. CABINETS ARE NOT REQUIRED AT ALL LOCATIONS. TYPE 2 CABINET SHALL BE MOUNTED ON THE SIDE OF THE POLE AS SHOWN ON SHEET CC(B2).

8. AT THE POINTS WHERE THE ROD BOLTS TO THE POLE, USE A CONDUCTIVE JOINT COMPOUND TO MINIMIZE GALVANIC CORROSION OF THE DISSIMILAR METALS.

9. POLE AND FOUNDATION SHALL BE DESIGNED BY THE DESIGN BUILDER TO CONFORM TO THE REQUIREMENTS OF THESE DETAILS AND VDOT STANDARDS.

10. THE REQUIRED BARRIER OR GUIDE RAIL BETWEEN THE TRAVEL LANES AND THE POLES IS NOT SHOWN ON THIS POLE AND FOUNDATION DETAIL SHEET.

11. DESIGN BUILDER SHALL FURNISH AND INSTALL SCREEN (CHICKEN WIRE) TO PREVENT RODENT ENTRY AT THE BASE OF ALL TTMS POLES.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

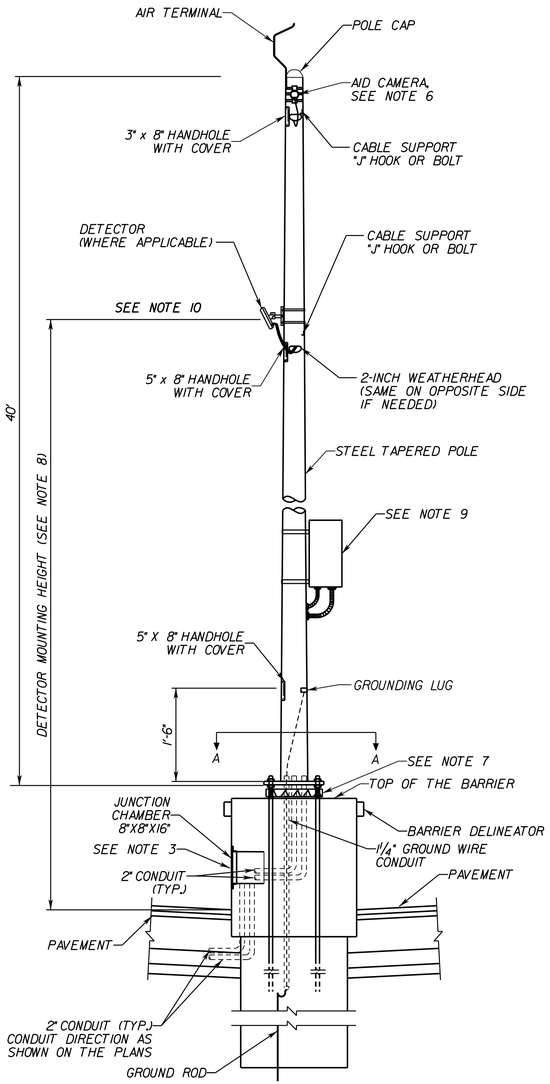
	PROJECT	SHEET NO.
	0495-029-419	CC(A1)

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

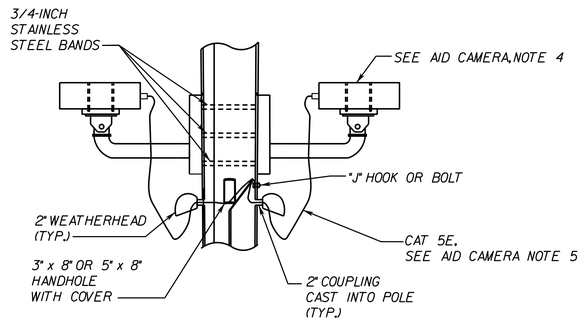
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(A2)

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

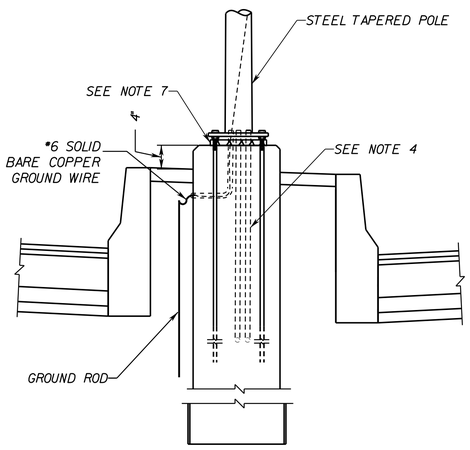
VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



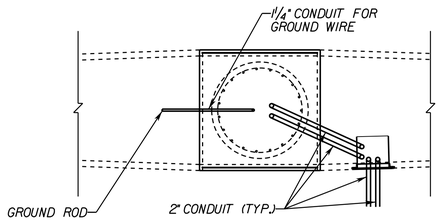
40' AID CAMERA POLE ON BARRIER
NTS



AID CAMERA MOUNTING DETAIL
NTS



CAMERA POLE ON CONCRETE CAPPED MEDIAN
NTS



SECTION A-A
CAMERA POLE ON BARRIER PLAN VIEW
NTS

NOTES:

1. ALL CONDUITS AND ANCHOR BOLTS SHALL BE RIGIDLY INSTALLED BEFORE THE CONCRETE IS PLACED. CONDUITS SHALL BE FLUSH WITH THE TOP OF THE ANCHOR BOLTS. THE CENTER OF WHICH SHALL COINCIDE WITH THE CENTER OF THE FOUNDATION.

2. ANCHOR BOLTS SHALL BE PER AASHTO M314 GRADE 55 WITH SUPPLEMENTAL REQUIREMENT OF S1. NUTS SHALL CONFORM TO ASTM A563. WASHERS SHALL CONFORM TO ASTM F436.

3. JUNCTION CHAMBER SHALL BE FACING EXPRESS LANES. IF FIBER OPTIC CABLE IS TO PASS THROUGH JUNCTION CHAMBER, SIZE SHALL BE INCREASED TO 10"X18"X20". SEE PLANS FOR TYPE OF CABLES TO BE INSTALLED THROUGH JUNCTION CHAMBER.

4. CONDUIT ORIENTATION AND JUNCTION BOX LOCATION AS SHOWN ON THE PLANS.

5. SEE STANDARD DETAIL BCS-29A FOR DETAILS OF JUNCTION CHAMBER. THE CONTRACTOR SHALL USE HEX HEAD BOLTS IN LIEU OF FLAT HEAD SCREWS FOR FASTENING COVER PLATE TO CHAMBER.

6. SEE GROUND-MOUNT STEEL POLE DETAIL FOR AIR TERMINAL DETAILS.

7. DESIGN BUILDER SHALL FURNISH AND INSTALL SCREEN (CHICKEN WIRE) TO PREVENT RODENT ENTRY AT THE BASE OF ALL TTMS POLES.

8. DESIGN BUILDER SHALL PROVIDE CROSS SECTIONS AT EACH ITS EQUIPMENT LOCATION TO SHOW MOUNTING HEIGHTS.

9. SEE PLANS FOR CABINET TYPE. CABINETS ARE NOT REQUIRED AT ALL LOCATIONS. FOR TYPE 2 CABINET, INSTALL 1-3" COMMUNICATION AND 1-2" POWER FLEXIBLE METAL CONDUITS. TYPE 2 CABINET SHALL BE MOUNTED ON THE SIDE OF THE POLE AS SHOWN ON SHEET CC(B2). FOR TYPE 1 CABINET, INSTALL 1-2" FLEXIBLE METAL CONDUIT. TYPE 1 CABINET SHALL BE CENTERED 5 FEET ABOVE GRADE EXCEPT WHERE A HIGHER MOUNTING HEIGHT IS NEEDED TO AVOID CONFLICTS.

10. SEE SHEET CC(A4) FOR ADDITIONAL DETECTOR MOUNTING DETAILS.

11. CAMERA POLE AND FOUNDATION SHALL BE DESIGNED BY THE CONTRACTOR TO CONFORM TO THE REQUIREMENT OF THESE DETAILS AND VDOT STANDARDS.

AID CAMERA NOTES

1. RFFER TO THE TR FOR THE MODEL TYPE OF THE AID CAMERA.

2. AID CAMERAS SHALL BE INSTALLED PER VERTICAL POLE MOUNT INSTALLATION RECOMMENDED BY THE MANUFACTURER.

3. DESIGN BUILDER SHALL PROVIDE CROSS SECTIONS AT EACH ITS CAMERA AND DETECTOR LOCATION TO SHOW MOUNTING HEIGHTS AND ORIENTATION OF CAMERAS.

4. AID CAMERA SHALL BE MOUNTED ABOVE WEATHERHEAD.

5. DRIP LOOP SHALL BE MAINTAINED AT ALL TIMES.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

STEEL POLE DETAIL (BARRIER WALL MOUNTED)

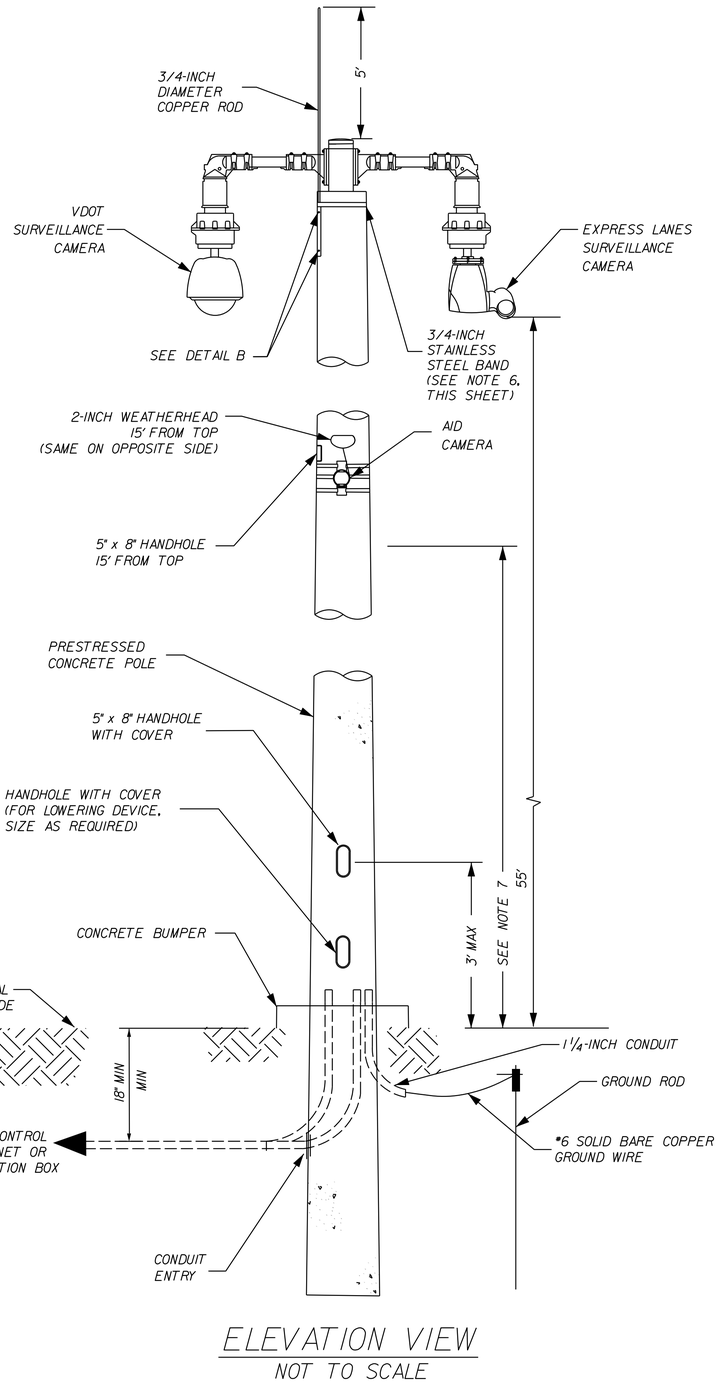
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

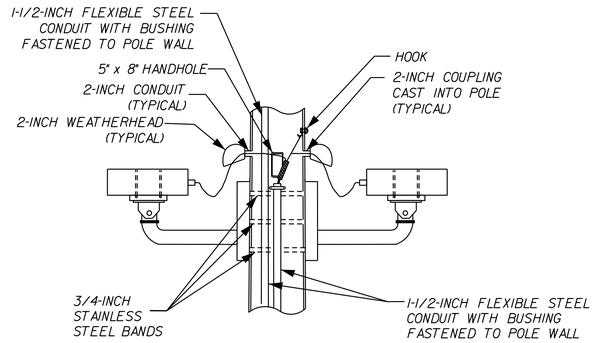
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(A3)

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

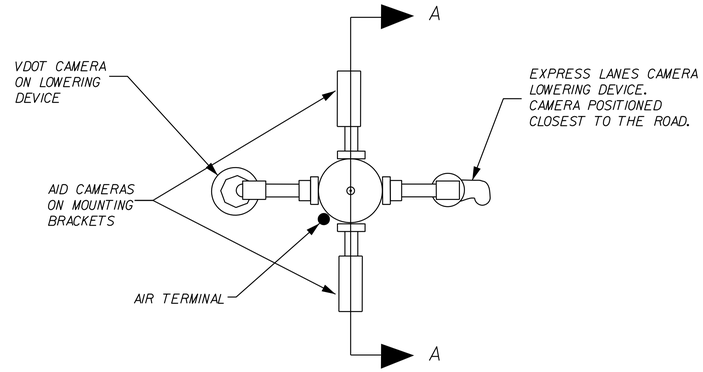
VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



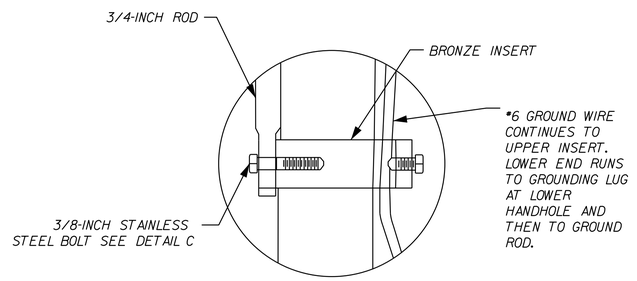
ELEVATION VIEW
NOT TO SCALE



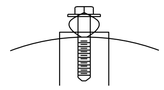
SECTION A-A
NOT TO SCALE



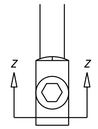
PLAN VIEW
NOT TO SCALE



DETAIL B



SECTION Z-Z



DETAIL C

NOTES

1. INSTALL POLE SO THAT LOWERING DEVICE ARMS ARE PERPENDICULAR TO THE ROAD OBSERVED AND AID CAMERAS ARE PARALLEL TO IT.
2. GRIND 3/4-INCH ROD TO A POINT AT TOP END.
3. INSTALL 2 BRONZE INSERTS IN POLE AT 6 INCHES AND 18 INCHES FROM TOP. (THREADED 3/8-16) DETAIL B.
4. GROUND INSERTS, STRANDS, CONDUIT AND TENON BOLTS TOGETHER AND TO #6 GROUND WIRE.
5. 3/4-INCH ROD TO BE FLATTENED IN THE AREA OF CONTACT WITH THE INSERTS TO A THICKNESS OF 1/2-INCH. SEE DETAIL C, SECTION Z-Z.
6. INSTALL STAINLESS STEEL BAND AROUND ROD AND POLE 3 INCHES FROM TOP OF THE POLE.
7. ASK THE FIELD ENGINEER FOR THE MOUNTING HEIGHT RECOMMENDED BY THE AID SYSTEM PROVIDER. IF NO RECOMMENDATION IS AVAILABLE, MOUNT 40 FEET ABOVE GROUND.
8. AID CAMERAS SHALL BE INSTALLED PER VERTICAL POLE MOUNT INSTALLATION RECOMMENDATIONS BY THE MANUFACTURER.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

CONCRETE POLE DETAIL (GROUND MOUNTED)

	PROJECT	SHEET NO.
	0495-029-419	CC(A3)

LIMITED ACCESS HIGHWAY

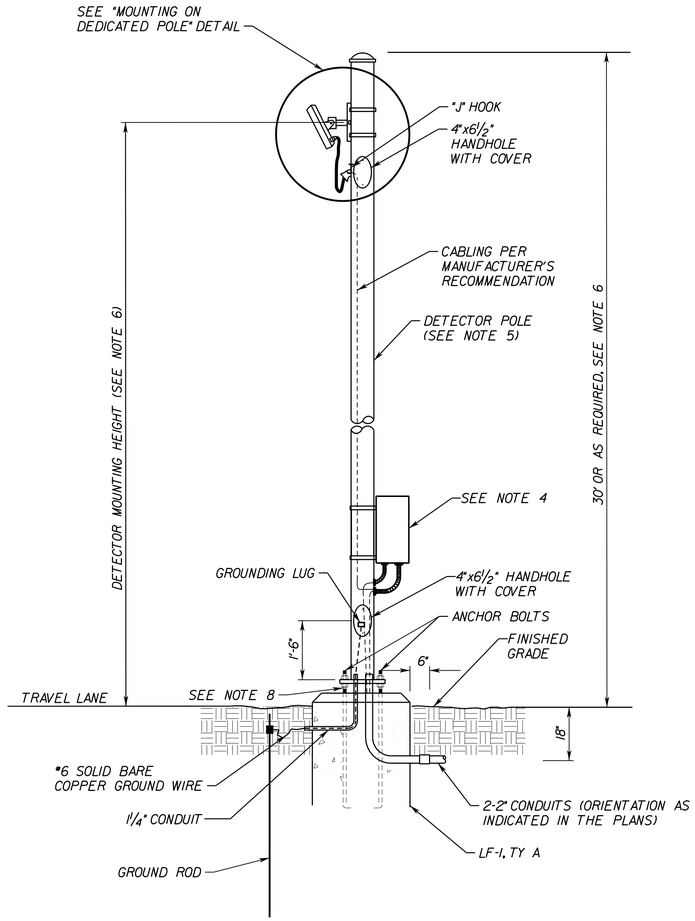
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

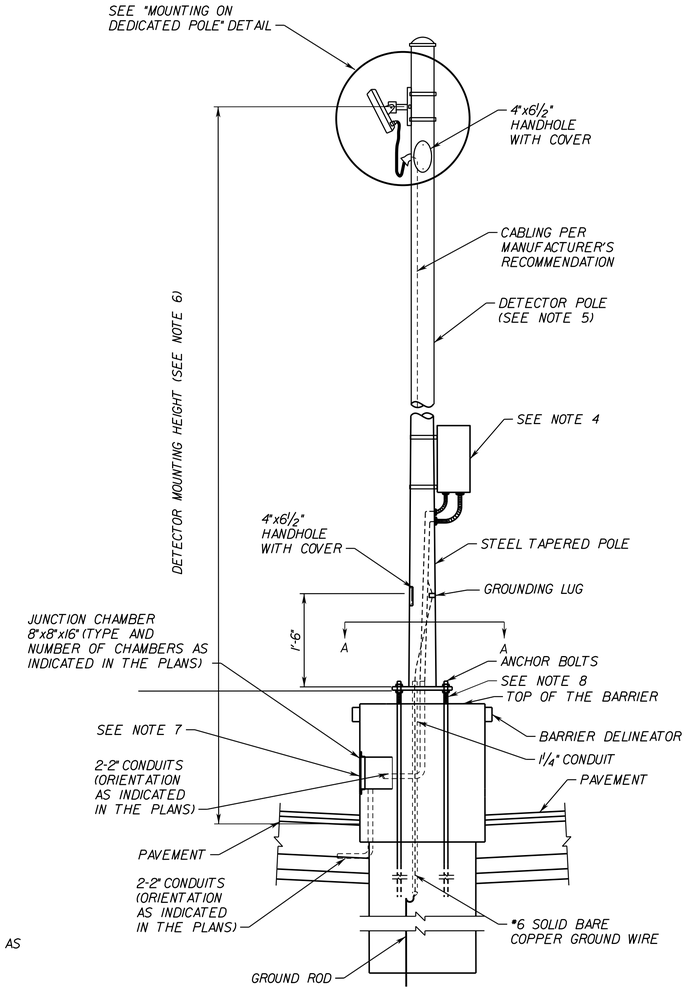
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(A4)

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

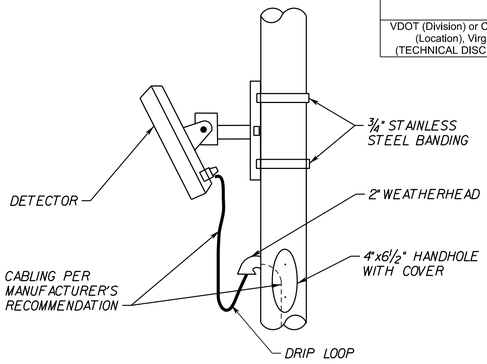
VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



VEHICLE DETECTOR ON DEDICATED POLE GROUND MOUNTED
NTS

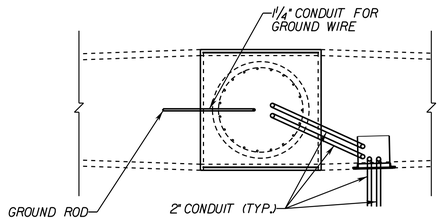


VEHICLE DETECTOR ON DEDICATED POLE
(BARRIER WALL MOUNTED)
NTS



MOUNTING ON CAMERA OR DEDICATED POLE
NTS

DETECTOR POLE DETAIL
NTS



SECTION A-A
CAMERA POLE ON BARRIER PLAN VIEW
NTS

NOTES:

1. POLE SHALL BE PROTECTED AS SHOWN IN PLANS.
2. EACH FOUNDATION SHALL BE PERMANENTLY MARKED TO INDICATE ALL SIDES FROM WHICH CONDUITS PASS. THIS MARK SHALL BE MADE WITH A TROWEL WHEN FINISHING THE CONCRETE AND SHALL BE ¼" DEEP AND 4" TO 6" LONG. LOCATIONS OF EMPTY CONDUITS SHALL HAVE AN ADDITIONAL 2" LONG MARK MADE PERPENDICULAR TO AND CENTERED ON THIS MARKING.
3. ALL CONNECTORS, BANDING AND MISCELLANEOUS EQUIPMENT SHALL BE STAINLESS STEEL.
4. CABINETS ARE NOT REQUIRED AT SOME LOCATIONS. SEE SHEET CC(B2) FOR CABINET MOUNTING DETAILS.
5. DETECTOR POLE SHALL MEET THE REQUIREMENTS OF VDOT STANDARD LP-2 WITH FOLLOWING EXCEPTIONS:
   - 2" CONDUIT COUPLING THROUGH WALL WELDED TO POLE WALL ALL THE WAY AROUND. PROVIDE REMOVABLE PLUG IF NOT USED.
   - WEATHERHEAD 5' FROM TOP
   - HANDHOLE 5' FROM TOP
   - TOP CAP
6. DESIGN BUILDER SHALL PROVIDE CROSS SECTIONS AT EACH ITS EQUIPMENT LOCATION TO SHOW MOUNTING HEIGHTS AND OFFSETS.
7. JUNCTION CHAMBER SHALL BE FACING EXPRESS LANES. IF FIBER OPTIC CABLE IS TO PASS THROUGH JUNCTION CHAMBER, SIZE SHALL BE INCREASED TO 10"x18"x20". SEE PLANS FOR TYPE OF CABLES TO BE INSTALLED THROUGH JUNCTION CHAMBER.
8. DESIGN BUILDER SHALL FURNISH AND INSTALL SCREEN (CHICKEN WIRE) TO PREVENT RODENT ENTRY AT THE BASE OF ALL TTMS POLES.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(A4)

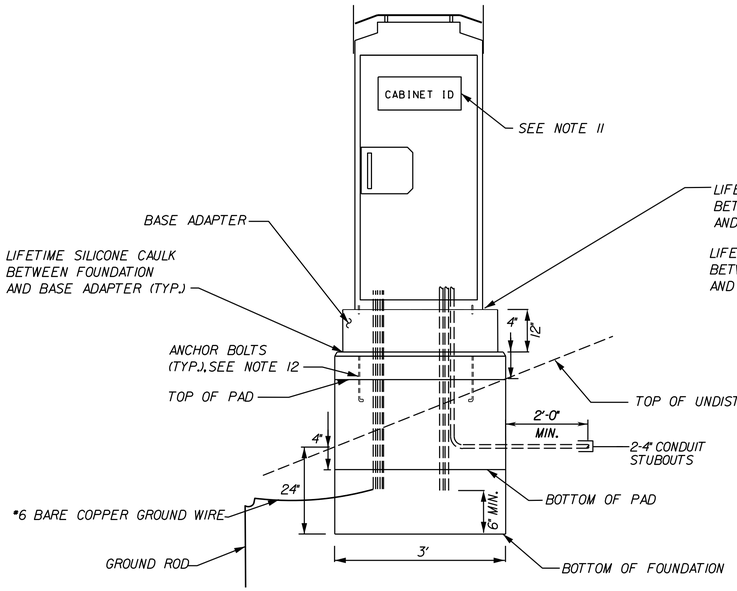
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

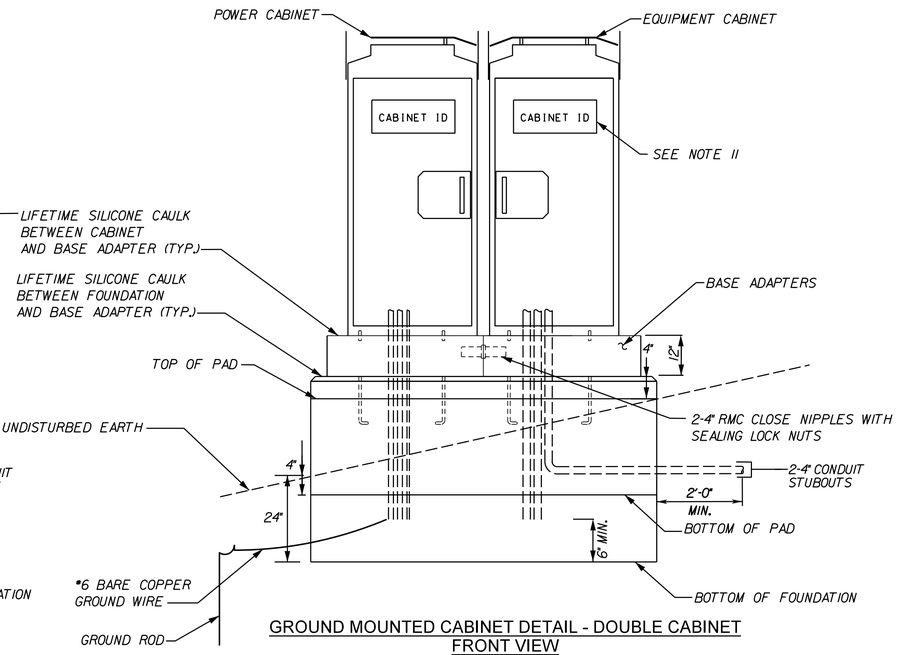
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(BI)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



GROUND MOUNTED CABINET DETAIL - SINGLE CABINET
FRONT VIEW
NTS

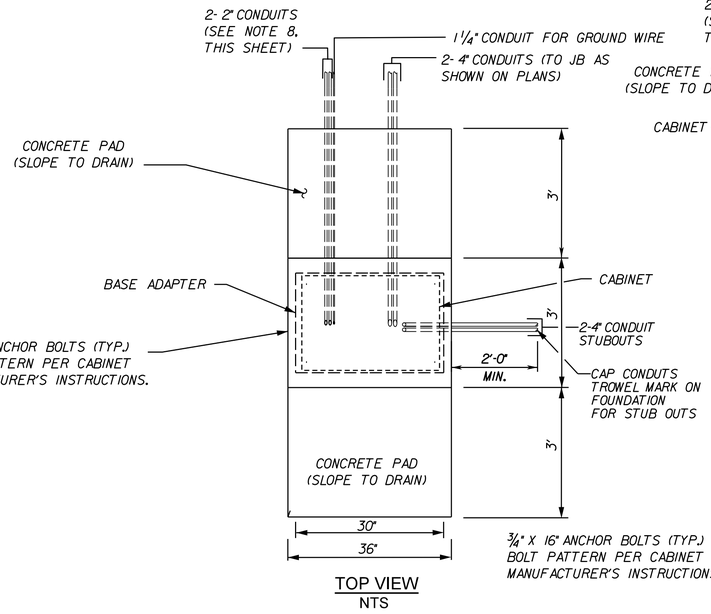


GROUND MOUNTED CABINET DETAIL - DOUBLE CABINET
FRONT VIEW
NTS

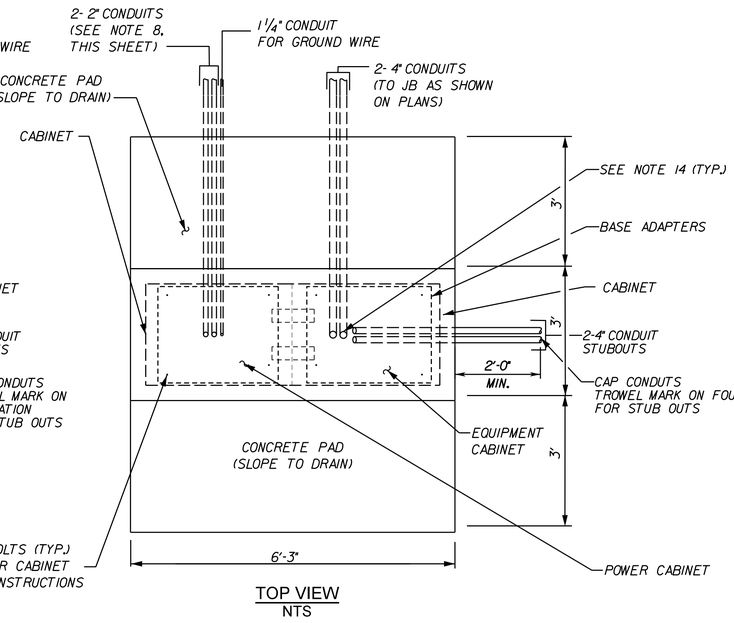
FOUNDATION NOTES:

1. ALL EXPOSED CONCRETE SURFACE EDGES SHALL BE CHAMFERED ¾ INCHES.
2. ANCHOR BOLTS AND BOLT TEMPLATE SHALL BE FURNISHED WITH THE CABINET.
3. THE CABINETS AND BASE ADAPTERS SHALL BE SEALED WITH A SILICONE CAULK WHERE THEY MATE WITH EACH OTHER OR CONCRETE.
4. BELL ENDS SHALL BE INSTALLED ON THE END OF PVC CONDUITS. GROUNDING BUSHINGS SHALL BE INSTALLED ON THE END OF METAL CONDUITS.
5. PLUG EMPTY CONDUITS TO PREVENT MOISTURE AND RODENT ENTRY.
6. TWO ½ INCH DIAMETER WEEPHOLES SHALL BE PROVIDED IN THE FOUNDATION AND LOCATED 2 INCHES INSIDE OF THE BACK OR SIDE EDGES OF THE BASE ADAPTER. WEEPHOLES SHALL BE SLOPED TO ALLOW THE OUTLET TO EXIT 3 INCHES BELOW THE TOP OF FOUNDATION. TWO INCHES OF THE OUTLET SHALL BE FIBER FILLED.
7. THE FOUNDATION SHALL BE INSTALLED WITH THE DIRECTION OF THE SLOPE SO THAT BOTH THE CONCRETE PADS CAN BE ACCESSED FROM THE UPHILL SIDE.
8. TWO 2" CONDUITS UNLESS MORE ARE SHOWN ON THE PLANS.
9. NO CONCRETE PAD IS REQUIRED IF CABINET IS INSTALLED ON THE CAPPED MEDIAN.
10. CONTRACTOR SHALL STUB OUT CONDUITS A MINIMUM OF 24 INCHES FROM THE EDGE OF THE FOUNDATION OR PAD. DIRECTION OF STUB OUTS SHALL BE DETERMINED IN THE FIELD. STUB OUTS SHALL BE IN DIRECTION THAT ALLOWS FOR FUTURE ACCESS BASED ON CURRENT SITE CONDITIONS. PROVIDE 2 ½" TROWEL MARKS IN FOUNDATION/PAD INDICATING DIRECTION OF STUB OUTS.
11. DOUBLE CABINET SHALL BE PROVIDED FOR THE VDOT ONLY. ALL OTHER GROUND-MOUNTED CABINETS SHALL BE A SINGLE CABINET.
12. THE CONTRACTOR MAY USE AN EPOXY ANCHOR BOLT SYSTEM WHERE FIELD DRILL IS PERMITTED ON THE CONCRETE FOUNDATION. IF USED, THE EPOXY SHALL MEET THE CONSTRUCTION GRADE AS APPROVED BY THE ENGINEER.
13. DESIGN BUILDER SHALL PROVIDE FALL PROTECTION WHERE REQUIRED BY OSHA REGULATIONS. THIS MAY INCLUDE DESIGN AND CONSTRUCTION OF STAIRS, PLATFORMS, AND RAILINGS IN ORDER TO PROVIDE SAFE ACCESS TO AND NEC - COMPLIANT WORKING SPACE AT THE CABINETS LOCATED ON SLOPES.
14. TYPICAL FOR ALL CONDUIT ENTRIES TO ALL CABINETS. A) CAP SPARE CONDUIT. B) FURNISH AND INSTALL COPPER WOOL AND DUCT SEAL AROUND CABLES TO PREVENT RODENT ENTRY AT ALL CONDUIT ENTERING THE CABINET.
15. ALL EXPRESS LANES CABINET SHALL BE EQUIPPED WITH LOCKS APPROVED BY CONCESSIONAIRE.

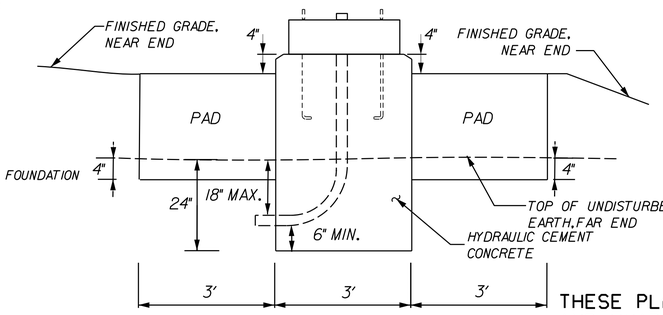
CABINET FOUNDATION DETAIL
NTS



TOP VIEW
NTS



TOP VIEW
NTS



END VIEW LOOKING DOWNHILL
NTS

RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

PROJECT	SHEET NO.
0495-029-419	CC(BI)

LIMITED ACCESS HIGHWAY

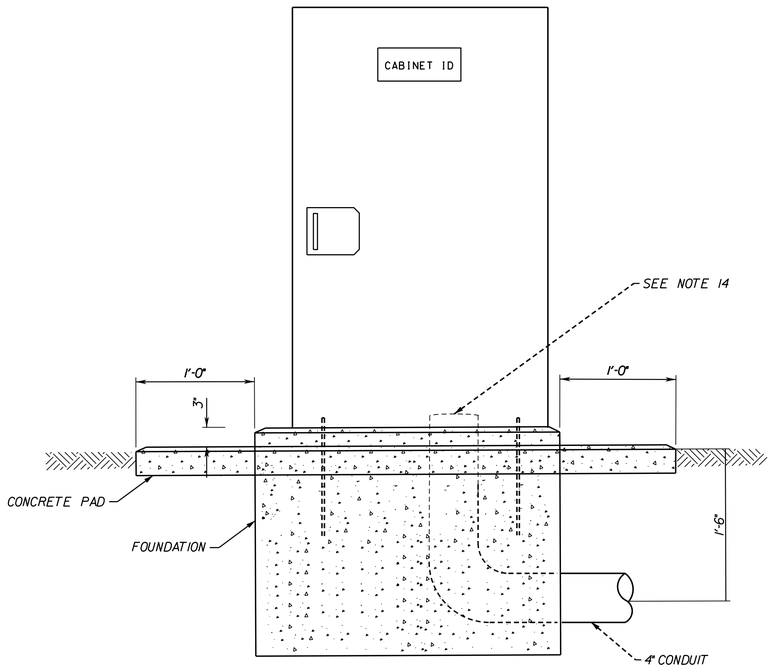
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

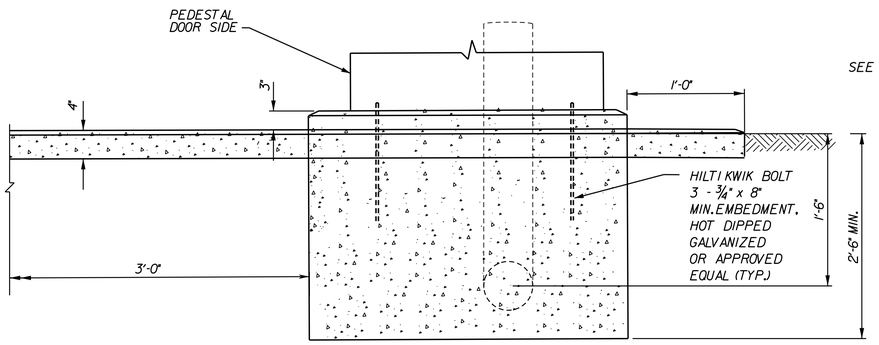
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(B2)

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

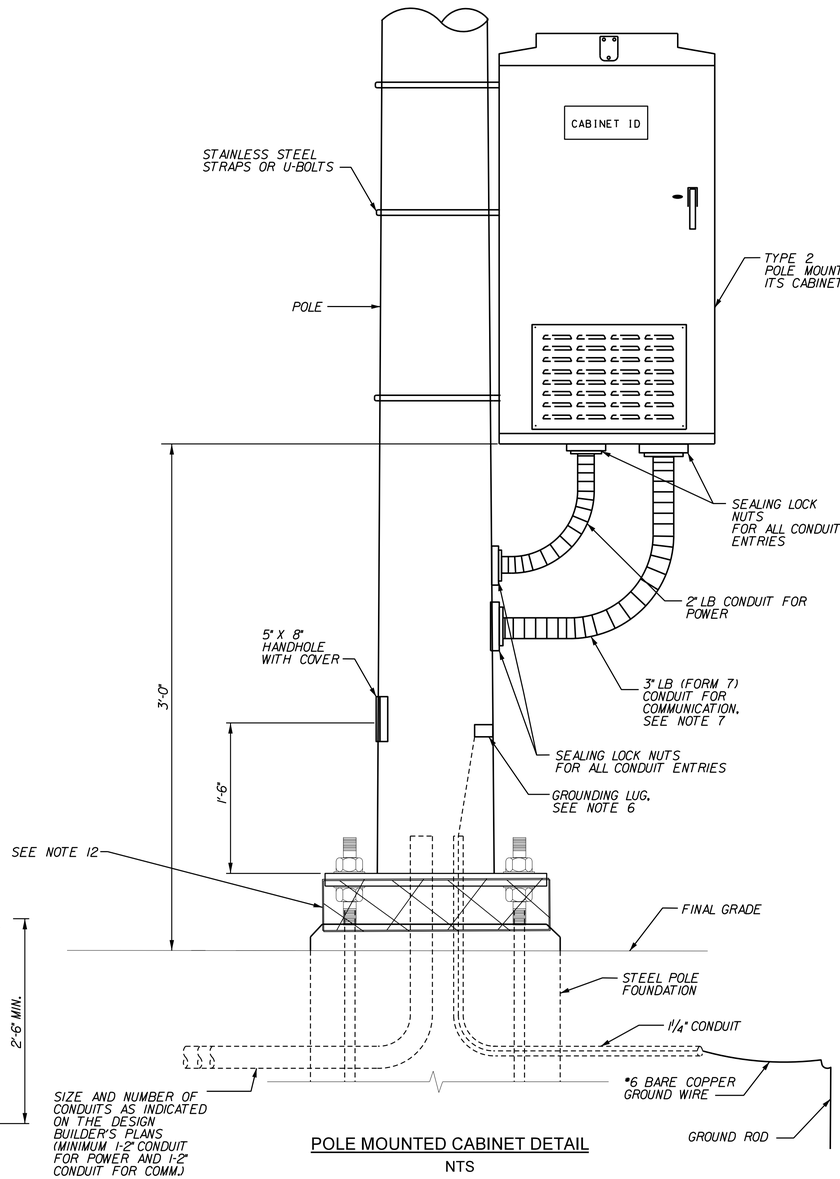
VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



TYPICAL PEDESTAL FRONT VIEW
NTS



PEDESTAL FOUNDATION SIDE VIEW
NTS



POLE MOUNTED CABINET DETAIL
NTS

NOTES:

1. ALL EXPOSED CONCRETE SURFACE EDGES SHALL BE CHAMFERED 3/4 INCHES.
2. A BELL END SHALL BE INSTALLED ON THE END OF PVC CONDUIT.
3. ANCHOR BOLT TEMPLATE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
4. SPLICE PEDESTAL SHALL ACCOMMODATE AT LEAST FOUR (4) FIBER OPTIC CABLES.
5. SPLICE PEDESTAL SHALL ACCOMMODATE A SPLICE ENCLOSURE(S) WITH A CAPACITY OF AT LEAST 72 FUSION SPLICES.
6. BONDING WIRE SHALL RUN FROM GROUNDING LUG IN THE STRUCTURE TO GROUND BUS IN A CABINET.
7. MAINTAIN BENDING RADIUS AS REQUIRED FOR FIBER OPTIC CABLES.
8. PROVIDE PEDESTAL SHOP DRAWINGS OR CATALOG CUT FOR THE ENGINEER APPROVAL.
9. NO CONCRETE PAD IS REQUIRED IF PEDESTAL IS INSTALLED ON THE CAPPED MEDIAN.
10. THE CONTRACTOR MAY USE AN EPOXY ANCHOR BOLT SYSTEM WHERE FIELD DRILL IS PERMITTED ON THE CONCRETE FOUNDATION. IF USED, THE EPOXY SHALL MEET THE CONSTRUCTION GRADE AS APPROVED BY THE ENGINEER.
11. ALL EXPRESS LANES PEDESTALS SHALL BE EQUIPPED WITH LOCKS APPROVED BY CONCESSIONARE.
12. DESIGN BUILDER SHALL FURNISH AND INSTALL SCREEN (CHICKEN WIRE) TO PREVENT RODENT ENTRY AT THE BASE OF ALL TTMS POLES.
13. SCREEN ALL WEEP HOLES TO PREVENT RODENT ENTRY.
14. TYPICAL FOR ALL CONDUIT ENTRIES TO ALL CABINETS. A) CAP SPARE CONDUIT. B) FURNISH AND INSTALL COPPER WOOL AND DUCT SEAL AROUND CABLES TO PREVENT RODENT ENTRY AT ALL CONDUITS ENTERING THE CABINET.
15. DESIGN BUILDER SHALL PROVIDE FALL PROTECTION WHERE REQUIRED BY OSHA REGULATIONS. THIS MAY INCLUDE DESIGN AND CONSTRUCTION OF STAIRS, PLATFORMS, AND RAILINGS IN ORDER TO PROVIDE SAFE ACCESS TO AND NEC - COMPLIANT WORKING SPACE AT THE CABINETS LOCATED ON SLOPES.
16. ALL EXPRESS LANES CABINET SHALL BE EQUIPPED WITH LOCKS APPROVED BY CONCESSIONAIRE

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SPLICE PEDESTAL AND POLE MOUNTED CABINET DETAIL
NTS

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC(B2)

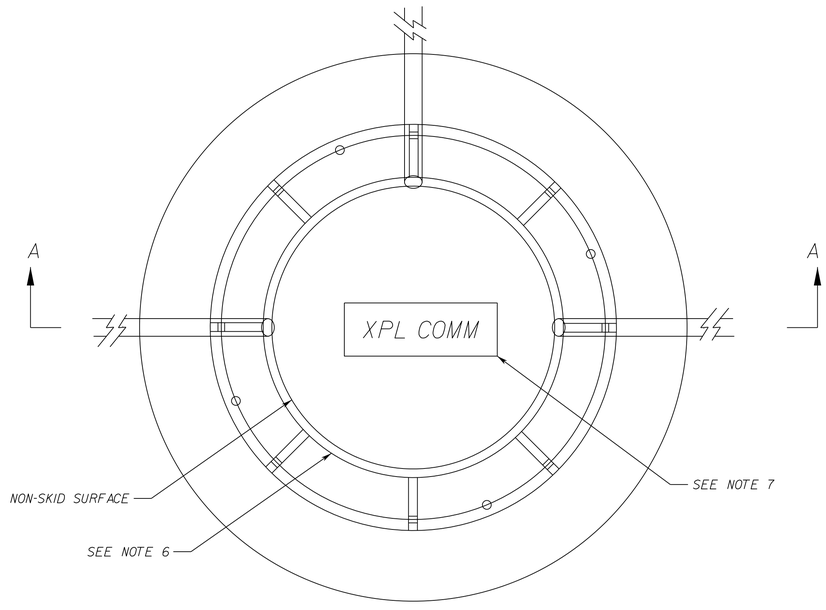
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

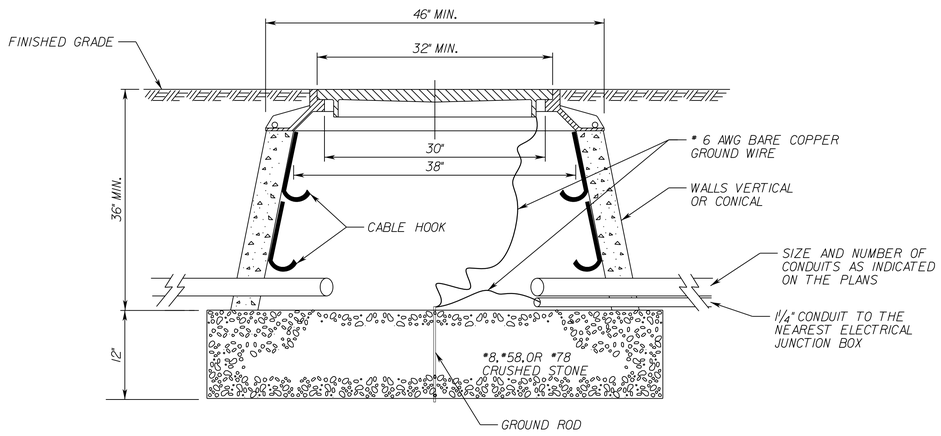
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(CI)

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



CIRCULAR JUNCTION BOX DETAIL
PLAN VIEW



SECTION A-A

CIRCULAR JUNCTION BOX NOTES:

1. BOX SHALL BE MADE OF PRECAST CONCRETE MATERIAL WITH STEEL REINFORCEMENT. THE BOX MUST HAVE AN AASHTO H-20 RATING.LID SHALL BE CAST IRON MATERIAL. COMPOSITE LIDS ARE ACCEPTABLE WITH APPROVAL FROM TRANSURBAN.
2. LID SHALL BE DESIGNED TO FACILITATE REMOVAL USING A MANHOLE LID LIFTER.
3. PROVIDE FOUR PAIRS OF CABLE HOOKS, EQUALLY SPACED. EACH HOOK SHALL HAVE A 3" THROAT OPENING, BE AT LEAST 3" WIDE, HAVE ROUNDED EDGES, HAVE CAPACITY FOR 10-5/8" DIAMETER CABLES (WITHOUT CABLE TIES), SUPPORT AT LEAST 220 LBS, BE MADE OF NON-CORROSIVE MATERIAL, AND BE BOLTED OR OTHERWISE PERMANENTLY ATTACHED TO THE WALL OF THE BOX.
4. DEEPEN TRENCH IN VICINITY OF BOX, SO THAT ALL CONDUITS ARE 30" BELOW GRADE AT BOX. ADJUST TRENCH DEPTH UNIFORMLY OVER A DISTANCE OF AT LEAST 20 FEET.
5. GRADE AREA AROUND BOX SUCH THAT RUNOFF IS DIRECTED AWAY FROM THE BOX.
6. DESIGN BUILDER SHALL PROVIDE MANHOLE COVERS WITHOUT PICKHOLES.
7. LIDS OF TRANSURBAN COMMUNICATION BOX SHALL SAY "XPL COMM". LIDS OF VDOT COMMUNICATION BOX SHALL SAY "VDOT COMM".

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

CIRCULAR JUNCTION BOX DETAIL
NTS

	PROJECT	SHEET NO.
	0495-029-419	CC(CI)

LIMITED ACCESS HIGHWAY

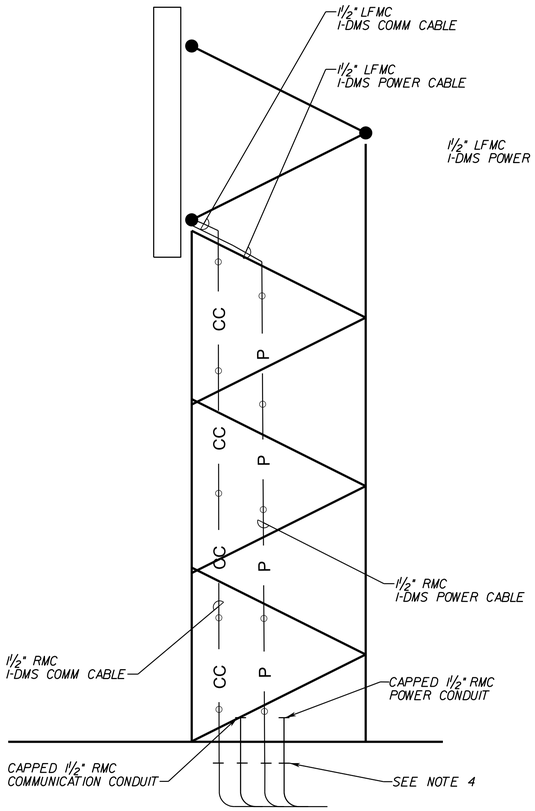
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

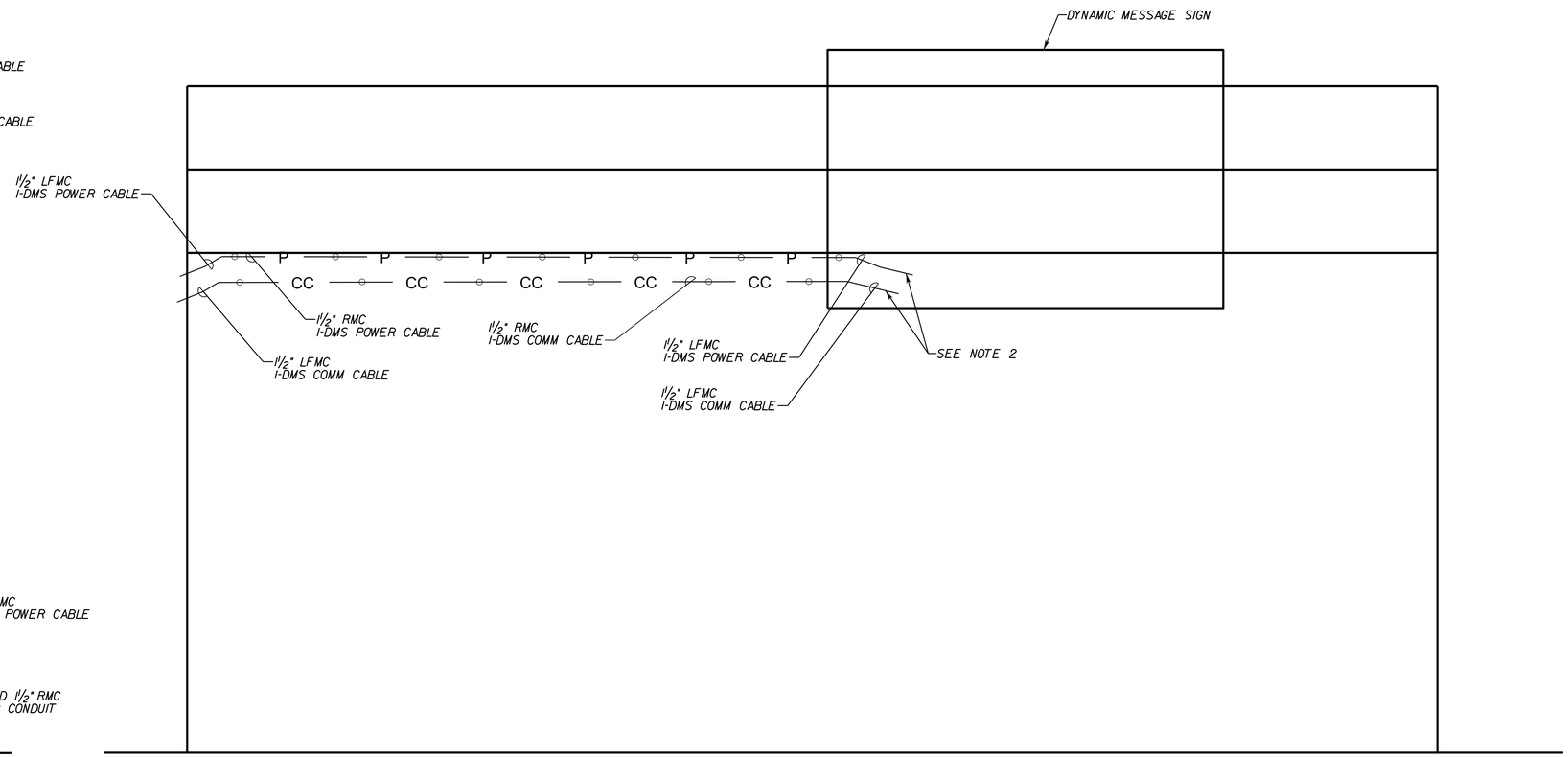
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(DI)

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



VIEW FROM EQUIPMENT CABINET
NTS



VIEW FROM BEHIND STRUCTURE
NTS

NOTES:

1. CONDUIT CONNECTION DETAILS SHALL BE COORDINATED WITH SIGN STRUCTURE DESIGN/FABRICATION.
2. CONDUITS SHALL BE CONNECTED PER MANUFACTURES RECOMMENDATION.
3. PROVIDE CONDUIT COUPLINGS AS REQUIRED.
4. RIGID METAL CONDUITS SHALL CONTINUE 6" BELOW THE FINISHED GRADE. RIGID METAL CONDUITS SHALL BE COUPLED TO PVC OR RIGID METAL CONDUITS AT CONTRACTOR'S DISCRETION TO CONTINUE TO A JUNCTION BOX. RIGID METAL CONDUIT SHALL BE CONTINUOUS ALONG THE UPRIGHT.

TYPICAL CONDUIT ROUTING ON DMS SIGN STRUCTURE
NTS

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(DI)

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(E1)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

ITS CABINET SCHEDULE								ITS EQUIPMENT QUANTITY				
STA.	OFFSET (FT)		SHEET NO.	CABINET TYPE	CABINET ID	EACH	POLE HEIGHT (FT)	CCTV	MVDS	DMS	LCS	AID
549+33	31.3	RT	CC3	XPL GROUND MOUNTED CABINET	XPL-CABINET-495-N-45.5	1		1				
559+49	444.5	RT	CC4	XPL POLE MOUNTED CABINET	XPL-CABINET-495-45.3	1		1	1			
559+25 (2)	447.0	RT	CC4	VDOT GROUND MOUNTED CABINET	VDOT-CABINET-495-N-45.3	1		1				
567+06	36.5	LT	CC4	XPL POLE MOUNTED CABINET	XPL-CABINET-495-N-45.1	1						2
572+38	154.5	RT	CC5	XPL GROUND MOUNTED CABINET	C495IX454C	1		1	1			1
572+18	156.5	RT	CC5	VDOT GROUND MOUNTED CABINET	04-011-25	1		1	1	1		
573+99	51.3	LT	CC5	EXISTING XPL CABINET	N/A	1			SEE NOTE 1			
585+22	113.1	RT	CC6	XPL POLE MOUNTED CABINET	XPL-CABINET-495-N-44.9	1						1
588+55	43.8	LT	CC6	EXISTING XPL CABINET	C495MX451M	1			SEE NOTE 1			
195+10	99.0	lt	CC6	VDOT GROUND MOUNTED CABINET	VDOT-CABINET-495-S-44.7	1		1				
195+36	99.5	LT	CC6	XPL POLE MOUNTED CABINET	XPL-CABINET-495-S-44.7	1		1	(1)			
205+56	86.5	LT	CC7	VDOT GROUND MOUNTED CABINET	04-013-25	1			2	1		
205+74	86.6	LT	CC7	XPL GROUND MOUNTED CABINET	C4950X448D	1				1 (1)		
611+06	30.9	LT	CC8	XPL POLE MOUNTED CABINET	XPL-CABINET-495-S-44.3	1			2			
611+55	105.2	RT	CC8	XPL GROUND MOUNTED CABINET	XPL-CABINET-495-N-44.3	1				1		
214+79	114.3	LT	CC8	VDOT GROUND MOUNTED CABINET	04-014-25	1		1				
215+21	116.1	LT	CC8	XPL GROUND MOUNTED CABINET	C4950X446C	1		1				
636+01	38.2	LT	CC9	XPL POLE MOUNTED CABINET	XPL-CABINET-495-N-43.9	1			2			
644+02	97.1 (2)	RT	CC10	VDOT GROUND MOUNTED CABINET (2)	04-007-27	1		1	2 (1)			
656+33	85.2	RT	CC11	XPL GROUND MOUNTED CABINET	XPL-CABINET-495-N-43.5	1		1				
656+81	33.0	LT	CC11	XPL POLE MOUNTED CABINET	XPL-CABINET-495-N-43.4	1			2			
(4) 261+66	87.0 (2)	LT	CC11	VDOT GROUND MOUNTED CABINET	04-009-27	1		(2) 1	2 (1)			
670+00	101.2	RT	CC12	VDOT GROUND MOUNTED CABINET (2)	04-010-27	1		1				
277+59	125.0	LT	CC12	XPL POLE MOUNTED CABINET	XPL-CABINET-495-S-43.0	1		1				1
680+83	94.1	RT	CC12	VDOT GROUND MOUNTED CABINET	04-012-27	1		1	(1) 1	1		
684+93	61.1	LT	CC13	XPL POLE MOUNTED CABINET	XPL-CABINET-495-N-42.9	1			3			1
286+64	81.3	LT	CC13	VDOT POLE MOUNTED CABINET	VDOT-CABINET-495-S-42.9	1			1			
687+17	93.0	RT	CC13	XPL POLE MOUNTED CABINET	XPL-CABINET-495-N-42.8	1		1				
291+44	120.4 (2) (1)	LT	CC13	VDOT GROUND MOUNTED CABINET (2)	04-013-27	1		1	1			

ITS EQUIPMENT AND CABINET SCHEDULE 1

NOTES:

1. RECALIBRATE EXISTING MVDS FOR EB I-495 EXPRESS LANES.
2. EXISTING DMS TO REMAIN

REVISIONS		
No.	Description	Date
(1)	Added new DMS to match with signing design. Added VDOT MVDS between interchange for each direction.	11/13/2020
(2)	Changed VDOT pole mounted cabinet to ground mounted cabinet. Added VDOT ITS device between interchange	12/18/2020
(4)	Revised ITS design per drlange design change	04/06/2021

RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC(E1)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(E2)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

ITS CABINET SCHEDULE / ITS EQUIPMENT QUANTITY

STA.	OFFSET (FT)		SHEET NO.	CABINET TYPE	CABINET ID	EACH	POLE HEIGHT (FT)	CCTV	MVDS	DMS	LCS	AID
698+27	169.6	RT	CC14	VDOT POLE MOUNTED CABINET	VDOT-CABINET-495-N-42.7	1			1			
701+10	9.1	LT	CC14	XPL POLE MOUNTED CABINET	XPL-CABINET-495-N-42.6	1		1	2			1
701+08	239.6	RT	CC14	XPL POLE MOUNTED CABINET	XPL-CABINET-495-R-42.6	1			1			1
44+35.9	61.2 (2)	LT	CC26	XPL GROUND MOUNTED CABINET	XPL-CABINET-GWMP-W-XX	1		1		1		
707+33	79.2	RT	CC14	XPL GROUND MOUNTED CABINET	XPL-HUB	1						
305+51	107.5	LT	CC14	VDOT GROUND MOUNTED CABINET	VDOT-CABINET-495-S-42.5	1				1		
707+50	78.7	RT	CC14	VDOT GROUND MOUNTED CABINET	VDOT-CABINET-495-N-42.5	1		1				
715+73	114.9	LT	CC15	VDOT POLE MOUNTED CABINET	VDOT-CABINET-495-S-42.3	1			2			
717+17	103.5	LT	CC15	XPL GROUND MOUNTED CABINET	XPL-CABINET-495-S-42.3	1				1		
719+83	88.2	LT	CC15	XPL POLE MOUNTED CABINET	XPL-CABINET-495-S-42.3	1		1	1			1
SOUTH OF THE INTERCHANGE OF CLARA BARTON PKWY & I-495		LT	CC15B	XPL GROUND MOUNTED CABINET	XPL-CABINET-495-S-XX	1		1		1		
700 FT SOUTH OF PERSIMMON TREE ROAD & I-495		LT	CC15E	XPL GROUND MOUNTED CABINET	XPL-CABINET-495-S-XX	1		1		1		
26+58.3	113.1	RT	CC17	EXISTING XPL CABINET	C267RX001D	1		1		SEE NOTE 2		
			CC16	XPL GROUND MOUNTED CABINET	XPL-CABINET-DTR-E-XX	1		1		1		
			CC16	VDOT GROUND MOUNTED CABINET	VDOT-CABINET-DTR-E-XX	1				1		
			CC16B	EXISTING XPL CABINET	C267RX004D	1		1		SEE NOTE 2		
			CC16C	EXISTING XPL CABINET	C267RX005D	1		1		SEE NOTE 2		
LOCATED ON DULLES AIRPORT ROAD, APPROX. 5400 FT EAST OF I-495		LT	CC20B	XPL GROUND MOUNTED CABINET	XPL-CABINT-DTR-W-XX	1		1		1		
LOCATED ON DULLES AIRPORT ROAD, APPROX. 7650 FT EAST OF I-495		LT	CC20D	XPL GROUND MOUNTED CABINET	XPL-CABINT-DTR-W-XX	1		1		1		

(1)

NOTES:

1. RECALIBRATE EXISTING MVDS FOR EB I-495 EXPRESS LANES.
2. EXISTING DMS TO REMAIN

REVISIONS		
No.	Description	Date
(1)	Add new VDOT DMS and CCTV	11/13/2020
(2)	Revised XPL cabinet location	12/18/2020

RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

ITS EQUIPMENT AND CABINET SCHEDULE 2

	PROJECT	SHEET NO.
	0495-029-419	CC(E2)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

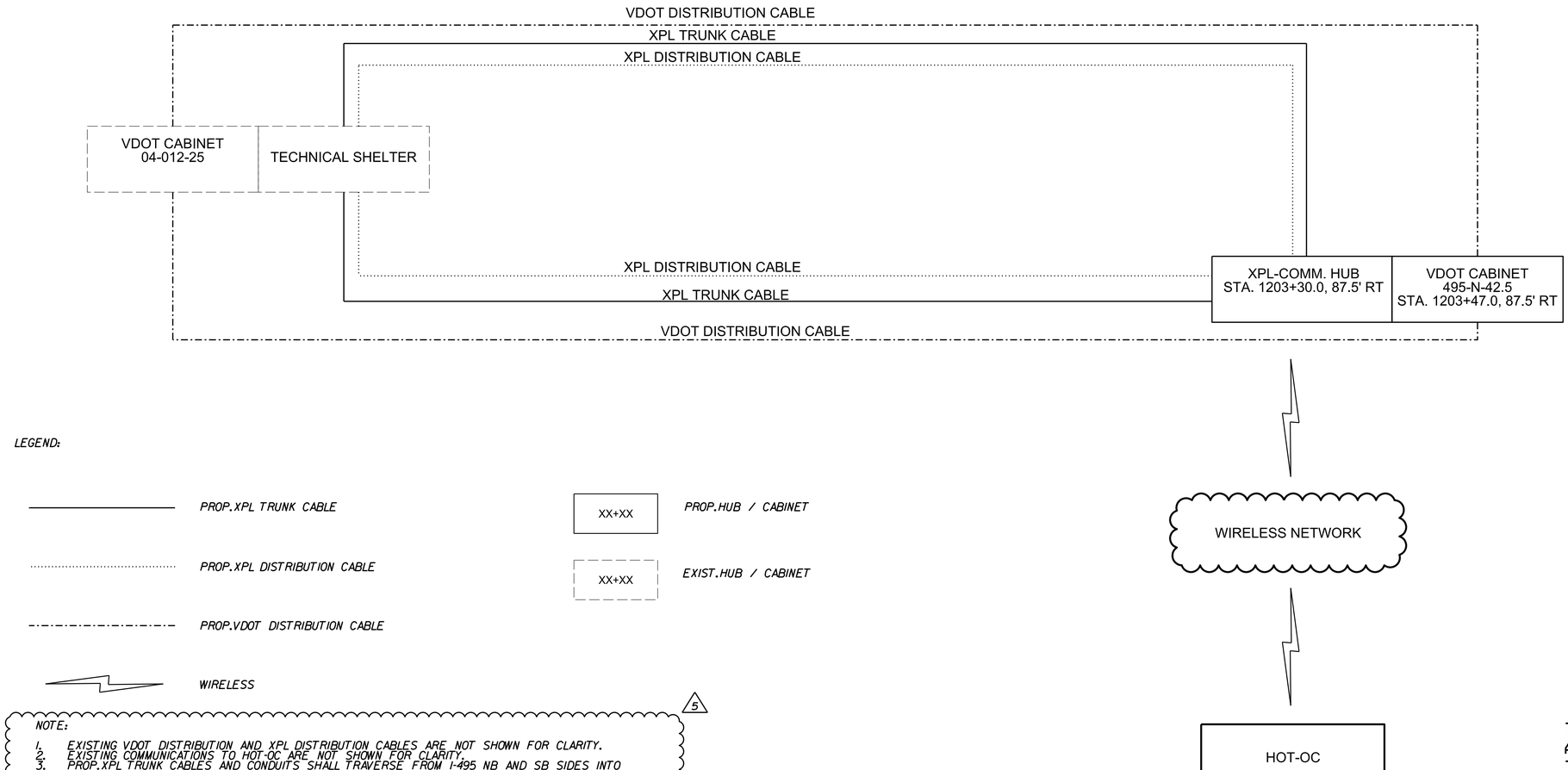
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
5	Added Plan notes 3,4,5 and 6	04/30/2021

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(F1)

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



LEGEND:

- PROP.XPL TRUNK CABLE
- PROP.XPL DISTRIBUTION CABLE
- PROP.VDOT DISTRIBUTION CABLE
- WIRELESS
- XX+XX — PROP.HUB / CABINET
- XX+XX — EXIST.HUB / CABINET

5

NOTE:

1. EXISTING VDOT DISTRIBUTION AND XPL DISTRIBUTION CABLES ARE NOT SHOWN FOR CLARITY.
2. EXISTING COMMUNICATIONS TO HOT-OC ARE NOT SHOWN FOR CLARITY.
3. PROP.XPL TRUNK CABLES AND CONDUITS SHALL TRAVERSE FROM I-495 NB AND SB SIDES INTO SEPARATE ENTRY AND EXIT POINTS OF COMM.HUB CABINET AND TECHNICAL SHELTER.NO COLLAPSED PROP.XPL TRUNK CABLE PATHS SHALL BE ALLOWED.
4. COMMUNICATIONS REDUNDANCY SHALL TIE BETWEEN COMM.HUB CABINET AND TECHNICAL SHELTER.
5. COORDINATE EXISTING FIBER ASSIGNMENTS WITH VDOT AND TRANSURBAN ENGINEERS.
6. REPLACE EXISTING LAYER 3 SWITCH AT TECHNICAL SHELTER TO ACCOMMODATE PROP.XPL TRUNK AND DISTRIBUTION CABLE CONNECTIONS.COORDINATE WITH VDOT AND TRANSURBAN ENGINEERS FOR PORT ASSIGNMENTS.

RFP
CONCEPTUAL
PLANS
REVISION NO.5
DATE: 04/30/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC(F1)

TMxxxxxxdtl_CCtF2).dgn
Plotted By: ZZHANG

LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

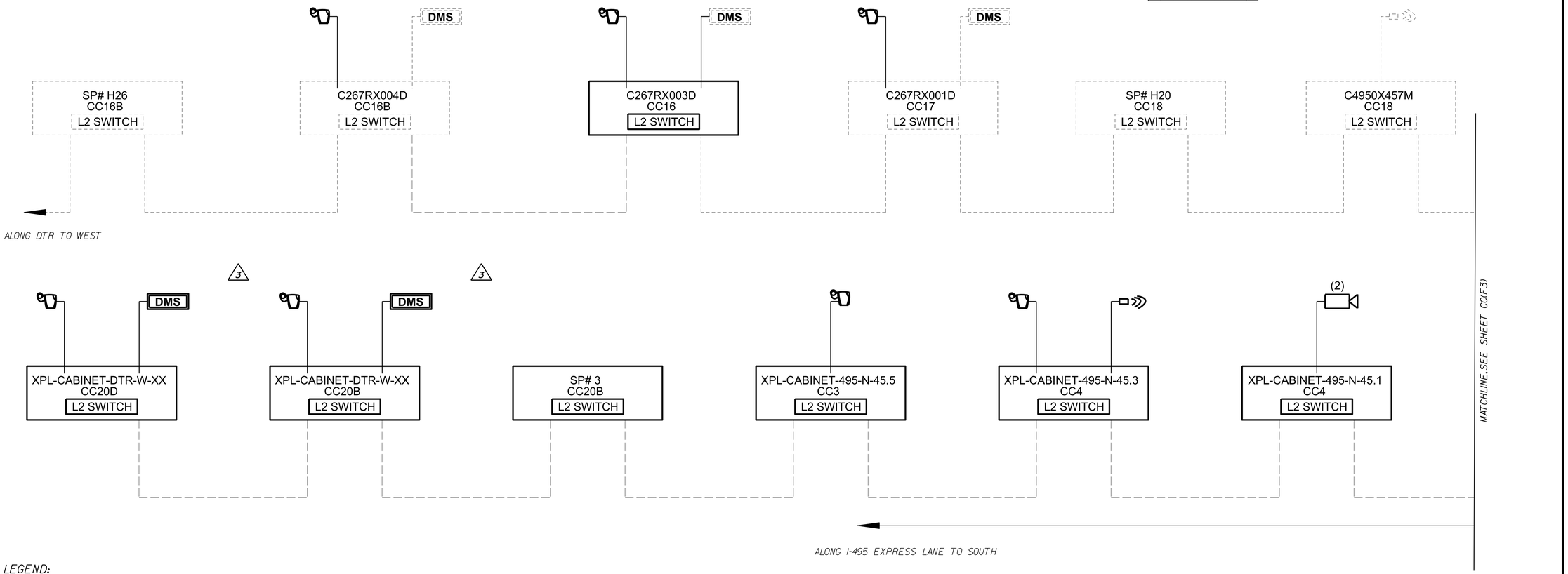
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
3	Revised CCTV and DMS cabinet location per the relocation of DMS	03/09/2021

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(F2)

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



LEGEND:

EXISTING	PROPOSED	
		TRUNK CABLE
		DISTRIBUTION CABLE
		AID CAMERA
DMS	DMS	DYNAMIC MESSAGE SIGN
		EXPRESS LANE VIDEO CAMERA
F	F	FUEL TANK
G	G	GENERATOR
xxxxxx xxxxxxx	xxxxxx xxxxxxx	ITS CABINET
		MICROWAVE VEHICLE DETECTOR
E-ZPASS	N/A	TOLL TAG READER AND ENFORCEMENTS CABINET

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

PROJECT	SHEET NO.
0495-029-419	CC(F2)

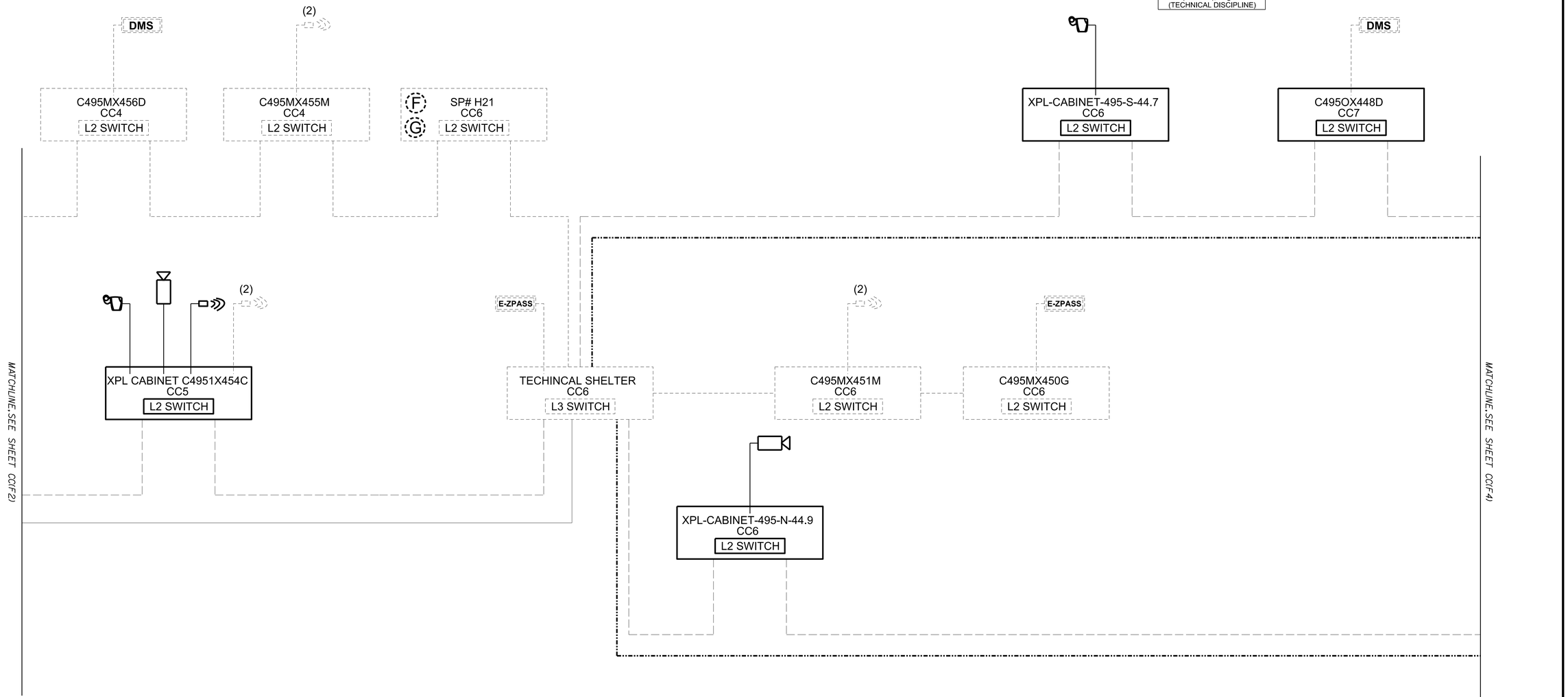
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	CC(F3)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

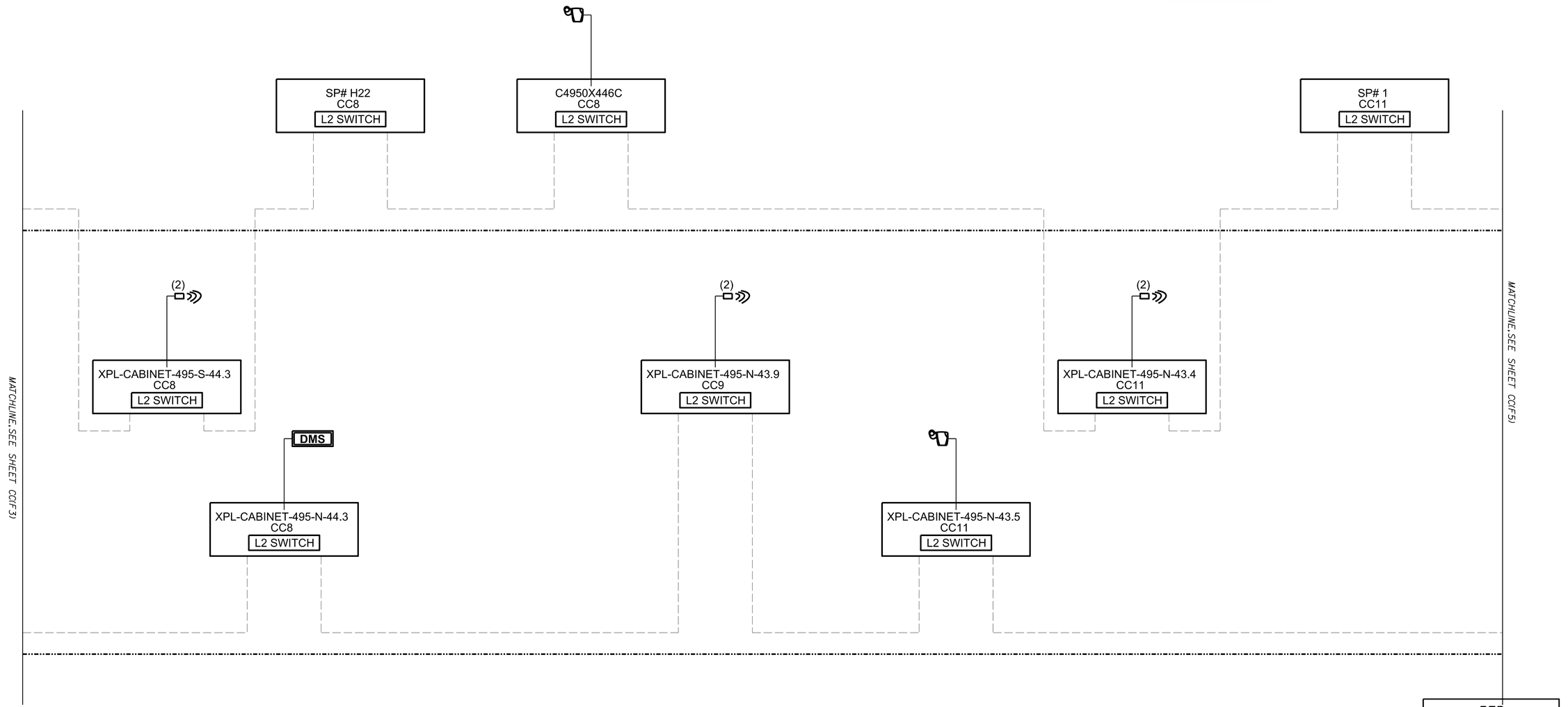
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(F4)

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(F4)

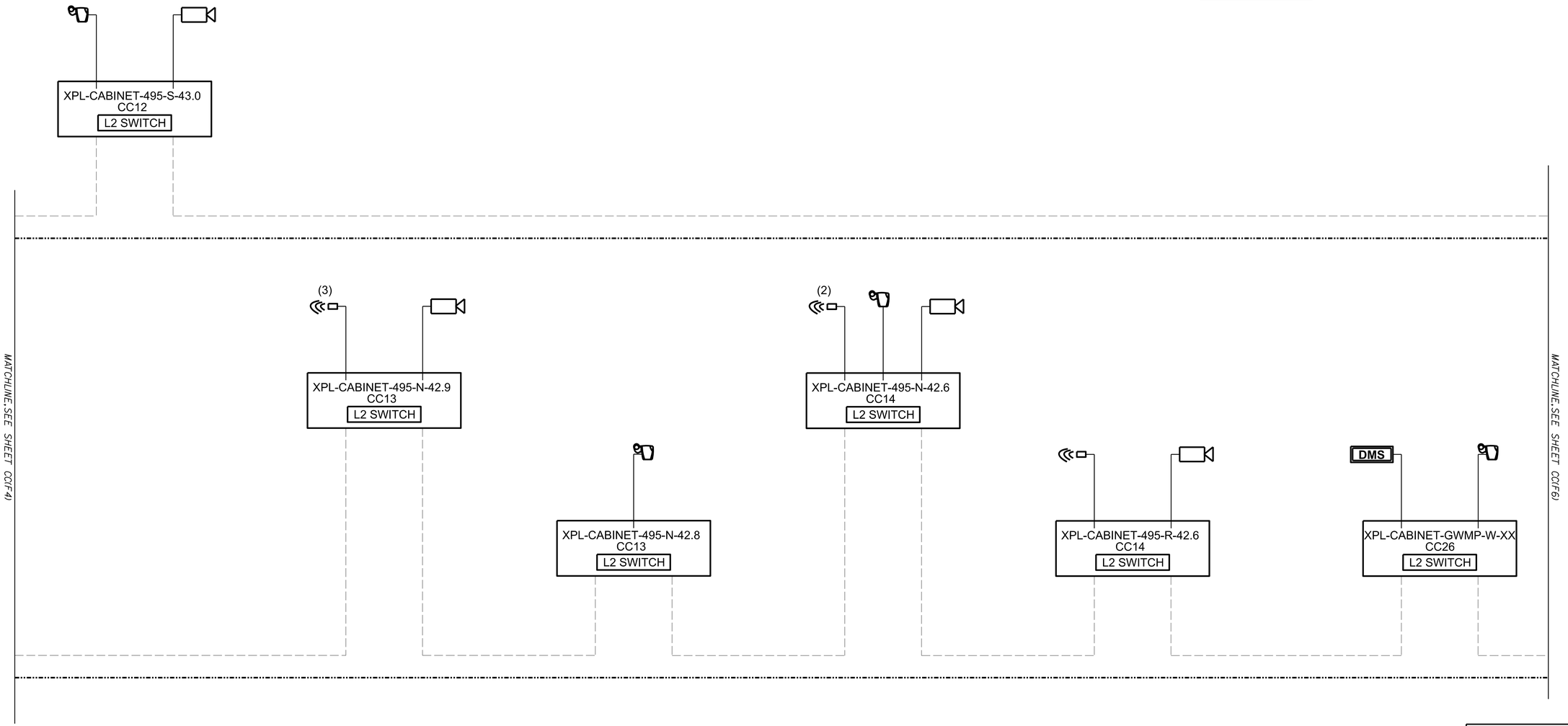
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(F5)

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(F5)

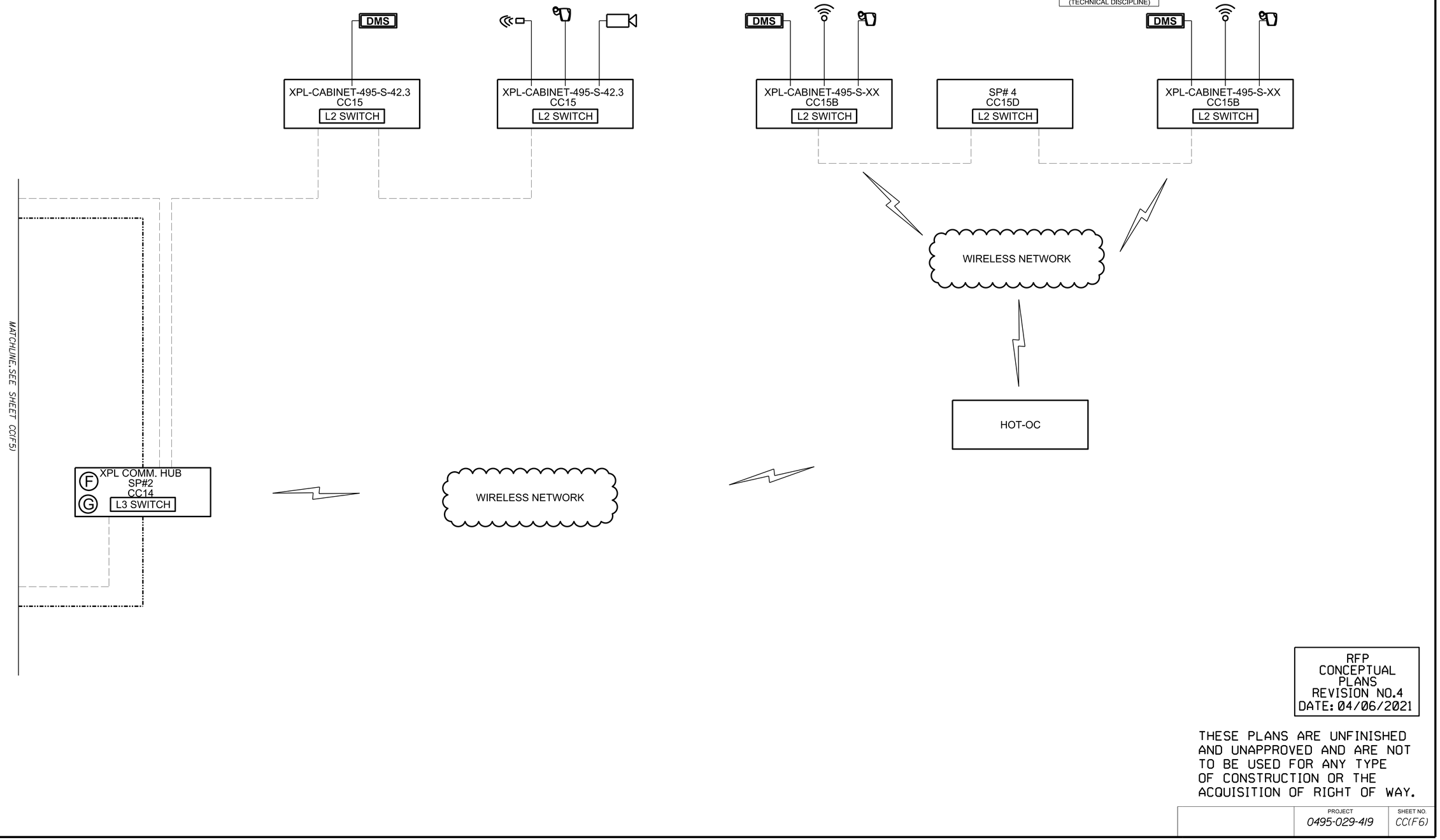
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(F6)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(F6)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

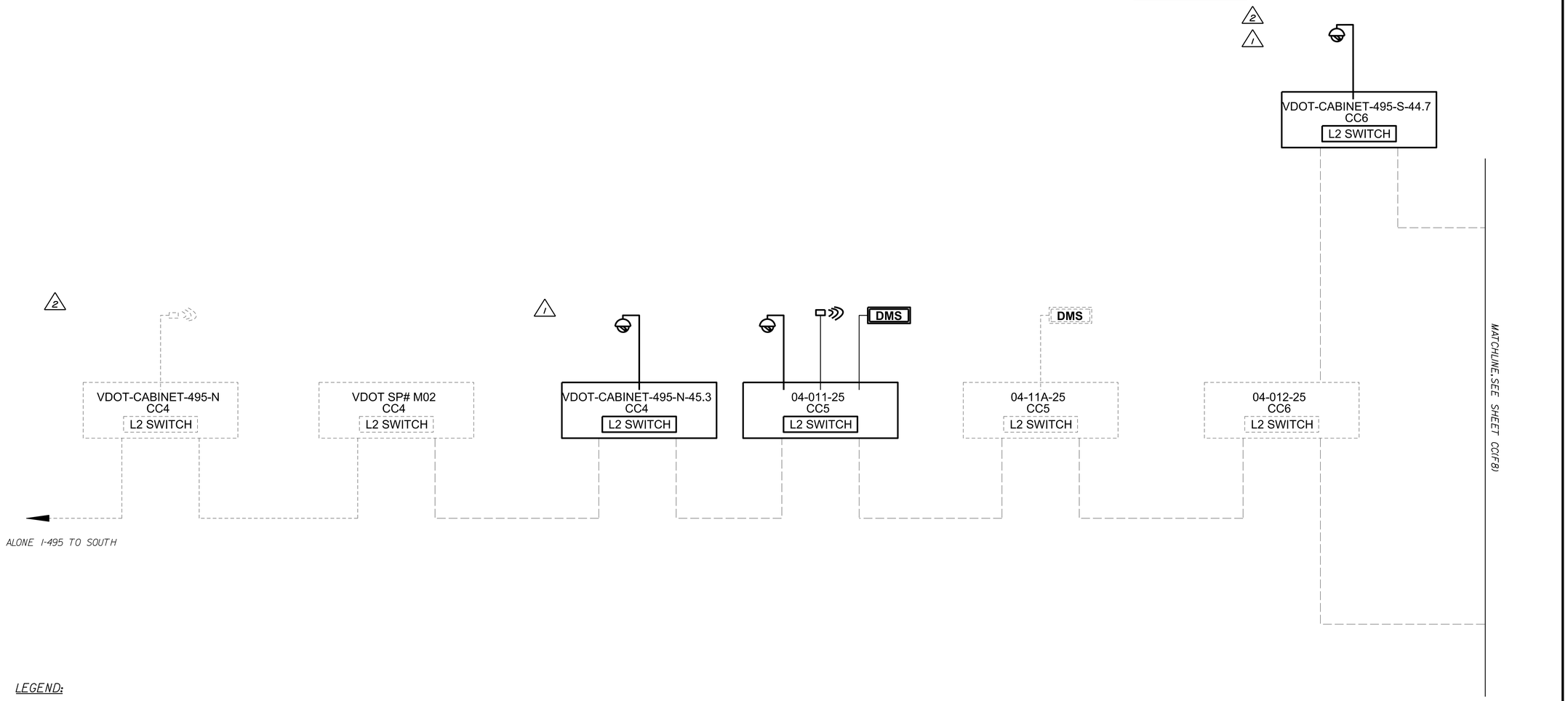
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
1	Added VDOT DMS to match with signing design. Added VDOT MVDS between interchange for each direction.	11/13/2020
2	Added VDOT ITS device between interchange	12/18/2020

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(F7)

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



LEGEND:

EXISTING	PROPOSED		
		VDOT DISTRIBUTION CABLE	
	DMS	DMS	DYNAMIC MESSAGE SIGN
			VDOT VIDEO CAMERA
xxxxxx xxxxxxxx	xxxxxx xxxxxxxx		ITS CABINET
			MICROWAVE VEHICLE DETECTOR

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(F7)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

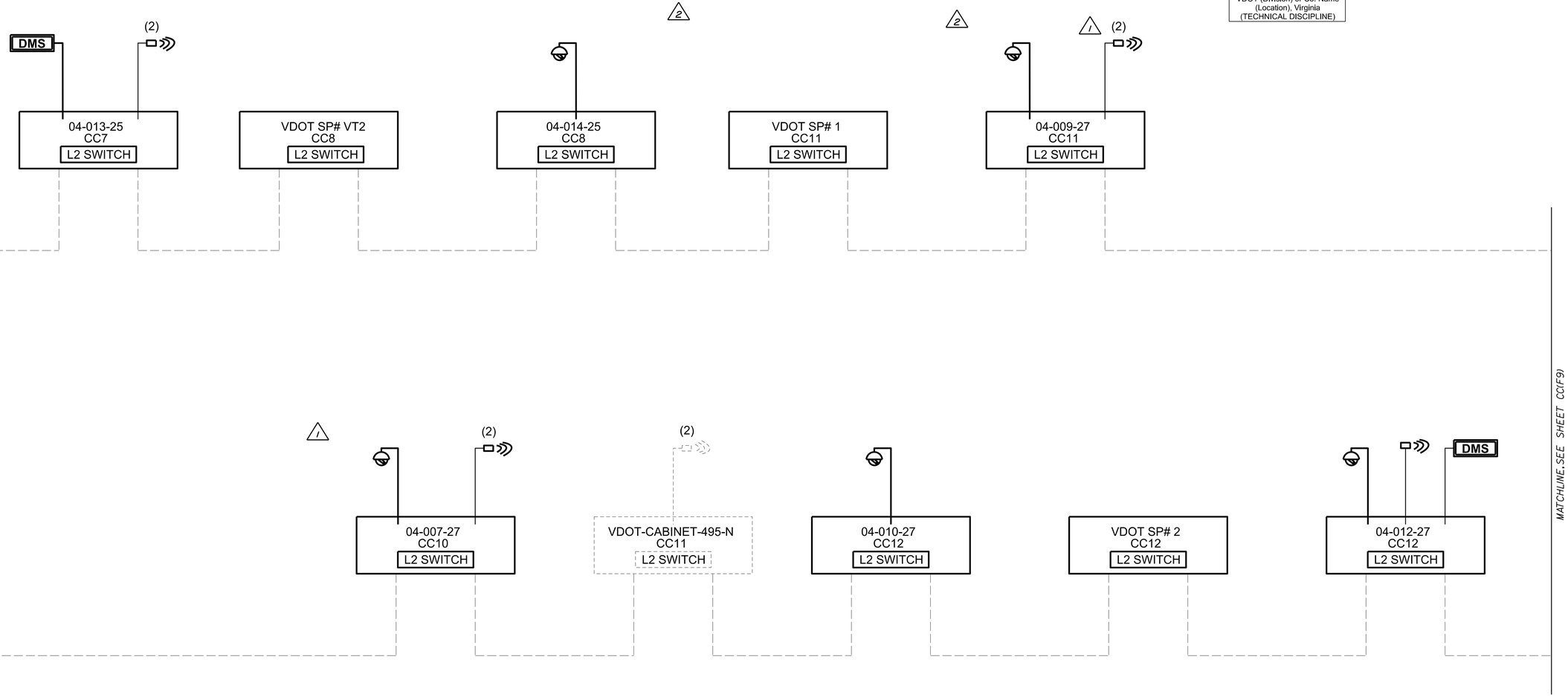
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
1	Added VDOT MVDS between Interchange for each direction.	11/13/2020
2	Added VDOT ITS device between Interchange	12/18/2020

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(F8)

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



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(F8)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

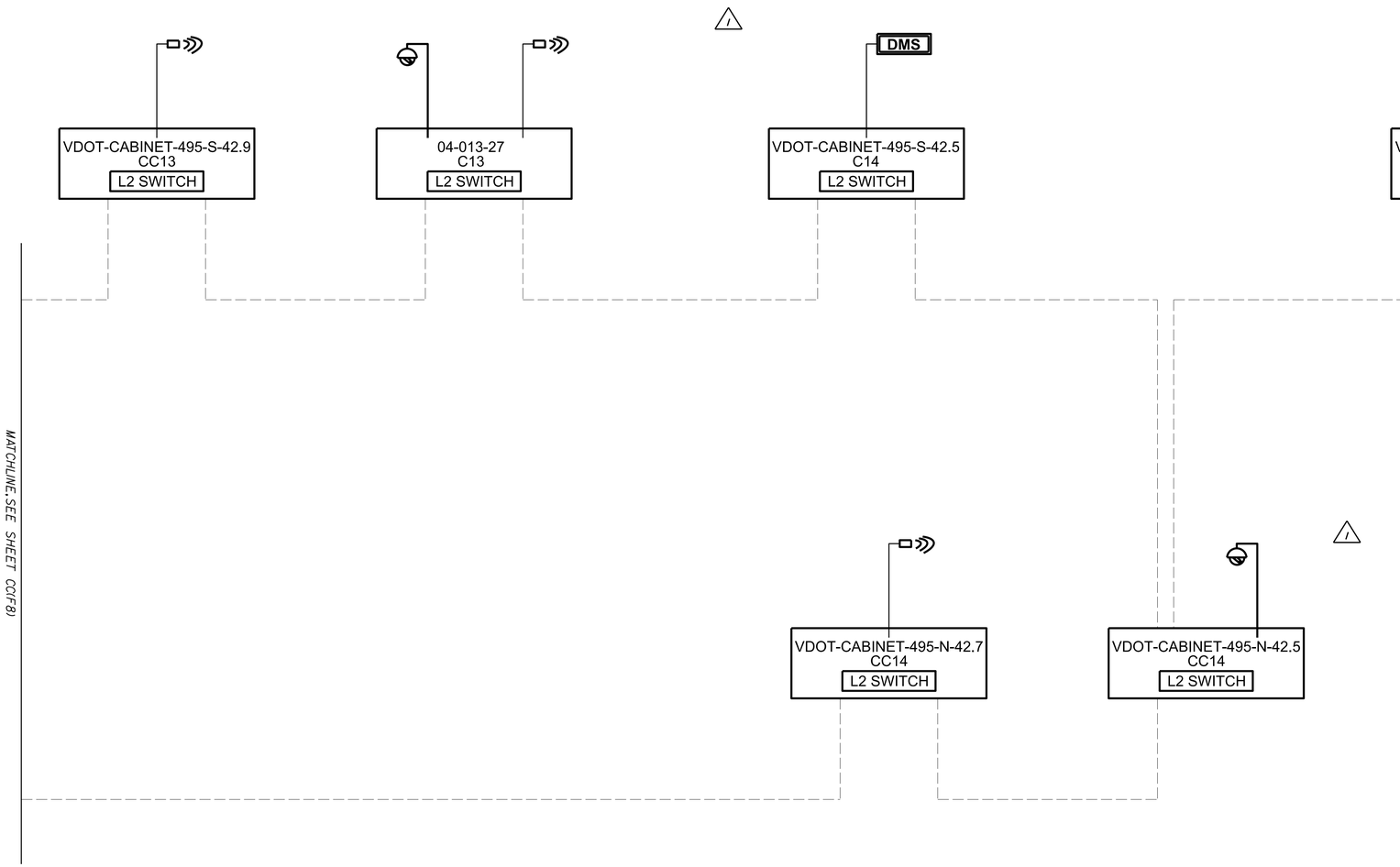
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
1	Added new VDOT DMS and CCTV	11/13/2020

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(F9)

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



RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(F9)

TMxxxxxxdtl_CC(GI).dgn
Plotted By: ZZHANG

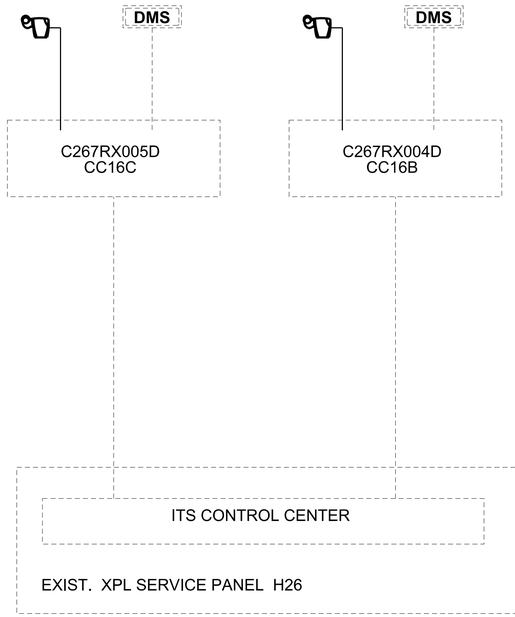
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	CC(GI)

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



NOTE:

DESIGN BUILD TEAM SHALL VERIFY IF EXISTING SERVICE UPGRADE IS NEEDED.

LEGEND:

EXISTING

- POWER CABLE
- GENERATOR
- DMS — DYNAMIC MESSAGE SIGN
- MICROWAVE VEHICLE DETECTOR
- E-ZPass — TOLL TAG READER & ENFORCEMENT
- XXXX — ITS CABINET

PROPOSED

- MICROWAVE VEHICLE DETECTOR
- EXPRESS LANES VIDEO CAMERA
- EL POWER CABLE
- AID CAMERA
- GENERATOR
- XXXX — ITS CABINET
- DMS — DYNAMIC MESSAGE SIGN
- DEVICE CABINET

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC(GI)

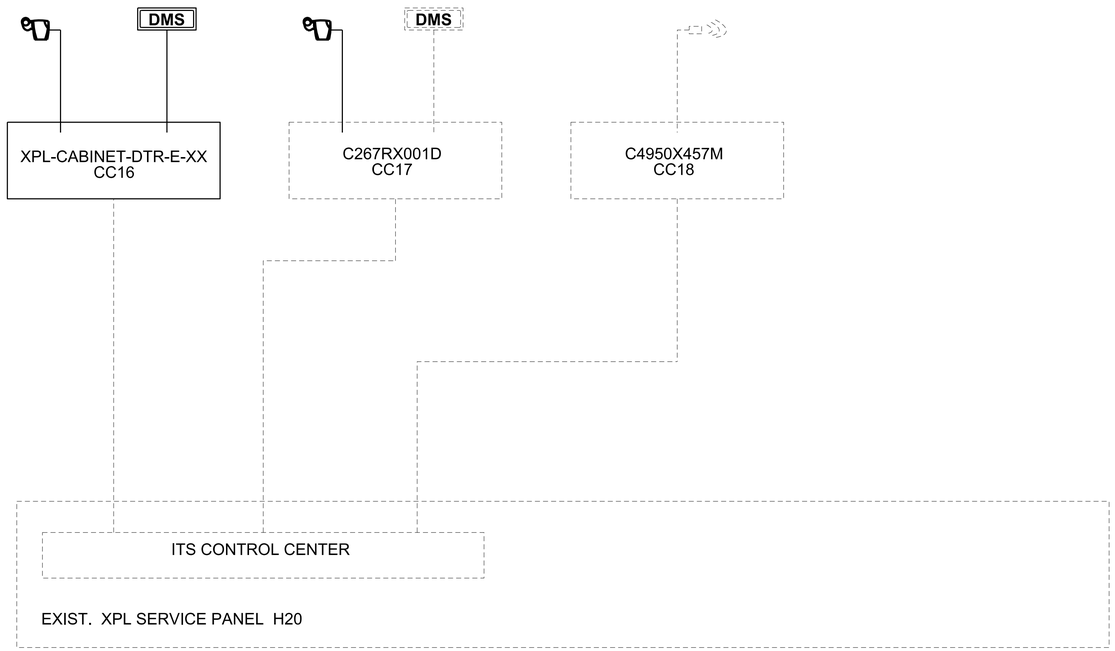
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(G2)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



NOTE:

DESIGN BUILD TEAM SHALL VERIFY IF EXISTING SERVICE UPGRADE IS NEEDED.

LEGEND:

EXISTING

- POWER CABLE
- GENERATOR
- DMS — DYNAMIC MESSAGE SIGN
- MICROWAVE VEHICLE DETECTOR
- E-ZPass — TOLL TAG READER & ENFORCEMENT
- XXXX — ITS CABINET

PROPOSED

- MICROWAVE VEHICLE DETECTOR
- EXPRESS LANES VIDEO CAMERA
- EL POWER CABLE
- AID CAMERA
- GENERATOR
- XXXX — ITS CABINET
- DMS — DYNAMIC MESSAGE SIGN
- DEVICE CABINET

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(G2)

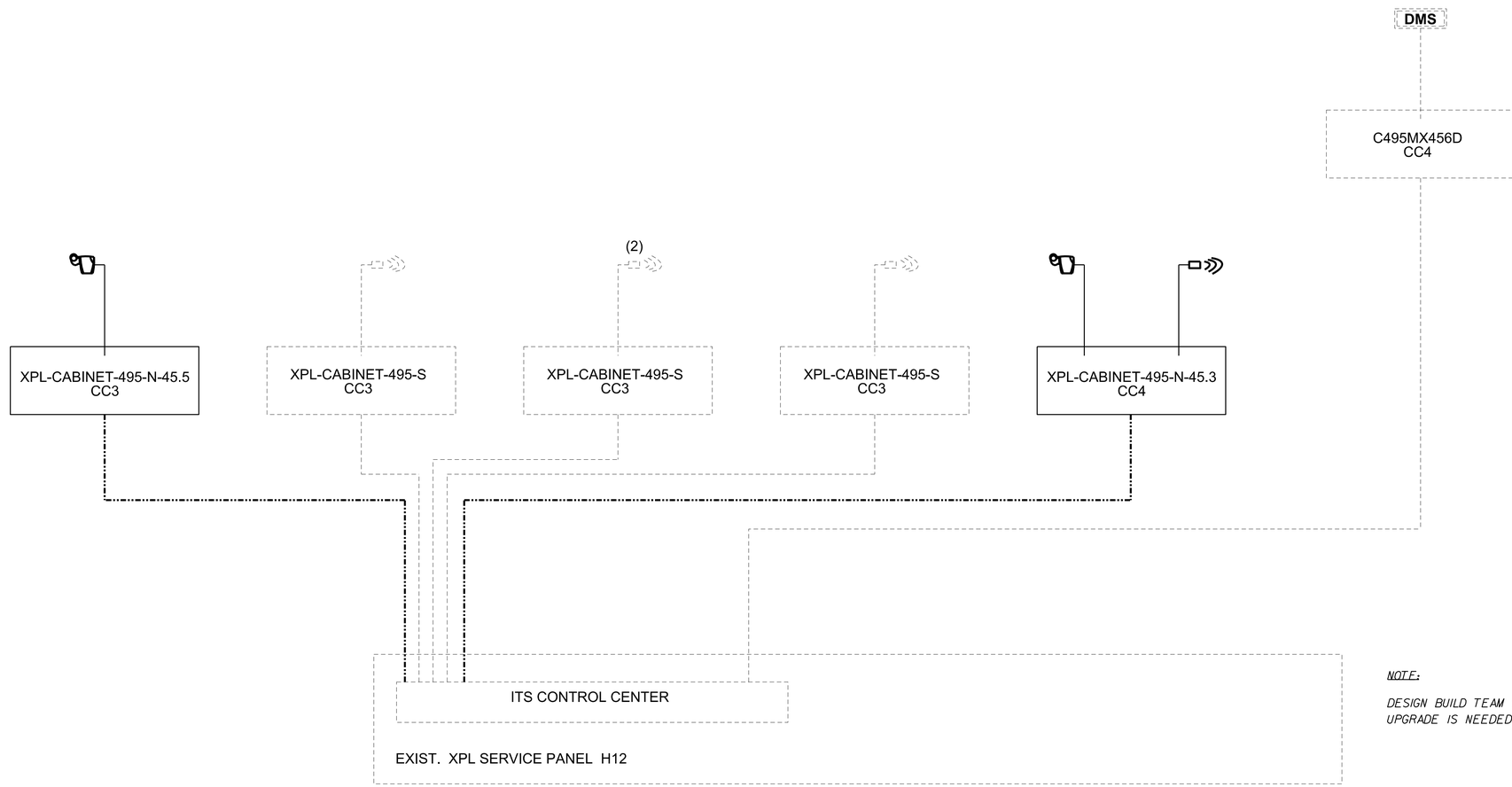
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	CC(G3)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



NOTE:

DESIGN BUILD TEAM SHALL VERIFY IF EXISTING SERVICE UPGRADE IS NEEDED.

LEGEND:

EXISTING

- POWER CABLE
- GENERATOR
- DMS — DYNAMIC MESSAGE SIGN
- MICROWAVE VEHICLE DETECTOR
- E-ZPass — TOLL TAG READER & ENFORCEMENT
- XXXX — ITS CABINET

PROPOSED

- MICROWAVE VEHICLE DETECTOR
- EXPRESS LANES VIDEO CAMERA
- EL POWER CABLE
- AID CAMERA
- GENERATOR
- XXXX — ITS CABINET
- DMS — DYNAMIC MESSAGE SIGN
- DEVICE CABINET

RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(G3)

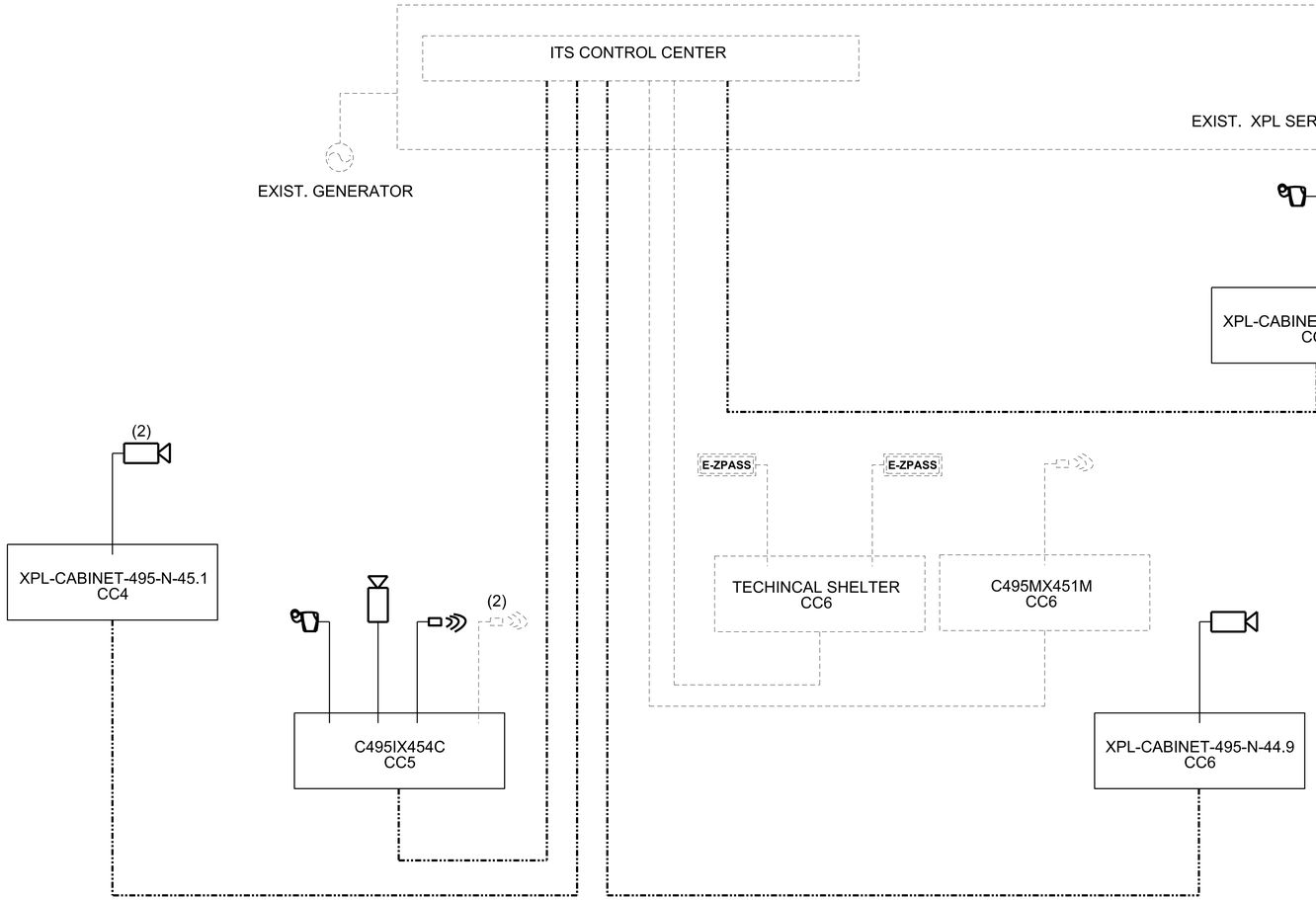
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(G4)

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



NOTE:

DESIGN BUILD TEAM SHALL VERIFY IF EXISTING SERVICE UPGRADE IS NEEDED.

LEGEND:

EXISTING

	POWER CABLE	E-ZPass	TOLL TAG READER & ENFORCEMENT
	GENERATOR	XXXX	ITS CABINET
DMS	DYNAMIC MESSAGE SIGN		
	MICROWAVE VEHICLE DETECTOR		

PROPOSED

	MICROWAVE VEHICLE DETECTOR		GENERATOR
	EXPRESS LANES VIDEO CAMERA	XXXX	ITS CABINET
	EL POWER CABLE	DMS	DYNAMIC MESSAGE SIGN
	AID CAMERA		DEVICE CABINET

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(G4)

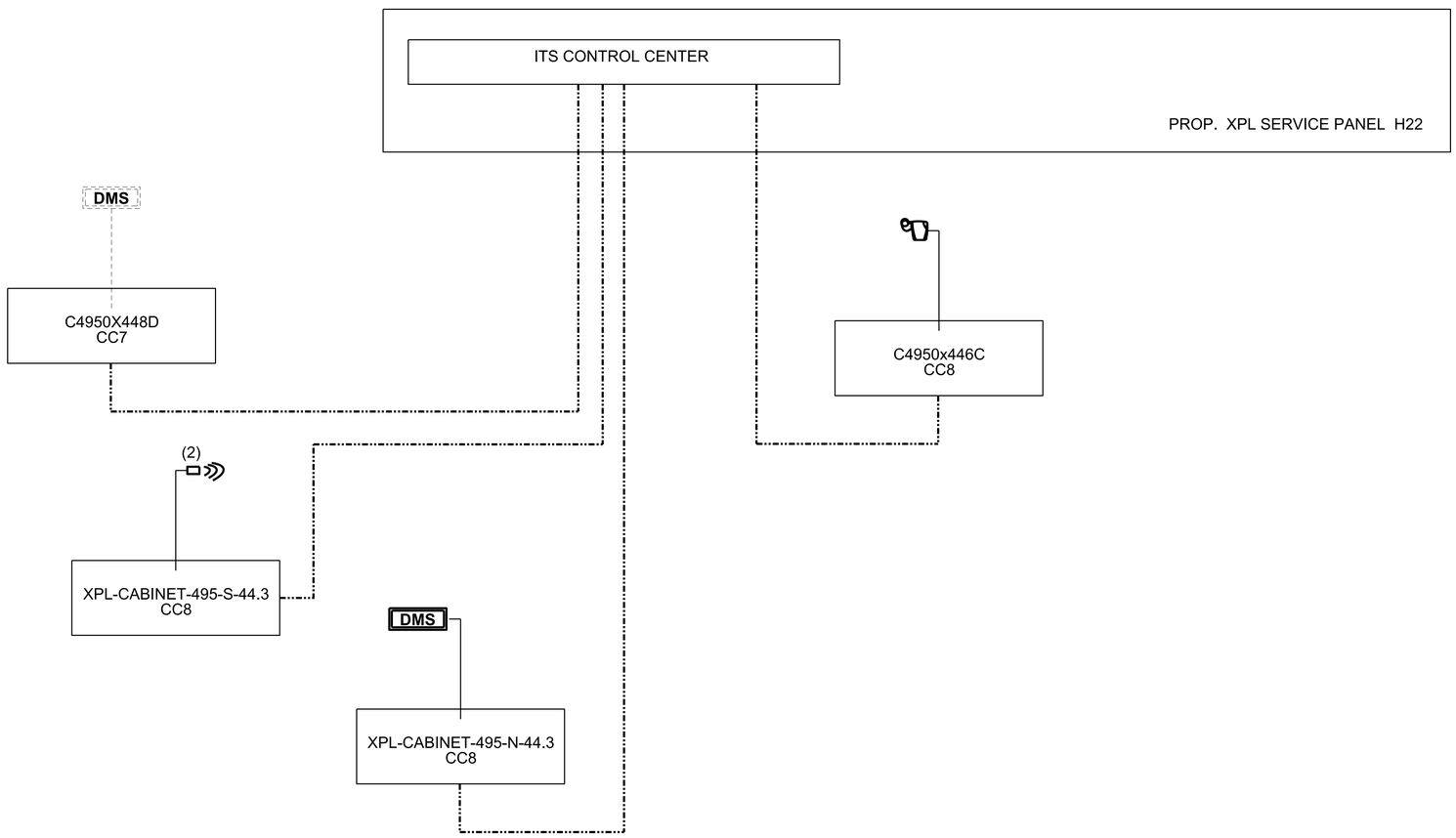
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(G5)

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



LEGEND:

EXISTING

- POWER CABLE
- GENERATOR
- DMS — DYNAMIC MESSAGE SIGN
- MICROWAVE VEHICLE DETECTOR
- E-ZPass — TOLL TAG READER & ENFORCEMENT
- XXXX — ITS CABINET

PROPOSED

- MICROWAVE VEHICLE DETECTOR
- EXPRESS LANES VIDEO CAMERA
- EL POWER CABLE
- AID CAMERA
- GENERATOR
- XXXX — ITS CABINET
- DMS — DYNAMIC MESSAGE SIGN
- DEVICE CABINET

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

PROJECT	SHEET NO.
0495-029-419	CC(G5)

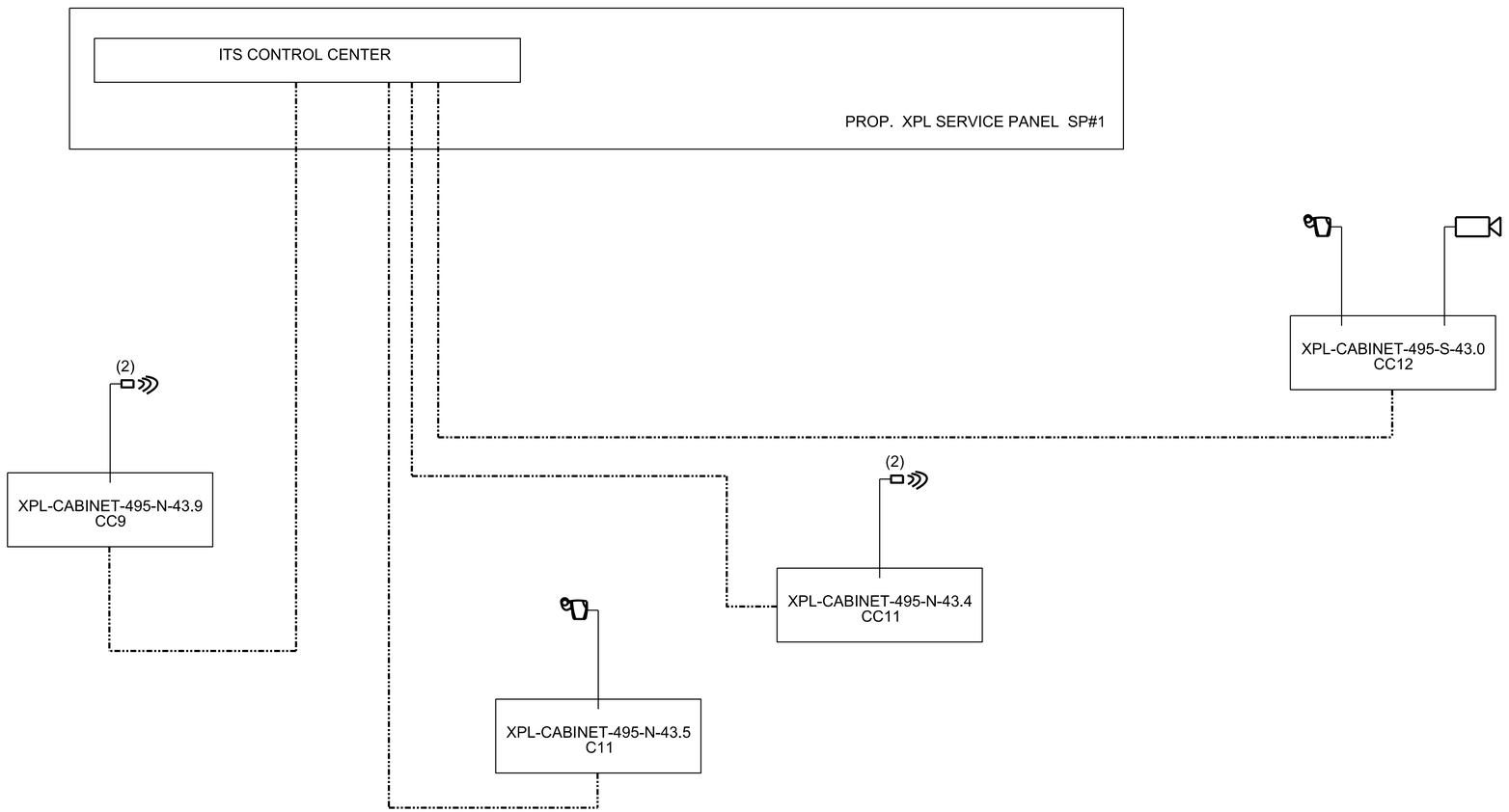
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(G6)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



LEGEND:

EXISTING

- POWER CABLE
- GENERATOR
- DMS — DYNAMIC MESSAGE SIGN
- MICROWAVE VEHICLE DETECTOR
- E-ZPass — TOLL TAG READER & ENFORCEMENT
- XXXX — ITS CABINET

PROPOSED

- MICROWAVE VEHICLE DETECTOR
- EXPRESS LANES VIDEO CAMERA
- EL POWER CABLE
- AID CAMERA
- GENERATOR
- XXXX — ITS CABINET
- DMS — DYNAMIC MESSAGE SIGN
- DEVICE CABINET

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(G6)

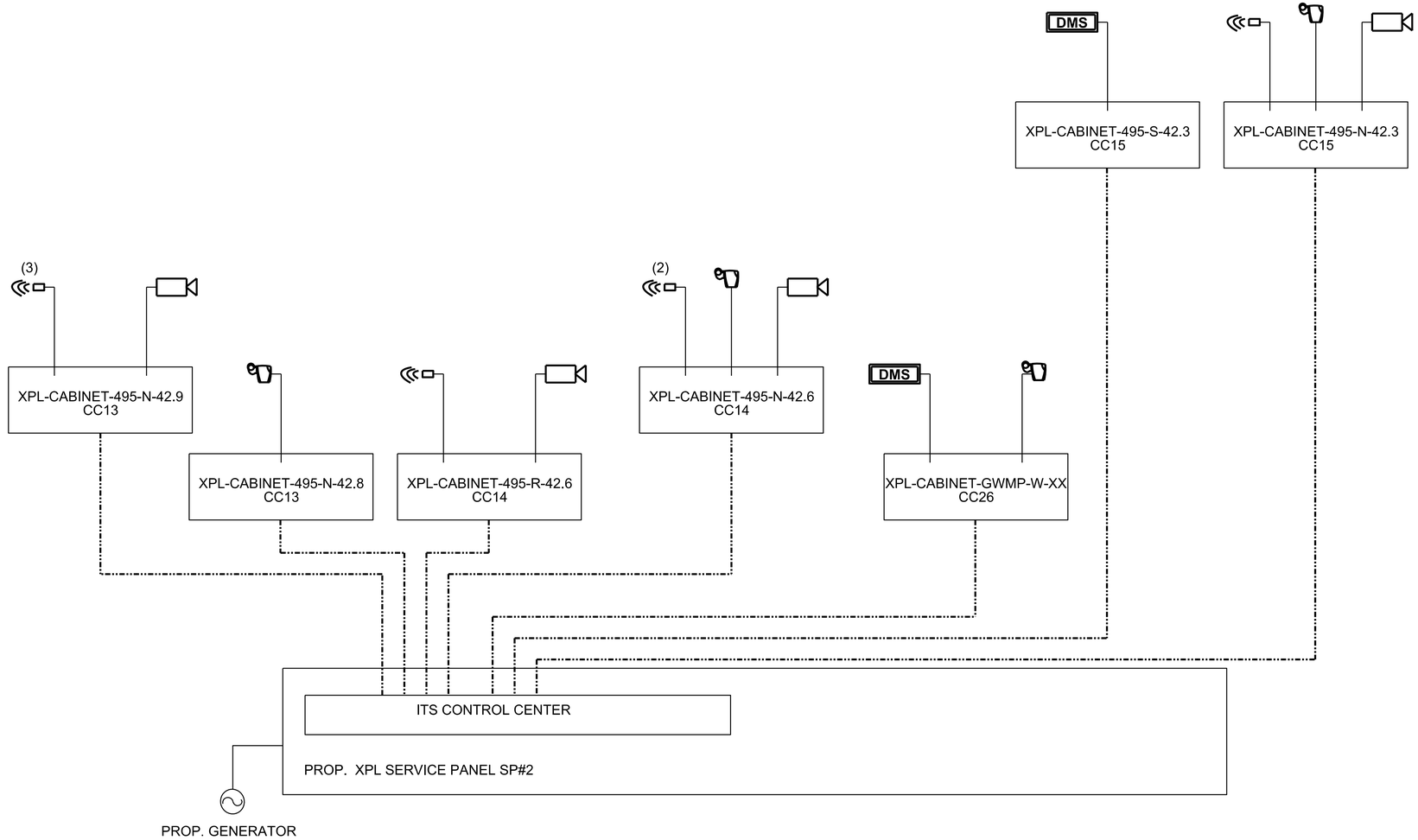
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(G7)

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



LEGEND:

EXISTING

- POWER CABLE
- GENERATOR
- DMS — DYNAMIC MESSAGE SIGN
- MICROWAVE VEHICLE DETECTOR
- E-ZPass — TOLL TAG READER & ENFORCEMENT
- XXXX — ITS CABINET

PROPOSED

- MICROWAVE VEHICLE DETECTOR
- EXPRESS LANES VIDEO CAMERA
- EL POWER CABLE
- AID CAMERA
- GENERATOR
- XXXX — ITS CABINET
- DMS — DYNAMIC MESSAGE SIGN
- DEVICE CABINET

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(G7)

LIMITED ACCESS HIGHWAY

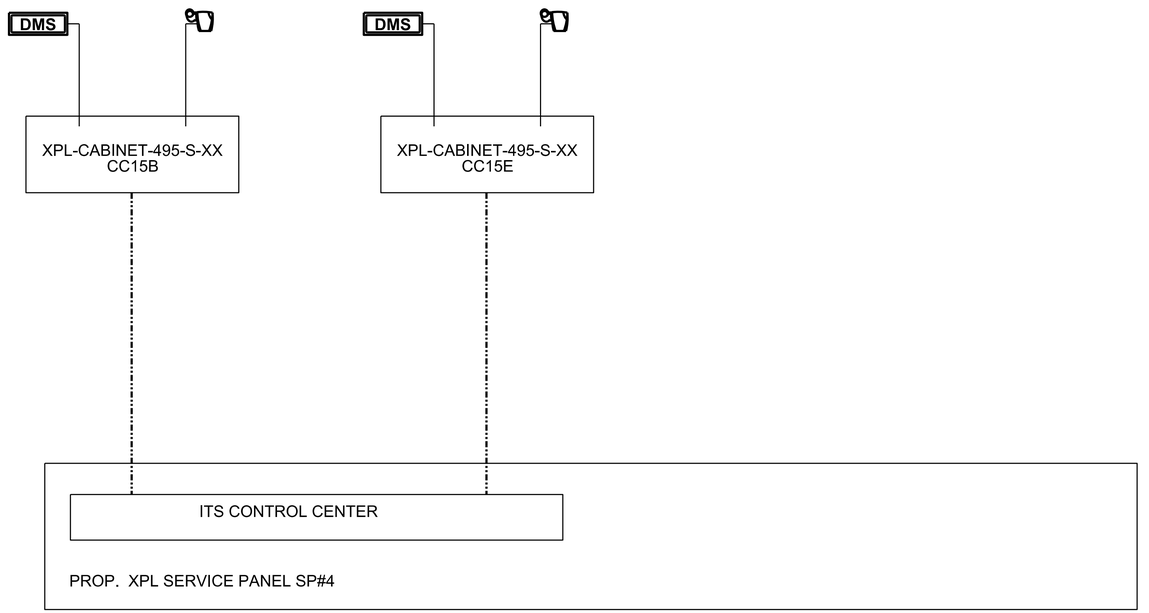
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(G8)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



LEGEND:

EXISTING

- POWER CABLE
- GENERATOR
- DMS — DYNAMIC MESSAGE SIGN
- MICROWAVE VEHICLE DETECTOR
- E-ZPass — TOLL TAG READER & ENFORCEMENT
- XXXX — ITS CABINET

PROPOSED

- MICROWAVE VEHICLE DETECTOR
- EXPRESS LANES VIDEO CAMERA
- EL POWER CABLE
- AID CAMERA
- GENERATOR
- XXXX — ITS CABINET
- DMS — DYNAMIC MESSAGE SIGN
- DEVICE CABINET

RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

PROJECT	SHEET NO.
0495-029-419	CC(G8)

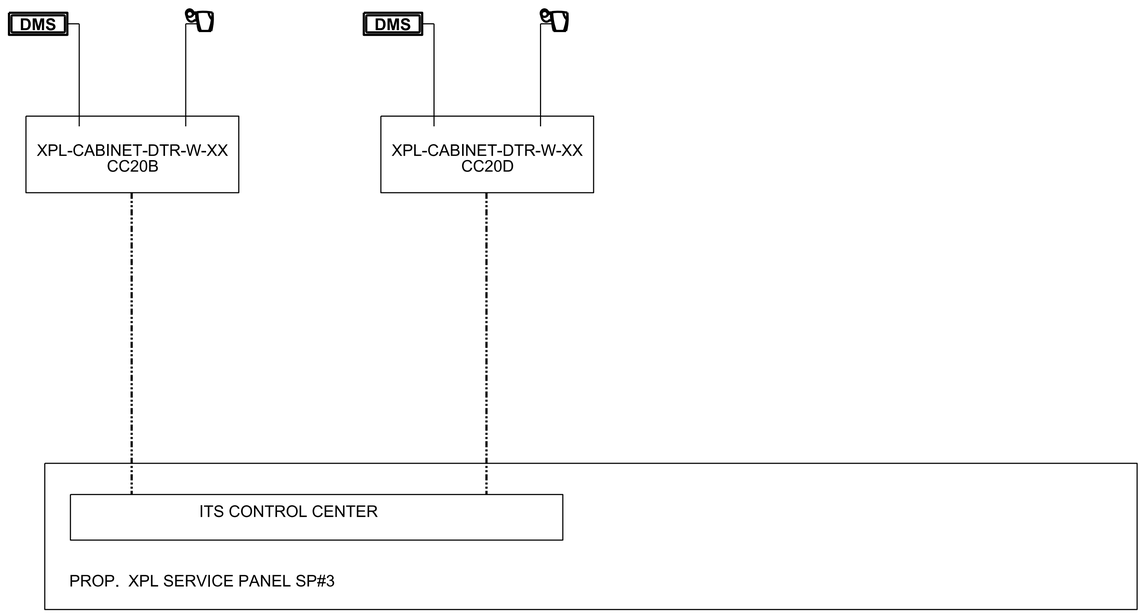
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(G9)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



LEGEND:

EXISTING

- POWER CABLE
- GENERATOR
- DMS — DYNAMIC MESSAGE SIGN
- MICROWAVE VEHICLE DETECTOR
- E-ZPass — TOLL TAG READER & ENFORCEMENT
- XXXX — ITS CABINET

PROPOSED

- MICROWAVE VEHICLE DETECTOR
- EXPRESS LANES VIDEO CAMERA
- EL POWER CABLE
- AID CAMERA
- GENERATOR
- XXXX — ITS CABINET
- DMS — DYNAMIC MESSAGE SIGN
- DEVICE CABINET

RFP CONCEPTUAL PLANS REVISION NO.4 DATE: 04/06/2021

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

PROJECT	SHEET NO.
0495-029-419	CC(G9)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

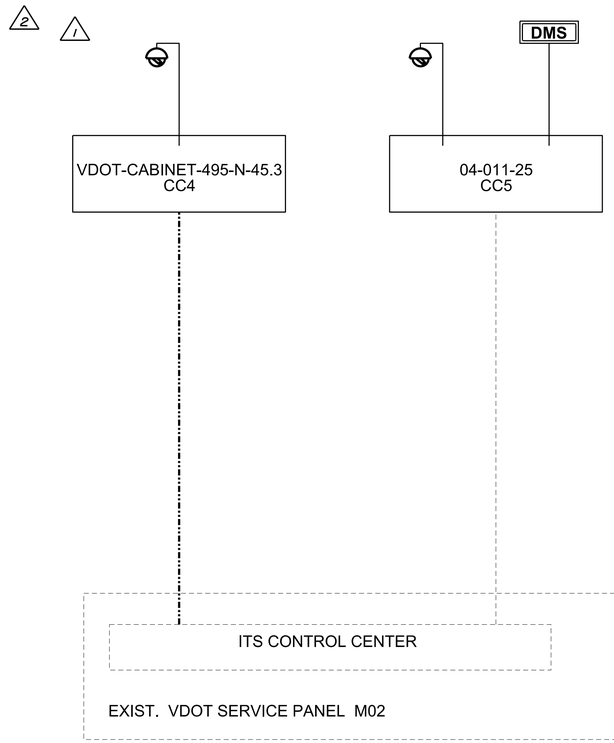
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISIONS		
No.	Description	Date
1	Added VDOT DMS to match with signing design.	11/13/2020
2	Added VDOT ITS device between Interchange	12/18/2020

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(GIO)

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



NOTE:

1. DESIGN BUILD TEAM SHALL VERIFY IF EXISTING SERVICE UPGRADE IS NEEDED.
2. NOT ALL EXISTING POWER CIRCUITS ARE SHOWN FOR CLARITY.

LEGEND:

EXISTING

- POWER CABLE
- DMS — DYNAMIC MESSAGE SIGN
- MICROWAVE VEHICLE DETECTOR
- XXXX — ITS CABINET

PROPOSED

- MICROWAVE VEHICLE DETECTOR
- VDOT VIDEO CAMERA
- VDOT POWER CABLE
- XXXX — ITS CABINET
- DMS — DYNAMIC MESSAGE SIGN
- DEVICE CABINET

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

PROJECT	SHEET NO.
0495-029-419	CC(GIO)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

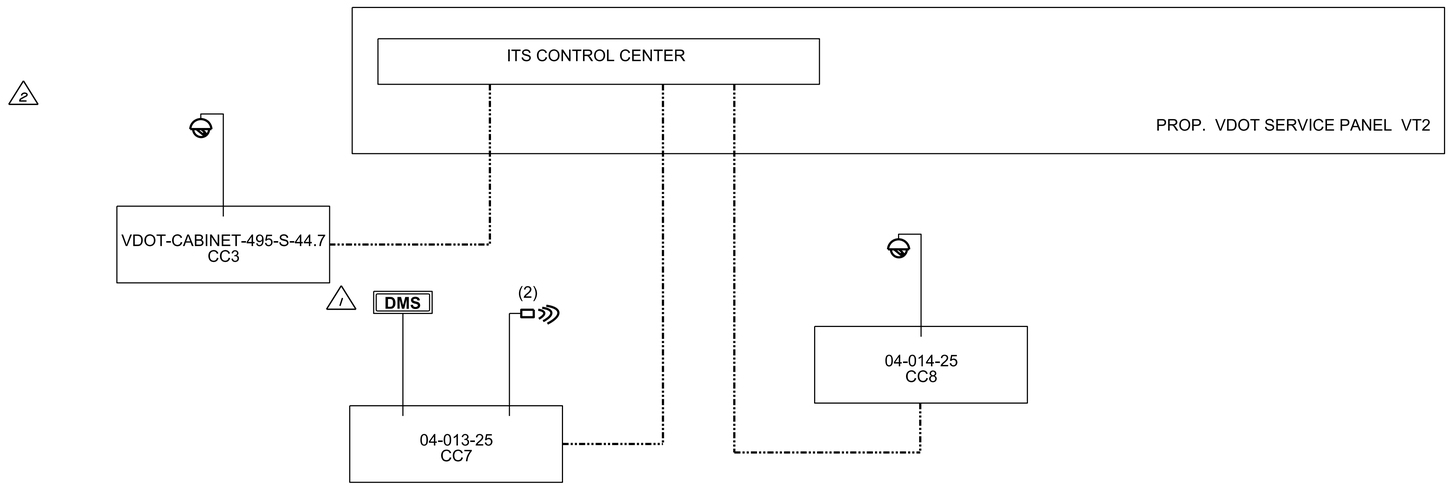
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
1	Added VDOT DMS to match with signing design. Added VDOT MVDS between interchange for each direction.	11/13/2020
2	Added VDOT ITS device between interchange	12/18/2020

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(GII)

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



LEGEND:

EXISTING

- POWER CABLE
- DMS — DYNAMIC MESSAGE SIGN
- MICROWAVE VEHICLE DETECTOR
- XXXX — ITS CABINET

PROPOSED

- MICROWAVE VEHICLE DETECTOR
- VDOT VIDEO CAMERA
- VDOT POWER CABLE
- XXXX — ITS CABINET
- DMS — DYNAMIC MESSAGE SIGN
- DEVICE CABINET

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(GII)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

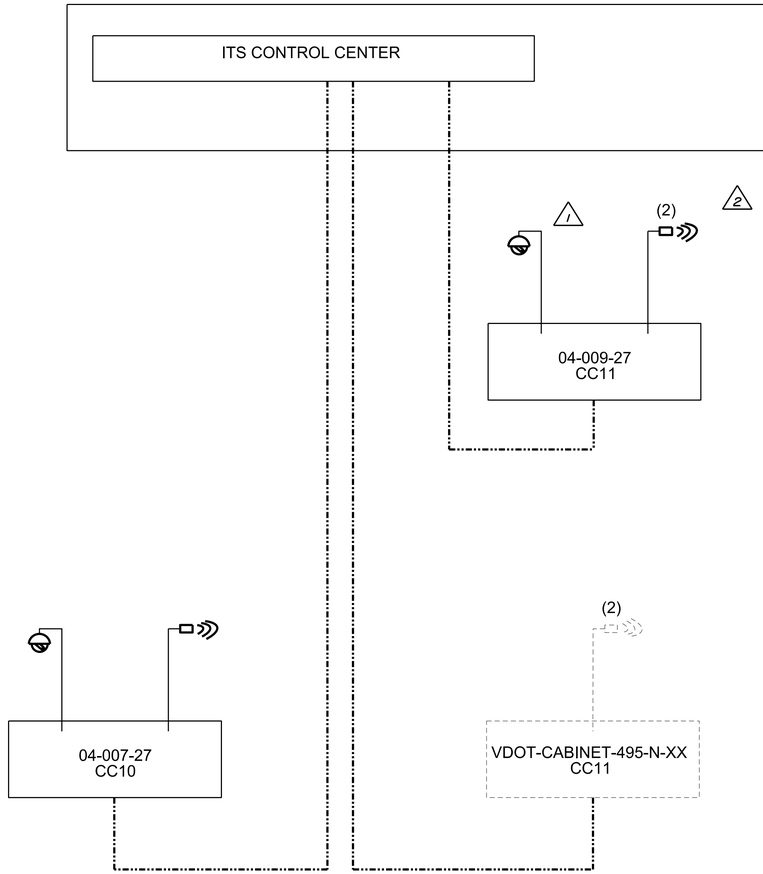
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
1	Added VDOT MVDS between Interchange for each direction.	11/13/2020
2	Added VDOT ITS device between Interchange	12/18/2020

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(GI2)

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



NOTE:

NOT ALL EXISTING POWER CIRCUITS ARE SHOWN FOR CLARITY. REROUTE THE EXISTING CIRCUITS REMAINING IN SERVICE TO THE EXISTING SERVICE PANEL TO THE PROPOSED SERVICE PANEL.

LEGEND:

EXISTING

- POWER CABLE
- DMS — DYNAMIC MESSAGE SIGN
- MICROWAVE VEHICLE DETECTOR
- XXXX — ITS CABINET

PROPOSED

- MICROWAVE VEHICLE DETECTOR
- VDOT VIDEO CAMERA
- VDOT POWER CABLE
- XXXX — ITS CABINET
- DMS — DYNAMIC MESSAGE SIGN
- DEVICE CABINET

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(GI2)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

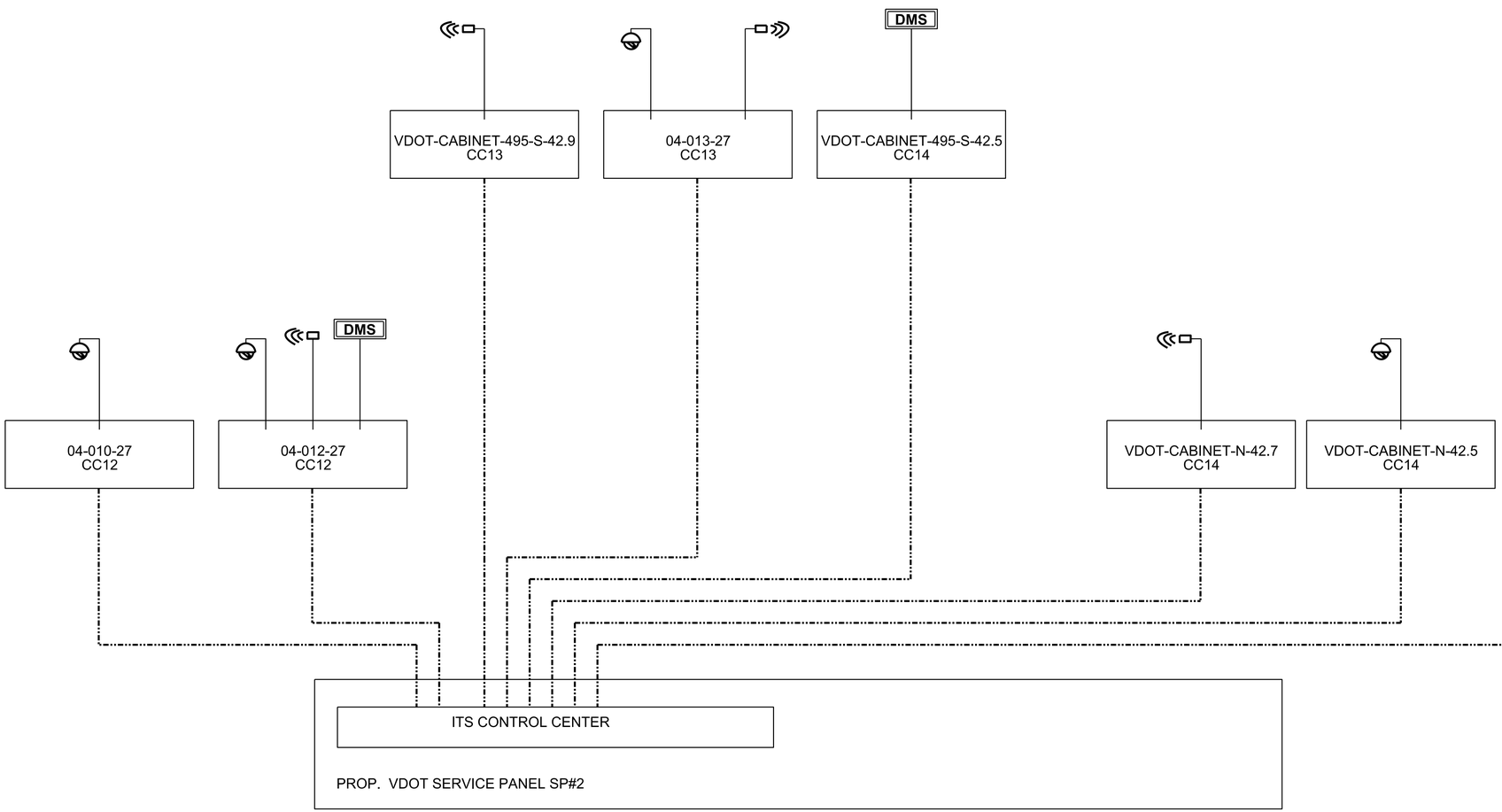
REVISIONS		
No.	Description	Date
1	Added VDOT MVDS between Interchange for each direction. Added new VDOT DMS and CCTV	11/13/2020

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(GI3)

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

1



LEGEND:

EXISTING		PROPOSED			
	POWER CABLE		MICROWAVE VEHICLE DETECTOR	DMS	DYNAMIC MESSAGE SIGN
DMS	DYNAMIC MESSAGE SIGN		VDOT VIDEO CAMERA		DEVICE CABINET
	MICROWAVE VEHICLE DETECTOR		VDOT POWER CABLE		
XXXX	ITS CABINET	XXXX	ITS CABINET		

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(GI3)

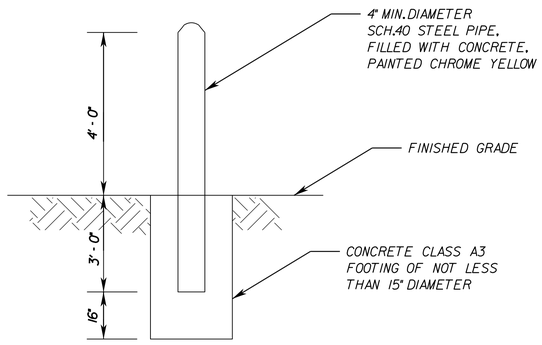
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
2	Revised Plan Note	12/18/2020

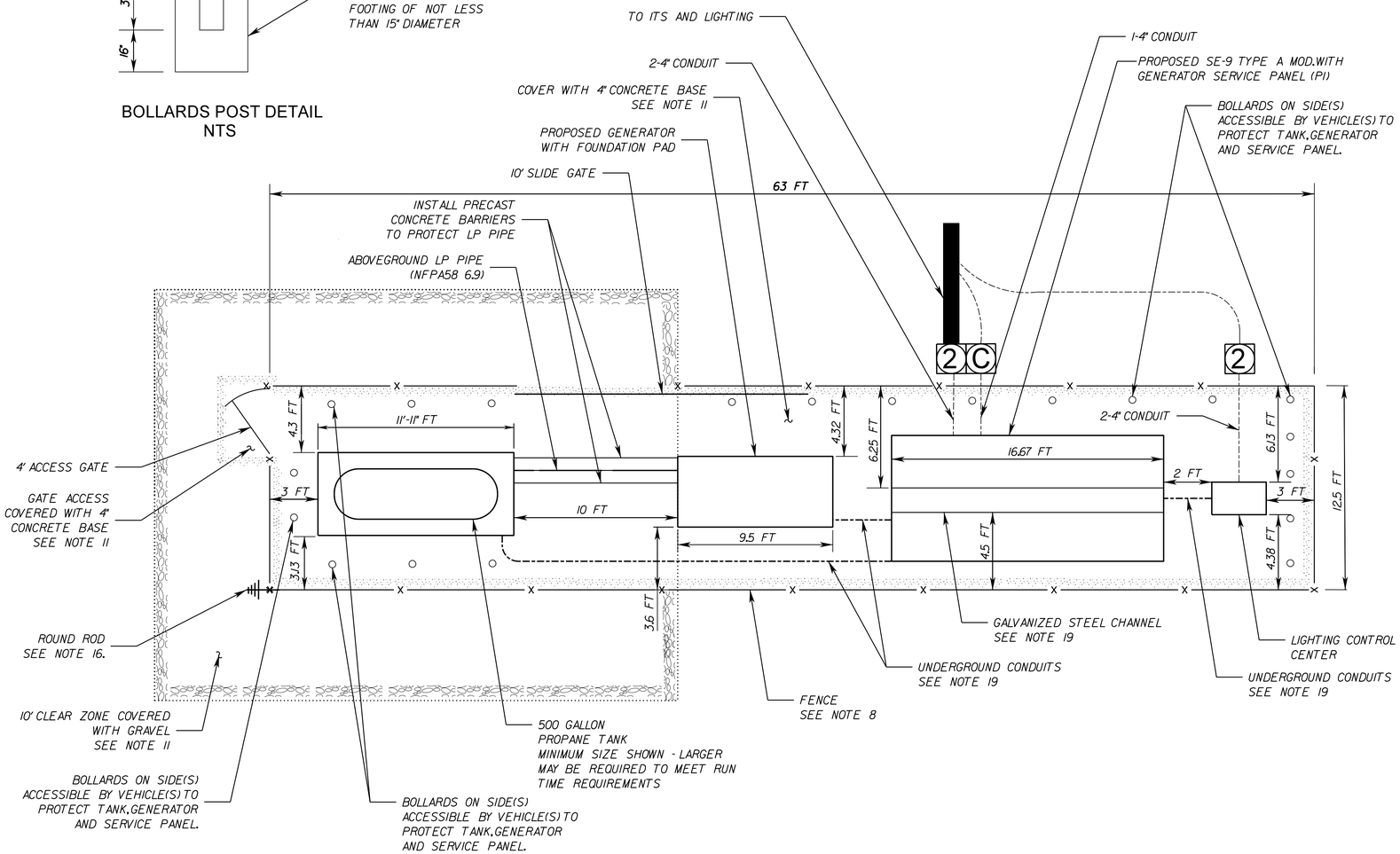
VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(HI)

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



BOLLARDS POST DETAIL
NTS



TYPICAL GENERATOR SITE DETAIL
NTS

NOTES:

1. ALL WORK SHALL COMPLY WITH SHEET NOTES AND "ITS SPECIAL PROVISIONS AND SPECIFICATIONS: I-495 NEXT" SECTION 807.
2. DESIGN BUILDER TO PROVIDE ITS PANEL BOARD SCHEDULES FOR GENERATOR CAPACITY.
3. SEE SE-9 TYPE A MOD. SERVICE PANEL DETAIL FOR EQUIPMENT AND CONDUIT ARRANGEMENT.
4. CONTAINER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA58, 2011 EDITION.
5. REFUELING, EMERGENCY, AND MAINTENANCE ACCESS SHALL BE PROVIDED TO THE CONTAINER SYSTEM.
6. FOR PROPANE TANK AND PAD DETAILS REFER TO PROPANE TANK DETAIL.
7. IF ENCLOSURE IS USED AROUND PROPANE TANKS, 2 MEANS OF EGRESS ARE REQUIRED IN ACCORDANCE WITH NFPA58 6.18.4.2.
8. ENCLOSURE FENCE SHALL BE A MINIMUM OF 6' HIGH INDUSTRIAL-TYPE FENCE, CHAIN LINK FENCE, OR EQUIVALENT PROTECTION WITH INCORPORATED PRIVACY SCREENING MATERIAL.
9. BOTH EGRESS GATES SHALL BE SECURED BY LOCKS WITH KEYS OR CODES, APPROVED BY TRANSURBAN. TRANSURBAN SHALL MAKE KEYS OR CODES AVAILABLE TO COMPANY PROVIDING CONTRACTED MAINTENANCE AND APPROPRIATE AGENCIES AND DEPARTMENTS PROVIDING FOR PUBLIC SAFETY.
10. VISIBLE HAZARD IDENTIFICATION SIGNS SHALL BE PLACED IN ACCORDANCE WITH NFPA 704 AND VA STATEWIDE FIRE PREVENTION CODE.
11. OPEN AREA WITHIN THE FENCE SHALL BE COVERED WITH 4" CONCRETE BASE AND 10' CLEAR ZONE AROUND THE CONTAINER SYSTEM SHALL BE COVERED WITH GRAVEL (AGGREGATE BASE MATERIAL TYPE 1, SIZE 21, 6 INCH DEPTH). GATE ACCESS SHALL BE COVERED WITH 4" CONCRETE BASE. DRIVEWAY ACCESS SHALL BE COVERED WITH 4" CONCRETE BASE. THE DISTANCE SHALL BE MEASURED FROM THE EDGE OF THE CONTAINER.
12. ELECTRICAL EQUIPMENT AND WIRING INSTALLED SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
13. THE VDOT AND TRANSURBAN ENGINEER SHALL BE CONTACTED PRIOR TO FILLING PROPANE TANK TO ARRANGE SITE INSPECTION. CONTAINER SHALL BE FILLED ONLY AFTER DETERMINATION THAT IT COMPLIES WITH THE DESIGN, FABRICATION, INSPECTION, AND MARKING CODES.
14. CONTAINER SITE SHALL MEET REQUIREMENTS FOR "LOW EMISSION TRANSFER SITE" (NFPA 6.5.4.4 AND 6.25.6)
15. INTERCONNECT GENERATOR, SERVICE PANEL AND FENCE GROUND ROD ELECTRODES WITH #2 BARE TINNED SOLID CONDUCTOR. OTHER METALLIC STRUCTURES WITH PATHS TO GROUND SHALL BE CONNECTED TO THE GROUNDING CONDUCTOR IF THEY ARE LOCATED WITHIN 10' OF THE GROUNDING ELECTRODE SYSTEM.
16. INSTALLATION AND TESTING OF THE GROUND RODS SHALL BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 700. (2)
17. CONTRACTOR SHALL VERIFY EXISTING UTILITIES PRIOR TO THE INSTALLATION OF ANY EQUIPMENT. CONTRACTOR SHALL IMMEDIATELY NOTIFY TRANSURBAN ENGINEER OF ANY DISCOVERED CONFLICTS AND SHALL HALT WORK UNTIL ISSUE IS RESOLVED.
18. MAINTAIN A MINIMUM OF 3' CLEARANCE AROUND OF ALL SIDES OF EACH EQUIPMENT.
19. SEE SHEET CC(H3) FOR THE NUMBER AND SIZE OF CONDUITS AND EQUIPMENT LAYOUT.
20. THE DESIGN BUILDER SHALL SUBMIT GENERATOR SITE DETAILS SPECIFIC TO EACH LOCATION FOR ALL NEW AND MODIFIED SITES.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(HI)

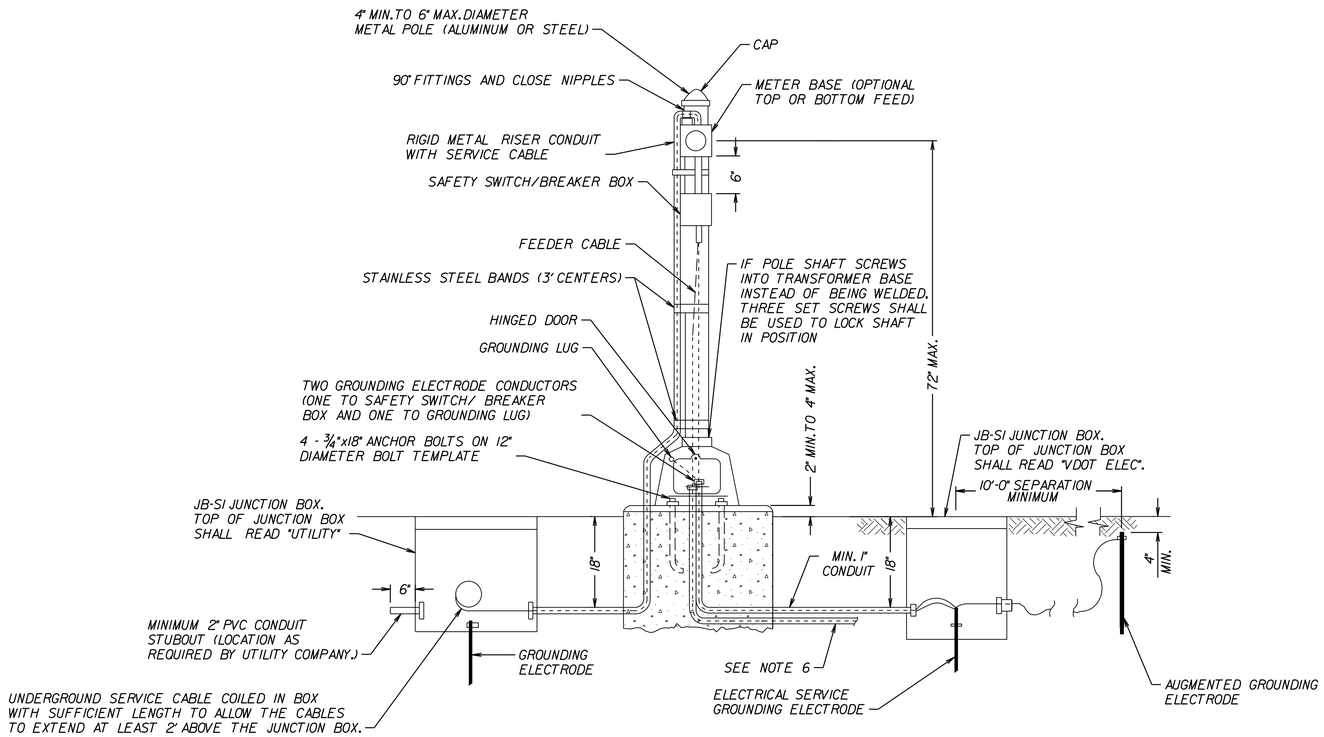
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(H2)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



TYPE SE-5 MODIFIED
NTS

NOTES:

1. LOCAL POWER UTILITY COMPANY WILL INSTALL SERVICE CABLE FROM THEIR POWER SOURCE TO THE JUNCTION BOX AND MAKE REQUIRED SPLICES TO THE CABLES PROVIDED.
2. THIS STANDARD IS APPLICABLE FOR ALL ELECTRICAL SERVICES OTHER THAN 480Y/277.
3. FOR ROADWAY LIGHTING SYSTEMS,ONLY SAFETY SWITCH SHALL BE USED.
4. ALL ELECTRICAL CONNECTIONS AND SPLICES SHALL BE TESTED FOR ELECTRICAL CONTINUITY.
5. FOUNDATION SHALL BE CLASS A3 CONCRETE,24x24 SQUARE OR 24" DIAMETER AND 24" DEEP,AND COST OF FOUNDATION SHALL BE INCLUDED WITH THE PAY ITEM FOR ELECTRICAL SERVICE.
6. CONDUIT AND CONDUCTOR SIZE SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS.
7. RIGID METAL RISER CONDUIT AND SERVICE CABLE SIZE SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS,OR AS SPECIFIED BY THE LOCAL POWER COMPANY.
8. WHEN REQUIRED BY THE CONTRACT DOCUMENTS,AN ELECTRICAL SERVICE WORK PAD SHALL BE PLACED IN FRONT OF THE SAFETY SWITCH/BREAKER BOX. ELECTRICAL SERVICE WORK PAD SHALL BE A SEPARATE PAY ITEM.
9. STAINLESS STEEL BANDS REQUIRED FOR METER BASE AND SAFETY SWITCH/ BREAKER BOX.
10. ANCHOR BOLTS AND BOLT TEMPLATE SHALL BE FURNISHED BY POLE MANUFACTURER,AND POLE SHALL BE CENTERED ON FOUNDATION.
11. NO OTHER CONDUCTORS SHALL BE RUN IN THE SAME CONDUIT WITH ELECTRICAL SERVICE CABLE.
12. GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF METAL CONDUITS.
13. EMPTY CONDUITS SHALL BE PLUGGED TO PREVENT MOISTURE AND RODENT ENTRY.
14. OPEN ENDS OF CONDUITS WITH CONDUCTORS INSTALLED SHALL BE SEALED WITH AN APPROVED SOFT,PLIABLE,AND EASILY REMOVABLE WATERPROOF SEALANT. THE SEALANT SHALL NOT HAVE A DELETERIOUS EFFECT ON CABLE COVERINGS.
15. BELL ENDS SHALL BE INSTALLED ON EACH END OF PVC CONDUITS.
16. REFER TO STANDARD MP-2 FOR GROUNDING LUG DETAILS.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

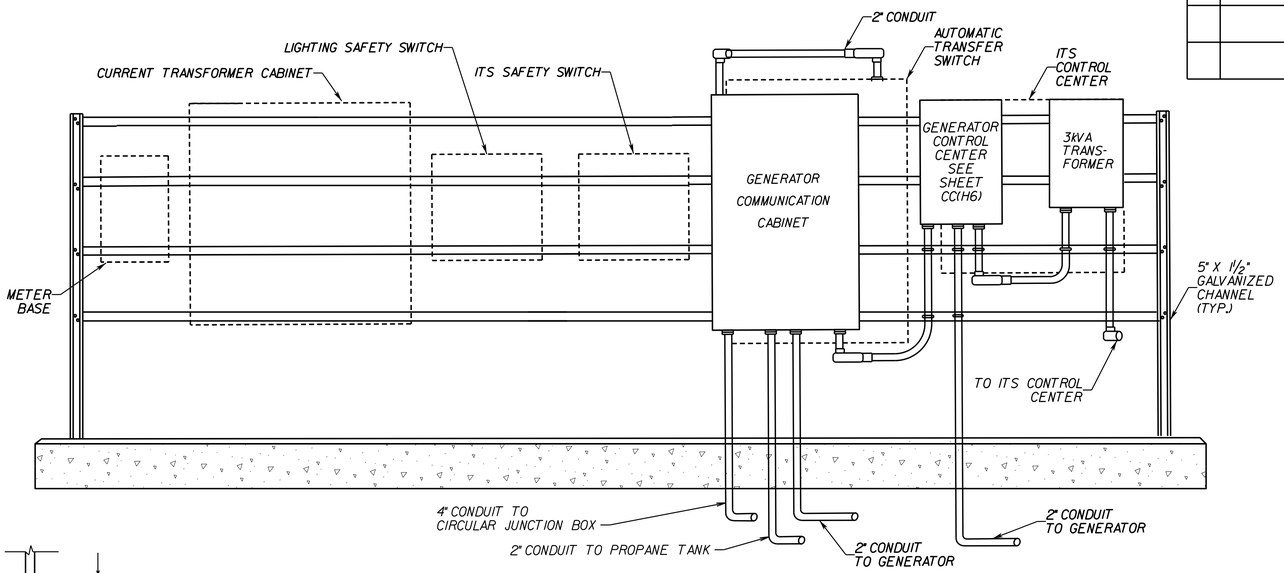
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
2	Revised Plan Note	07/27/2018

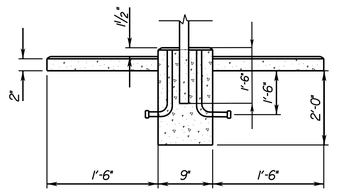
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(H3)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



EQUIPMENT LAYOUT - BACK FACE
SCALE: NTS



FOUNDATION DETAIL - SIDE VIEW
NTS

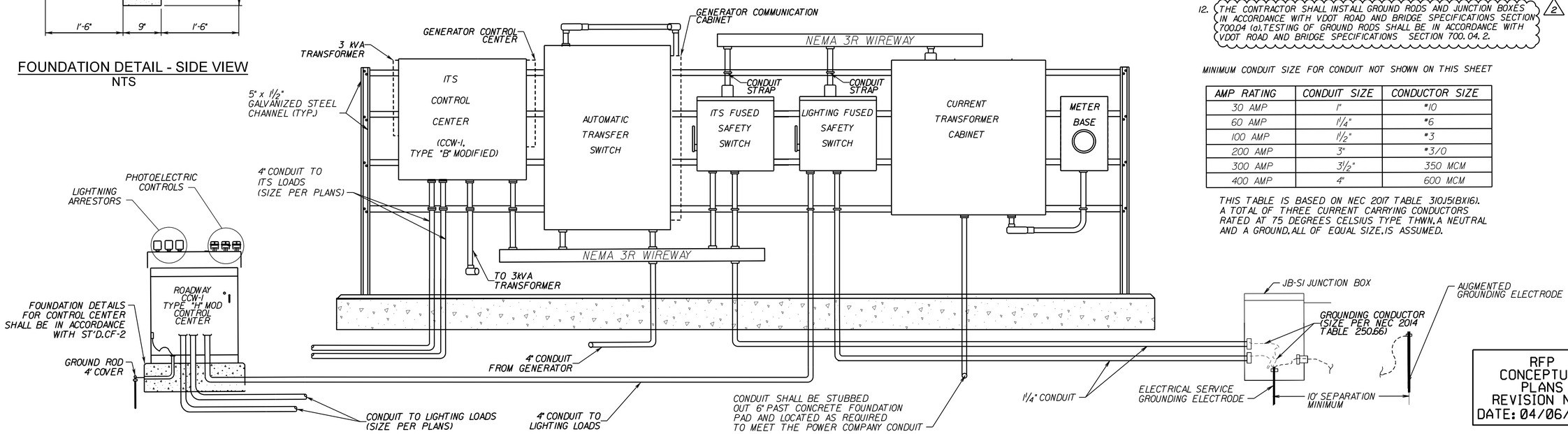
NOTES:

1. ALL EXPOSED CONDUITS SHALL BE GALVANIZED RIGID STEEL.
2. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED ¾".
3. GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF METAL CONDUITS.
4. BELL ENDS SHALL BE INSTALLED ON THE ENDS OF PVC CONDUITS.
5. LOCAL POWER COMPANY WILL INSTALL SERVICE CABLE FROM POWER SOURCE TO THE CURRENT TRANSFORMER CABINET AND METER BASE.
6. SAFETY SWITCH, METER BASE, WIREWAY, CURRENT TRANSFORMER CABINET AND CONTROL CENTER SHALL BE ATTACHED TO THE CHANNELING WITH ⅜" GALVANIZED BOLTS, LOCK WASHERS AND NUTS. FOUR CROSS CHANNELS SHALL BE UTILIZED.
7. EACH FOUNDATION SHALL BE PERMANENTLY MARKED TO INDICATE ALL SIDES FROM WHICH CONDUITS PASS. THIS MARK SHALL BE MADE WITH A TROWEL WHEN FINISHING THE CONCRETE AND SHALL BE 1/4 " DEEP AND 4" TO 6" LONG.
8. THIS STANDARD IS APPLICABLE FOR 277v/480v ELECTRICAL SERVICE ONLY.
9. AS NEEDED, THE CONTRACTOR SHALL LEAVE A SUFFICIENT AMOUNT OF CONDUCTOR CABLE COILED INSIDE THE CURRENT TRANSFORMER CABINET TO PERMIT THE LOCAL POWER COMPANY TO MAKE CONNECTION.
10. ALL ENCLOSURES SHALL MEET NEMA 3R SPECIFICATIONS AND REQUIREMENTS.
11. LIGHTING ARRESTORS SHALL BE 277 VOLTS. DELTA LIGHTING ARRESTOR MODEL LA 601OR APPROVED EQUAL.
12. THE CONTRACTOR SHALL INSTALL GROUND RODS AND JUNCTION BOXES IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 700.04 (a).TESTING OF GROUND RODS SHALL BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 700.04.2. (2)

MINIMUM CONDUIT SIZE FOR CONDUIT NOT SHOWN ON THIS SHEET

AMP RATING	CONDUIT SIZE	CONDUCTOR SIZE
30 AMP	1"	#10
60 AMP	1¼"	#6
100 AMP	1½"	#3
200 AMP	3"	#3/0
300 AMP	3½"	350 MCM
400 AMP	4"	600 MCM

THIS TABLE IS BASED ON NEC 2017 TABLE 310.15(B)(16). A TOTAL OF THREE CURRENT CARRYING CONDUCTORS RATED AT 75 DEGREES CELSIUS TYPE THWN, A NEUTRAL AND A GROUND, ALL OF EQUAL SIZE, IS ASSUMED.



ROADWAY LIGHTING CONTROL CENTER
CCW-1 TYPE "H" MODIFIED
NTS

EQUIPMENT LAYOUT - FRONT FACE
SCALE: NTS

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

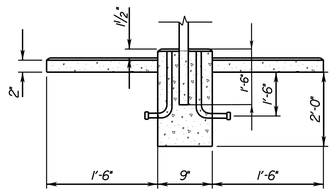
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
2	Revised Plan Note	12/18/2020

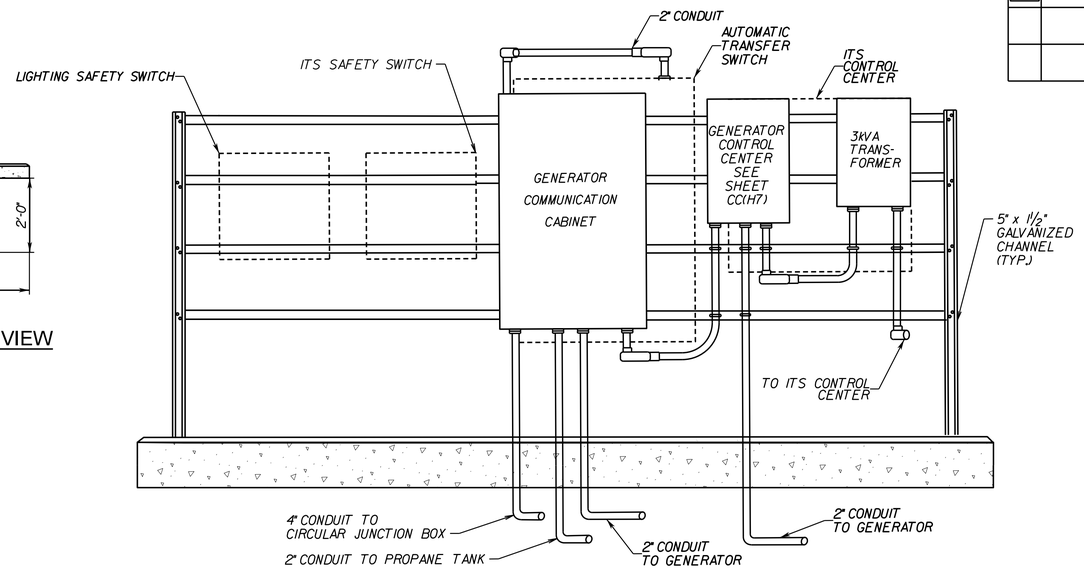
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(H4)

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

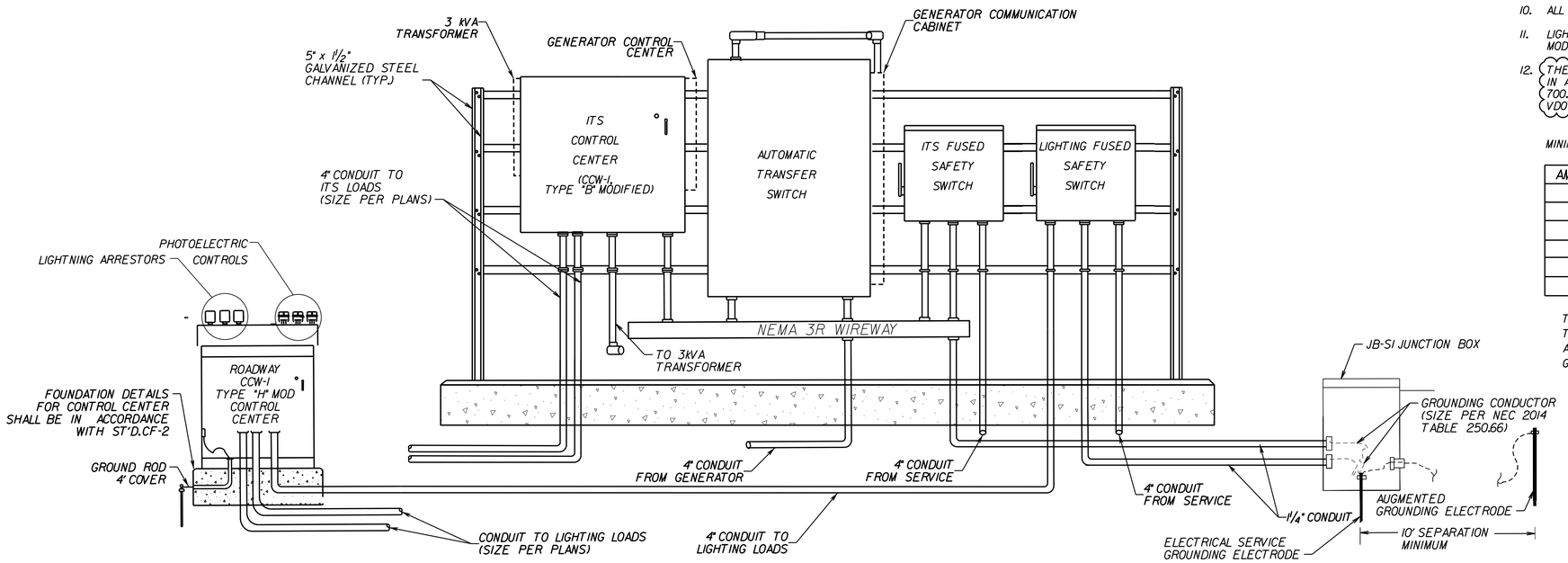
VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



FOUNDATION DETAIL - SIDE VIEW
NTS



EQUIPMENT LAYOUT - BACK FACE
SCALE: NTS



ROADWAY LIGHTING CONTROL CENTER
CCW-1 TYPE "H" MODIFIED
NTS

TYPE "SE-9 MOD." EQUIPMENT LAYOUT - FRONT FACE
SCALE: NTS

NOTES:

1. ALL EXPOSED CONDUITS SHALL BE GALVANIZED RIGID STEEL.
2. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED ¾".
3. GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF METAL CONDUITS.
4. BELL ENDS SHALL BE INSTALLED ON THE ENDS OF PVC CONDUITS.
5. LOCAL POWER COMPANY WILL INSTALL SERVICE CABLE FROM POWER SOURCE TO THE CURRENT TRANSFORMER CABINET AND METER BASE.
6. SAFETY SWITCH, METER BASE, WIREWAY, CURRENT TRANSFORMER CABINET AND CONTROL CENTER SHALL BE ATTACHED TO THE CHANNELING WITH ⅜" GALVANIZED BOLTS, LOCK WASHERS AND NUTS. FOUR CROSS CHANNELS SHALL BE UTILIZED.
7. EACH FOUNDATION SHALL BE PERMANENTLY MARKED TO INDICATE ALL SIDES FROM WHICH CONDUITS PASS. THIS MARK SHALL BE MADE WITH A TROWEL WHEN FINISHING THE CONCRETE AND SHALL BE 1/4 " DEEP AND 4" TO 6" LONG.
8. THIS STANDARD IS APPLICABLE FOR 277v/480v ELECTRICAL SERVICE ONLY.
9. AS NEEDED, THE CONTRACTOR SHALL LEAVE A SUFFICIENT AMOUNT OF CONDUCTOR CABLE COILED INSIDE THE CURRENT TRANSFORMER CABINET TO PERMIT THE LOCAL POWER COMPANY TO MAKE CONNECTION.
10. ALL ENCLOSURES SHALL MEET NEMA 3R SPECIFICATIONS AND REQUIREMENTS.
11. LIGHTING ARRESTORS SHALL BE 277 VOLTS. DELTA LIGHTING ARRESTOR MODEL LA 601 OR APPROVED EQUAL.
12. (2) THE CONTRACTOR SHALL INSTALL GROUND RODS AND JUNCTION BOXES IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 700.04 (a). TESTING OF GROUND RODS SHALL BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 700.04.2.

MINIMUM CONDUIT SIZE FOR CONDUIT NOT SHOWN ON THIS SHEET

AMP RATING	CONDUIT SIZE	CONDUCTOR SIZE
30 AMP	1"	#10
60 AMP	1¼"	#6
100 AMP	1½"	#3
200 AMP	3"	#3/0
300 AMP	3½"	350 MCM
400 AMP	4"	600 MCM

THIS TABLE IS BASED ON NEC 2017 TABLE 310.15(B)(16). A TOTAL OF THREE CURRENT CARRYING CONDUCTORS RATED AT 75 DEGREES CELSIUS TYPE THWN, A NEUTRAL AND A GROUND, ALL OF EQUAL SIZE, IS ASSUMED.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

PROJECT	SHEET NO.
0495-029-419	CC(H4)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

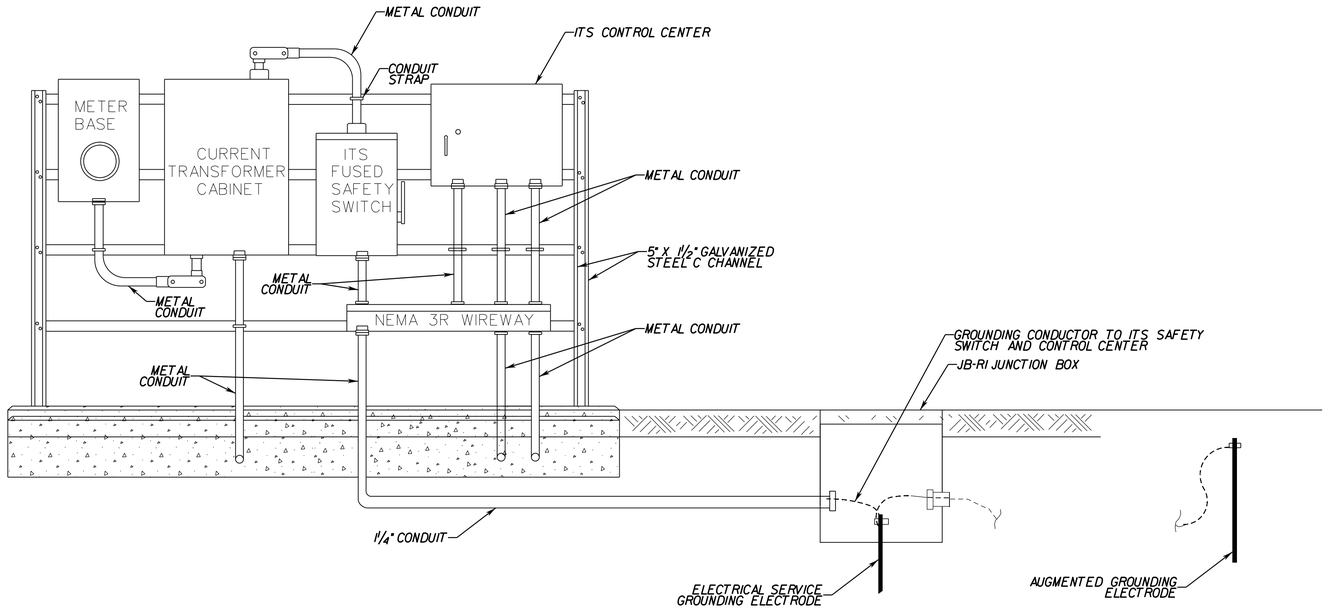
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISIONS		
No.	Description	Date
2	Revised Plan Note	12/18/2020

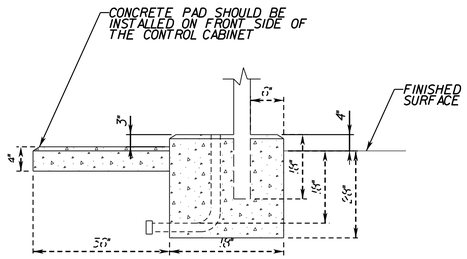
VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(H5)

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



SE-9 TYPE B MODIFIED EQUIPMENT LAYOUT
SCALE: NTS



SERVICE ENTRANCE FOUNDATION DETAIL
SCALE: NTS

NOTES:

1. ALL EXPOSED CONDUITS SHALL BE GALVANIZED RIGID STEEL.
2. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4".
3. GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF METAL CONDUITS.
4. BELL ENDS SHALL BE INSTALLED ON THE ENDS OF PVC CONDUITS.
5. LOCAL POWER COMPANY WILL INSTALL SERVICE CABLE FROM POWER SOURCE TO THE CURRENT TRANSFORMER CABINET AND METER BASE.
6. SAFETY SWITCH, METER BASE, WIREWAY, CURRENT TRANSFORMER CABINET AND CONTROL CENTER SHALL BE ATTACHED TO THE CHANNELING WITH 3/8" GALVANIZED BOLTS, LOCK WASHERS AND NUTS. FOUR CROSS CHANNELS SHALL BE UTILIZED.
7. EACH FOUNDATION SHALL BE PERMANENTLY MARKED TO INDICATE ALL SIDES FROM WHICH CONDUITS PASS. THIS MARK SHALL BE MADE WITH A TROWEL WHEN FINISHING THE CONCRETE AND SHALL BE 1/4 " DEEP AND 4" TO 6" LONG.
8. THIS STANDARD IS APPLICABLE FOR 277v/480v ELECTRICAL SERVICE ONLY.
9. AS NEEDED, THE CONTRACTOR SHALL LEAVE A SUFFICIENT AMOUNT OF CONDUCTOR CABLE COILED INSIDE THE CURRENT TRANSFORMER CABINET TO PERMIT THE LOCAL POWER COMPANY TO MAKE CONNECTION.
10. ALL ENCLOSURES SHALL MEET NEMA 3R SPECIFICATIONS AND REQUIREMENTS.
11. THE CONTRACTOR SHALL INSTALL GROUND RODS AND JUNCTION BOXES IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 700.04 (a). TESTING OF GROUND RODS SHALL BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 700.04.2. (2)

MINIMUM CONDUIT SIZE FOR CONDUIT NOT SHOWN ON THIS SHEET

AMP RATING	CONDUIT SIZE	CONDUCTOR SIZE
30 AMP	1"	#10
60 AMP	1 1/4"	#6
100 AMP	1 1/2"	#3
200 AMP	3"	#3/0
300 AMP	3 1/2"	350 MCM
400 AMP	4"	600 MCM

THIS TABLE IS BASED ON NEC 2017 TABLE 310.15(B)(16). A TOTAL OF THREE CURRENT CARRYING CONDUCTORS RATED AT 75 DEGREES CELSIUS TYPE THWN, A NEUTRAL AND A GROUND, ALL OF EQUAL SIZE, IS ASSUMED.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(H5)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

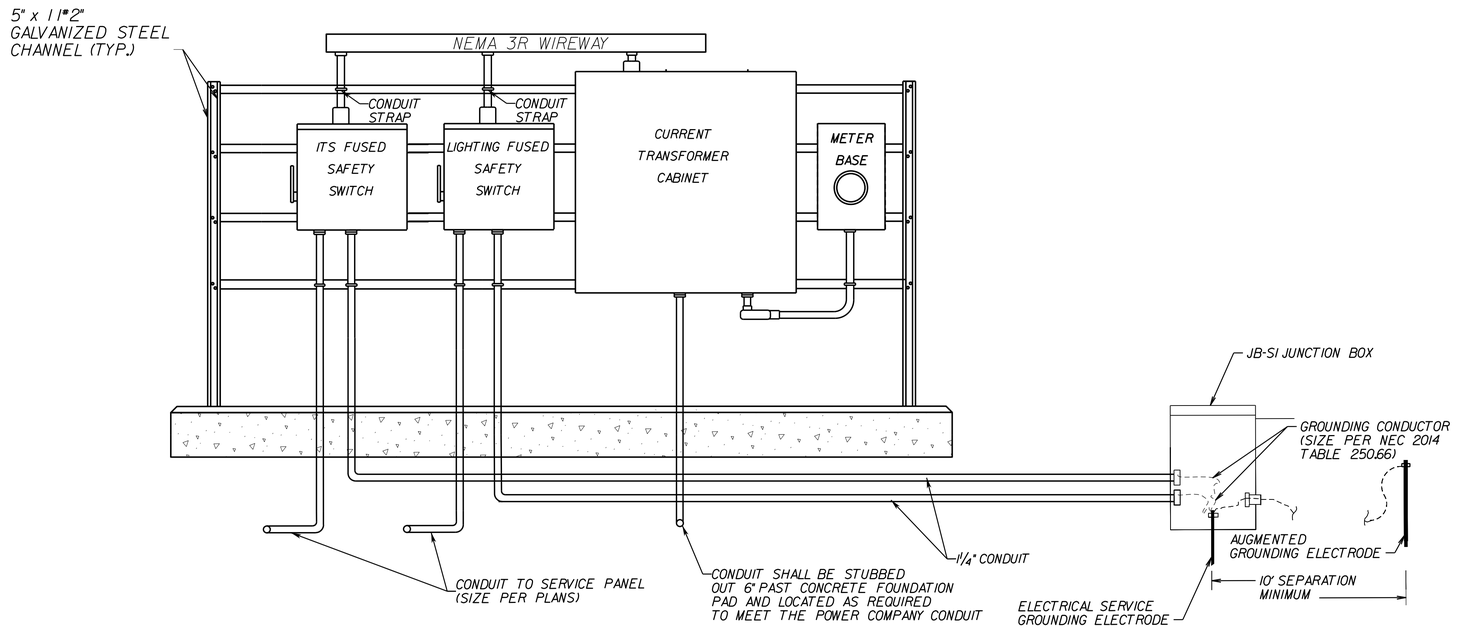
PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

REVISIONS		
No.	Description	Date
2	Revised Plan Note	12/18/2020

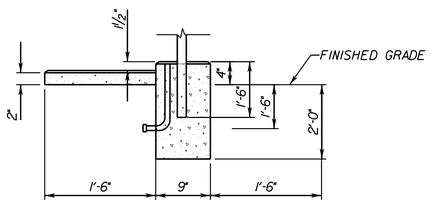
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(H6)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



EQUIPMENT LAYOUT - SERVICE ONLY
SCALE: NTS



FOUNDATION DETAIL - SIDE VIEW
NTS

NOTES:

1. ALL EXPOSED CONDUITS SHALL BE GALVANIZED RIGID STEEL.
2. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED ¾".
3. GROUNDING BUSHINGS SHALL BE INSTALLED ON EACH END OF METAL CONDUITS.
4. BELL ENDS SHALL BE INSTALLED ON THE ENDS OF PVC CONDUITS.
5. LOCAL POWER COMPANY WILL INSTALL SERVICE CABLE FROM POWER SOURCE TO THE CURRENT TRANSFORMER CABINET AND METER BASE.
6. SAFETY SWITCH, METER BASE, WIREWAY, CURRENT TRANSFORMER CABINET AND CONTROL CENTER SHALL BE ATTACHED TO THE CHANNELING WITH ⅜" GALVANIZED BOLTS, LOCK WASHERS AND NUTS. FOUR CROSS CHANNELS SHALL BE UTILIZED.
7. EACH FOUNDATION SHALL BE PERMANENTLY MARKED TO INDICATE ALL SIDES FROM WHICH CONDUITS PASS. THIS MARK SHALL BE MADE WITH A TROWEL WHEN FINISHING THE CONCRETE AND SHALL BE 1/4 " DEEP AND 4" TO 6" LONG.
8. THIS STANDARD IS APPLICABLE FOR 277v/480v ELECTRICAL SERVICE ONLY.
9. AS NEEDED, THE CONTRACTOR SHALL LEAVE A SUFFICIENT AMOUNT OF CONDUCTOR CABLE COILED INSIDE THE CURRENT TRANSFORMER CABINET TO PERMIT THE LOCAL POWER COMPANY TO MAKE CONNECTION.
10. ALL ENCLOSURES SHALL MEET NEMA 3R SPECIFICATIONS AND REQUIREMENTS.
11. LIGHTING ARRESTORS SHALL BE 277 VOLTS. DELTA LIGHTING ARRESTOR MODEL LA 601 OR APPROVED EQUAL.
12. THE CONTRACTOR SHALL INSTALL GROUND RODS AND JUNCTION BOXES IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 700.04 (a). TESTING OF GROUND RODS SHALL BE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS SECTION 700.04.2. (2)

MINIMUM CONDUIT SIZE FOR CONDUIT NOT SHOWN ON THIS SHEET

AMP RATING	CONDUIT SIZE	CONDUCTOR SIZE
30 AMP	1"	#10
60 AMP	1 1/4"	#6
100 AMP	1 1/2"	#3
200 AMP	3"	#3/0
300 AMP	3 1/2"	350 MCM
400 AMP	4"	600 MCM

THIS TABLE IS BASED ON NEC 2017 TABLE 310.15(B)(16). A TOTAL OF THREE CURRENT CARRYING CONDUCTORS RATED AT 75 DEGREES CELSIUS TYPE THWN, A NEUTRAL AND A GROUND, ALL OF EQUAL SIZE, IS ASSUMED.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC(H6)

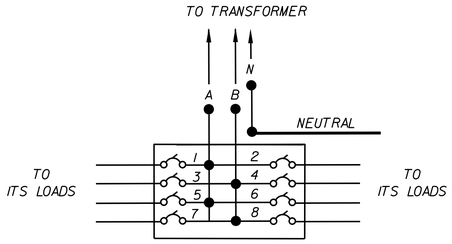
LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

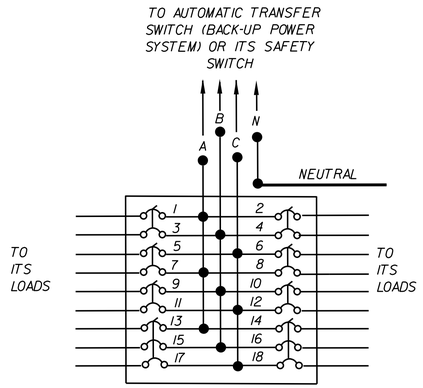
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(H7)

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

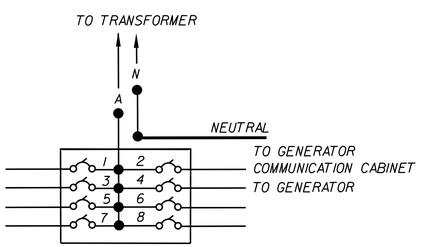
VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



CCW-1 TYPE "A" MODIFIED
NTS



CCW-1 TYPE "B" MODIFIED
NTS



GENERATOR CONTROL CENTER WIRING DETAIL
NTS

NOTES:

1. CONTACTORS SHALL HAVE 3 POLES FOR THREE PHASE SERVICES. NUMBER OF CONTACTORS SHALL BE AS REQUIRED TO HANDLE THE NUMBER OF CIRCUITS ACTUALLY BEING UTILIZED.
2. ALL CIRCUIT BREAKERS SHALL BE SINGLE POLE. VOLTAGE AND CURRENT RATING OF CONTACTORS AND BREAKERS SHALL BE AS INDICATED ON THE PLANS.
3. NUMBER OF CIRCUITS SHOWN ARE TYPICAL. EXACT NUMBER REQUIRED SHALL BE AS INDICATED IN THE PLANS.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

CONTROL CENTER WIRING DETAILS
NTS

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC(H7)

LIMITED ACCESS HIGHWAY

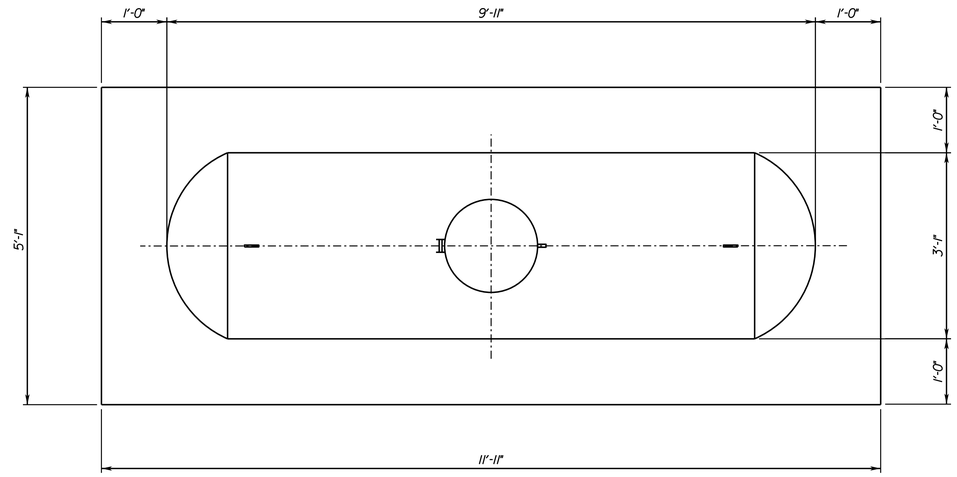
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

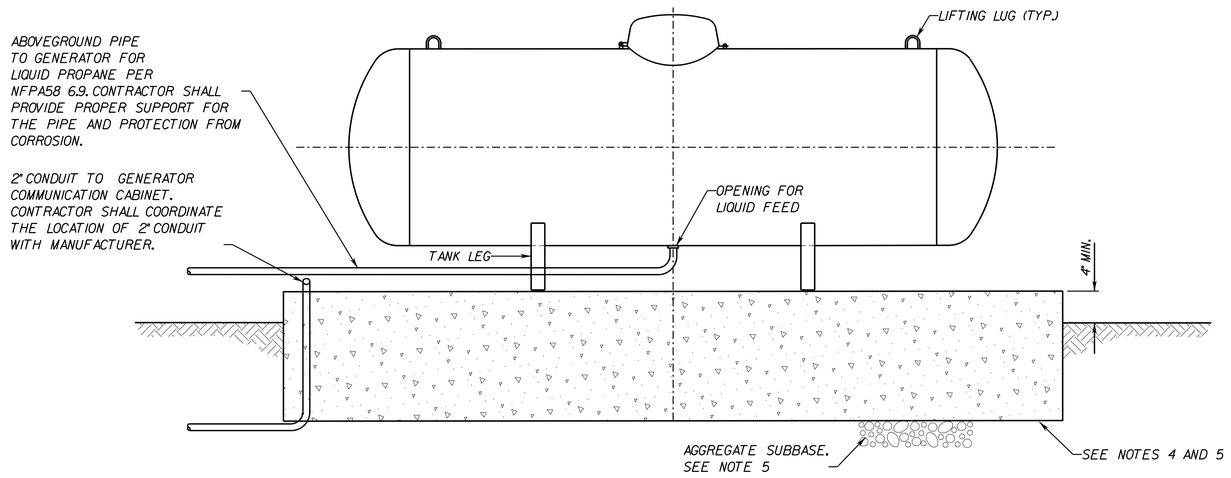
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(H8)

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

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)



PLAN VIEW
NTS



SIDE VIEW
NTS

PROPANE TANK DETAIL

NOTES:

1. CONSTRUCT TANK SLAB SO TANK BOTTOM IS HIGHER THAN GENERATOR FUEL INTAKE.
2. TANK SHALL BE ASME AMERICAN WELDING AND TANK,LLC OR APPROVED EQUAL CONTAINER. IT SHALL BE IN COMPLIANCE WITH NFPA58 6.6.3 AND NFPA 5.2.4 AND 5.2.5 AND SPECIAL PROVISIONS SECTION 807.
3. CONTAINER SHALL BE MARKED WITH HAZARD IDENTIFICATION SIGNS AS PROVIDED IN THE REGULATIONS,RULES,OR CODE UNDER WHICH THEY ARE FABRICATED AND IN ACCORDANCE WITH NFPA58 5.2.8 AND NFPA704.
4. TANK SHALL BE INSTALLED LEVEL,WITH ALL LEGS IN SAME PLANE TO ASSURE EVEN DISTRIBUTION OF LOADS AND OPTIMIZE ACCURACY OF GAUGE DEVICE.
5. CONCRETE PAD AND SUBBASE SHALL BE DESIGNED BY CONTRACTOR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. TANK,APPURTENANCES AND INSTALLATION SHALL COMPLY WITH NFPA58.
7. TANK SHALL BE PAINTED IN ACCORDANCE WITH NFPA58 6.6.1.4.
8. THREADS OF ALL FITTINGS TO BE COATED WITH COMPOUND SUITABLE FOR USE WITH LP GAS.
9. THE DOME HASP AND HINGE SHALL BE GALVANIZED OR GALVALUME TO ELIMINATE THE RUST AT CONNECTIONS AND SHALL NOT BE WELDED TO THE TANK.
10. DEVICE MEASURING THE AMOUNT OF LIQUID PROPANE AND TRANSMITTER SHALL BE PLACED UNDER THE DOME.
11. PROPANE TANK SHALL HAVE DATA PLATE IN ACCORDANCE WITH NFPA58 5.2.8.2.3.

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC(H8)

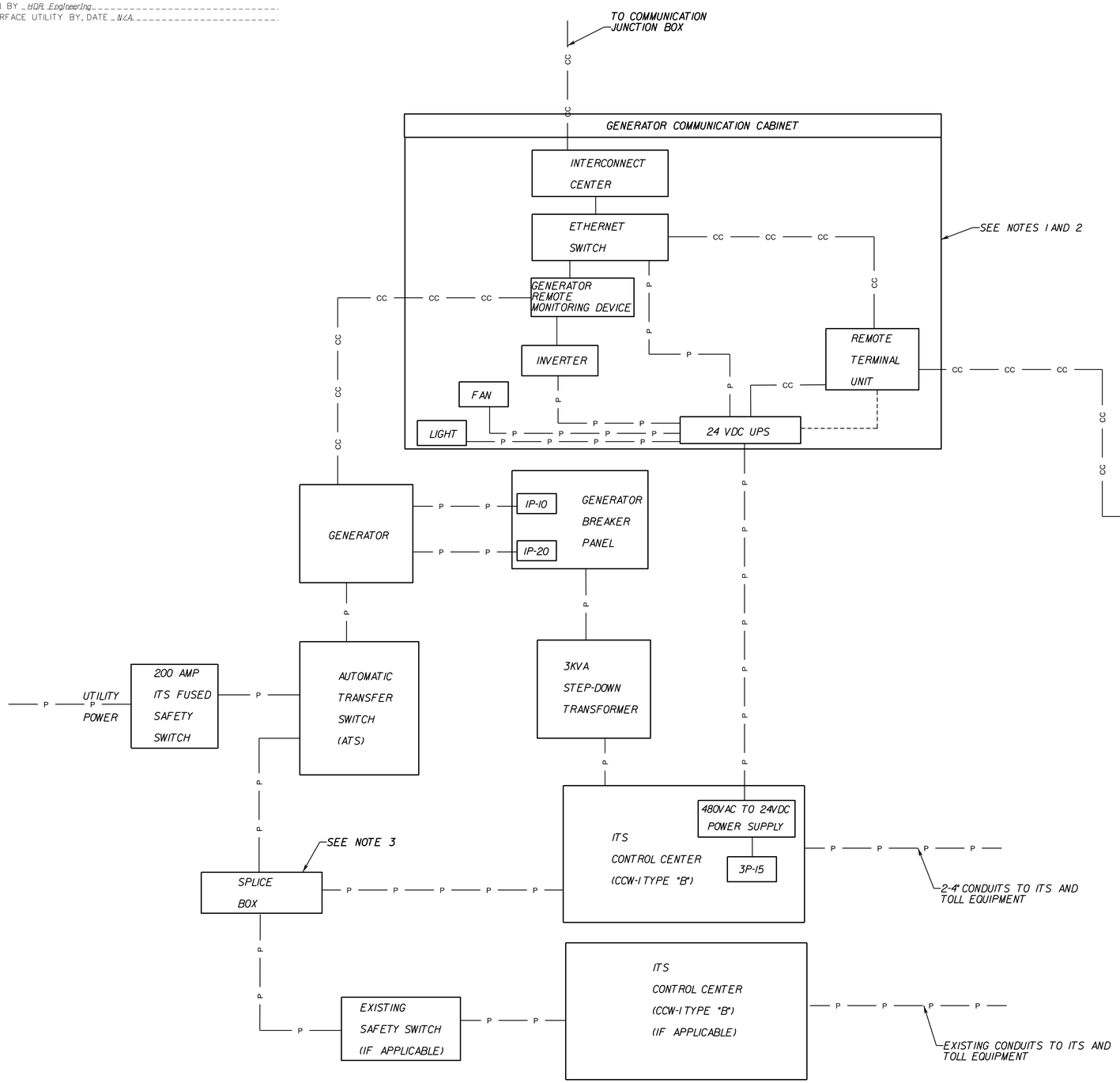
LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A._____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(H9)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)



GENERATOR CONNECTION DIAGRAM
NTS

NOTES:

1. NO 120V OUTLET SHALL BE INSTALLED IN COMMUNICATION CABINET.
2. CABINET AND SOME EQUIPMENT MAY BE EXISTING IN SOME LOCATIONS.
3. SPLICE BOX SHALL BE INSTALLED WHEN TWO ITS CONTROL CENTERS ARE CONNECTED TO A GENERATOR.

GENERATOR BREAKERS

3P-15	GENERATOR COMMUNICATION CABINET EQUIPMENT
IP-10	120V BATTERY CHARGER
IP-20	120V COOLANT HEATER

RFP
CONCEPTUAL
PLANS
REVISION NO.4
DATE: 04/06/2021

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

	PROJECT	SHEET NO.
	0495-029-419	CC(H9)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _____
SURVEYED BY, DATE _____
DESIGN BY _HDR Engineering_____
SUBSURFACE UTILITY BY, DATE _N/A_____

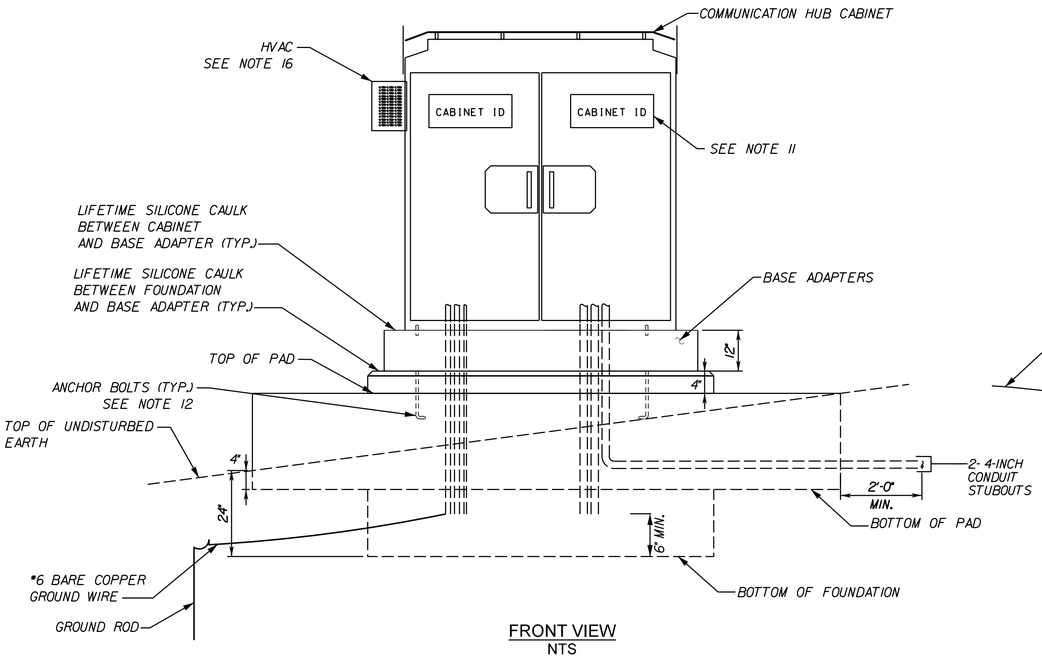
REVISIONS		
No.	Description	Date
2	Revised Plan Note	12/18/2020
5	Revised Communication HUB Cabinet Detail	04/30/2021

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

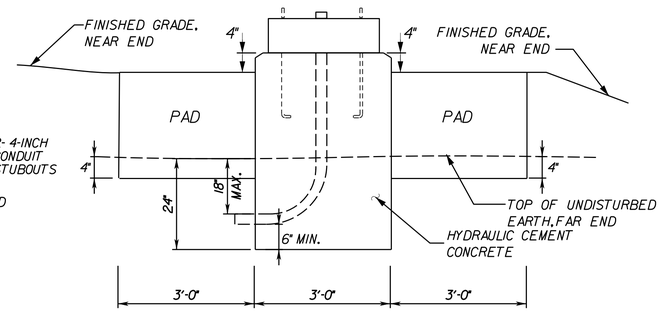
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	CC(HIO)

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

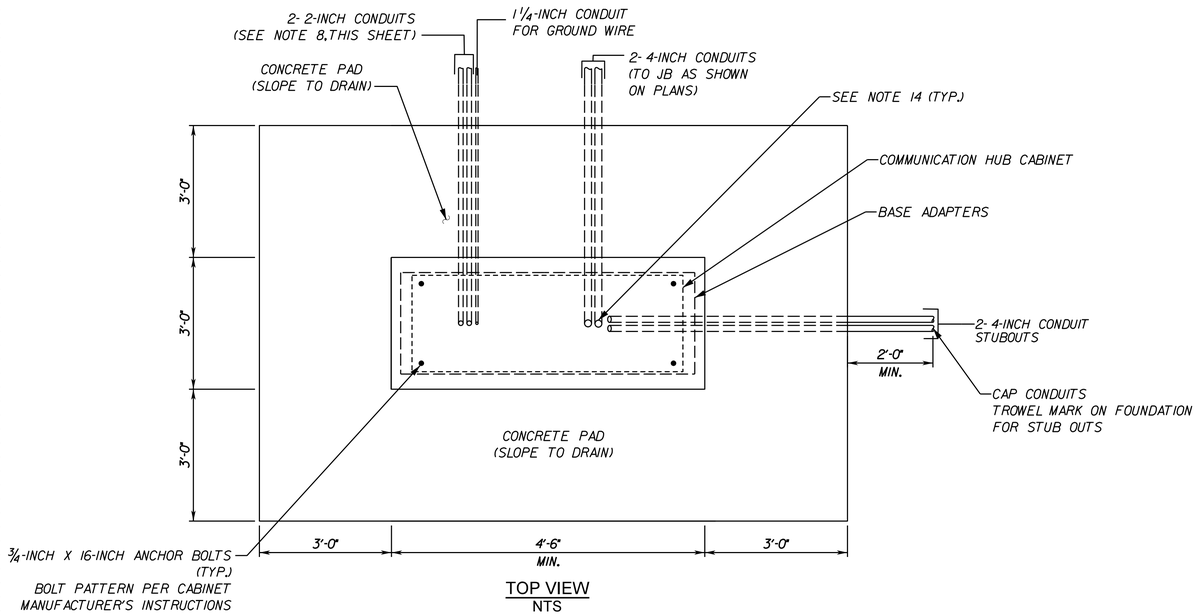
5



FRONT VIEW
NTS



END VIEW LOOKING DOWNHILL
NTS



TOP VIEW
NTS

TYPICAL COMMUNICATION HUB CABINET DETAIL
NTS

NOTES:

1. ALL EXPOSED CONCRETE SURFACE EDGES SHALL BE CHAMFERED ¾ INCHES.
2. ANCHOR BOLTS AND BOLT TEMPLATE SHALL BE FURNISHED WITH THE CABINET.
3. THE CABINETS AND BASE ADAPTERS SHALL BE SEALED WITH A SILICONE CAULK WHERE THEY MATE WITH EACH OTHER OR CONCRETE.
4. BELL ENDS SHALL BE INSTALLED ON THE END OF PVC CONDUITS. GROUNDING BUSHINGS SHALL BE INSTALLED ON THE END OF METAL CONDUITS.
5. PLUG EMPTY CONDUITS TO PREVENT MOISTURE AND RODENT ENTRY.
6. TWO ½ INCH DIAMETER WEEPHOLES SHALL BE PROVIDED IN THE FOUNDATION AND LOCATED 2 INCHES INSIDE OF THE BACK OR SIDE EDGES OF THE BASE ADAPTER. WEEPHOLES SHALL BE SLOPED TO ALLOW THE OUTLET TO EXIT 3 INCHES BELOW THE TOP OF FOUNDATION. TWO INCHES OF THE OUTLET SHALL BE FIBER FILLED.
7. THE FOUNDATION SHALL BE INSTALLED WITH THE DIRECTION OF THE SLOPE SO THAT BOTH THE CONCRETE PADS CAN BE ACCESSED FROM THE UPHILL SIDE.
8. TWO 2" CONDUITS UNLESS MORE ARE SHOWN ON THE PLANS.
9. DESIGN BUILDER SHALL SUBMIT SHOP DRAWINGS FOR CABINET AND CABINET COMPONENT INSTALLATION, INCLUDING BUT NOT LIMITED TO CABINET, LAYER 3 SWITCH, FIBER INTERCONNECT CENTER, POWER MODULE, UPS, HVAC, AND CABINET LAYOUT.
10. DESIGN BUILDER SHALL STUB OUT CONDUITS A MINIMUM OF 24 INCHES FROM THE EDGE OF THE FOUNDATION OR PAD. DIRECTION OF STUB OUTS SHALL BE DETERMINED IN THE FIELD. STUB OUTS SHALL BE IN DIRECTION THAT ALLOWS FOR FUTURE ACCESS BASED ON CURRENT SITE CONDITIONS. PROVIDE 2 ½" TROWEL MARKS IN FOUNDATION/PAD INDICATING DIRECTION OF STUB OUTS.
11. COMMUNICATION HUB CABINET SHALL BE DOUBLE DOOR 332D TYPE CABINET.
12. DESIGN BUILDER MAY USE AN EPOXY ANCHOR BOLT SYSTEM WHERE FIELD DRILL IS PERMITTED ON THE CONCRETE FOUNDATION. IF USED, THE EPOXY SHALL MEET THE CONSTRUCTION GRADE AS APPROVED BY THE ENGINEER.
13. DESIGN BUILDER SHALL PROVIDE FALL PROTECTION WHERE REQUIRED BY OSHA REGULATIONS. THIS MAY INCLUDE DESIGN AND CONSTRUCTION OF STAIRS, PLATFORMS, AND RAILINGS IN ORDER TO PROVIDE SAFE ACCESS TO AND NEC - COMPLIANT WORKING SPACE AT THE CABINETS LOCATED ON SLOPES.
14. TYPICAL FOR ALL CONDUIT ENTRIES TO ALL CABINETS. A) CAP SPARE CONDUIT. B) FURNISH AND INSTALL COPPER WOOL AND DUCT SEAL AROUND CABLES TO PREVENT RODENT ENTRY AT ALL CONDUIT ENTERING THE CABINET.
15. ALL EXPRESS LANES CABINET SHALL BE EQUIPPED WITH LOCKS APPROVED BY CONCESSIONAIRE.
16. PROVIDE HVAC CONDENSATION DRAIN LINE AS REQUIRED BY MANUFACTURER.
17. SEE PLANS FOR CABINET IDs. ALL CABINETS ON FOUNDATION SHALL HAVE THE SAME ID.
18. SEE SHEET CC(F1) FOR ADDITIONAL NOTES.

RFP
CONCEPTUAL
PLANS
REVISION NO.5
DATE: 04/30/2021

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	CC(HIO)

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

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	SPI

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

TRANSURBAN PROJECT NEXT
495 EXPRESS LANES NORTHERN EXTENSION
FROM DTR EB APPROACH TO 495 MARYLAND
PROJECT: 0495-029-419, R-201, C-501
RFP CONCEPTUAL PLANS -SIGNING/PAVEMENT MARKING/ LIGHTING PLANS
ROLL LAYOUT AND INDEX OF SHEETS



INDEX OF SIGNING AND PAVEMENT MARKING SHEETS

Sheet No.:	Sheet Description:
SPI	SHEET LAYOUT AND INDEX OF SHEETS
SP2A	GENERAL NOTES
SP(A1)	SIGN SCHEDULE
SP(A2)	SIGN SCHEDULE
SP(A3)	SIGN SCHEDULE
SP(A4)	SIGN SCHEDULE
SP(A5)	SIGN SCHEDULE
SP(A6)	SIGN SCHEDULE
SP(B1)	OVERHEAD SIGN STRUCTURE ELEVATION TYPICALS
SP(B2)	PAVEMENT MARKING TYPICALS
SCROLL 1 OF 8	SIGNING/PAVEMENT MARKING/LIGHTING ROLL PLOTS 1 OF 8
SCROLL 2 OF 8	SIGNING/PAVEMENT MARKING/LIGHTING ROLL PLOTS 2 OF 8
SCROLL 3 OF 8	SIGNING/PAVEMENT MARKING/LIGHTING ROLL PLOTS 3 OF 8
SCROLL 4 OF 8	SIGNING/PAVEMENT MARKING/LIGHTING ROLL PLOTS 4 OF 8
SCROLL 5 OF 8	SIGNING/PAVEMENT MARKING/LIGHTING ROLL PLOTS 5 OF 8
SCROLL 6 OF 8	SIGNING/PAVEMENT MARKING/LIGHTING ROLL PLOTS 6 OF 8
SCROLL 7 OF 8	SIGNING/PAVEMENT MARKING/LIGHTING ROLL PLOTS 7 OF 8
SCROLL 8 OF 8	SIGNING/PAVEMENT MARKING/LIGHTING ROLL PLOTS 8 OF 8

RFP CONCEPTUAL PLANS
REVISION No. 4

DATE: 04/06/2021

FOR INFORMATION ONLY.

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

SCALE 0 50' 100'	PROJECT	SHEET NO.
	0495-029-419	SPI

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

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	SP2A

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

SIGNING & PAVEMENT MARKING PLAN GENERAL NOTES

SIGNING AND PAVEMENT MARKING GENERAL NOTES

1.

2. THE REMOVAL OR MODIFICATION OF EXISTING SIGN PANELS, STRUCTURES, OR FOUNDATIONS SHALL CONFORM TO SECTION 510 OF THE ROAD AND BRIDGE SPECIFICATIONS.

3. NEW MATERIAL AND ITEMS REQUIRED TO COMPLETE THE REMOVAL OR MODIFICATION OF EXISTING ITEMS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL IN ACCORDANCE WITH SECTION 105 OF THE ROAD AND BRIDGE SPECIFICATIONS.

4. ALL EXISTING SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. ALL PROPOSED SIGN LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

5. PROPOSED FOUNDATIONS SHALL BE BUILT IN ACCORDANCE WITH SECTION 700 OF THE ROAD AND BRIDGE SPECIFICATIONS AND WITH THE PLANS.

6. ALL STRIPING, WHERE MATCHING TO EXISTING, SHALL BE DONE IN ACCORDANCE WITH VDOT ROAD AND BRIDGE STANDARDS.

7. RAISED PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO THE VDOT ROAD AND BRIDGE STANDARDS.

8. EXISTING PAVEMENT MARKINGS AND/OR MARKERS THAT CONFLICT WITH THE PROPOSED MARKINGS AND/OR MARKERS SHALL BE ERADICATED BY APPROVED METHOD, ACCORDING TO VDOT ROAD AND BRIDGE SPECIFICATIONS 512.03.

9. FOR LANE AND SHOULDER WIDTHS, SEE ROADWAY PLANS AND TYPICAL SECTIONS.

10. PROPOSED PAVEMENT MARKINGS SHALL BE IN ACCORDANCE TO VDOT ROAD AND BRIDGE STANDARDS.

11. PRIOR TO FOUNDATION DESIGN, THE CONTRACTOR SHALL COORDINATE WITH ALL SUB-CONTRACTORS IN PROXIMITY OF THE SIGN STRUCTURE WHERE APPLICABLE.

12. CONTRACTOR SHALL REFER TO THE VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE STANDARDS AS AMENDED FOR ALL APPLICABLE DETAILS AND INSTALLATIONS.

13. GROUND MOUNTED REGULATORY, WARNING, AND TRAIL BLAZER SIGNS THAT ARE NEEDED BUT NOT SHOWN ON THE PLANS ARE TO BE DESIGNED BY THE DESIGN/BUILD TEAM, APPROVED BY THE CONCESSIONAIRE AND VDOT, AND CONSTRUCTED BY THE DESIGN/BUILD TEAM.

14. CLEARVIEW LETTERING 5-W SHOULD BE USED FOR THE MIXED-CASE PORTION OF ALL GUIDE AND DESTINATION SIGNS AND IN ACCORDANCE WITH VDOT IIM-TE-337.

15. DYNAMIC MESSAGE SIGNS:
FOUR-LINE USED ON THE MAINLINE 21'-6" WIDE x 9'-10" HIGH
THREE-LINE USED ON THE MAINLINE 21'-6" WIDE x 8'-0" HIGH
THREE-LINE ARTERIALS 14'-6" WIDE x 5'-6" HIGH
CONTRACTOR SHALL CONFIRM SIGN DIMENSIONS AND WEIGHT WITH MANUFACTURER PRIOR TO OVERHEAD STRUCTURE DESIGN.
REFER TO RFP PART 2 FOR PRODUCT INFORMATION.

16. SIGN FOUNDATIONS SHALL BE STAKED OUT USING ELECTRONIC DATA TO BE PROVIDED BY THE DESIGN/BUILD TEAM. FINAL LOCATION OF SIGN FOUNDATION SHALL BE ADJUSTED IN THE FIELD AS NEEDED TO CONFORM THE FIELD CONDITIONS AND UTILITIES AS MARKED.

17. REMOVAL OF EXISTING VDOT DMS SHALL BE DONE IN ACCORDANCE WITH THE VDOT TURNOVER PLAN AND ALL RELATED ADDENDA. DMS SHALL BE DELIVERED TO APPROPRIATE VDOT FACILITY.

18. NEW SPAN SIGN STRUCTURES AND FOUNDATIONS AT LOCATIONS SPECIFIED IN THE TECHNICAL REQUIREMENTS SHALL BE DESIGNED TO ACCOMMODATE AN ADDITIONAL STATIC LOAD OF 200 SQ. FT. AND APPROPRIATE SQ. FT. FOR DMS BOTTOM CAP FOR FUTURE USE. CANTILEVER AND BUTTERFLY STRUCTURES AND FOUNDATIONS SHALL BE DESIGNED TO ACCOMMODATE AN ADDITIONAL 50 SQ.FT.

19. THE CONTRACTOR SHALL TAKE NOTE OF SIGNS TO BE RELOCATED OR SALVAGED AS CALLED OUT IN THE PLANS. SIGNS FOR REMOVAL OR SALVAGE SHALL BE REMOVED FROM THE OVERHEAD STRUCTURE AND SUITABLY STORED AND PROTECTED PRIOR TO THE REMOVAL OF THE STRUCTURE.

20. THE CONTRACTOR SHALL TAKE NOTE OF THE SIGN STRUCTURES SCHEDULED FOR REUSE AND REPLACEMENT IN THE PLANS. THIS INFORMATION IS BASED ON A LIMITED STRUCTURAL ASSESMENT AND IS SUBJECT TO CHANGE. THE DESIGN/BUILD TEAM SHALL BE RESPONSIBLE FOR VERIFYING THE ADEQUACY OF STRUCTURES SCHEDULED FOR REUSE. ANY DEVIATIONS TO WHAT IS SHOWN IN THE PLANS SHALL BE DISCUSSED AND APPROVED BY THE CONCESSIONAIRE PRIOR TO FABRICATION OF ANY STRUCTURES.

△2

REVISIONS		
No.	Description	Date
△2	Georgetown Pike interchange signing and marking revisions, miscellaneous other signing and marking revisions.	12/18/2020

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

FOR INFORMATION ONLY.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	SP2A

PROJECT MANAGER _ Tim Steinhiber _
SURVEYED BY, DATE _ Rice Associates, 2019:06:17 _
DESIGN BY _ Mattern & Craig _
SUBSURFACE UTILITY BY, DATE _ N/A _

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	SP(A1)

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

SIGN SCHEDULE

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE W	PANEL SIZE H	STD. NO.	QUANTITY	SIGN AREA SQ. FT	REMARKS
1	EXIT 18 C	1,3	TBD	11'-6"	2'-6"	E1-5P	2	28.75	OVERLAY EXISTING OR REPLACE
2	E-ZPass ONLY / 495 EXPRESS	2,81	TBD	21'-6"	8'-0"	N/A	2	172	OVERLAY EXISTING OR REPLACE
3	EXIT ONLY	4	TBD	21'-0"	3'-0"	E11-1d	1	63	OVERLAY EXISTING OR REPLACE
4	495	5	TBD	21'-6"	4'-0"	N/A	1	86	OVERLAY EXISTING OR REPLACE
5	E-ZPass ONLY / NORTH SOUTH / 495 EXPRESS 495 EXPRESS	7	TBD	20'-0"	13'-6"	N/A	1	270	
6		8,50	TBD	4'-0"	4'-0"	W4-1	2	16	
7	RAMP 30 M.P.H.	9,10	TBD	4'-0"	5'-0"	W13-3	2	20	2
8	Scotts Crossing Road	11	TBD	20'-6"	6'-0"	N/A	1	123	OVERLAY EXISTING OR REPLACE
9		12,13,14,33,98,126	TBD	4'-0"	4'-0"	W4-1	6	16	
10	Scotts Crossing Rd ½	15	TBD	21'-0"	4'-0"	N/A	1	84	OVERLAY EXISTING
11	NORTH 495	16,37,74	TBD	3'-0" 4'-0"	1'-6" 3'-0"	M3-1 M1-1	3 3	4.50 12	SIGN 16 BARRIER/ SOUNDWALL MOUNTED
12	EXIT 44 / 193 GEORGETOWN PIKE / Langley Great Falls Va / 1 MILE / EXIT ONLY	17	TBD	9'-6" 18'-6"	2'-6" 15'-6"	E1-5P N/A	1 1	23.75 286.75	3
13	SPEED LIMIT 55	26,46,68	TBD	4'-0"	5'-0"	R2-1	3	20	SIGN 46 BARRIER/ SOUNDWALL MOUNTED
14	George Washington Pkwy 2 Clara Barton Pkwy 3 River Road 4	19	TBD	29'-6"	8'-0"	N/A	1	236	3

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE W	PANEL SIZE H	STD. NO.	QUANTITY	SIGN AREA SQ. FT	REMARKS
15	EXIT 44 / 193 GEORGETOWN PIKE / Langley Great Falls Va / EXIT ONLY	20	TBD	9'-6" 19'-0"	2'-6" 13'-6"	E1-5P N/A	1 1	23.75 256.50	
16	LEFT EXIT 45B / 267 TO 66 EAST / Washington 1¼ MILE / TOLL ALL LANES 5:30-9:30 AM MON-FRI E-ZPass REQUIRED	21	TBD	13'-0" 18'-6" 18'-6"	4'-6" 10'-6" 7'-0"	E1-5bP N/A N/A	1 1 1	58.50 194.25 129.50	
17	EXIT 45 A / 267 WEST TOLL / Reston Herndon Dulles Airport / NO TOLL / 1 MILE	22	TBD	11'-6" 21'-0"	2'-6" 19'-0"	E1-5P N/A	1 1	28.75 399	
18	EXPRESS LANES SPEED LIMIT 65	23,39,179	TBD	4'-0" 4'-0"	2'-6" 5'-0"	N/A R2-1	3 3	10 20	
19	EXPRESS EXITS / 267 WEST ¾ / Scotts Crossing Rd LEFT 1 ½ / Westpark Dr LEFT 2 ¼	24	TBD	27'-0"	12'-0"	N/A	1	324	
20	Dulles Airport Exit 1 ¼ / 267 To 66 EAST LEFT 1 ½ / Chain Bridge Rd 2	25	TBD	26'-6"	9'-0"	N/A	1	238.50	
21	SOUTH 495	27	TBD	3'-0" 4'-0"	1'-6" 3'-0"	M3-1 M1-1	1 1	4.50 12	BARRIER/SOUNDWALL MOUNTED 3
22	EXIT 50 M.P.H.	28	TBD	4'-0"	5'-0"	N/A	1	20	
23	LEFT / EXPRESS EXIT / George Washington Memorial Parkway / Washington / NO TRUCKS ¾ MILE / EXIT ONLY	29	TBD	6'-0" 23'-6"	2'-6" 21'-0"	E1-5aP N/A	1 1	15 493.50	2

RFP CONCEPTUAL PLANS REVISION No. 4

DATE: 04/06/2021

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

TBD: TO BE DETERMINED BY THE DESIGN/BUILD TEAM.

NOTE: ALL PANEL LAYOUTS, DIMENSIONS, FONT, SUPPORTS, AND DESIGN ARE APPROXIMATE AND SHOWN FOR REFERENCE PURPOSES ONLY. FINAL DESIGN, APPROVALS, AND PERMITTING TO BE PERFORMED BY THE DESIGN/BUILD TEAM. GROUND MOUNTED REGULATORY, WARNING, AND TRAIL BLAZER SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN/BUILD TEAM RESPONSIBLE FOR FINAL DESIGN.

- SIGN PANEL OVERLAYS AND/OR REPLACEMENTS SHALL UTILIZE THE APPROPRIATE SHEETING IN ACCORDANCE WITH IIM-TE-380J

REVISIONS

No.	Description	Date
2	Georgetown Pike interchange signing and marking revisions, miscellaneous other signing and marking revisions.	12/18/2020
3	Revised sign locations to address potential conflicts.	3/9/2021

FOR INFORMATION ONLY.

SCALE 0 50' 100' | PROJECT 0495-029-419 | SHEET NO. SP(A1)

PROJECT MANAGER _ Tim Steinhiber _
SURVEYED BY, DATE _ Rice Associates, 2019:06:17 _
DESIGN BY _ Mattern & Craig _
SUBSURFACE UTILITY BY, DATE _ N/A _

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	SP(A2)

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

SIGN SCHEDULE

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE W	PANEL SIZE H	STD. NO.	QUANTITY	SIGN AREA SQ. FT	REMARKS
24	EXIT 43 / George Washington Memorial Parkway / Washington / NO TRUCKS / 1 MILE	30	TBD	9'-6" 23'-6"	2'-6" 14'-0"	E1-5P N/A	1 1	23.75 329	
25	EXIT 44 / 193 GEORGETOWN PIKE / Langley Great Falls Va / EXIT ↗ ONLY	31	TBD	9'-6" 19'-0"	2'-6" 14'-0"	E1-5P N/A	1 1	23.75 266	
26	EXIT 44 ↗	32,42	TBD	6'-0"	5'-0"	E5-1a	2	30	SIGN 42 BARRIER MOUNTED
27	↑	34,35,70,201	TBD	4'-0"	4'-0"	W4-3	4	16	
28	EXPRESS LANE ENDS 1/2 MILE	36	TBD	4'-0"	5'-6"	N/A	1	22	BARRIER MOUNTED
29	EXIT 43 / George Washington Memorial Parkway / Washington / NO TRUCKS / EXIT ↓ ONLY	38,73,77	TBD	9'-6" 23'-6"	2'-6" 15'-0"	E1-5P N/A	3 3	23.75 352.50	
30	LEFT / 193 Georgetown Pike / Langley Great Falls VA ↖	40	TBD	6'-0" 19'-0"	2'-6" 12'-6"	E1-5aP N/A	1 1	15 237.50	2
31	NOT USED								
32	193 / SOUTH / 495	43	TBD	19'-0"	10'-6"	N/A	1	199.50	3
33	LEFT / EXPRESS EXIT / George Washington Memorial Parkway / Washington / NO TRUCKS / EXIT ↓ ONLY	44	TBD	6'-0" 23'-6"	2'-6" 19'-0"	E1-5aP N/A	1 1	15 446.50	2

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE W	PANEL SIZE H	STD. NO.	QUANTITY	SIGN AREA SQ. FT	REMARKS
34	EXIT 44 / 193 Georgetown Pike / Langley ↗ Great Falls VA	45	TBD	9'-6" 19'-0"	2'-6" 10'-6"	E1-5P N/A	1 1	23.75 199.50	
35	LEFT / EXPRESS EXIT / George Washington Memorial Parkway / Washington / NO TRUCKS / EXIT ↖ ONLY	47	TBD	6'-0" 23'-6"	2'-6" 19'-0"	E1-5aP N/A	1 1	15 446.50	2
36	↑	55,112,140,155	TBD	4'-0"	4'-0"	W4-2	4	16	2
37	Clara Barton Pkwy 1 / 190 River Road 2 / 270 LEFT EXIT 4	49	TBD	23'-6"	8'-0"	N/A	1	188	
38	EXPRESS EXIT ↖	51	TBD	5'-0"	6'-0"	N/A	1	30	
39	EXIT 43 / George Washington Memorial Parkway / Washington / NO TRUCKS / EXIT ↗ ONLY	53	TBD	9'-6" 23'-6"	2'-6" 15'-0"	E1-5P N/A	1 1	23.75 352.50	
40	E-ZPass ONLY / EXPRESS LANES ENTRANCE / ONLY ↓ ↓	54	TBD	2'-0" 16'-0"	2'-0" 14'-6"	N/A N/A	2 1	4 232	INCLUDES AMBER FLASHERS
41	EXPRESS LANE ENDS	56	TBD	7'-6"	5'-6"	N/A	1	41.25	
42	RAMP 40 MAX	57	TBD	4'-0"	5'-0"	W13-3	1	20	
43	EXIT 43 ↗	58,69	TBD	6'-0"	5'-0"	E5-1a	2	30	
44	◗	59,60,61,62,63, 191,192	TBD	2'-0"	2'-6"	W1-8R	7	5	
45	EXIT 25 MAX	64	TBD	4'-0"	5'-0"	W13-2	1	20	

RFP CONCEPTUAL PLANS
REVISION No. 4

DATE: 04/06/2021

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

TBD: TO BE DETERMINED BY THE DESIGN/BUILD TEAM.

NOTE: ALL PANEL LAYOUTS, DIMENSIONS, FONT, SUPPORTS, AND DESIGN ARE APPROXIMATE AND SHOWN FOR REFERENCE PURPOSES ONLY. FINAL DESIGN, APPROVALS, AND PERMITTING TO BE PERFORMED BY THE DESIGN/BUILD TEAM. GROUND MOUNTED REGULATORY, WARNING, AND TRAIL BLAZER SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN/BUILD TEAM RESPONSIBLE FOR FINAL DESIGN.

- SIGN PANEL OVERLAYS AND/OR REPLACEMENTS SHALL UTILIZE THE APPROPRIATE SHEETING IN ACCORDANCE WITH IIM-TE-380J

REVISIONS

No.	Description	Date
2	Georgetown Pike interchange signing and marking revisions, miscellaneous other signing and marking revisions.	12/18/2020
3	Revised sign locations to address potential conflicts.	3/9/2021

FOR INFORMATION ONLY.

SCALE 0 50' 100'

PROJECT	SHEET NO.
0495-029-419	SP(A2)

PROJECT MANAGER _ Tim Steinhiber _____
SURVEYED BY, DATE _ Rice Associates, 2019:06:17 _____
DESIGN BY _ Mattern & Craig _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	SP(A3)

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

SIGN SCHEDULE

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE W	PANEL SIZE H	STD. NO.	QUANTITY	SIGN AREA SQ. FT	REMARKS
47	193 / 495 SOUTH Richmond ↓	66	TBD	16'-6"	9'-0"	N/A	1	148.50	
48	LEFT EZPass ONLY EXPRESS LANES ENTRANCE	67	TBD	6'-0" 16'-0"	2'-6" 12'-6"	E1-5aP N/A	1 1	15 200	
49	LEFT EXPRESS LANES EZPass ONLY EXPRESS DMS Price	71	TBD	6'-0" 21'-6"	2'-6" 14'-0"	E1-5aP N/A	1 1	15 301	
50	EXIT 44 193 Georgetown Pike Langley Great Falls VA 3/4 MILE	72	TBD	9'-6" 19'-0"	2'-6" 12'-6"	E1-5P N/A	1 1	23.75 237.50	
52	EXIT 41 Clara Barton Pkwy Carderock Glen Echo NO TRUCKS EXIT ↓ ONLY	75	TBD	9'-6" 22'-6"	2'-6" 15'-0"	E1-5P N/A	1 1	23.75 337.50	
53	LEFT EZPass ONLY EXPRESS LANES ENTRANCE 1/2 MILE NO ACCESS TO EXITS 43 AND 44	76	TBD	6'-0" 16'-0"	2'-6" 18'-6"	E1-5aP N/A	1 1	15 296	
55	495	78,79,80	TBD	14'-0"	4'-0"	N/A	3	56	OVERLAY EXISTING
56	G. Wash. Pkwy LEFT 3 1/2	82	TBD	24'-0"	2'-0"	N/A	1	48	OVERLAY OR REPLACE
57	Scotts Crossing Rd LEFT 3/4	83	TBD	24'-0"	2'-0"	N/A	1	48	OVERLAY OR REPLACE
58	Scotts Crossing Road 1/4 MILE	84	TBD	18'-0"	8'-0"	N/A	1	144	OVERLAY EXISTING OR REPLACE
59	Scotts Crossing Road	85	TBD	20'-6"	6'-0"	N/A	1	123	OVERLAY EXISTING OR REPLACE
60	30 M.P.H.	86, 216	TBD	3'-0" 2'-6"	3'-0" 2'-6"	W1-1R W13-1P	2 2	9 6.25	1
61	EXIT 30 M.P.H.	87, 215	TBD	4'-0"	5'-0"	W13-2	2	20	1

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE W	PANEL SIZE H	STD. NO.	QUANTITY	SIGN AREA SQ. FT	REMARKS
62	LEFT EZPass ONLY 495 NORTH EXPRESS LANES ENTRANCE	88	TBD	6'-0" 16'-0"	2'-6" 18'-0"	E1-5aP N/A	1 1	15 288	
63	EXIT 18 495 NORTH Baltimore 1/4 MILE	89	TBD	9'-6" 13'-6"	2'-6" 9'-6"	E1-5P N/A	1 1	23.75 128.25	
64	EXIT 19 A SOUTH 123 TO SOUTH 495 Tysons Corner ↗	90	TBD	11'-6" 27'-6"	2'-6" 12'-6"	E1-5P N/A	1 1	28.75 343.75	
65	LEFT EZPass ONLY 495 NORTH EXPRESS LANES ENTRANCE 1/4 MILE	91	TBD	6'-0" 16'-0"	2'-6" 17'-0"	E1-5aP N/A	1 1	15 272	
66	EXIT 19 A SOUTH 123 TO SOUTH 495 Tysons Corner 1/4 MILE	92	TBD	11-6" 20'-6"	2'-6" 11'-0"	E1-5P N/A	1 1	28.75 225.50	
67	EXIT 19 B 123 NORTH McLean ↗	93	TBD	11-6" 19'-6"	2'-6" 9'-6"	E1-5P N/A	1 1	28.75 185.25	
68	Dulles Airport AIRPORT TRAFFIC ONLY NO TOLL 267 WEST TOLL TO 495 495 NORTH EZPass NO TOLL To All Local Exits	94	TBD	42'-0"	18'-6"	N/A	1	777	

REVISIONS		
No.	Description	Date
1	Added span trusses for new and relocated DMS. Replace existing sign. Add signs.	11/13/2020

TBD: TO BE DETERMINED BY THE DESIGN/BUILD TEAM.

NOTE: ALL PANEL LAYOUTS, DIMENSIONS, FONT, SUPPORTS, AND DESIGN ARE APPROXIMATE AND SHOWN FOR REFERENCE PURPOSES ONLY. FINAL DESIGN, APPROVALS, AND PERMITTING TO BE PERFORMED BY THE DESIGN/BUILD TEAM. GROUND MOUNTED REGULATORY, WARNING, AND TRAIL BLAZER SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN/BUILD TEAM RESPONSIBLE FOR FINAL DESIGN.

- SIGN PANEL OVERLAYS AND/OR REPLACEMENTS SHALL UTILIZE THE APPROPRIATE SHEETING IN ACCORDANCE WITH IIM-TE-380.1

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021

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

FOR INFORMATION ONLY.

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	SP(A3)

PROJECT MANAGER _ Tim Steinhiber _
SURVEYED BY, DATE _ Rice Associates, 2019:06:17 _
DESIGN BY _ Mattern & Craig _
SUBSURFACE UTILITY BY, DATE _ N/A _

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	SP(A4)

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

SIGN SCHEDULE

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE W	PANEL SIZE H	STD. NO.	QUANTITY	SIGN AREA SQ. FT	REMARKS
69	E-ZPass ONLY NORTH 495 EXPRESS LANES PRICE DMS 1/2 MILE CENTER LANE	95	TBD	21'-6"	25'-6"	N/A	1	548.25	
70	EXPRESS LANES E-ZPass ONLY 2 AXLE VEHICLES OR BUSES ONLY HOV 3+ WITH E-ZPass Flex NO TOLL	96,181	TBD	7'-0"	6'-6"	N/A	2	45.50	
71	E-ZPass ONLY NORTH 495 EXPRESS LANES PRICE DMS 1 MILE	97	TBD	21'-6"	24'-0"	N/A	1	516	
73	LEFT E-ZPass ONLY SOUTH 495 EXPRESS LANES PRICE DMS 1/4 MILE	100	TBD	6'-0" 14'-6"	2'-6" 17'-0"	E1-5aP N/A	1 1	15 246.50	
74	LEFT E-ZPass ONLY SOUTH 495 EXPRESS LANES ENTRANCE ONLY 3	101	TBD	6'-0" 16'-0"	2'-6" 12'-6"	E1-5aP N/A	1 1	15 200	
75	EXPRESS LANES E-ZPass ONLY 2 AXLE VEHICLES OR BUSES ONLY HOV 3+ WITH E-ZPass Flex NO TOLL	102	TBD	7'-0"	6'-6"	N/A	1	45.50	
76	LEFT EXPRESS LANES E-ZPass ONLY EXPRESS DMS PRICE	103,109	TBD	6'-0" 21'-6"	2'-6" 14'-0"	E1-5aP N/A	2 2	15 301	
77	EXPRESS LANES E-ZPass ONLY 2 AXLE VEHICLES OR BUSES ONLY HOV 3+ WITH E-ZPass Flex NO TOLL	104,108	TBD	17'-6"	16'-6"	N/A	2	288.75	
78	LEFT E-ZPass ONLY EXPRESS LANES ENTRANCE 1 MILE NO ACCESS TO EXITS 43 AND 44	105	TBD	6'-0" 16'-0"	2'-6" 18'-6"	E1-5aP N/A	1 1	15 296	
79	EXIT 43 George Washington Memorial Parkway Washington NO TRUCKS 3/4 MILE	106	TBD	9'-6" 23'-6"	2'-6" 14'-0"	E1-5P N/A	1 1	23.75 329	
80	EXIT 41 Carderock Great Falls Md NO TRUCKS	107	TBD	9'-6" 29'-0"	2'-6" 10'-0"	E1-5P N/A	1 1	23.75 290	
81	LEFT E-ZPass ONLY EXPRESS LANES ENTRANCE 2 MILES NO ACCESS TO EXITS 43 AND 44	110	TBD	6'-0" 16'-0"	2'-6" 18'-6"	E1-5aP N/A	1 1	15 296	
82	EXPRESS ONLY North EXPRESS South EXPRESS	111	TBD	8'-0"	5'-6"	N/A	1	44	
83		113,188	TBD	4'-0"	4'-0"	W4-2	2	16	SIGN 113 BARRIER/ SOUNDWALL MOUNTED
85	STOP	120,193,194,195, 196,197	TBD	2'-6"	2'-6"	R1-1	1	6.25	3
86	ONE WAY	121,143,154,161, 174	TBD	4'-6"	1'-6"	R6-1	5	6.75	
87		122,160,171,176	TBD	3'-0"	4'-0"	R4-7	4	12	
88	NORTH 495	123	TBD	2'-0" 2'-6" 2'-0" 1'-9"	1'-0" 2'-0" 1'-6" 1'-3"	M3-1 M1-1 N/A M6-3	1 1 1 1	2 5 3 2.19	
89	SOUTH 495	124	TBD	2'-0" 2'-6" 2'-0" 1'-9"	1'-0" 2'-0" 1'-6" 1'-3"	M3-3 M1-1 N/A M6-2	1 1 1 1	2 5 3 2.19	
90		125,148	TBD	4'-0"	2'-6"	N/A	2	10	
91	WARNING THROUGH TRUCKS PROHIBITED ON GEORGETOWN PIKE	127	TBD	6'-6"	4'-0"	N/A	1	26	

REVISIONS		
No.	Description	Date
3	Revised sign locations to address potential conflicts.	3/9/2021

TBD: TO BE DETERMINED BY THE DESIGN/BUILD TEAM.

NOTE: ALL PANEL LAYOUTS, DIMENSIONS, FONT, SUPPORTS, AND DESIGN ARE APPROXIMATE AND SHOWN FOR REFERENCE PURPOSES ONLY. FINAL DESIGN, APPROVALS, AND PERMITTING TO BE PERFORMED BY THE DESIGN/BUILD TEAM. GROUND MOUNTED REGULATORY, WARNING, AND TRAIL BLAZER SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN/BUILD TEAM RESPONSIBLE FOR FINAL DESIGN.

- SIGN PANEL OVERLAYS AND/OR REPLACEMENTS SHALL UTILIZE THE APPROPRIATE SHEETING IN ACCORDANCE WITH IIM-TE-380J

RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021
FOR INFORMATION ONLY.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	SP(A4)

PROJECT MANAGER _ Tim Steinhiber _
SURVEYED BY, DATE _ Rice Associates, 2019:06:17 _
DESIGN BY _ Mattern & Craig _
SUBSURFACE UTILITY BY, DATE _ N/A _

SIGN SCHEDULE

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	SP(A5)

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

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE W	PANEL SIZE H	STD. NO.	QUANTITY	SIGN AREA SQ. FT	REMARKS
92	YIELD	166	TBD	4'-0"	4'-0" 4'-0"	R1-2	1	8	
93	WRONG WAY	129,137	TBD	3'-6"	2'-6"	R5-1a	2	8.75	
94	EAST 193	130	TBD	2'-0" 2'-6" 1'-9"	1'-0" 2'-0" 1'-3"	M3-2 M1-5 M6-2	1 1 1	2 5 2.19	
95	WEST 193	131	TBD	2'-0" 2'-6" 1'-9"	1'-0" 2'-0" 1'-3"	M3-4 M1-5 M6-2	1 1 1	2 5 2.19	
96	← Langley Great Falls Va ↗	132	TBD	12'-0"	5'-0"	N/A	1	60	
97	NO TURN ON RED	133	TBD	3'-0"	3'-0"	R3-2	1	9	
98	STOP HERE ON RED	134	TBD	3'-0"	4'-0"	R10-6	1	12	
99	PROHIBITED REGULATORY SIGN AS PER MUTCD	136,142	TBD	3'-0"	4'-0"	N/A	2	12	2
100	SOUTH ARLINGTON 495	138	TBD	2'-0" 2'-6" 1'-9"	1'-0" 2'-0" 1'-3"	M3-3 M1-1 M6-1	1 1 1	2 5 2.19	
101	← Richmond	139	TBD	10'-0"	3'-0"	N/A	1	30	
102	DO NOT ENTER WRONG WAY	141,152,167	TBD	3'-0" 3'-6"	3'-0" 2'-6"	R5-1 R5-1a	3 3	9 8.75	
103	ONE WAY	142,153,163	TBD	4'-6"	1'-6"	R6-1	3	6.75	
104	NO TURN	144,150	TBD	3'-0"	3'-0"	R3-1	2	9	
105	SOUTH ARLINGTON 495	145	TBD	2'-0" 2'-6" 1'-9"	1'-0" 2'-0" 1'-3"	M3-3 M1-1 M5-1	1 1 1	2 5 2.19	
106	WEST 193	146	TBD	2'-0" 2'-6" 1'-9"	1'-0" 2'-0" 1'-3"	M3-4 M1-5 M6-1	1 1 1	2 5 2.19	
107	EAST 193	147	TBD	2'-0" 2'-6" 1'-9"	1'-0" 2'-0" 1'-3"	M3-2 M1-5 M6-1	1 1 1	2 5 2.19	
108	NORTH ARLINGTON 495	149	TBD	2'-0" 2'-6" 1'-9"	1'-0" 2'-0" 1'-3"	M3-2 M1-5 M6-1	1 1 1	2 5 2.19	
109	← Rockville	151	TBD	10'-0"	3'-0"	N/A	1	30	
110	↑ Richmond Rockville ↗	156	TBD	12'-0"	5'-0"	N/A	1	60	
111	ONLY ONLY AT SIGNAL	158	TBD	5'-0"	3'-0"	N/A	1	15	
112	NO TURN	159,175	TBD	3'-0"	3'-0"	R3-4	2	9	
113		162	TBD	3'-0"	3'-0"	S1-1	1	9	
114	DO NOT BLOCK INTERSECTION	164,177	TBD	4'-0"	5'-0"	R10-7	2	20	
115	RIGHT LANE MUST EXIT THRU STOP AT SIGNAL	165	TBD	2'-6" 2'-6"	2'-6" 1'-0"	R3-7 R10-31P	1 1	6.25 2.50	
116	THROUGH TRAFFIC PROHIBITED	168,169	TBD	2'-6"	2'-6"	N/A	2	6.25	
117	WEST 193	170	TBD	2'-0" 2'-6" 1'-9"	1'-0" 2'-0" 1'-3"	M3-4 M1-5 M6-1	1 1 1	2 5 2.19	
118	[illegible] R	172	TBD	3'-0"	2'-0"	N/A	1	6	
119	[illegible]	173	TBD	4'-0"	2'-6"	N/A	1	10	
120	STATE LAW STOP FOR SCHOOL BUS WHEN RED LIGHTS FLASH CHILDREN	178	TBD	4'-0"	4'-0"	N/A	1	16	
121	SOUTH ARLINGTON 495	180,182,183	TBD	3'-6" 3'-9"	1-9" 3'-0"	M3-3 M1-1	3 3	6.13 11.25	
122	DO NOT BLOCK INTER SECTION	184,185	TBD	3'-0"	3'-0"	R5-1	2	9	
123		186	TBD	4'-0"	4'-0"	W4-6	1	16	
124	SOUTH ARLINGTON 495	187	TBD	2'-0" 2'-6" 1'-9"	1'-0" 2'-0" 1'-3"	M3-3 M1-1 M6-1	1 1 1	2 5 2.19	
125	SOUTH ARLINGTON 495	188	TBD	2'-0" 2'-6" 1'-9"	1'-0" 2'-0" 1'-3"	M3-3 M1-1 M6-1	1 1 1	2 5 2.19	
126	SOUTH ARLINGTON 495	189	TBD	2'-0" 2'-6" 1'-9"	1'-0" 2'-0" 1'-3"	M3-3 M1-1 M6-1	1 1 1	2 5 2.19	
127	EXIT 44 193 Georgetown Pike Langley Great Falls VA 1 MILE	190	TBD	9'-6" 19'-0"	2'-6" 12'-6"	E1-5P N/A	1 1	23.75 237.50	
128	STOP AHEAD	198	TBD	2'-6"	2'-6"	W3-1	1	6.25	
129	25 MPH	199	TBD	4'-0" 2'-6"	4'-0" 2'-6"	W1-11 W13-1P	1 1	16 6.25	
130	RAMP 25 M.P.H.	200	TBD	4'-0"	5'-0"	W13-3	1	20	

REVISIONS		
No.	Description	Date
2	Georgetown Pike interchange signing and marking revisions, miscellaneous other signing and marking revisions.	12/18/2020

TBD: TO BE DETERMINED BY THE DESIGN/BUILD TEAM.

NOTE: ALL PANEL LAYOUTS, DIMENSIONS, FONT, SUPPORTS, AND DESIGN ARE APPROXIMATE AND SHOWN FOR REFERENCE PURPOSES ONLY. FINAL DESIGN, APPROVALS, AND PERMITTING TO BE PERFORMED BY THE DESIGN/BUILD TEAM. GROUND MOUNTED REGULATORY, WARNING, AND TRAIL BLAZER SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN/BUILD TEAM RESPONSIBLE FOR FINAL DESIGN.

- SIGN PANEL OVERLAYS AND/OR REPLACEMENTS SHALL UTILIZE THE APPROPRIATE SHEETING IN ACCORDANCE WITH IIM-TE-380J

RFP CONCEPTUAL PLANS REVISION No. 4

DATE: 04/06/2021

FOR INFORMATION ONLY.

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

SCALE 0 50' 100' | PROJECT 0495-029-419 | SHEET NO. SP(A5)

PROJECT MANAGER _ Tim Steinhiber _
SURVEYED BY, DATE _ Rice Associates 2019:06:17 _
DESIGN BY _ Mattern & Craig _
SUBSURFACE UTILITY BY, DATE _ N/A _

SIGN SCHEDULE

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	SP(A6)

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

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE W	PANEL SIZE H	STD. NO.	QUANTITY	SIGN AREA SQ. FT	REMARKS
131	267 To 66 EAST Washington	201,204	TBD	20'-6"	16'-0"	N/A	2	328	
132	EXIT 18C / EXIT 18B; 495 NORTH Baltimore; E-ZPass ONLY; 495 EXPRESS; EXIT ONLY EXIT ONLY	202,205	TBD	11'-6" 34'-6"	2'-6" 16'-0"	E1-5P N/A	4 2	28.75 552	
133	EXIT 18A; 495 SOUTH Richmond; EXIT ONLY	203,206	TBD	11'-6" 23'-6"	2'-6" 16'-0"	E1-5P N/A	2 2	28.75 376	
134	EXIT 18 B-A	207	TBD	7'-6"	6'-6"	E5-1a	1	48.75	
135	EXIT 18 C	208	TBD	7'-6"	5'-0"	E5-1a	1	37.5	
136	EXIT 18 B	209	TBD	7'-6"	5'-0"	E5-1a	1	37.5	
137	EXPRESS LANES	210	TBD	4'-0" 4'-0"	2'-6" 4'-0"	N/A W3-5	1 1	10 16	BARRIER MOUNTED
138	EXPRESS LANES SPEED LIMIT 55	211	TBD	4'-0" 4'-0"	2'-6" 5'-0"	N/A R2-1	1 1	10 20	BARRIER MOUNTED
139	USE EXIT 18B	212,213	TBD	21'-6"	2'-6"	N/A	1	53.75	OVERLAY EXISIING OR REPLACE
140	VDOT DMS	214	TBD	21'-6"	8'-0"	N/A	1	172	1
141	30 MAX	217,218	TBD	3'-0" 2'-6"	3'-0" 2'-6"	W1-1L W13-1P	2 2	9 6.25	1
142	RAMP 35 MAX	219	TBD	4'-0"	5'-0"	W13-3	1	20	2

TEXT NO.	TEXT	SIGN NO.	SIGN STRUCT. STD.	PANEL SIZE W	PANEL SIZE H	STD. NO.	QUANTITY	SIGN AREA SQ. FT	REMARKS
143	HERE TO	220,221	TBD	1'-6"	1'-6"	R1-5L	2	2.25	
144		222,223	TBD	3'-0" 2'-0"	3'-0" 1'-0"	W11-2 W16-7PL	2 2	9 2	
145		224,225	TBD	3'-0" 2'-0"	3'-0" 1'-0"	W11-2 W16-7PR	2 2	9 2	4
146	AHEAD	226,227	TBD	3'-0" 2'-0"	3'-0" 1'-0"	W11-2 W16-9P	2 2	9 2	

TBD: TO BE DETERMINED BY THE DESIGN/BUILD TEAM.

NOTE: ALL PANEL LAYOUTS, DIMENSIONS, FONT, SUPPORTS, AND DESIGN ARE APPROXIMATE AND SHOWN FOR REFERENCE PURPOSES ONLY. FINAL DESIGN, APPROVALS, AND PERMITTING TO BE PERFORMED BY THE DESIGN/BUILD TEAM. GROUND MOUNTED REGULATORY, WARNING, AND TRAIL BLAZER SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN/BUILD TEAM RESPONSIBLE FOR FINAL DESIGN.

- SIGN PANEL OVERLAYS AND/OR REPLACEMENTS SHALL UTILIZE THE APPROPRIATE SHEETING IN ACCORDANCE WITH IIM-TE-380J

REVISIONS		
No.	Description	Date
1	Added span trusses for new and relocated DMS. Replace existing sign. Add signs.	11/13/2020
2	Georgetown Pike interchange signing and marking revisions, miscellaneous other signing and marking revisions.	12/18/2020
4	Added signs and pavement markings for proposed RRFB installation on Lewinsville Road.	04/06/2021

RFP CONCEPTUAL PLANS REVISION No. 4

DATE: 04/06/2021

FOR INFORMATION ONLY.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	SP(A6)

PROJECT MANAGER _ Tim Steinbiber _
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _
DESIGN BY _ Mattern & Craig _
SUBSURFACE UTILITY BY, DATE _ N/A _

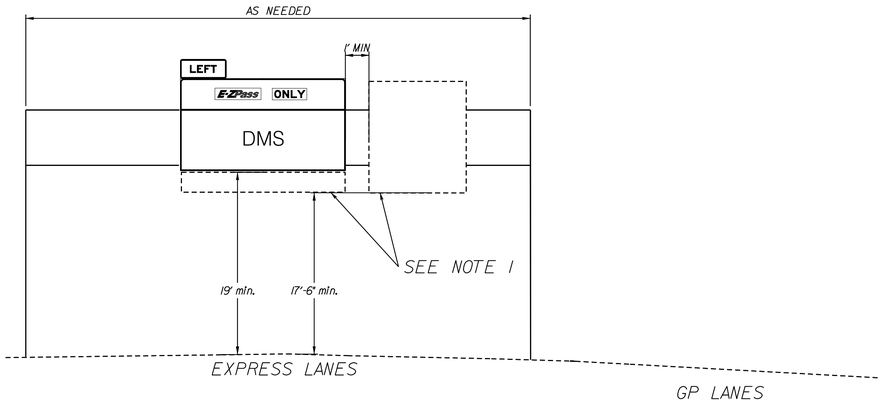
LIMITED ACCESS HIGHWAY

By Resolution of Commonwealth Transportation Board dated October 4, 1956

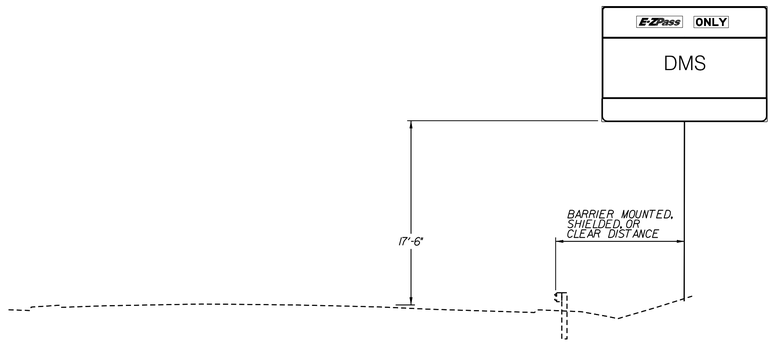
REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	SP(B1)

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

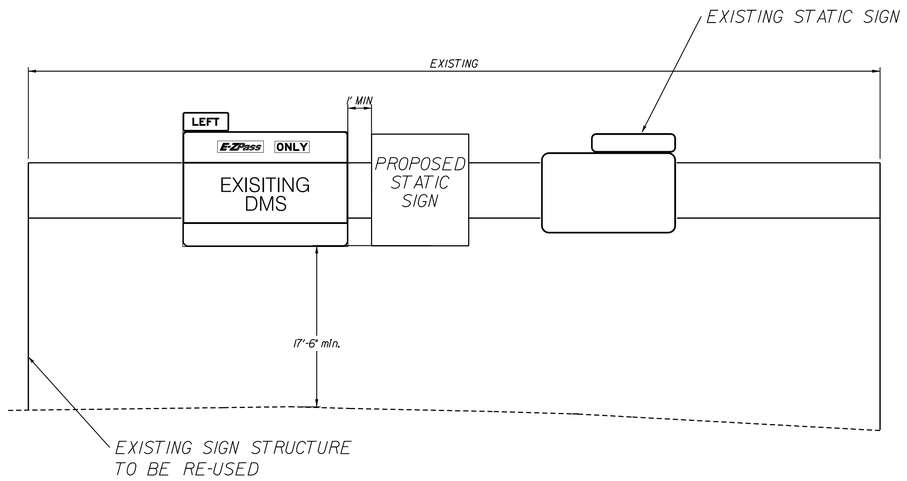
OVERHEAD SIGN STRUCTURE ELEVATION TYPICALS



TYPICAL PROPOSED SPAN TRUSS
WITH DMS



TYPICAL PROPOSED BUTTERFLY STRUCTURE
WITH DMS



TYPICAL EXISTING SPAN STRUCTURE
FOR RE-USE

GENERAL NOTES

1. SHALL BE DESIGNED AND FABRICATED TO ACCOMMODATE AN ADDITIONAL STATIC LOAD OF 200 SF AND/OR AN ADDITIONAL DMS BOTTOM CAP. CANTILEVER AND BUTTERFLY STRUCTURES AND FOUNDATIONS SHALL BE DESIGNED TO ACCOMMODATE AN ADDITIONAL 50 SF OR 25% INCREASE IN SIGN PANEL AREA. SEE NOTE 18 ON SHEET SP2A.
2. CLEARVIEW FONT SHOULD BE USED ON PROPOSED SIGNS AND OVERLAYS IN ACCORDANCE WITH VDOT-IIM-TE-337.
3. DESIGN-BUILDER SHALL SHOW A DETAILED OVERHEAD SIGN STRUCTURE ELEVATION IN THE FINAL DESIGN PLANS PRIOR TO APPROVAL AND SHALL PROVIDE REQUIRED CLEAR ZONE DISTANCE OR SHIELDING AS NECESSARY.
4. SIGN PANELS TO BE CENTERED OVER LANES WHEN MOUNTED ON OVERHEAD SPAN TYPE STRUCTURES. CLEARANCE TO BOTTOM OF SIGNS SHALL BE ADJUSTED ACCORDINGLY IF ILLUMINATION REQUIRED.

RFP CONCEPTUAL PLANS
REVISION No. 4

DATE: 04/06/2021

FOR INFORMATION ONLY.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	SP(B1)

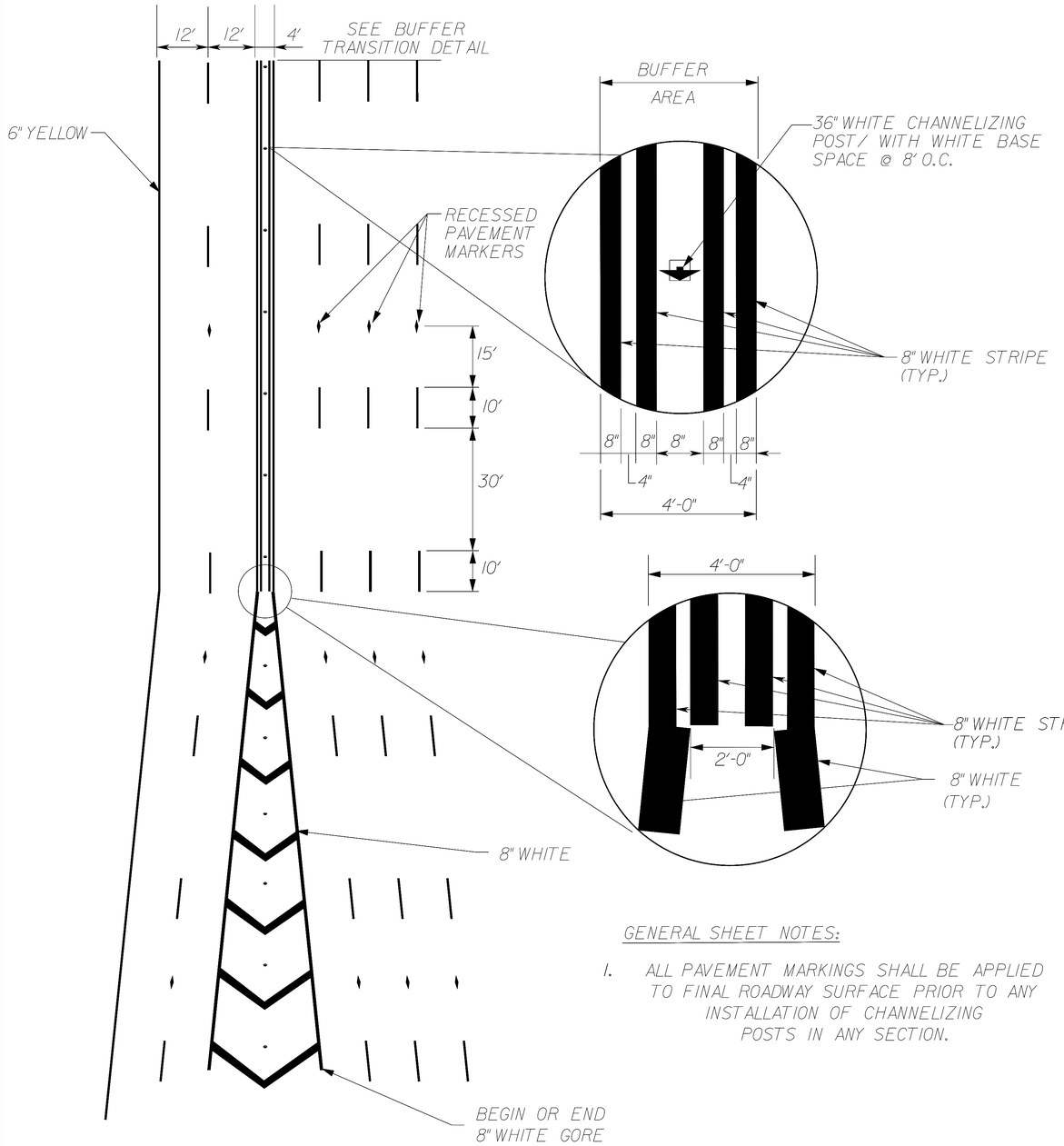
PROJECT MANAGER _ Tim Steinbiber
SURVEYED BY, DATE _ Rice Associates 2019-06-17
DESIGN BY _ Mattern & Craig
SUBSURFACE UTILITY BY, DATE _ N/A

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201,C-501	SP(B2)

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

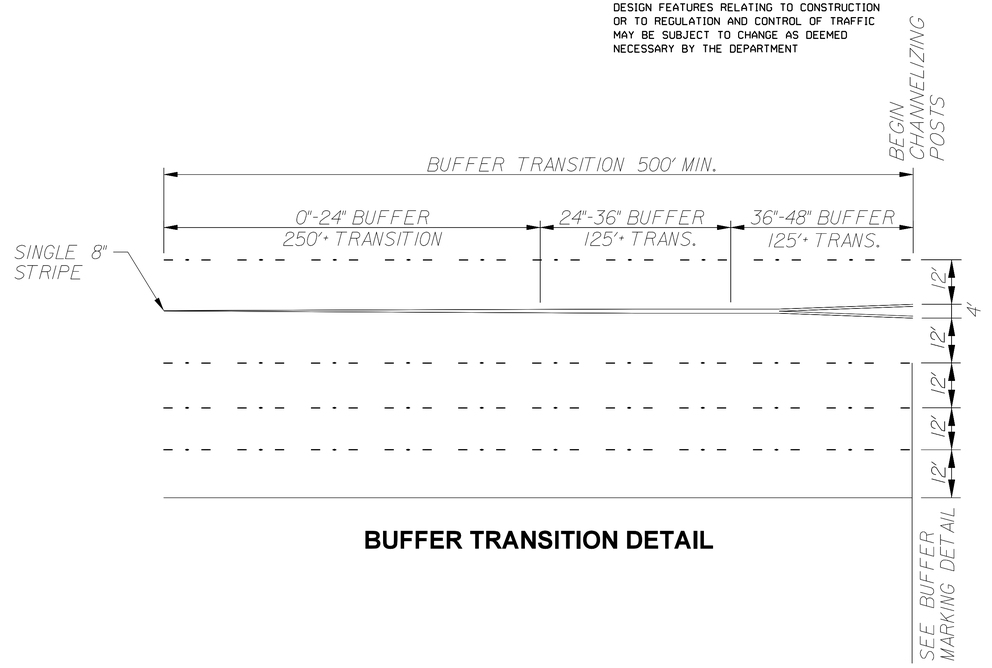
PAVEMENT MARKING TYPICALS



GENERAL SHEET NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE APPLIED TO FINAL ROADWAY SURFACE PRIOR TO ANY INSTALLATION OF CHANNELIZING POSTS IN ANY SECTION.

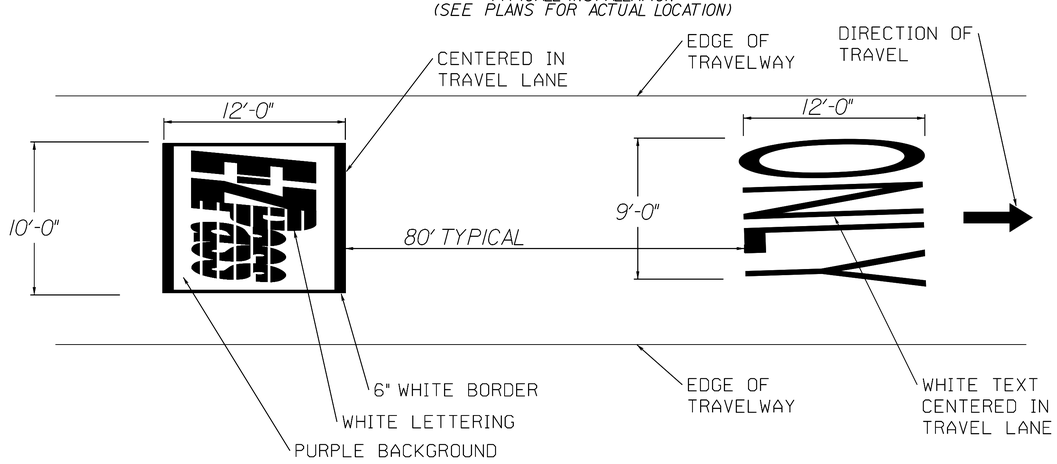
BUFFER MARKING DETAIL



BUFFER TRANSITION DETAIL

EZ PASS LOGO

TYPICALL INSTALLATION (SEE PLANS FOR ACTUAL LOCATION)



RFP CONCEPTUAL PLANS
REVISION No. 4
DATE: 04/06/2021
FOR INFORMATION ONLY.

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

SCALE	PROJECT	SHEET NO.
0 50' 100'	0495-029-419	SP(B2)

LIMITED ACCESS HIGHWAY By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC. _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A. _____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	TS(1)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

INDEX OF SHEETS

Sheet No.:	Sheet Description:
TS(1)	Index of Sheets, General Notes & Legend
TS(2)	Traffic Signal Plan - VA 193 & I-495 SB Ramp
TS(3)	Traffic Signal Plan - VA 193 & I-495 NB Ramp
TS(4)	Traffic Signal Plan - VA 193 & Balls Hill Rd
TS(5)	Rectangular Rapid Flashing Beacon Plan - VA 694 between Timberly Ln and Snow Meadow Ln

GENERAL NOTES - TRAFFIC SIGNALS

1. All unused wires in the signal heads shall be capped individually with crimp type caps.
2. Unless otherwise indicated, presence loop detectors shall be placed 5 feet in front of the stop lines. Loop detection shall be installed in accordance with Standard TD-IC.
3. The top of the PF-2 foundation for the pedestal poles shall be flush with the sidewalks and designed in accordance with the Standard.
4. Pedestrian actuated pushbuttons shall be installed in accordance with Standard PA-2; mounting height should take into consideration the handrail, Standard HR-1 proposed in the road plans and the device postitioned above it with a minimum of 2 inches clearance. Pushbuttons shall be located a maximum distance of 4 feet from the back of the curb ramp.
5. Pedestrian signal head assemblies mounted on pedestal poles shall be installed in accordance with Standard SMB-1,2 or 3. All pedestrian signal heads shall be cast aluminum; heads mounted on signal pole uprights shall be installed in accordance with Standard SMB-3.
6. Signal head assemblies shall be installed on the mast arms in accordance with Standard SM-3.
7. Trench excavation shall be performed in accordance with Standard ECI-1.
8. The electrical service shall be installed in accordance with Standard SE-3, Type A.
9. The metal riser conduit used in conjunction with the electrical service shall be a minimum of 1.25" in diameter.
10. Junction boxes shall be in accordance with Standard JB-S1, S2 & S3; concrete collars also shall be marked with all conduit entrances as directed in the R&B Standards and in accordance with the PF-8 standard for signal pole foundations and the controller cabinet foundation.
11. Mast arm mounted signs shall be installed in accordance with Standard SMD-2. Mast arm mounted street name signs shall be mounted using three (3) SMD-2 hanger assemblies for each sign panel.
12. Controller cabinet foundation shall be in accordance with Drawing CF-3.
13. Mast arm signal pole foundations shall be in accordance with Standard PF-8.

STANDARD TRAFFIC SIGNAL LEGEND

PLAN ITEM		PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Metal Signal Pole & Foundation and Mast Arm (As noted in Signal Pole Legend)			
Pedestal Pole and Foundation (St'd. PF-2)			
Pedestal Pole and Foundation (St'd. PA-3)			
Traffic Signal Head	w/ Backplate		
	w/o Backplate		
Pedestrian Signal Head			
Pedestrian Pushbutton & Sign		P.B.	P.B.
Traffic Signal Sign	Mast Arm or Span Wire Mt'd.		
	Pole Mounted		
Emergency Vehicle Pre-emption (EVP) Sensor			
	w/ Conf. Light		
	w/o Conf. Light		
Video Detection Camera			
Junction Box (St'd. as noted on plans)		J	J
Signal Luminaire (250 W) and Arm			
Signal Luminaire (400 W) and Arm			
Loop Detector (Size as noted on plans)		6' x 20'	6' x 20'
Video Detection Zone (Size as noted on plans)		VDZ 6' x 20'	VDZ 6' x 20'
Conduit			

PLAN ITEM		PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Electrical Service Meter		SM	SM
Electrical Service Safety Switch (Disconnect)		SD	SD
Controller Cabinet	Ground Mounted		
	Pole Mounted		
Master Controller Cabinet	Ground Mounted	MC	MC
	Pole Mounted	MC	MC
Controller Cabinet & Foundation	Std. CF-1	1	1
	Std. CF-3	3	3
	Std. CF-4	4	4
Master Controller Cabinet & Foundation	Std. CF-1	MC 1	MC 1
	Std. CF-3	MC 3	MC 3
	Std. CF-4	MC 4	MC 4
Uninterruptible Power Supply Cabinet		UPS	UPS

LABELS

Signal Pole or Controller	A	Proposed Signal Head	2	Signal Phasing	Ø2	Sign	S-1
Cable and Conduit	A	Existing Signal Head	2	Pedestrian Phasing	P2	Video Detection Camera	VDC-1
Junction Box	S3	Proposed Pedestrian Signal Head	P2			Emergency Preemption Detector	EVP-1
		Existing Pedestrian Signal Head	P2				

14. Traffic signal foundation depths & above ground foundation projection/reveal (if needed) shall be determined by the Contractor in accordance with PF-8 standards after the signal pole soil test bores are completed. Signal poles and foundations shall be in accordance with the Special Provisions including maximum loading conditions. The pole supplier shall provide foundation designs & shop drawings that are signed and sealed by a Professional Engineer, licensed to practice in Virginia. The top of all signal pole foundations shall be installed 4" above the highest point of the roadway pavement in which the mast arm(s) is extending over to allow for the required signal head to pavement distances per the MUTCD.
15. All proposed signal equipment shall be installed within the proposed right of way and no additional right of way is needed.
16. All Traffic Signal equipment shall be in accordance with the VDOT NRO Traffic Signal Specifications.
17. Signal head location and placement on the mast arms shall be verified in the field. Mast arms shall be field drilled.
18. All grounding electrodes and augmented grounding electrodes shall be installed in junction boxes so as to be accessible for future inspections.
19. Final signal timings, including basic minimum and maximum green times, Yellow/ All Red times, coordinated timing plans, etc. shall be provided to the VDOT NRO Signal Timings Engineer. These plans should be submitted a minimum of four (4) weeks prior to implementation.
20. All signal heads shall have High Visibility Signal Backplates (HVSBs).
21. All existing signal equipment is to be removed.

RFP CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

	PROJECT	SHEET NO.
	0495-029-419	TS(1)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

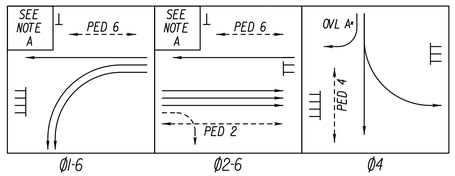
PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	TS(2)

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

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

Phasing Diagram



* NOTE A: OVL A SHALL BE PROGRAMMED WITH PARENT PHASES 4 & 6, BUT SHALL BE INACTIVE DURING CONFLICTING ACTUATED PEDESTRIAN PHASE C.



Proposed Signs

S-1: LEFT TURN SIGNAL — R10-10L (30" x 36") QTY - 2 EA.

S-2: START CROSSING Watch For Vehicles; DON'T START Finish Crossing If Started; TIME REMAINING To Finish Crossing; DON'T CROSS; TO CROSS PUSH BUTTON — R10-3eR (9" x 15") QTY - 4 EA.

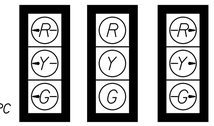
S-3: START CROSSING Watch For Vehicles; DON'T START Finish Crossing If Started; TIME REMAINING To Finish Crossing; DON'T CROSS; TO CROSS PUSH BUTTON — R10-3eL (9" x 15") QTY - 4 EA.

S-4: RIGHT TURN SIGNAL — R10-10R (30" x 36") QTY - 1 EA.

S-5: ONLY — R3-5R (30" x 36") QTY - 1 EA.

Proposed Signals

SP-9 — P2,P4,P6,PC



CABLE AND CONDUIT LEGEND

Ⓐ 1-4" Conduit
12-14/7c (HDS 1,1,2,2,2,2,4,4,6,6,A,A)
2-CAT 5e (VDC 1,2)
8-14/3c (PB)
8-14/5c (HDS P2,P2,P4,P4,P6,P6,PC,PC)
1-#8 EGC
1-4" Conduit (SPARE)
1-#8 EGC

Ⓑ 1-3" Conduit
5-14/7c (HDS 1,1,6,6,A)
1-CAT 5e (VDC 1)
5-14/3c (PB)
5-14/5c (HDS P4,P6,P6,PC,PC)
1-#8 EGC
1-3" Conduit (SPARE)
1-#8 EGC

Ⓒ 1-2" Conduit
1-14/3c (PB)
1-14/5c (HDS P6)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

Ⓓ 1-3" Conduit (BORED)
5-14/7c (HDS 1,1,6,6,A)
1-CAT 5e (VDC 1)
4-14/3c (PB)
4-14/5c (HDS P4,P6,PC,PC)
1-#8 EGC
1-3" Conduit (SPARE,BORED)
1-#8 EGC

Ⓔ 1-2" Conduit
2-14/3c (PB)
2-14/5c (HDS P6)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

Ⓕ 1-2" Conduit
1-14/3c (PB)
1-14/5c (HDS PC)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

Ⓖ 1-3" Conduit (BORED)
5-14/7c (HDS 1,1,6,6,A)
1-CAT 5e (VDC 1)
1-14/3c (PB)
1-14/5c (HD PC)
1-#8 EGC
1-3" Conduit (SPARE,BORED)
1-#8 EGC

Ⓗ 1-3" Conduit
5-14/7c (HDS 1,1,6,6,A)
1-CAT 5e (VDC 1)
1-14/3c (PB)
1-14/5c (HD PC)
1-#8 EGC
1-3" Conduit (SPARE)
1-#8 EGC

Ⓘ 1-3" Conduit (BORED)
7-14/7c (HDS 2,2,2,2,4,4,A)
1-CAT 5e (VDC 2)
3-14/3c (PB)
3-14/5c (HD P2,P2,P4)
1-#8 EGC
1-3" Conduit (SPARE,BORED)
1-#8 EGC

Ⓙ 1-2" Conduit
3-14/7c (HDS 2,2,2)
1-14/3c (PB)
1-14/5c (HD P2
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

Ⓚ 1-3" Conduit (BORED)
4-14/7c (HD 2,4,4,A)
1-CAT5e (VDC 2)
2-14/3c (PB)
2-14/5c (HDS P2,P4)
1-#8 EGC
1-3" Conduit (SPARE,BORED)
1-#8 EGC

Ⓛ 1-2" Conduit
1-14/7c (HD 2)
2-14/3c (PB)
2-14/5c (HDS P2,P4)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

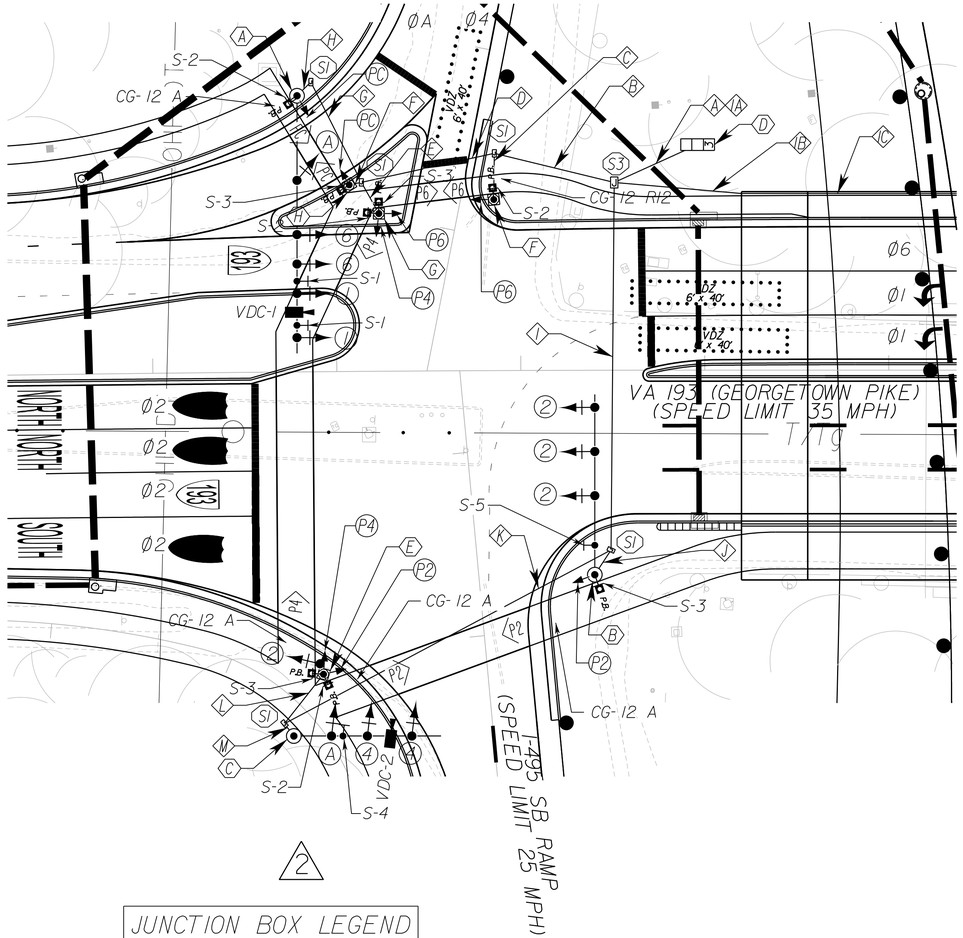
Ⓜ 1-2" Conduit
3-14/7c (HD 4,4,A)
1-CAT5e (VDC 2)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

Ⓐ 1 - 2" Conduit
1-FOC

Ⓑ 1 - 2" Conduit
1-FOC

Ⓒ 1 - 2" Conduit
1-FOC

ACRONYM/ABBREVIATION DEFINITION:
VDC - Video Detection Cable
EGC - Equipment Grounding Conductor
HD - HEAD HDS - HEADS
FOC - FIBER OPTIC CABLE (12 STRAND SINGLE MODE FIBER)
PB - Pedestrian Beacon



2

JUNCTION BOX LEGEND

All Junction Boxes shall conform to St'd. JB-S2 unless otherwise noted on the plans.

(S3) Denotes St'd. JB-S3

(SI) Denotes St'd. JB-SI

Signal Pole & Controller Legend

(ALL DIMENSIONS ARE TO CENTER OF POLE)

Ⓐ POLE TYPE MP-3
1-70' Arm

Ⓑ POLE TYPE MP-3
1-49' Arm

Ⓒ POLE TYPE MP-3
1-40' Arm

Ⓓ CONTROLLER CABINET & FOUNDATION (CF-3)

Ⓔ PEDESTAL POLE (PF-2), 12'

Ⓕ PEDESTAL POLE (PF-2), 12'

Ⓖ PEDESTAL POLE (PF-2), 12'

Ⓗ PEDESTAL POLE (PF-2), 12'

VA 193 (GEORGETOWN PIKE) & I-495 SB RAMP

RFP CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS

No.	Description	Date
2	Revised Traffic Signal Design and Labels	12/18/2020

SCALE	PROJECT	SHEET NO.
0 20' 40'	0495-029-419	TS(2)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

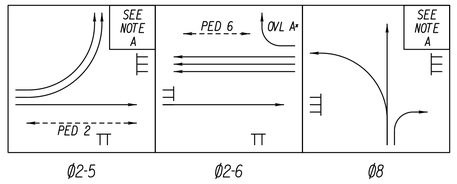
PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A _____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	TS(3)

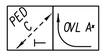
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

Phasing Diagram

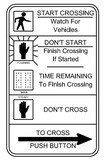


* NOTE A: OVL A SHALL BE PROGRAMMED WITH PARENT PHASES 2 & 4, BUT SHALL BE INACTIVE DURING CONFLICTING ACTUATED PEDESTRIAN PHASE C.

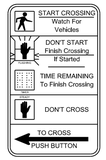


Proposed Signs

S-1: LEFT TURN SIGNAL — R10-10L (30" x 36") QUANTITY - 2 EA.

S-2: 

R10-3eR (9" x 15") QTY - 4 EA.

S-3: 

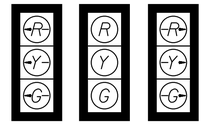
R10-3eL (9" x 15") QTY - 2 EA.

S-4: ONLY — R3-5R (30" x 36") QTY - 1 EA.

S-5: RIGHT TURN SIGNAL — R10-10L (30" x 36") QUANTITY - 1 EA.

Proposed Signals

SP-9 P2,P6,PC



CABLE AND CONDUIT LEGEND

(A) 1-4" Conduit
11-14/7c (HDS 2,2,5,5,6,6,6,8,8,A,A)
2-CAT 5e (VDC 1,2)
6-14/3c (PB)
6-14/5c (HDS P2,P2,P6,P6,PB,PB)
1-#8 EGC
1-4" Conduit (SPARE)
1-#8 EGC

(B) 1-3" Conduit
6-14/7c (6,6,6,6,8,8,A)
1-CAT 5e (VCD 1)
1-14/3c (PB)
1-14/5c (HDR P6)
1-#8 EGC
1-4" Conduit (SPARE)
1-#8 EGC

(C) 1-3" Conduit (BORED)
4-14/7c (HDS 2,2,5,5)
1-CAT 5e (VDC 2)
2-14/3c (PB)
2-14/5c (HDS P2,P2)
1-#8 EGC
1-3" Conduit (SPARE,BORED)
1-#8 EGC

(D) 1-3" Conduit
1-14/7c (HD A)
3-14/3c (PB)
3-14/5c (HDS P6,PB,PB)
1-#8 EGC
1-3" Conduit (SPARE)
1-#8 EGC

(E) 1-2" Conduit
1-14/3c (PB)
1-14/5c (HD P2)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

(F) 1-3" Conduit (BORED)
4-14/7c (HDS 2,2,5,5)
1-CAT 5e (VDC 2)
1-14/3c (PB)
1-14/5c (HD P2)
1-#8 EGC
1-3" Conduit (SPARE,BORED)
1-#8 EGC

(G) 1-3" Conduit
4-14/7c (HDS 2,2,5,5)
1-CAT 5e (VDC 2)
1-14/3c (PB)
1-14/5c (HD P2)
1-#8 EGC
1-3" Conduit (SPARE)
1-#8 EGC

(H) 1-3" Conduit (BORED)
1-14/7c (HD A)
3-14/3c (PB)
3-14/5c (HDS P6,PC,PC)
1-#8 EGC
1-3" Conduit (SPARE,BORED)
1-#8 EGC

(I) 1-2" Conduit
1-14/3c (PB)
1-14/5c (HD P6)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

(J) 1-2" Conduit
1-14/3c (PB)
1-14/5c (HD PB)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

(K) 1-2" Conduit (BORED)
1-14/3c (PB)
1-14/5c (HD PB)
1-#8 EGC
1-2" Conduit (SPARE,BORED)
1-#8 EGC

(L) 1-2" Conduit
1-14/3c (PB)
1-14/5c (HD PB)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

(IC) 1-2" Conduit
1-FOC

(ID) 1-2" Conduit
1-FOC

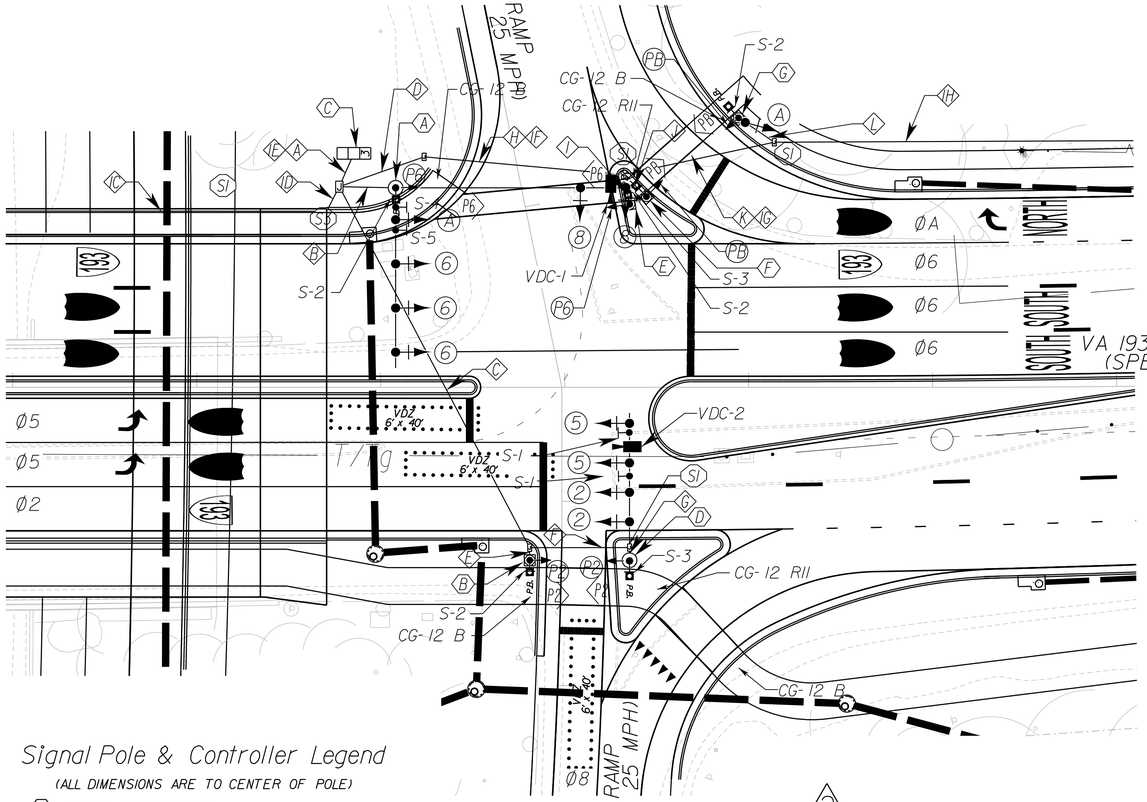
(IE) 1-2" Conduit
1-FOC

(IF) 1-2" Conduit (BORED)
1-FOC

(IG) 1-2" Conduit (BORED)
1-FOC

(IH) 1-2" Conduit
1-FOC

ACRONYM/ABBREVIATION DEFINITION:
VDC - Video Detection Cable
EGC - Equipment Grounding Conductor
HD - HEAD HDS - HEADS
FOC - FIBER OPTIC CABLE (12 STRAND SINGLE MODE FIBER)
PB - Pedestrian Beacon



Signal Pole & Controller Legend

(ALL DIMENSIONS ARE TO CENTER OF POLE)

(A) POLE TYPE MP-3
1-49' Arm, 1-65' Arm

(B) POLE TYPE MP-3
1-40' Arm

(C) CONTROLLER CABINET & FOUNDATION (CF-3)

(D) PEDESTAL POLE (PF-2), 12'

(E) PEDESTAL POLE (PF-2), 12'

(F) PEDESTAL POLE (PF-2), 12'

(G) PEDESTAL POLE (PF-2), 12'

VA 193 (GEORGETOWN PIKE) & I-495 NB RAMP

RFP CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS

No.	Description	Date
2	Revised Traffic Signal Design and Labels	12/18/2020

SCALE 0 20' 40'

PROJECT	SHEET NO.
0495-029-419	TS(3)

LIMITED ACCESS HIGHWAY — By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC
SURVEYED BY, DATE _ Rice Associates, 2019-06-17
DESIGN BY _ HDR Engineering
SUBSURFACE UTILITY BY, DATE _ N/A

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	TS(4)

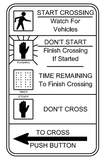
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

VDOT (Division) or Co. Name (Location), Virginia (TECHNICAL DISCIPLINE)

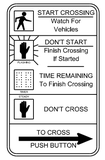
Proposed Signs

S-1


R10-VI (30" x 30") QTY - 4 EA.

S-2


R10-3eL (9" x 15") QTY - 6 EA.

S-3


R10-3eR (9" x 15") QTY - 2 EA.

S-4


R3-5A (30" x 36") QTY - 3 EA.

S-5


D3-1 (VARS X 18") QTY - 2 EA.

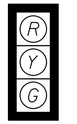
S-6

D3-1 (VARS X 18") QTY - 2 EA.

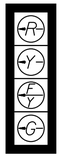
Proposed Signals

SP-9

P2, P4, P6, P8



2, 4, 6, 8

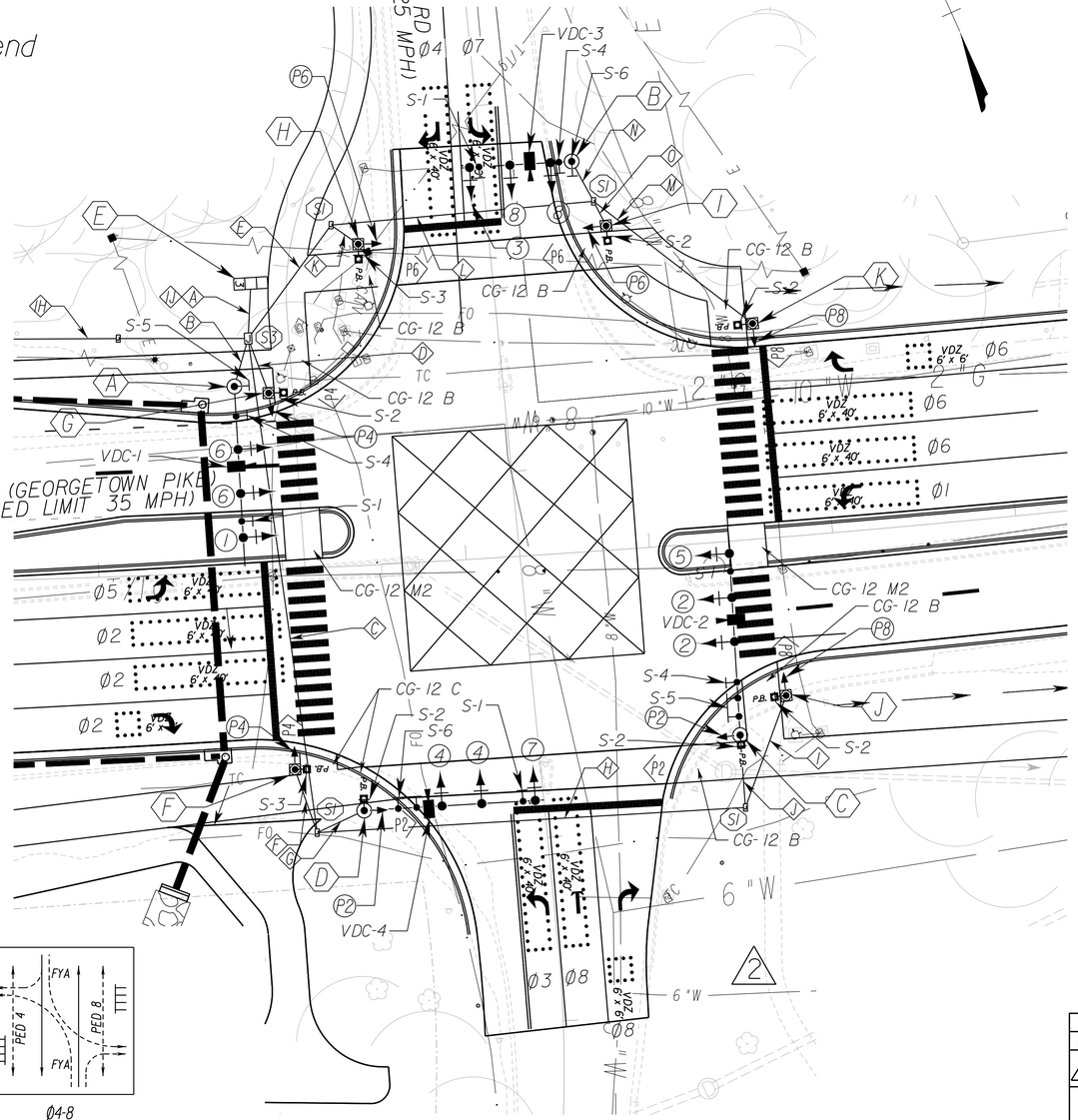


1, 3, 5, 7

Signal Pole & Controller Legend

(ALL DIMENSIONS ARE TO CENTER OF POLE)

- (A) POLE TYPE MP-3, 1-49' Arm
- (B) POLE TYPE MP-3, 1-30' Arm
- (C) POLE TYPE MP-3, 1-60' Arm
- (D) POLE TYPE MP-3, 1-49' Arm
- (E) CONTROLLER CABINET & FOUNDATION (CF-3)
- (F) PEDESTAL POLE (PF-2), 12'
- (G) PEDESTAL POLE (PF-2), 12'
- (H) PEDESTAL POLE (PF-2), 12'
- (I) PEDESTAL POLE (PF-2), 12'
- (J) PEDESTAL POLE (PF-2), 12'
- (K) PEDESTAL POLE (PF-2), 12'

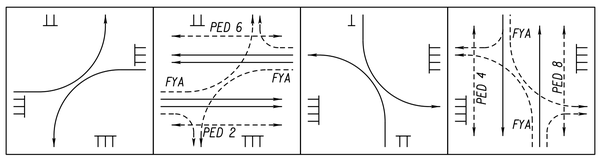


JUNCTION BOX LEGEND

All Junction Boxes shall conform to St'd. JB-S2 unless otherwise noted on the plans.

- (S3) Denotes St'd. JB-S3
- (S1) Denotes St'd. JB-S1

Phasing Diagram



Ø1-5 Ø2-6 Ø3-7 Ø4-8

CABLE AND CONDUIT LEGEND

(A) 1-4" Conduit
12-14/7c (HDS 1,2,2,3,4,4,5,6,6,7,8,8)
4-CAT 5e (VDC 1,2,3,4)
8-14/3c (PB)
8-14/5c (HDS P2,P2,P4,P4,P6,P6,P8,P8)
1-#8 EGC
1-4" Conduit (SPARE)
1-#8 EGC

(B) 1-2" Conduit
3-14/7c (HDS 1,6,6)
1-CAT 5e (VDC 1)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

(C) 1-4" Conduit (BORED)
6-14/7c (HDS 2,2,4,4,5,7)
2-CAT 5e (VDC 2,4)
4-14/3c (PB)
4-14/5c (HDS P2,P2,P4,P8)
1-#8 EGC
1-4" Conduit (SPARE,BORED)
1-#8 EGC

(D) 1-2" Conduit
1-14/3c (PB)
1-14/5c (HD P4)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

(E) 1-3" Conduit
3-14/7c (HDS 3,8,8)
1-CAT 5e (VDC 3)
3-14/3c (PB)
3-14/5C (HDS P2,P6,P8)
1-#8 EGC
1-3" Conduit (SPARE)
1-#8 EGC

(F) 1-2" Conduit
1-14/3c (PB)
1-14/5c (HD P4)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

(G) 1-3" Conduit
3-14/7c (HDS 4,4,7)
1-CAT 5e (VDC 4)
1-14/3c (PB)
1-14/5c (HD P2)
1-#8 EGC
1-3" Conduit (SPARE)
1-#8 EGC

(H) 1-3" Conduit (BORED)
3-14/7c (HDS 2,2,5)
1-CAT 5e (VDC 2)
2-14/3c (PB)
2-14/5c (HDS P2,P8)
1-#8 EGC
1-3" Conduit (SPARE,BORED)
1-#8 EGC

(I) 1-2" Conduit
1-14/3c (PB)
1-14/5c (HD P8)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

(J) 1-3" Conduit
3-14/7c (HDS 2,2,5)
1-14/3c (PB)
1-14/5c (HD P2)
1-CAT 5e (VDC 2)
1-#8 EGC
1-3" Conduit (SPARE)
1-#8 EGC

(K) 1-2" Conduit
1-14/3c (PB)
1-14/5c (HD P6)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

(L) 1-3" Conduit (BORED)
3-14/7c (HDS 3,8,8)
1-CAT 5e (VDC 3)
2-14/3c (PB)
2-14/5C (HDS P2,P8)
1-#8 EGC
1-3" Conduit (SPARE,BORED)
1-#8 EGC

(M) 1-2" Conduit
1-14/3c (PB)
1-14/5c (HD P8)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

(N) 1-3" Conduit
3-14/7c (HDS 3,8,8)
1-CAT 5e (VDC 3)
1-14/3c (PB)
1-14/5C (HDS P8)
1-#8 EGC
1-3" Conduit (SPARE)
1-#8 EGC

(O) 1-2" Conduit
1-14/3c (PB)
1-14/5c (HD P6)
1-#8 EGC
1-2" Conduit (SPARE)
1-#8 EGC

(H) 1-2" Conduit
1-FOC

(U) 1-2" Conduit
1-FOC

ACRONYM/ABBREVIATION DEFINITION:
VDC - Video Detection Cable
EGC - Equipment Grounding Conductor
HD - HEAD HDS - HEADS
FOC - FIBER OPTIC CABLE (12 STRAND SINGLE MODE FIBER)
PB - Pedestrian Beacon

VA 193 (GEORGETOWN PIKE) & BALLS HILL RD

RFP CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

ADDITIONAL EASEMENTS FOR UTILITY RELOCATIONS MAY BE REQUIRED BEYOND THE PROPOSED RIGHT OF WAY SHOWN ON THESE PLANS.

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

REVISIONS		
No.	Description	Date
2	Revised Traffic Signal Design and Labels	12/18/2020

SCALE 0 20' 40'

PROJECT	SHEET NO.
0495-029-419	TS(4)

TRxxxxxxsht-TS(5)
Plotted By: PBISCHOF
LIMITED ACCESS HIGHWAY
By Resolution of Commonwealth Transportation Board dated October 4, 1956

PROJECT MANAGER _ Capital Beltway Express, LLC _____
SURVEYED BY, DATE _ Rice Associates, 2019-06-17 _____
DESIGN BY _ HDR Engineering _____
SUBSURFACE UTILITY BY, DATE _ N/A. _____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	495	0495-029-419 R-201, C-501	TS(5)

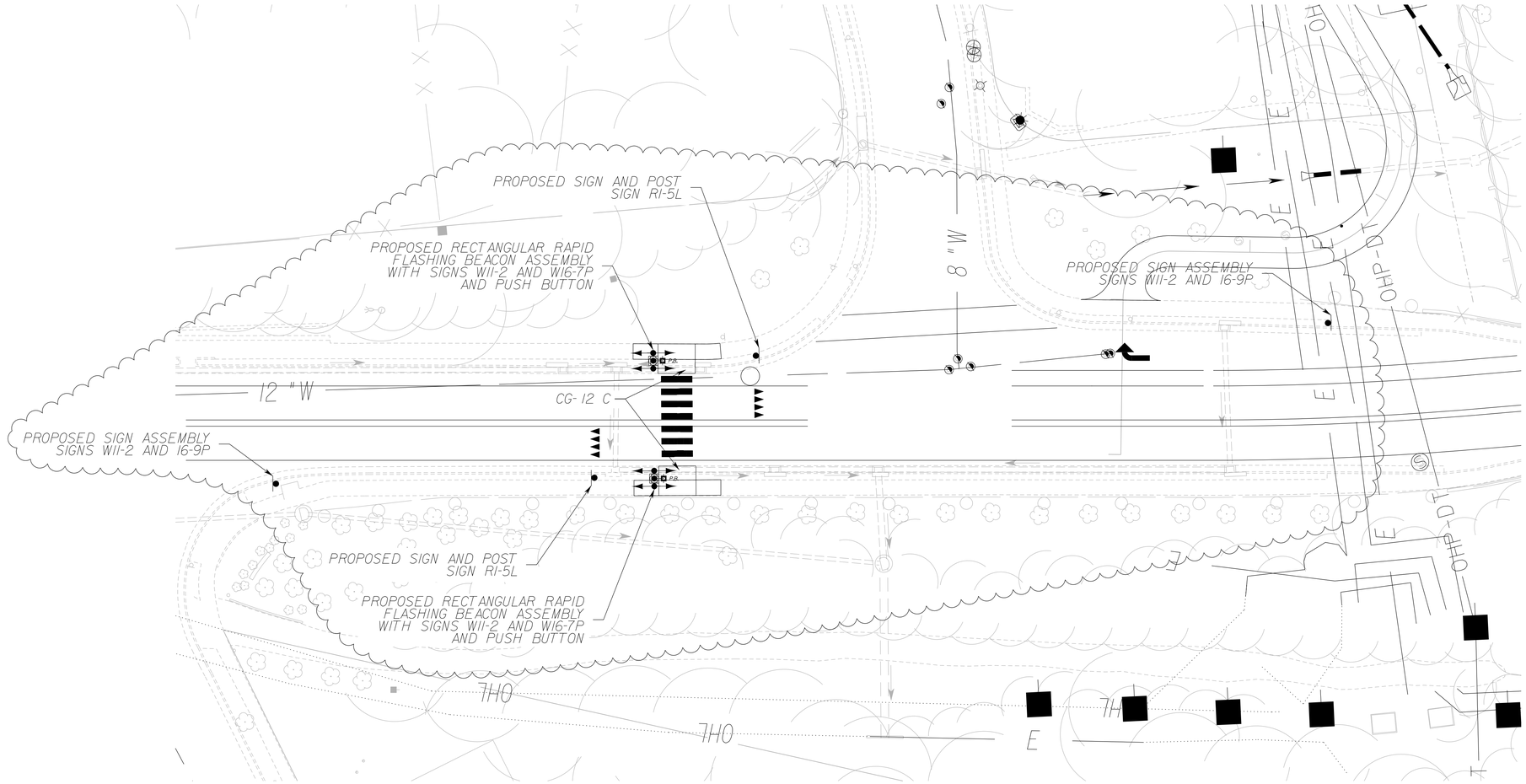
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

VDOT (Division) or Co. Name
(Location), Virginia
(TECHNICAL DISCIPLINE)

Proposed Signs



W11-2 (30" x 30") QTY - 6 EA.	R1-5L (24" x 24") QTY - 2 EA.	W16-7PL (24" x 12") QTY - 4 EA.	W16-7PR (24" x 12") QTY - 4 EA.	W16-9P (24" x 12") QTY - 2 EA.


PROPOSED SIGN AND POST SIGN R1-5L
PROPOSED RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH SIGNS W11-2 AND W16-7P AND PUSH BUTTON
PROPOSED SIGN ASSEMBLY SIGNS W11-2 AND 16-9P
12 "W
CG-12 C
8 "W
PROPOSED SIGN ASSEMBLY SIGNS W11-2 AND 16-9P
PROPOSED SIGN AND POST SIGN R1-5L
PROPOSED RECTANGULAR RAPID FLASHING BEACON ASSEMBLY WITH SIGNS W11-2 AND W16-7P AND PUSH BUTTON
7HO
7HO
7HO
E
E
E

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	1

TRANSURBAN
495 EXPRESS LANES NORTHERN EXTENSION
FROM: VA ROUTE 267 (DULLES TOLL ROAD)
TO: GEORGE WASHINGTON MEMORIAL PARKWAY
PROJECT: 0495-029-419, R-201, C-501

RFP CONCEPTUAL STRUCTURE AND BRIDGE PLANS

INDEX OF SHEETS

Sheet No.	Description
1	Title Sheet - Index of Sheets
2	DTR Ramp E1 over DTR EB & Dulles Access Road - General Plan and Elevation
3	DTR Ramp E1 over DTR EB & Dulles Access Road - Transverse Section
4	DTR Ramp E1 over DTR WB & I-495 NB GP - General Plan and Elevation
5	DTR Ramp E1 over DTR WB & I-495 NB GP - Transverse Section
6	I-495 NB Over DTR Ramp E1/G3 - General Plan and Elevation
7	I-495 NB Over DTR Ramp E1/G3 - Transverse Section
8	Old Dominion Drive Over I-495 - General Plan and Elevation
9	Old Dominion Drive Over I-495 - Transverse Section
10	Georgetown Pike Over I-495 - General Plan and Elevation
11	Georgetown Pike Over I-495 - Transverse Section
12	Live Oak Drive Over I-495 - General Plan and Elevation
13	Live Oak Drive Over I-495 - Transverse Section
14	Georgetown Pike NW Ramp over GWMP to 495 SB Ramp - General Plan and Elevation
15	Georgetown Pike NW Ramp over GWMP to 495 SB Ramp - Transverse Section
16	I-495 NB Over Scott's Run - General Plan and Elevation
17	I-495 NB Over Scott's Run - Transverse Section
18	I-495 SB Over Scott's Run - General Plan and Elevation
19	I-495 SB Over Scott's Run - Transverse Section
20	George Washington Memorial Parkway Ramp E22 over I-495 - General Plan and Elevation
21	George Washington Memorial Parkway Ramp E22 over I-495 - Transverse Section
22	George Washington Memorial Parkway Ramp E21 over I-495 SB - General Plan and Elevation
23	George Washington Memorial Parkway Ramp E21 over I-495 SB - Transverse Section
24	George Washington Memorial Parkway over I-495 - General Plan and Elevation
25	George Washington Memorial Parkway over I-495 - Transverse Section
26	George Washington Memorial Parkway over I-495 - Bridge Repair Details
27	Lewinsville Rd. Over I-495 - General Plan and Elevation

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

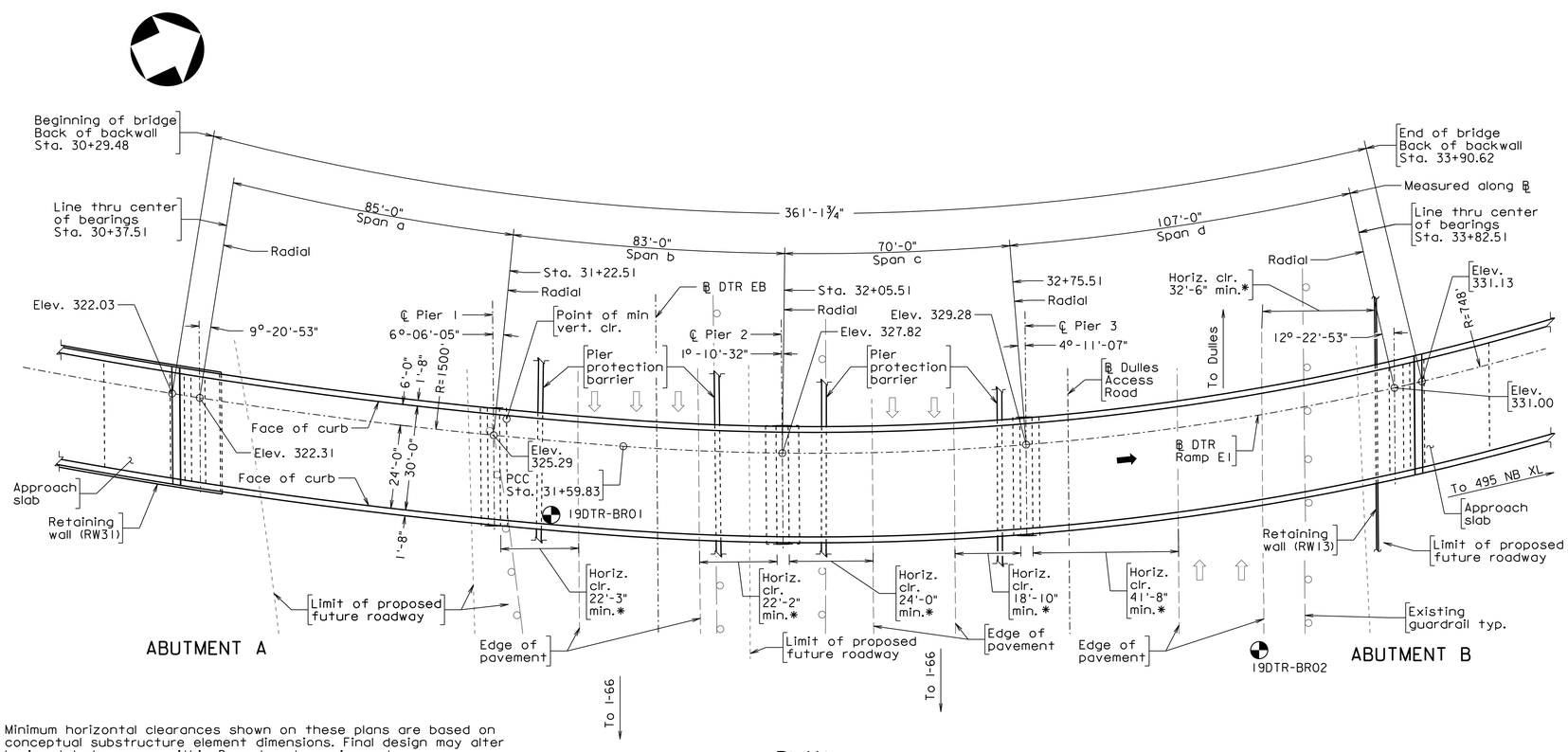
THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE AQUISITION OF RIGHT OF WAY

Title Sheet_Project-NEXT.dgn

Date: September 30, 2020

© 2020, Commonwealth of Virginia

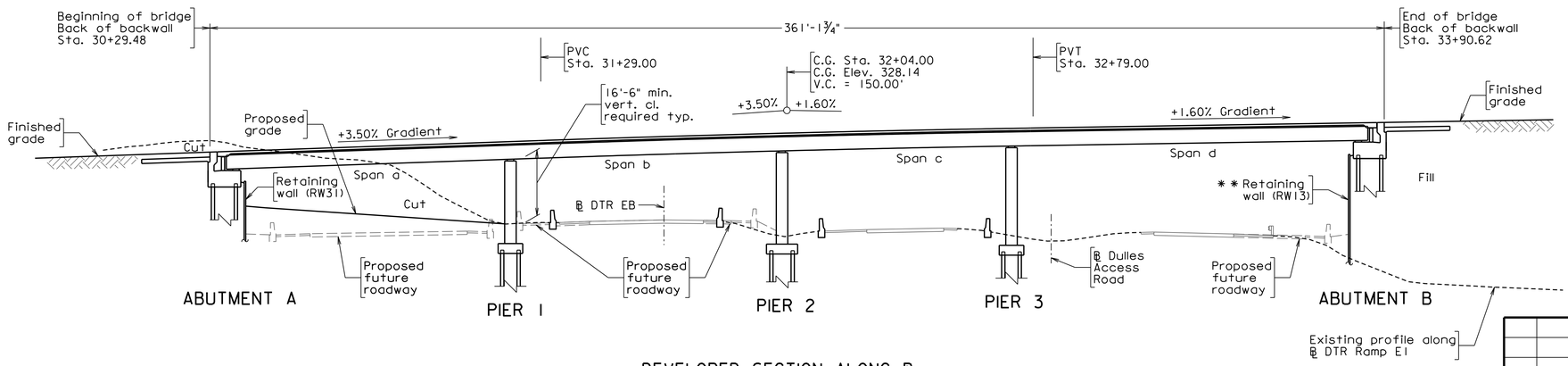
STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	2



PLAN

* Minimum horizontal clearances shown on these plans are based on conceptual substructure element dimensions. Final design may alter horizontal clearances within Department requirements.

** The Design Build Contractor shall provide ground improvements and/or provide fill under the retaining walls exceeding 40 feet in height or obtain VDOT's approval for design and construction of retaining walls exceeding 40 feet in height.



DEVELOPED SECTION ALONG ℄

DESIGN EXCEPTION(S):

Reduced bridge shoulder widths. Approved by State Structure and Bridge Engineer on xxx x, 2020.

GENERAL NOTES:

Width: 30'-0" face-to-face of curbs.

Span layout: 85' - 83' - 70' - 107', continuous steel plate girder spans

Capacity: HL-93 loading.

Specifications:

1 Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

Temporary support of excavation may be required for the construction of substructure units.

Deck drainage system may be required for this structure. Deck drainage system shall be designed by Design Build Contractor to meet the hydraulic requirements in accordance with VDOT and FHWA standards.

For wall details, see Retaining Wall plans.

For architectural treatment of structures, see the Project Technical Requirements.

For boring logs, see Geotechnical Data Report.

All available boring locations are shown in the plans. The remaining borings will be the responsibility of Design Build Contractor.

For bridge lighting, see Signing, Lighting, Pavement Marking Concept Plans roll plots.

Legend:

◔ Denotes bridge boring locations

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
1	Revised general notes	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

DTR RAMP E1 OVER DTR EB & DULLES ACCESS ROAD GENERAL PLAN AND ELEVATION

Designed: AE
Drawn: JRH
Checked: MCV

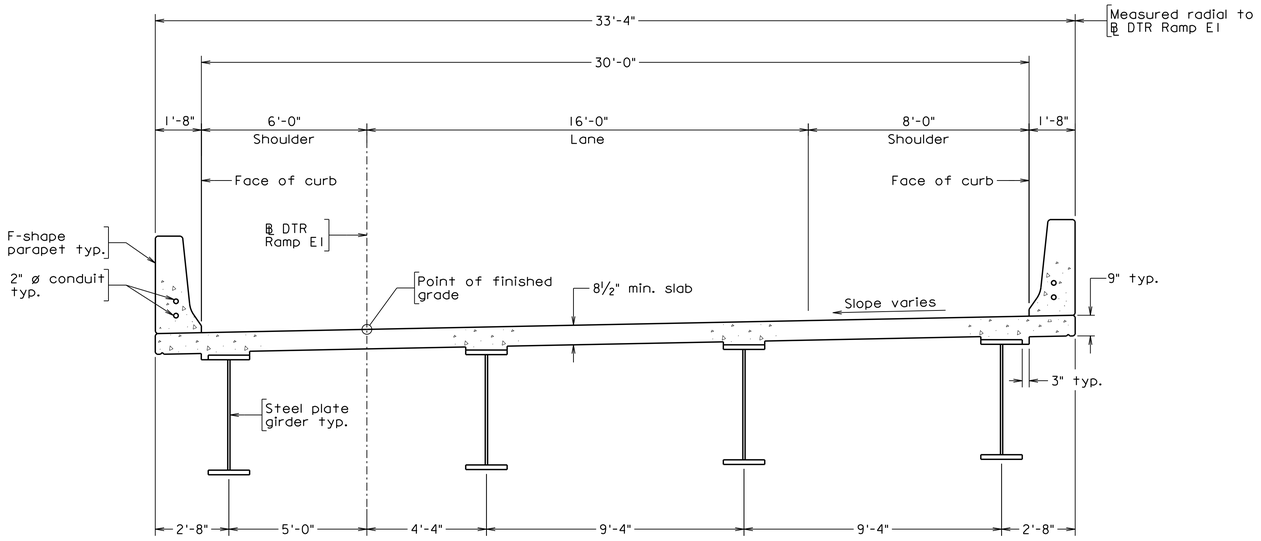
Date	Plan No.	Sheet No.
Sept. 2020	XXX-XX	2 of 27

Scale: 1" = 20'

©2020. Commonwealth of Virginia

DTR-N1-EB DTR to NB 495 flyover_General Plan & Elevation.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	——		495	0495-029-419, R-201, C-501	3



TRANSVERSE SECTION

Scale: ⅜" = 1'-0"

© 2020. Commonwealth of Virginia

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

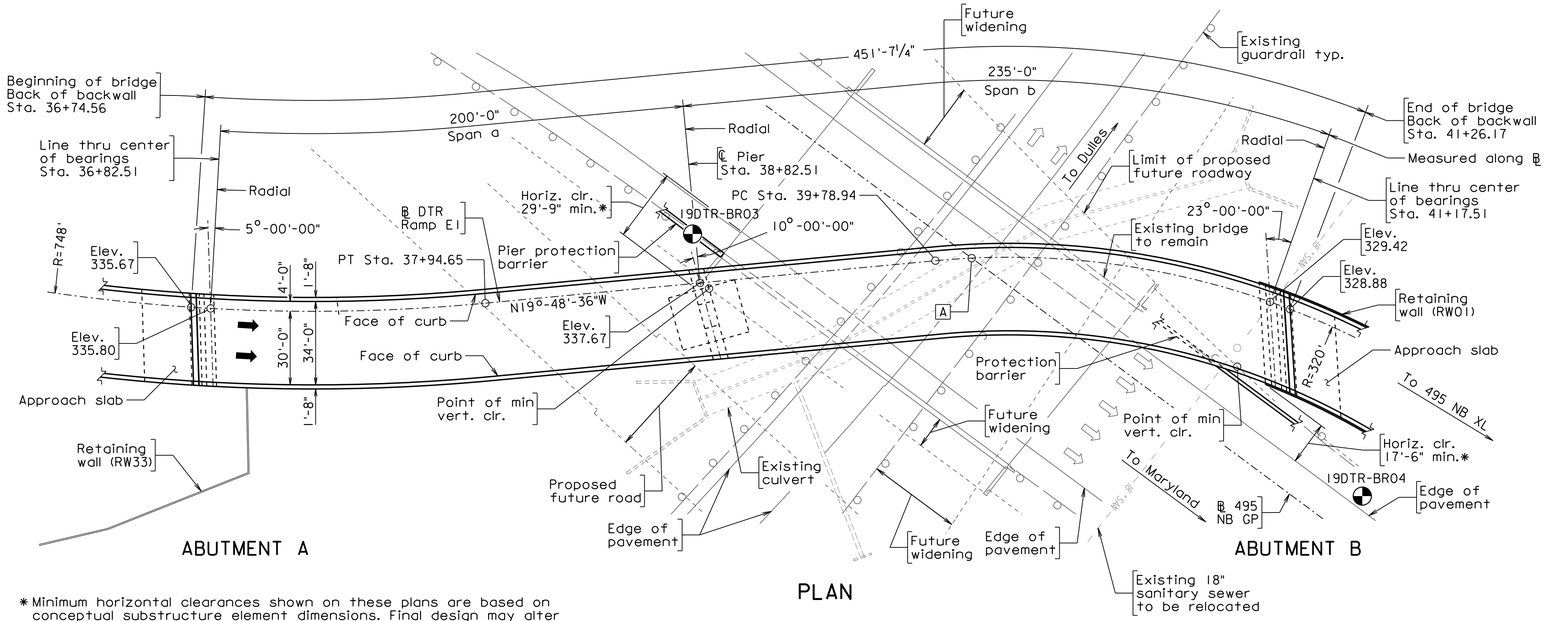
STRUCTURE AND BRIDGE DIVISION

DTR RAMP E1 OVER DTR EB & DULLES ACCESS ROAD TRANSVERSE SECTION

Designed: AE	Date	Plan No.	Sheet No.
Drawn: JRH	Sept. 2020	XXX-XX	3 of 27
Checked: RN			

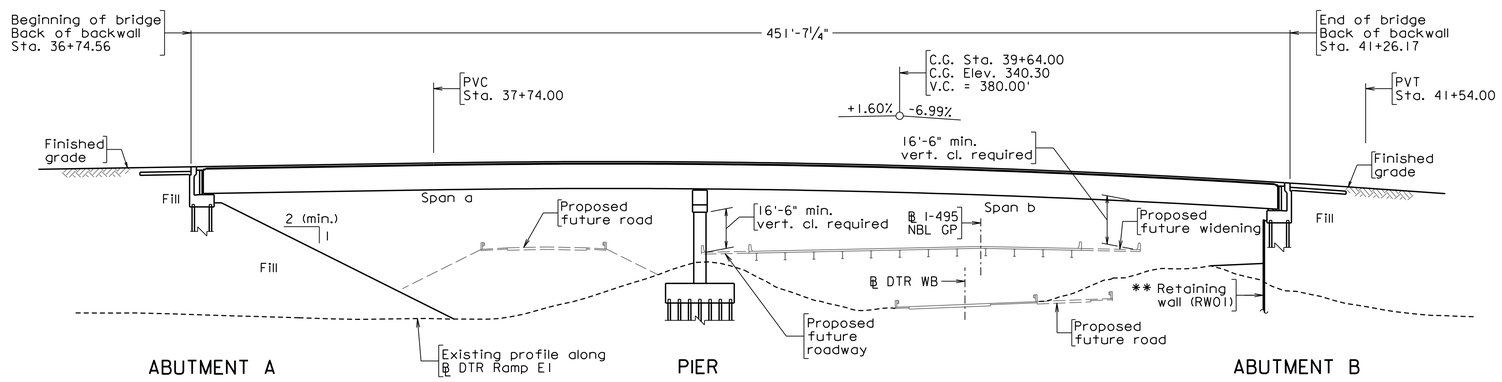
DTR-N1-EB DTR to NB 495 flyover_Transverse Section.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	4



*Minimum horizontal clearances shown on these plans are based on conceptual substructure element dimensions. Final design may alter horizontal clearances within Department requirements.

** The Design Build Contractor shall provide ground improvements and/or provide fill under the retaining walls exceeding 40 feet in height or obtain VDOT's approval for design and construction of retaining walls exceeding 40 feet in height.



DEVELOPED SECTION ALONG ℄

DESIGN EXCEPTION(S):

Reduced bridge shoulder widths. Approved by State Structure and Bridge Engineer on xxx x, 2020.

GENERAL NOTES:

Width: 34'-0" face-to-face of curbs.

Span layout: 200' - 235' continuous steel plate girder spans

Capacity: HL-93 loading.

Specifications:

⚠ Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

Temporary support of excavation may be required for the construction of substructure units.

For wall details, see Retaining Wall plans.

For architectural treatment of structures, see the Project Technical Requirements.

For boring logs, see Geotechnical Data Report.

All available boring locations are shown in the plans. The remaining borings will be the responsibility of Design Build Contractor.

For bridge lighting, see Signing, Lighting, Pavement Marking Concept Plans roll plots.

Legend:

Denotes bridge boring locations

Tie Stations:

A — POC Sta. 39+93.76 ℄ DTR Ramp E1
PI Sta. 1066+78.14 ℄ 495 NB GP
△ = 39°-17'-38" Rt.

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
1	Revised general notes	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

DTR RAMP E1 OVER DTR WB & I-495 NB GP GENERAL PLAN AND ELEVATION

Designed: AE
Drawn: JRH
Checked: MCV

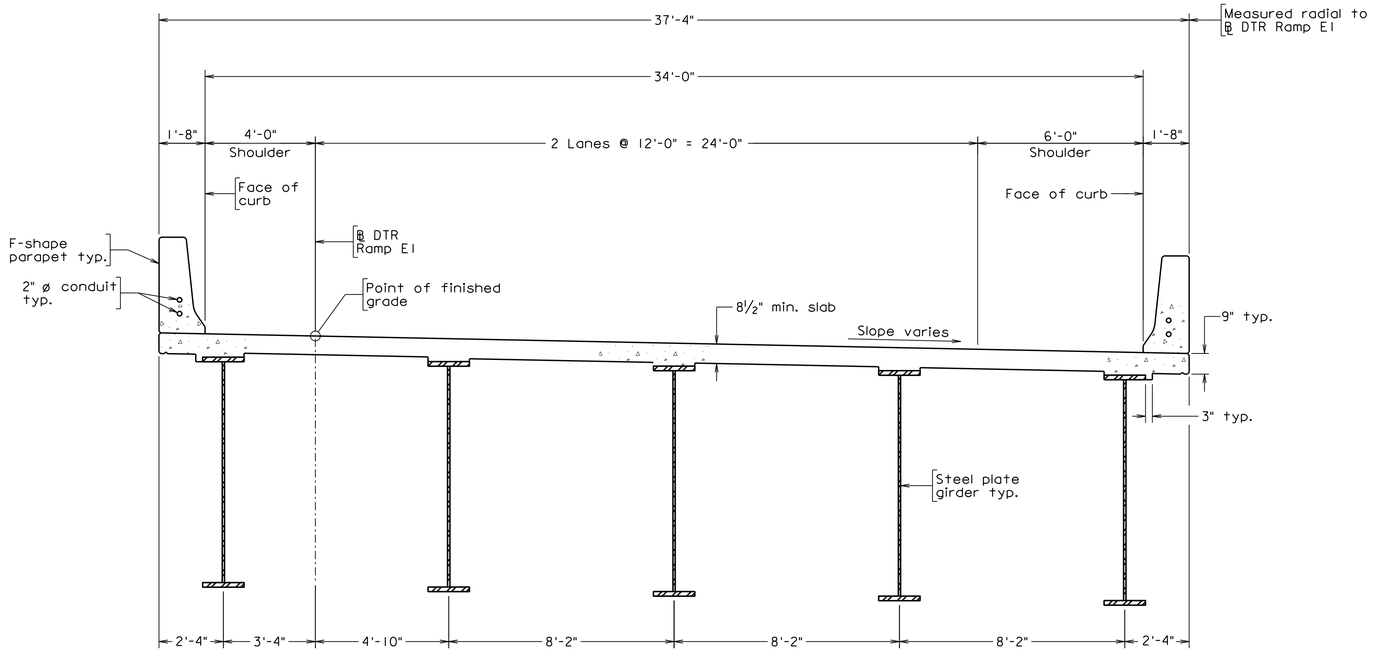
Date: Sept. 2020
Plan No.: XXX-XX
Sheet No.: 4 of 27

Scale: 1" = 20'

© 2020, Commonwealth of Virginia

DTR-N2-DTR to NB 495 flyover_General Plan & Elevation.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	5



TRANSVERSE SECTION

DTR-N2-DTR to NB 495 flyover_Transverse Section.dgn

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

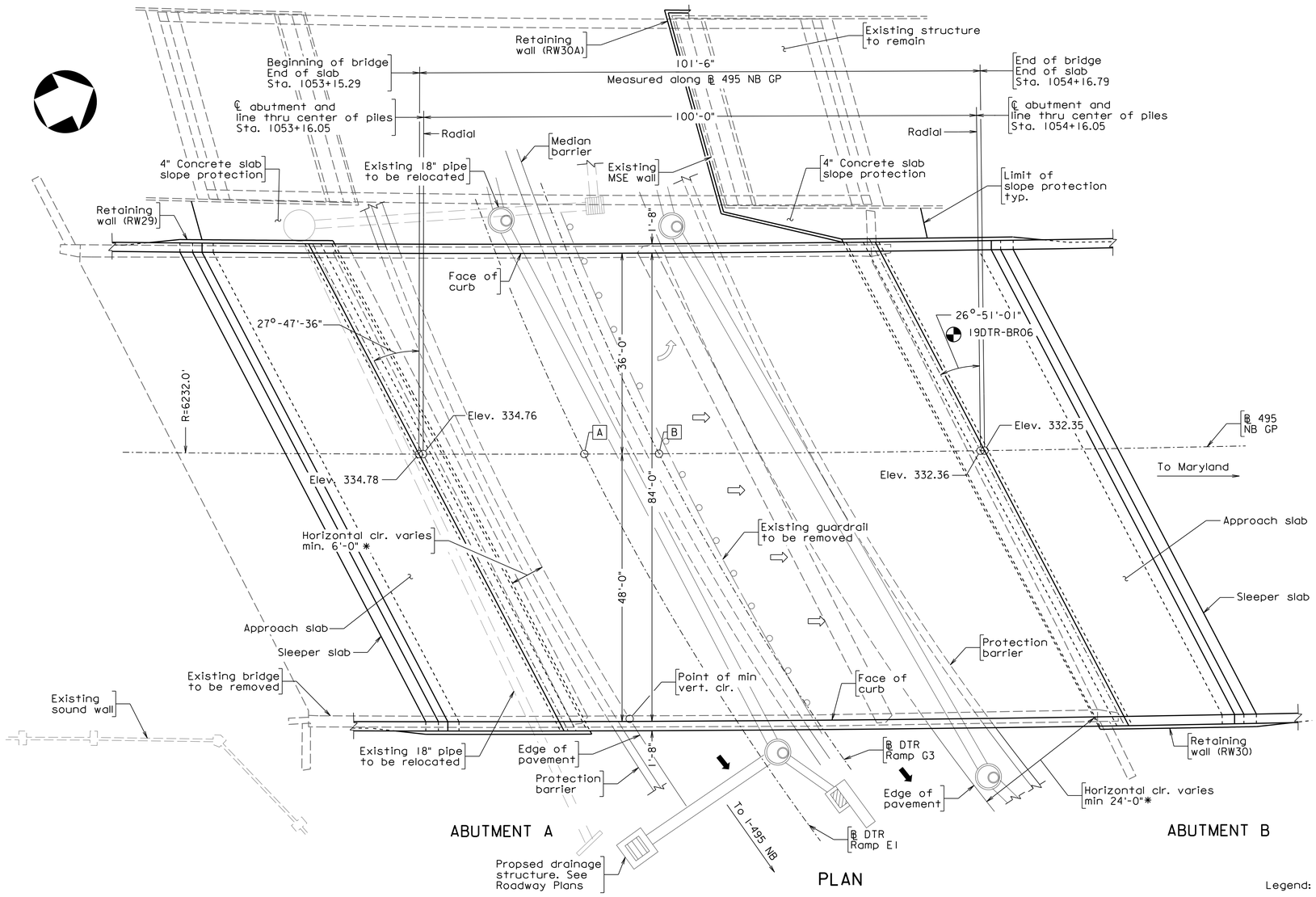
DTR RAMP E1 OVER
DTR WB & I-495 NB GP
TRANSVERSE SECTION

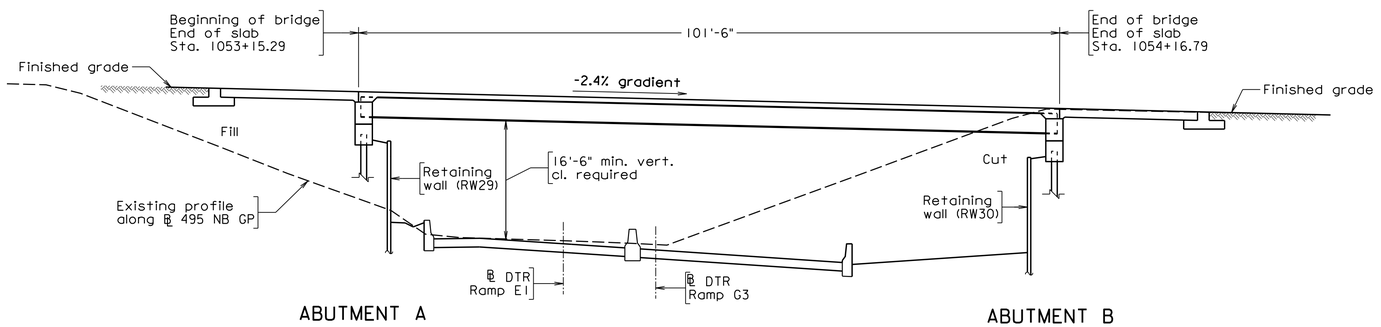
Designed: AF	Date	Plan No.	Sheet No.
Drawn: JRH	Sept. 2020	XXX-XX	5 of 27
Checked: RN			

Scale: ⅜" = 1'-0"

©2020. Commonwealth of Virginia

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	6





DEVELOPED SECTION ALONG ℄

Scale: 3/32" = 1'-0"

© 2020. Commonwealth of Virginia

DESIGN EXCEPTION(S):

None

GENERAL NOTES:

Width: 84'-0" face-to-face of curbs.

Span layout: 100'-0", steel plate girder span

Capacity: HL-93 loading.

Specifications:

⚠ Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

Bridge No. of existing bridge is 2120. Plan No. is 189-13.

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

Temporary sheet piling may be required for the construction of substructure units.

Remove entire existing superstructure as shown in the plans.

Remove existing substructure minimum 2' below the finish grades and in accordance with the Road and Bridge Specifications

For wall details, see Retaining Wall plans.

For architectural treatment of structures, see the Project Technical Requirements.

For boring logs, see Geotechnical Data Report.

All available boring locations are shown in the plans. The remaining borings will be the responsibility of Design Build Contractor.

For bridge lighting, see Signing, Lighting, Pavement Marking Concept Plans roll plots.

✱ Minimum horizontal clearances shown on these plans are based on conceptual substructure element dimensions. Final design may alter horizontal clearances within Department requirements.

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

Legend:

◔ Denotes bridge boring locations

Tie stations:

A — POC Sta. 1053+44.98 ℄ 495 NB GP
POC Sta. 24+41.16 ℄ DTR Ramp E1
△ = 63°-53'-13" Rt.

B — POC Sta. 1053+58.38 ℄ 495 NB GP
POC Sta. 40+30.54, ℄ DTR Ramp G3
△ = 63°-14'-56" Rt.

No.	Description	Date
⚠	Revised general notes	11/13/20
Revisions		

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

I-495 NB OVER DTR RAMP E1/G3 GENERAL PLAN AND ELEVATION

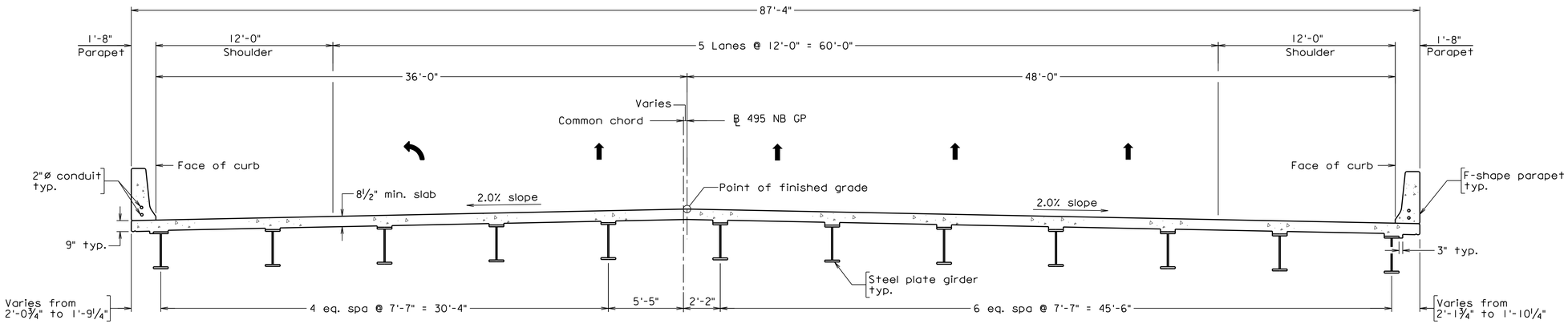
Designed: AKS	Date	Plan No.	Sheet No.
Drawn: NA	Sept. 2020	XXX-XX	6 of 27
Checked: RN			

DTR-N4-495 NB over EB DTR_General Plan & Elevation.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	7

Note:

Sequence of construction is not shown.



TRANSVERSE SECTION

Scale: ¼" = 1'-0"

© 2020, Commonwealth of Virginia

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

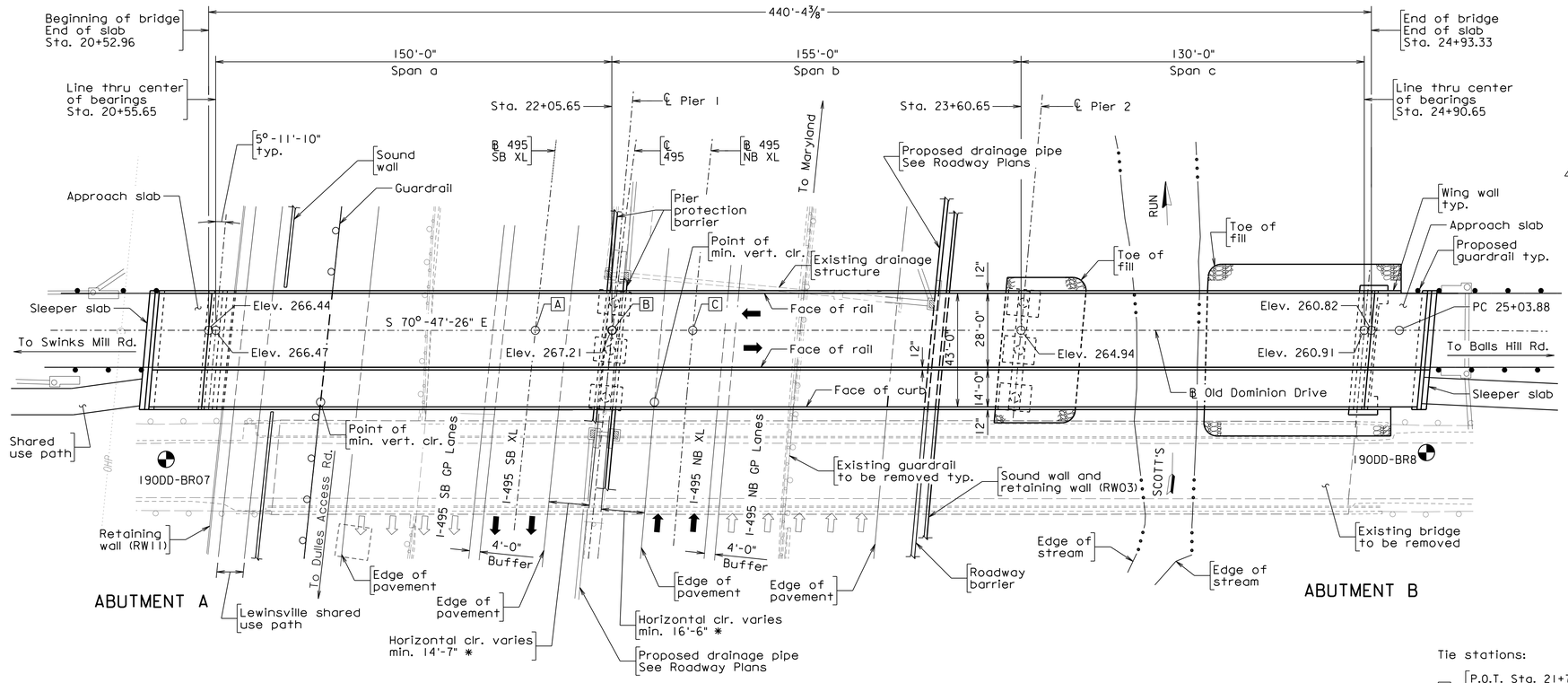
STRUCTURE AND BRIDGE DIVISION

I-495 NB OVER DTR RAMP E1/G3 TRANSVERSE SECTION

Designed: AKS	Date	Plan No.	Sheet No.
Drawn: NA	Sept. 2020	XXX-XX	7 of 27
Checked: RN			

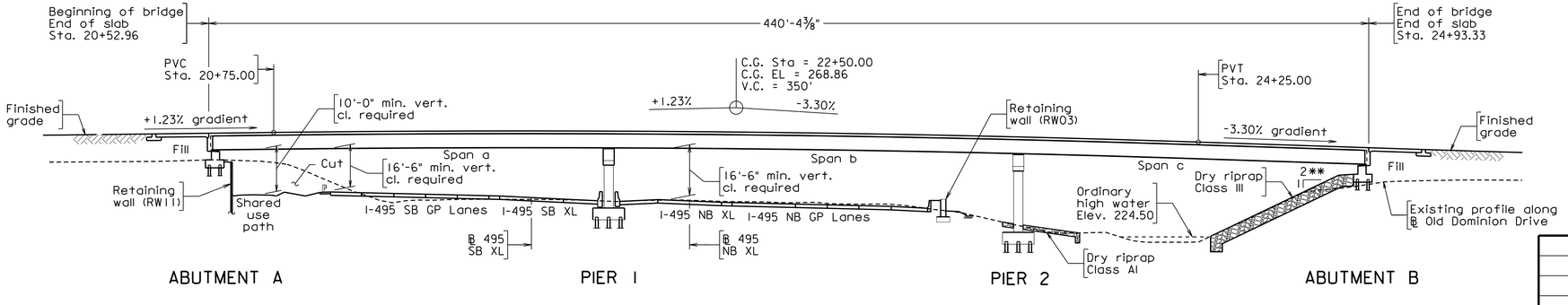
DTR-N4-495 NB over EB DTR_Transverse Section.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	8



PLAN

* Minimum horizontal clearances shown on these plans are based on conceptual substructure element dimensions. Final design may alter horizontal clearances within department requirements.



** Normal to abutment

DEVELOPED SECTION ALONG ℄

Scale: 1" = 25'-0"

DESIGN EXCEPTION(S):

None

GENERAL NOTES:

Width: 14'-0" shared use path, 28'-0" roadway, 43'-0" face-to-face of curbs.

Span layout: 150' - 155' - 130', continuous steel plate girder spans

Capacity: HL-93 loading

Specifications:

1 Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

Bridge No. of existing bridge is 6216. Plan No is 138-24.

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

Temporary support of excavation may be required for the construction of substructure units.

For wall details, see Retaining Wall plans.

For sound wall, see Roadway plans.

For architectural treatment of structures, see the Project Technical Requirements.

For boring logs, see Geotechnical Data Report.

All available boring locations are shown in the plans. The remaining borings will be the responsibility of Design Build Contractor.

For bridge lighting, see Signing, Lighting, Pavement Marking Concept Plans roll plots.

Legend:

◔ Denotes bridge boring locations

Tie stations:

A — P.O.T. Sta. 21+76.72 ℄ Old Dominion Drive
P.O.C. Sta. 214+43.67 ℄ 495 SB XL
△ = 83°-49'-46" LT.

B — P.O.T. Sta. 22+05.71 ℄ Old Dominion Drive
P.O.C. Sta. 1109+71.39 ℄ 495
△ = 84°-44'-42" LT.

C — P.O.T. Sta. 22+36.33 ℄ Old Dominion Drive
P.O.T. Sta. 614+05.64 ℄ 495 NB XL
△ = 84°-36'-27" LT.

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
	Revised general notes	11/13/20
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

OLD DOMINION DRIVE OVER I-495 GENERAL PLAN AND ELEVAION

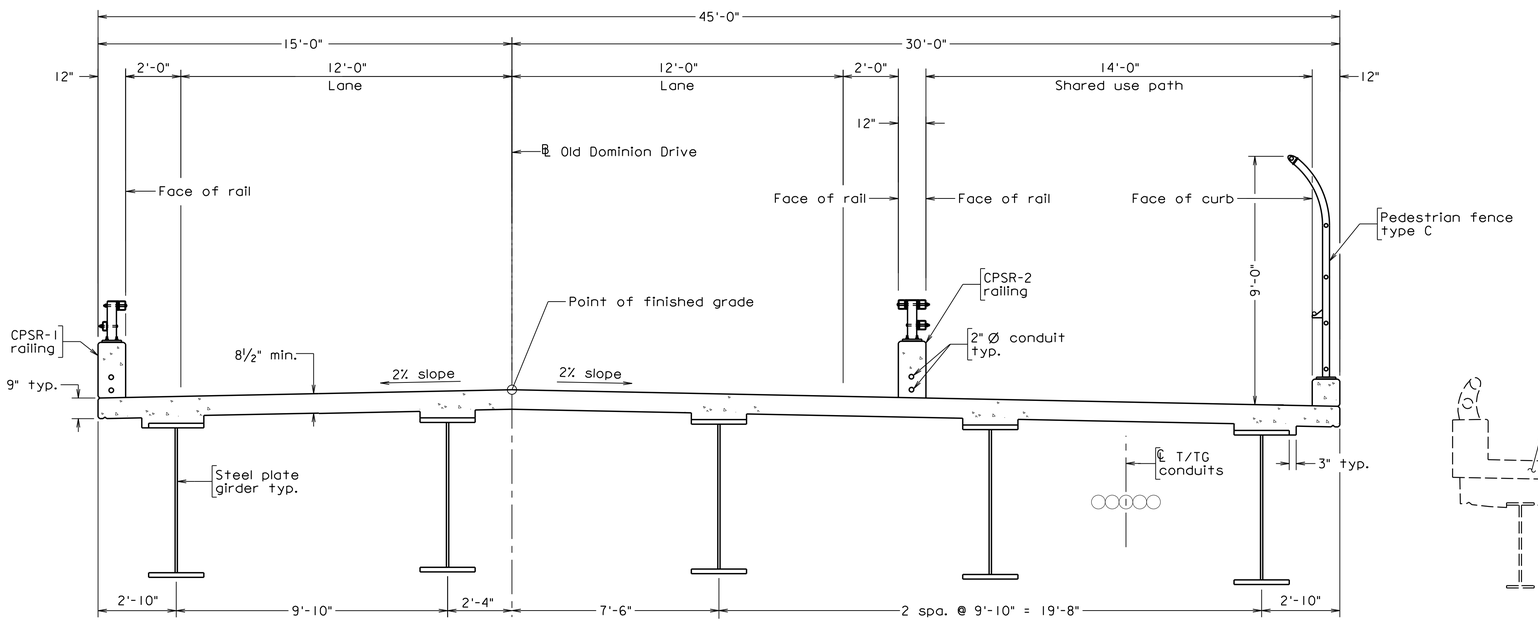
Designed: AKS
Drawn: NA
Checked: MCV

Date	Plan No.	Sheet No.
Sept. 2020	XXX-XX	8 of 27

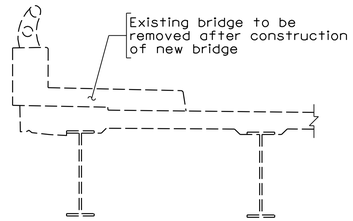
© 2020, Commonwealth of Virginia

Old Dominion Drive_General Plan & Elevation.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	9



TRANSVERSE SECTION



RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

OLD DOMINION DRIVE OVER I-495 TRANSVERSE SECTION

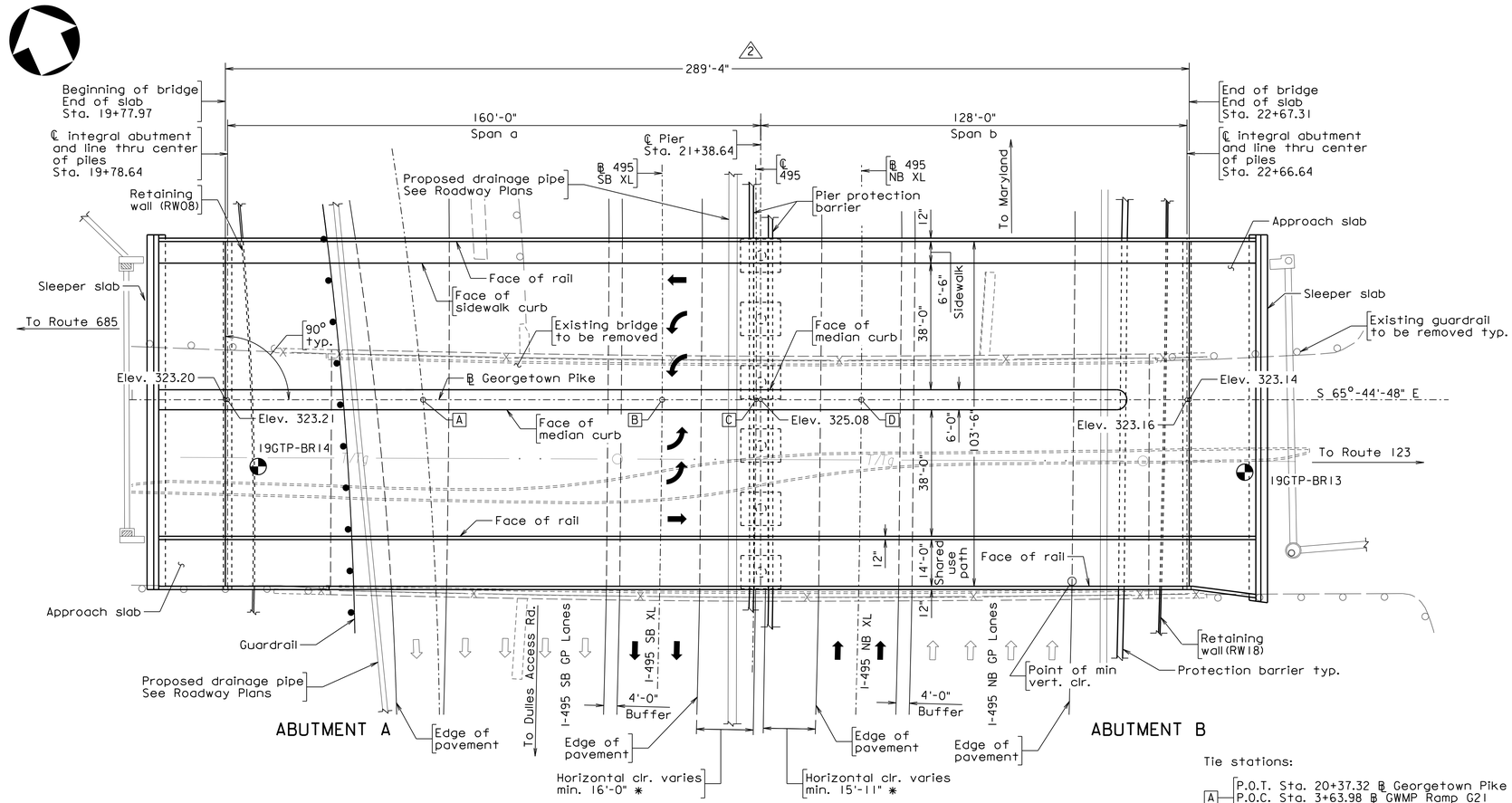
Designed: JRH	Date	Plan No.	Sheet No.
Drawn: NA	Sept. 2020	XXX-XX	9 of 27
Checked: RN			

Scale: ⅜" = 1'-0"

©2020. Commonwealth of Virginia

Old Dominion Drive_Transverse Section.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	10



* Minimum horizontal clearances shown on these plans are based on conceptual substructure element dimensions. Final design may alter horizontal clearances within Department requirements.

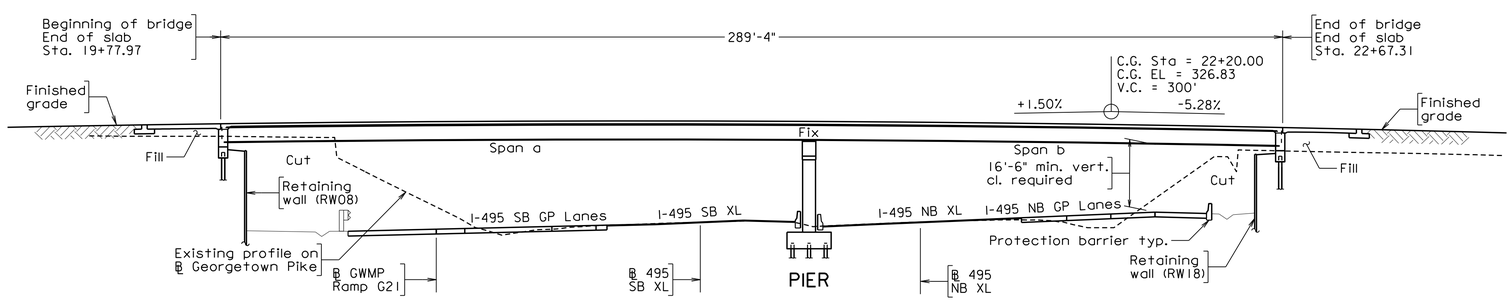
Tie stations:

A — P.O.T. Sta. 20+37.32 ℄ Georgetown Pike
P.O.C. Sta. 3+63.98 ℄ GWMP Ramp G21
△ = 5°-14'-45" Lt.

B — P.O.T. Sta. 21+09.08 ℄ Georgetown Pike
P.O.C. Sta. 255+63.98 ℄ 495 SB XL
△ = 89°-36'-23" Lt.

C — P.O.T. Sta. 21+37.31 ℄ Georgetown Pike
P.O.C. Sta. 1150+89.33 ℄ 495
△ = 89°-41'-30" Lt.

D — P.O.T. Sta. 21+68.89 ℄ Georgetown Pike
P.O.C. Sta. 655+20.00 ℄ 495 NB XL
△ = 89°-32'-38" Lt.



DEVELOPED SECTION ALONG ℄
Utility and drainage pipes are not shown

Scale: 1" = 20'-0"

DESIGN EXCEPTION(S):

None

GENERAL NOTES:

Width: 14'-0" shared use path, 38'-0" roadway, 6'-0" median, 38'-0" roadway, 6'-6" Sidewalk Overall width 103'-6" face to face of rail.

Span layout: 160'-0" - 128'-0", continuous steel plate girder spans

Capacity: HL-93 loading △2

Specifications:

△1
Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

Bridge No. of existing bridge is 1107. Plan No is 139-01.

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

Temporary support of excavation may be required for the construction of substructure units.

For wall details, see Retaining Wall plans.

For architectural treatment of structures, see the Project Technical Requirements.

For boring logs, see Geotechnical Data Report.

All available boring locations are shown in the plans. The remaining borings will be the responsibility of Design Build Contractor.

For bridge lighting, see Signing, Lighting, Pavement Marking Concept Plans roll plots.

Deck drainage system is required for this structure based on hydraulic analysis. Deck drainage system shall be designed by Design Build Contractor to meet the hydraulic requirements in accordance with VDOT and FHWA standards.

The proposed structure shall be designed to accommodate future ramp loads framed to the proposed structure. See the Technical Requirements for additional information.

Legend:

Denotes bridge boring locations

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
△2	Revised span length	12/18/20
△1	Revised general notes	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

GEORGETOWN PIKE OVER I-495 GENERAL PLAN AND ELEVATION

Designed: JRH	Date	Plan No.	Sheet No.
Drawn: LNM	Sept. 2020	XXX-XX	10 of 27
Checked: RN			

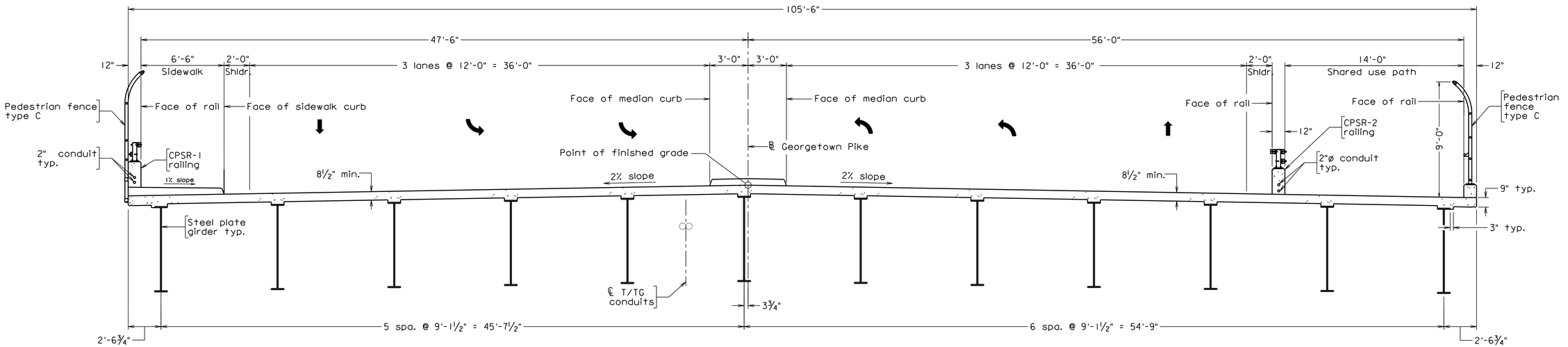
© 2020, Commonwealth of Virginia

Georgetown Pike_General Plan & Elevation.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	11

Note:

Sequence of construction is not shown.



TRANSVERSE SECTION

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

Scale: ¼" = 1'-0"

© 2020, Commonwealth of Virginia

No.	Description	Date
Revisions		

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

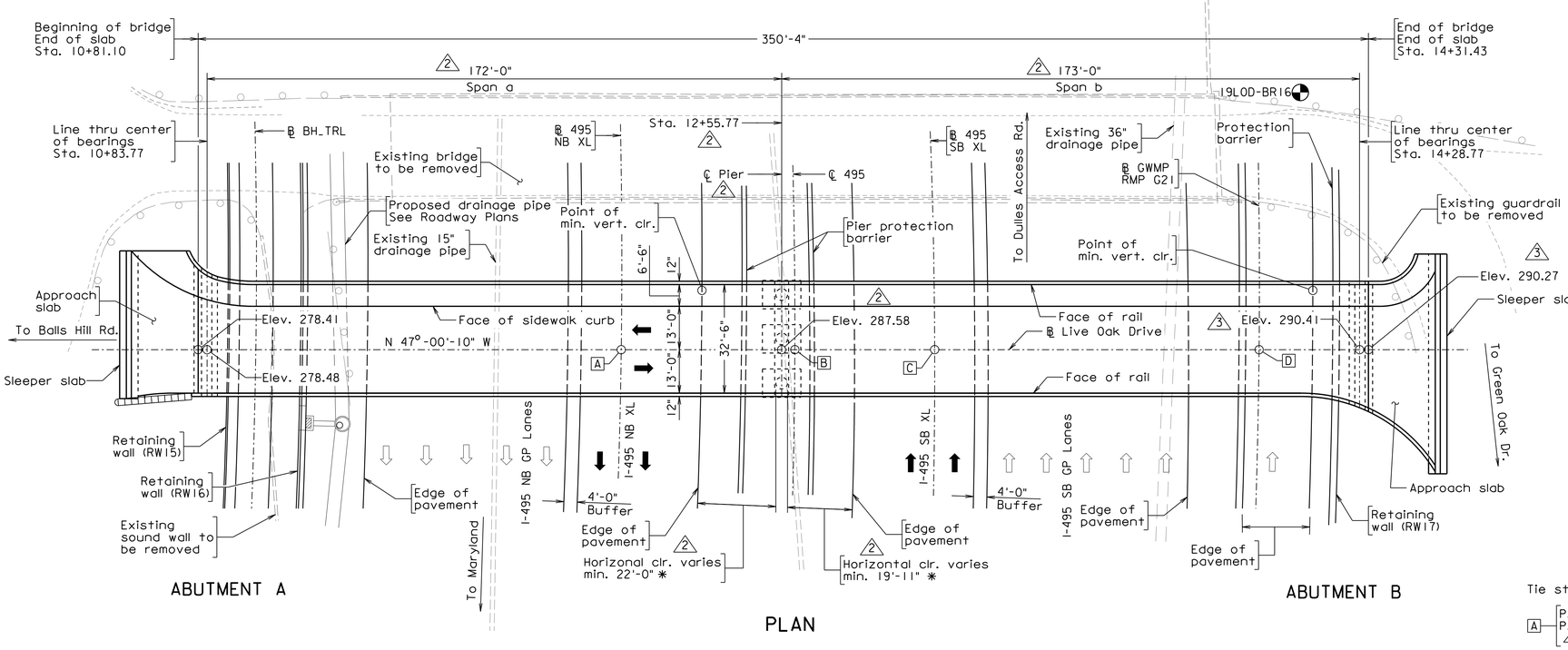
GEORGETOWN PIKE
OVER I-495
TRANSVERSE SECTION

Designed: JRM	Date	Plan No.	Sheet No.
Drawn: NA	Sept. 2020	XXX-XX	11 of 27
Checked: BN			

Georgetown Pike_Transverse Section.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	12

19LOD-BR15



ABUTMENT A

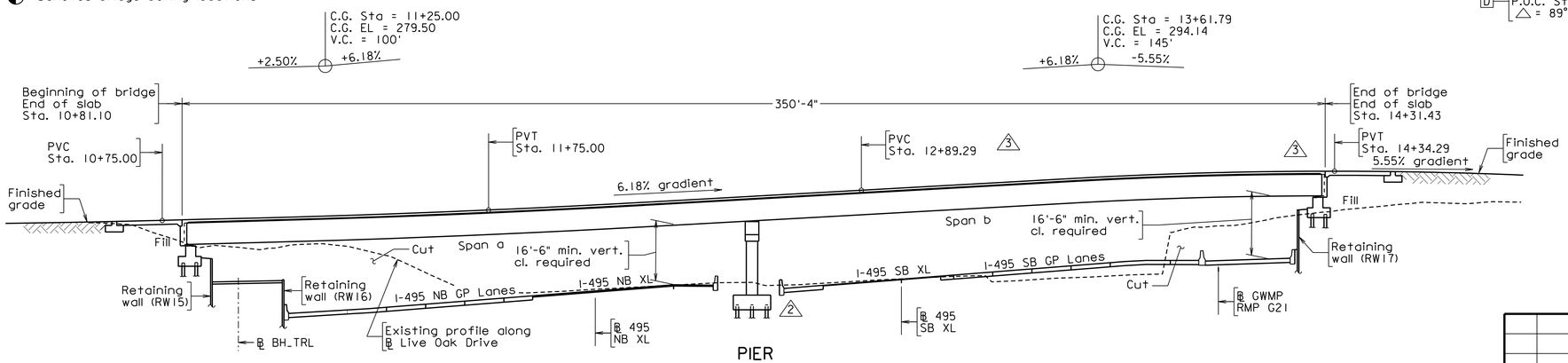
PLAN

ABUTMENT B

✳ Minimum horizontal clearances shown on these plans are based on conceptual substructure element dimensions. Final design may alter horizontal clearances within Department requirements

Legend:

Denotes bridge boring locations



ABUTMENT A

PIER

ABUTMENT B

DEVELOPED SECTION ALONG ℄

Scale: 1" = 20'-0"

© 2020, Commonwealth of Virginia

DESIGN EXCEPTION(S):

None

GENERAL NOTES:

Width: 6'-6" sidewalk, 26'-0" roadway. Overall width 32'-6" face-to-face of rails.

2 Span layout: 172'-0" - 173'-0", continuous steel plate girder spans

Capacity: HL-93 loading

Specifications:

1 Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

Bridge No. of existing bridge is 2056. plan No is 265-90.

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

Temporary support of excavation may be required for the construction of substructure units.

For wall details, see Retaining Wall plans.

For architectural treatment of structures, see the Project Technical Requirements.

For boring logs, see Geotechnical Data Report.

All available boring locations are shown in the plans. The remaining borings will be the responsibility of Design Build Contractor.

For bridge lighting, see Signing, Lighting, Pavement Marking Concept Plans roll plots.

Tie stations:

A — P.O.T. Sta. 12+07.75 ℄ Live Oak Dr.
P.O.C. Sta. 677+12.35 ℄ 495 NB XL
△ = 89°-13'-05" Lt.

B — P.O.T. Sta. 12+59.72 ℄ Live Oak Dr.
P.O.C. Sta. 1172+97.38 ℄ 495
△ = 89°-47'-02" Lt.

C — P.O.T. Sta. 13+01.58 ℄ Live Oak Dr.
P.O.C. Sta. 277+85.13 ℄ 495 SB XL
△ = 89°-50'-03" Rt.

D — P.O.T. Sta. 13+98.69 ℄ Live Oak Dr.
P.O.C. Sta. 26+29.41 ℄ GWMP RMP G21
△ = 89°-27'-19" Lt.

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
3	Revised roadway profile	03/09/21
2	Revised pier location	12/18/20
1	Revised general notes	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

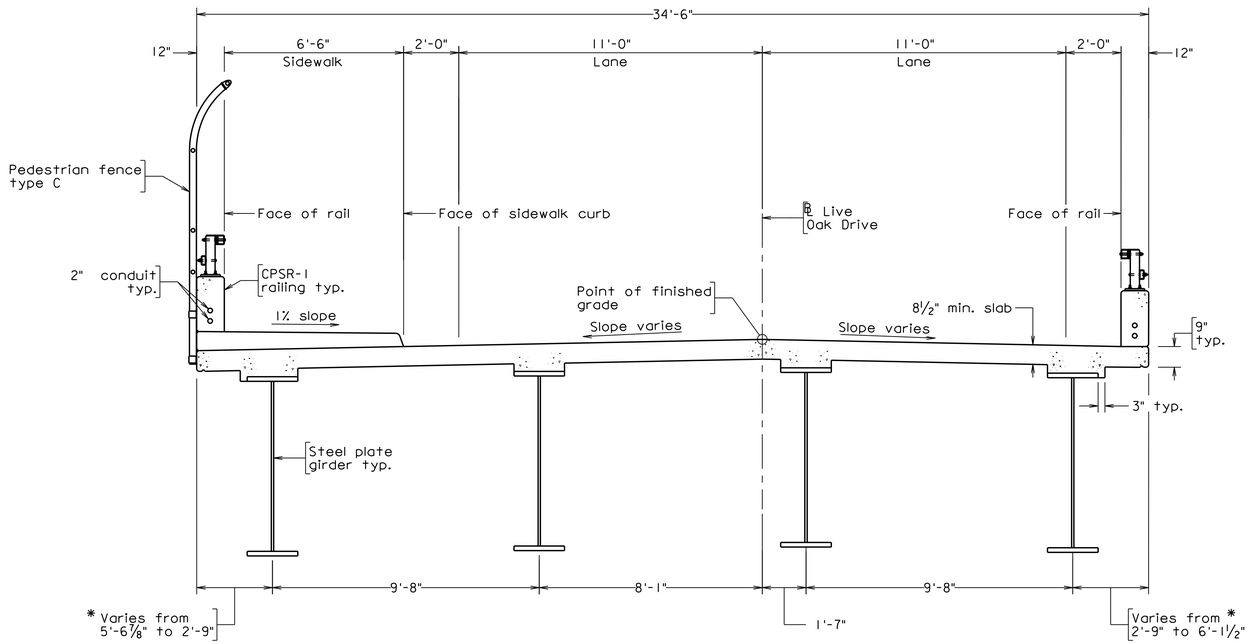
STRUCTURE AND BRIDGE DIVISION

LIVE OAK DRIVE OVER I-495 GENERAL PLAN AND ELEVATION

Designed: AE	Date	Plan No.	Sheet No.
Drawn: BN	Sept. 2020	XXX-XX	12 of 27
Checked: MCV			

Live Oak Drive_General Plan & Elevation.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	13



TRANSVERSE SECTION

Stringers not shown

* Additional stringers are required where the overhangs exceed 2'-9".

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

LIVE OAK DRIVE OVER I-495 TRANSVERSE SECTION

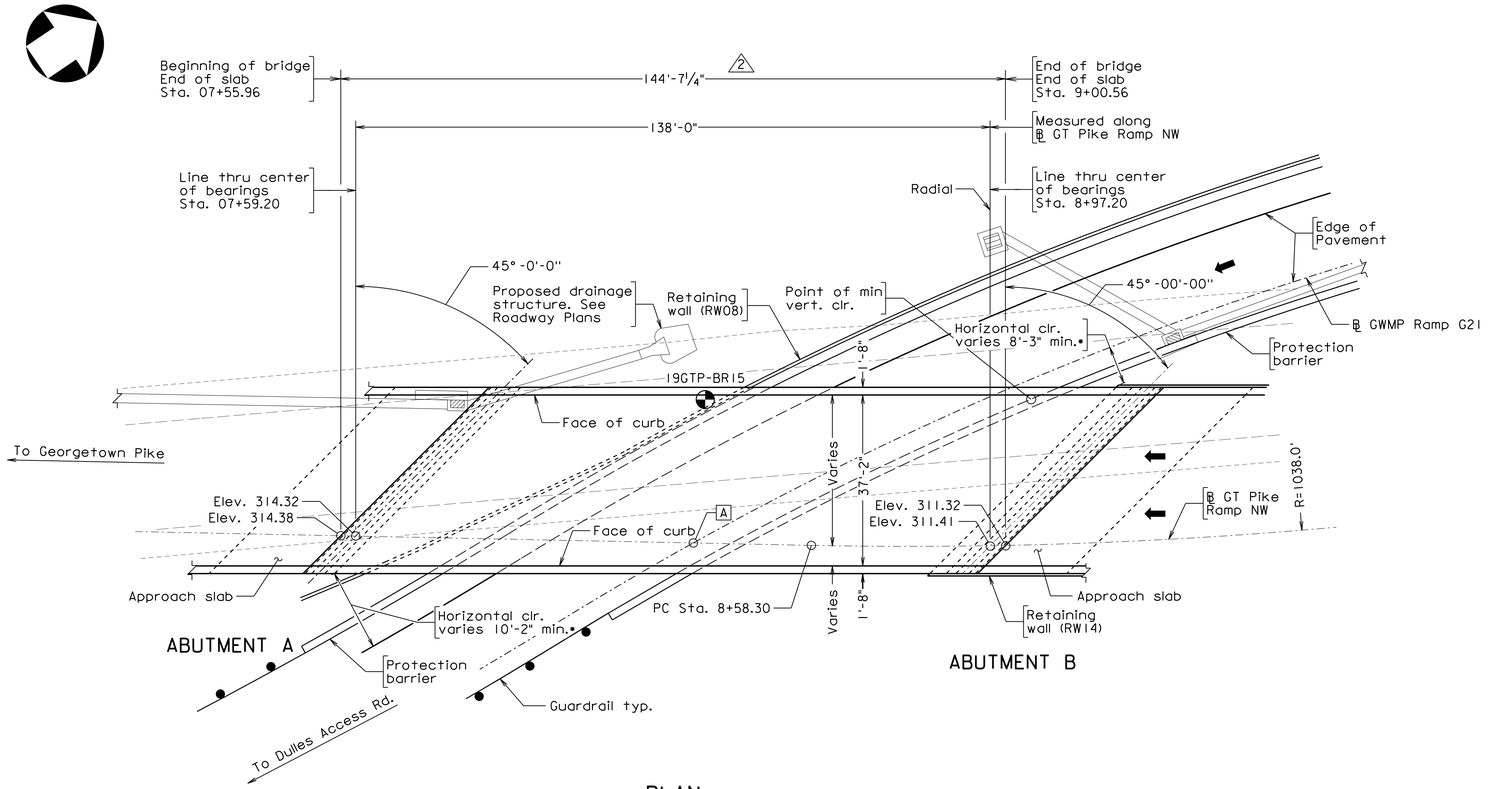
Designed: AF	Date	Plan No.	Sheet No.
Drawn: NA	Sept. 2020	XXX-XX	13 of 27
Checked: RN			

Scale: ⅜" = 1'-0"

© 2020. Commonwealth of Virginia

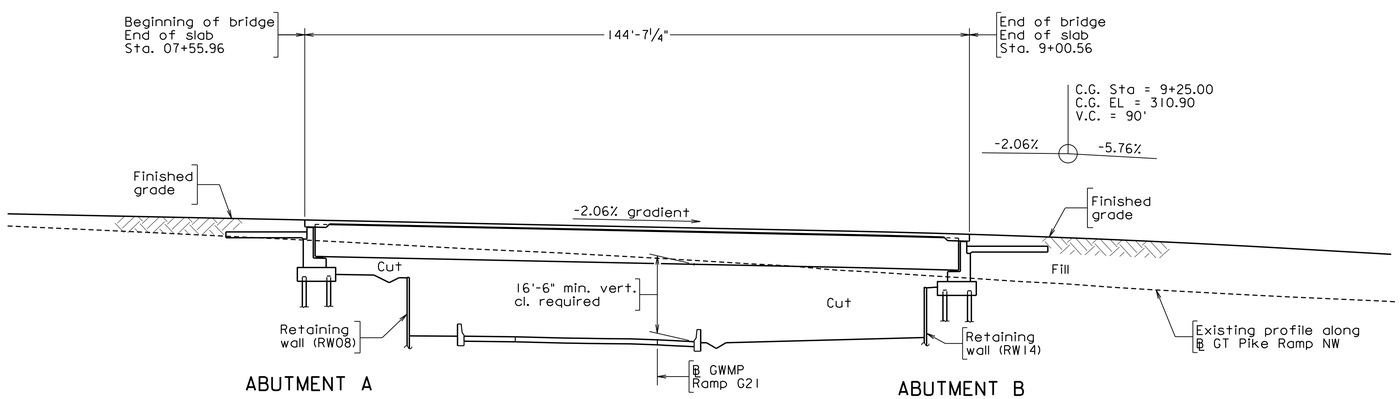
Live Oak Drive_Transverse Section.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	14



PLAN

- Minimum horizontal clearances shown on these plans are based on conceptual substructure element dimensions. Final design may alter horizontal clearances within Department requirements.



DEVELOPED SECTION ALONG ℄

DESIGN EXCEPTION(S):

None

GENERAL NOTES:

Width: 37'-2" face-to-face of curbs.

2 Span layout: 138', steel plate girder span

Capacity: HL-93 loading

Specifications:

1 Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

Temporary support of excavation may be required for the construction of substructure units.

For wall details, see Retaining Wall plans.

For architectural treatment of structures, see the Project Technical Requirements.

For boring logs, see Geotechnical Data Report.

All available boring locations are shown in the plans. The remaining borings will be the responsibility of Design Build Contractor.

For bridge lighting, see Signing, Lighting, Pavement Marking Concept Plans roll plots.

Legend:

Denotes bridge boring locations

Tie stations:

A — POC Sta. 08+32.62 ℄ GT Pike Ramp NW
POC Sta. 07+41.13 ℄ GWMP Ramp G21
△ = 30°-11'-15" Lt.

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
2	Revised bridge layout	12/18/20
1	Revised general notes	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

GEORGETOWN PIKE RAMP NW OVER GWMP TO 495 SB RAMP GENERAL PLAN AND ELEVATION

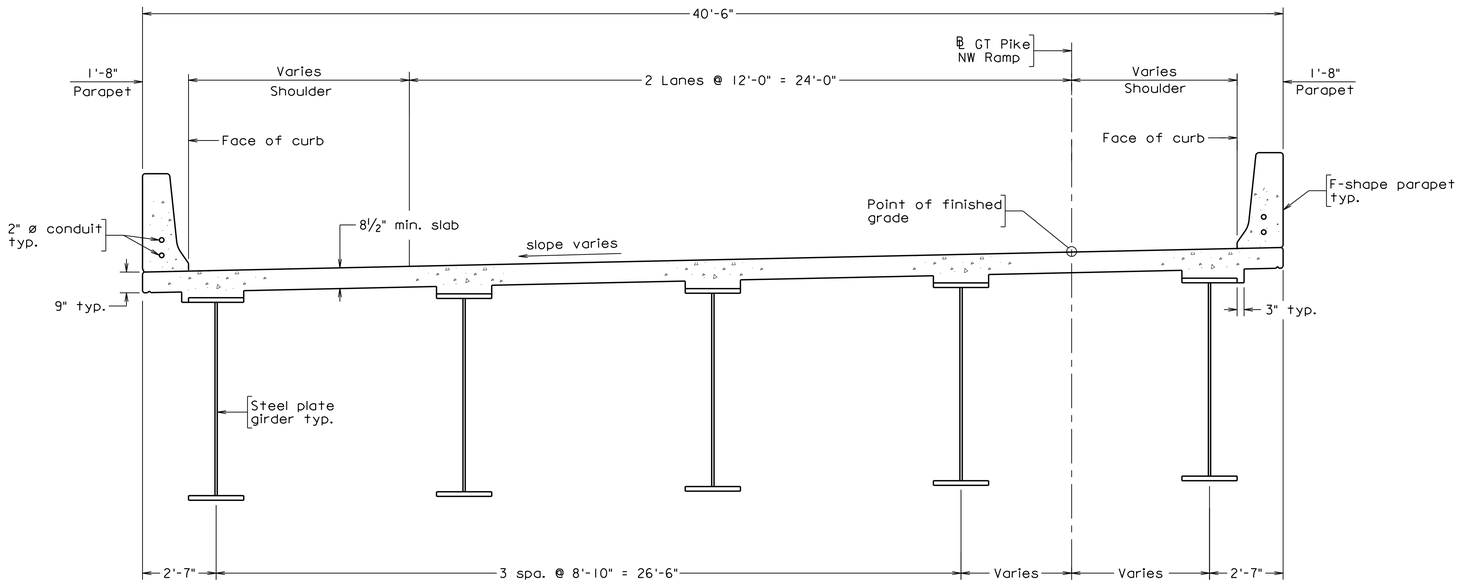
Designed: AKS	Date	Plan No.	Sheet No.
Drawn: NA	Sept. 2020	XXX-XX	14 of 27
Checked: RN			

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

© 2020, Commonwealth of Virginia

EXT-N4-GT Pike NW Ramp_General Plan & Elevation.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	15



TRANSVERSE SECTION

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

Scale: ⅜" = 1'-0"

©2020. Commonwealth of Virginia

No.	Description	Date
Revisions		

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

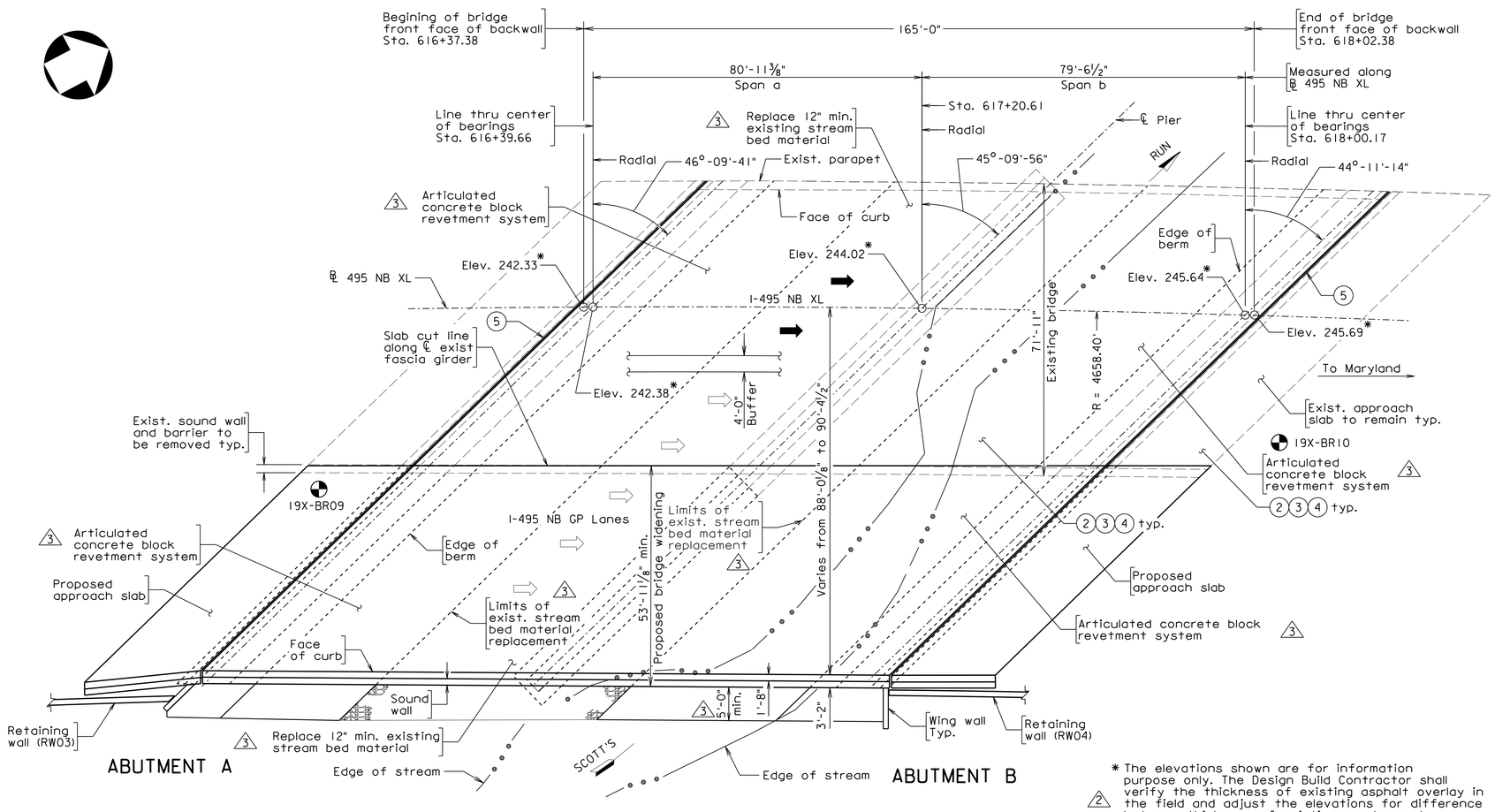
STRUCTURE AND BRIDGE DIVISION

GEORGETOWN PIKE RAMP NW
OVER GWMP TO 495 SB RAMP
TRANSVERSE SECTION

Designed: AKS	Date	Plan No.	Sheet No.
Drawn: NA	Sept. 2020	XXX-XX	15 of 27
Checked: RN			

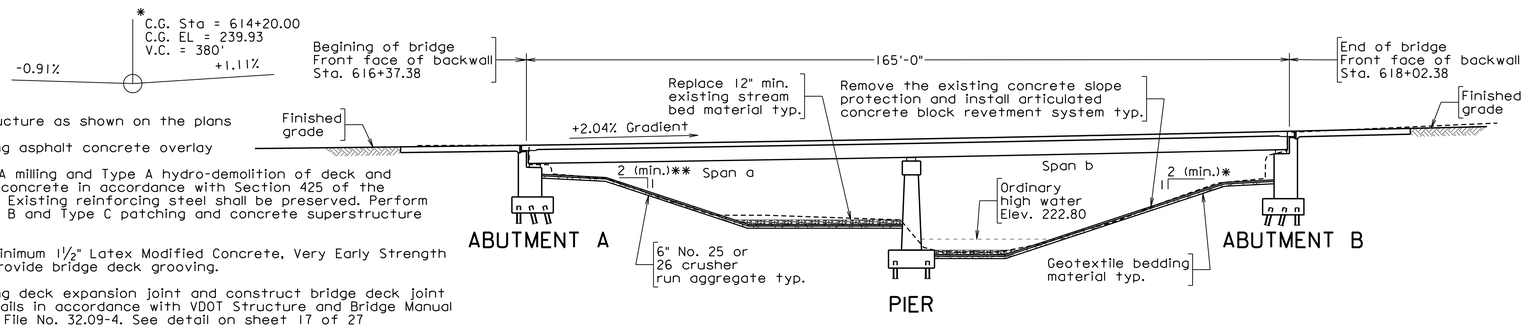
EXT-N4-GT Pike NW Ramp_Transverse Section.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	16



PLAN

* The elevations shown are for information purpose only. The Design Build Contractor shall verify the thickness of existing asphalt overlay in the field and adjust the elevations for difference between thickness of existing overlay and proposed concrete overlay. The approach roadway profile shall be adjusted accordingly.



** Normal to abutment

DEVELOPED SECTION ALONG ℄

Proposed abutments and pier shown

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

Scope of work:

1. Widen the structure as shown on the plans
2. Remove existing asphalt concrete overlay
3. Perform Type A milling and Type A hydro-demolition of deck and approach slab concrete in accordance with Section 425 of the specifications. Existing reinforcing steel shall be preserved. Perform potential Type B and Type C patching and concrete superstructure surface repair
4. Overlay with minimum 1½" Latex Modified Concrete, Very Early Strength (LMC-VE) and provide bridge deck grooving.
5. Remove existing deck expansion joint and construct bridge deck joint elimination details in accordance with VDOT Structure and Bridge Manual Vol. V, Part 2, File No. 32.09-4. See detail on sheet 17 of 27
6. Clean and paint beam abutment bearings and 5' at beam ends at abutments and spot paint at bottom flanges
7. Clean and paint all existing bearings at abutments
8. Perform Concrete Substructure Surface Repair and Crack Repair Type B at abutments and pier
9. Replace damaged and missing anchor bolts as directed by the Engineer and in accordance with the latest bridge inspection report.
10. Clean and wash existing abutments and pier.

DESIGN EXCEPTION(S):

None

GENERAL NOTES:

Width: 124'-6"± out-to-out. Includes widening of 53'-11⅛" min. on right of traffic.

Span layout: 80'-11⅜" - 79'-6½", continuous steel plate girder spans

Capacity: HL-93 loading

Specifications:

1 Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

Bridge No. of existing bridge is 2031. plan No is 138-25.

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

Temporary support of excavation may be required for the construction of substructure units.

For boring logs, see Geotechnical Data Report.

All available boring locations are shown in the plans. The remaining borings will be the responsibility of Design Build Contractor.

For wall details, see Retaining Wall plans.

For architectural treatment of structures, see the Project Technical Requirements.

For bridge lighting, see Signing, Lighting, Pavement Marking Concept Plans roll plots.

For stream channelization, see Roadway plans.

For beam end painting and substructue repair details, see sheet 26 of 27.

Superstructure and substructure concrete repair shall include Embedded Galvanic Anodes in accordance with VDOT Structure and Bridge Manual and VDOT Specifications.

See the Technical Requirement Document for additional repair items.

Legend:

◔ Denotes bridge boring locations

(2) Scope of work

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
3	Updated/added callouts	03/09/21
2	Updated notes	12/18/20
1	Revised general notes	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

I-495 NB OVER SCOTT'S RUN GENERAL PLAN AND ELEVATION

Designed: AE	Date	Plan No.	Sheet No.
Drawn: AE	Sept. 2020	XXX-XX	16 of 27
Checked: MCV			

© 2020, Commonwealth of Virginia

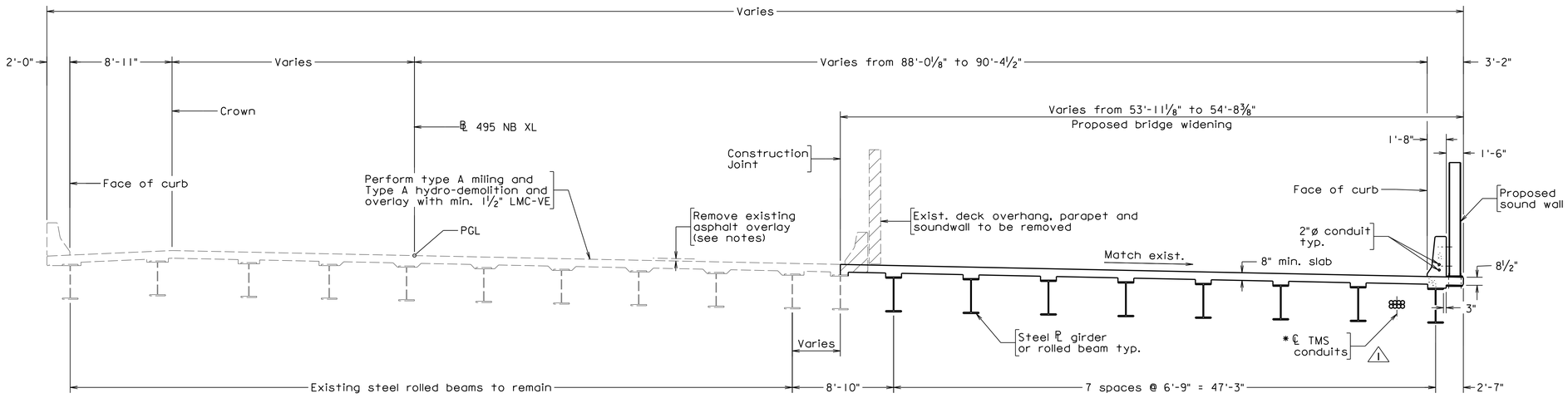
EXT-WI_I495 NB Over Scotts Run_001.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	17

Note:

The Design Build Contractor shall shift traffic to the widening side for deck joint closure and concrete overlay work.

The Design Build Contractor shall verify the thickness of existing asphalt overlay in the field.

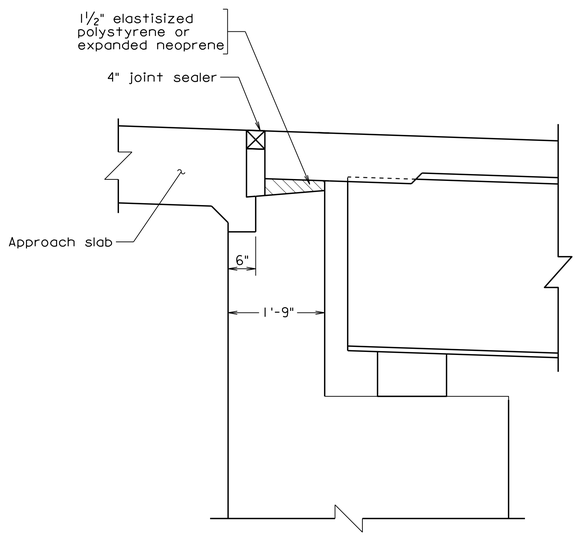


1 * Design Build Contractor shall utilize VDOT "BCLC" series details and final details will be subject to approval by Concessionaire.

Legend:

Removal

TRANSVERSE SECTION



* Abutment section at widening area shown. Existing abutment detail is similar. Existing deck joint elimination is similar and shall be in accordance to Virginia Micro Abutment Details. Very Early Strength Concrete (VESC) may be utilized for existing joint closure.

BRIDGE DECK JOINT ELIMINATION DETAIL*

Scale: 3/4" = 1'-0"
Reinforcing steel not shown

Scale: 3/16" = 1'-0"

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
1	TMS conduits added	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

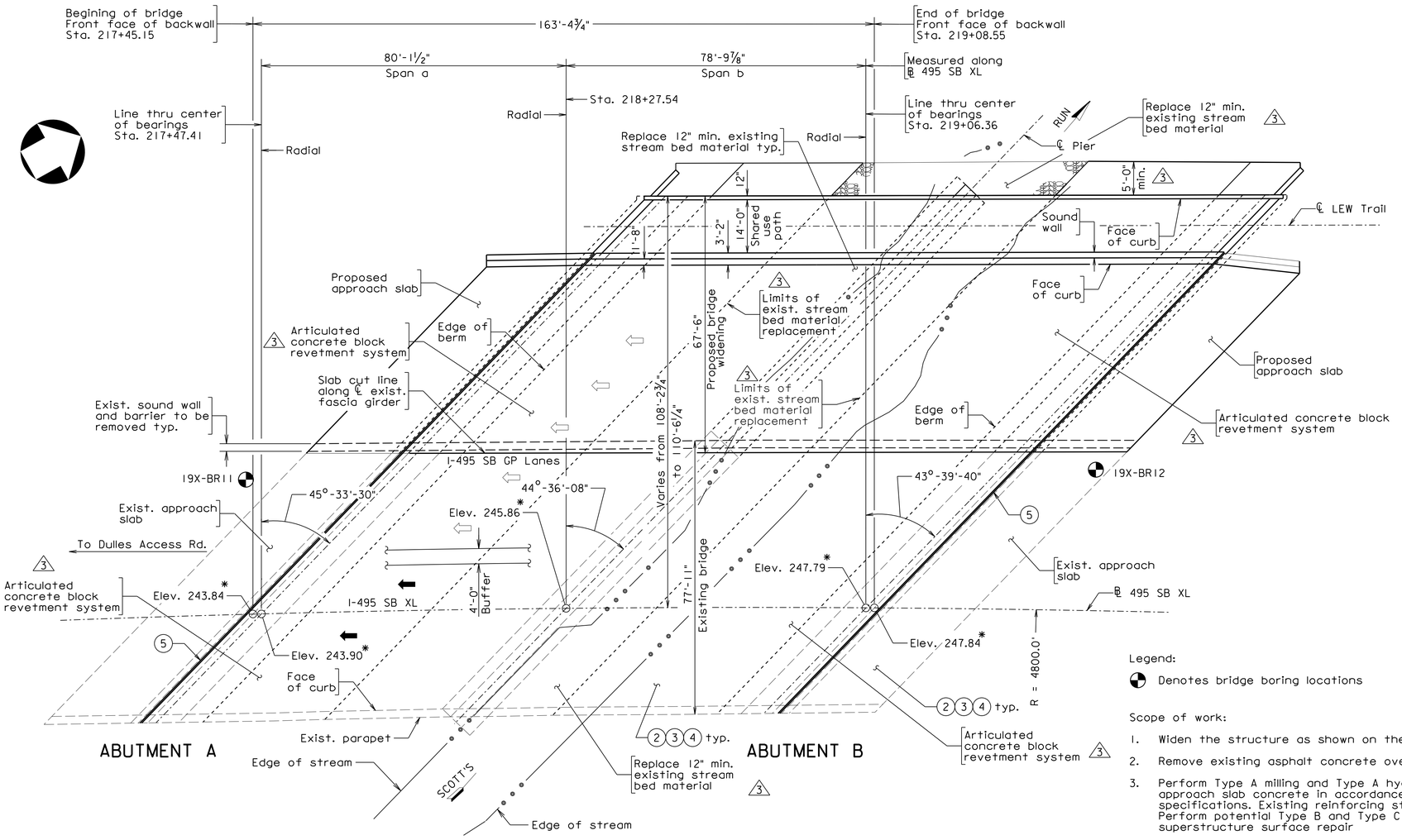
I-495 NB OVER SCOTT'S RUN
TRANSVERSE SECTION

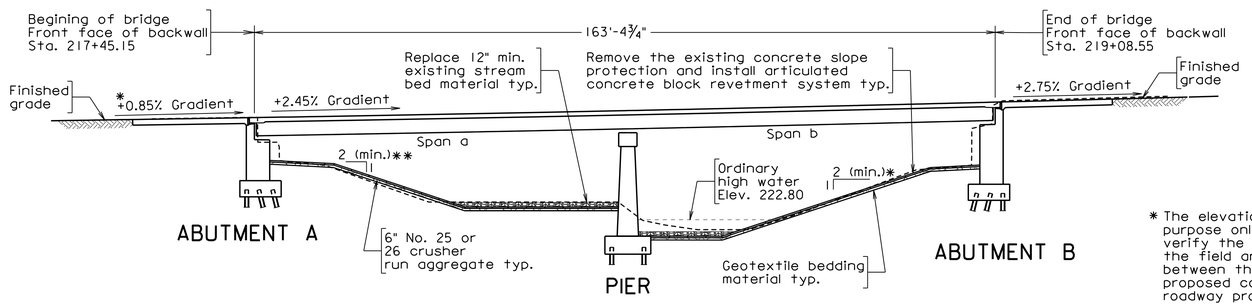
Designed: AE	Date	Plan No.	Sheet No.
Drawn: AE	Sept. 2020	XXX-XX	17 of 27
Checked: RN			

© 2020, Commonwealth of Virginia

EXT-WI_I495 NB Over Scotts Run_002.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	18





DEVELOPED SECTION ALONG ℄
Proposed abutments and pier shown

* The elevations shown are for information purpose only. The Design Build Contractor shall verify the thickness of existing asphalt overlay in the field and adjust the elevations for difference between thickness of existing overlay and proposed concrete overlay. The approach roadway profile shall be adjusted accordingly.

** Normal to abutment

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

© 2020. Commonwealth of Virginia

DESIGN EXCEPTION(S):

None

GENERAL NOTES:

Width: 135'-10" min. Includes widening of 67'-6" on right of traffic.

Span layout: 80'-1½" - 78'-9⅞", continuous steel plate girder or rolled beam spans

Capacity: HL-93 loading

Specifications:

1 Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

Bridge No. of existing bridge is 2031. plan No is 138-25.

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

Temporary support of excavation may be required for the construction of substructure units.

For boring logs, see Geotechnical Data Report.

All available boring locations are shown in the plans. The remaining borings will be the responsibility of Design Build Contractor.

For bridge lighting, see Signing, Lighting, Pavement Marking Concept Plans roll plots.

For stream channelization, see Roadway plans.

For wall details, see Retaining Wall plans.

For architectural treatment of structures, see the Project Technical Requirements.

For beam end painting and substructure repair details, See sheet 26 of 27.

Superstructure and substructure concrete repair shall include Embedded Galvanic Anodes in accordance with VDOT Structure and Bridge Manual and VDOT Specifications.

See the Technical Requirement Document for additional repair items.

Legend:

Denotes bridge boring locations

Scope of work:

1. Widen the structure as shown on the plans
2. Remove existing asphalt concrete overlay
3. Perform Type A milling and Type A hydro-demolition of deck and approach slab concrete in accordance with Section 425 of the specifications. Existing reinforcing steel shall be preserved. Perform potential Type B and Type C patching and concrete superstructure surface repair
4. Overlay with minimum 1½" Latex Modified Concrete, Very Early Strength (LMC-VE) and provide bridge deck grooving.
5. Remove existing deck expansion joint and construct bridge deck joint elimination details in accordance with VDOT Structure and Bridge Manual Vol. V, Part 2, File No. 32.09-4. See detail on sheet 19 of 27
6. Clean and paint beam abutment bearings and 5' at beam ends at abutments and spot paint at bottom flanges
7. Clean and paint all existing bearings at abutments
8. Perform Concrete Substructure Surface Repair and Crack Repair Type B at abutments and pier
9. Replace damaged and missing anchor bolts as directed by the Engineer and in accordance with the latest bridge inspection report.
10. Clean and wash existing abutments and pier.

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
3	Updated/added callouts	03/09/21
1	Revised general notes	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

I-495 SB OVER SCOTT'S RUN GENERAL PLAN AND ELEVATION

Designed: AE	Date	Plan No.	Sheet No.
Drawn: AE	Sept. 2020	XXX-XX	18 of 27
Checked: MCV			

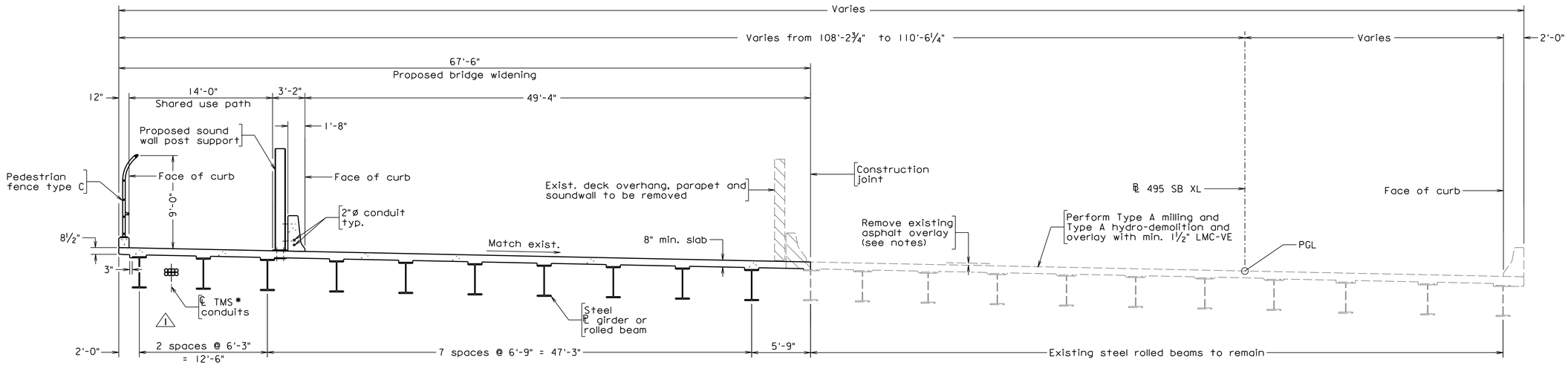
EXT-W2_I495 SB Over Scotts Run_001.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	19

Note:

The Design Build Contractor shall shift traffic to the widening side for deck joint closure and concrete overlay work.

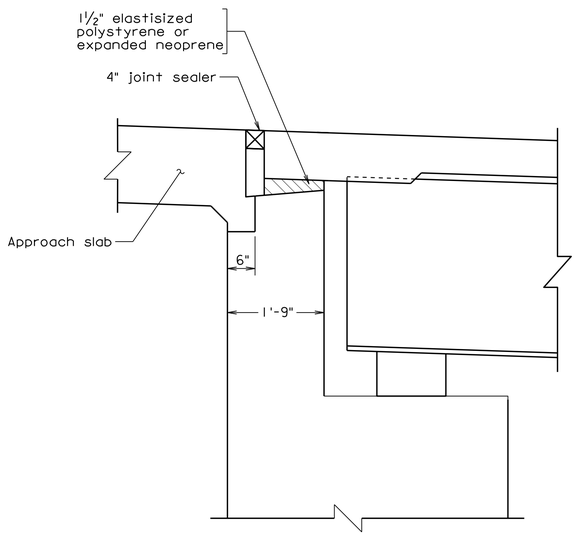
The Design Build Contractor shall verify the thickness of existing asphalt overlay in the field.



⚠1 * Design Build Contractor shall utilize VDOT "BCLC" series details and final details will be subject to approval by Concessionaire.

TRANSVERSE SECTION

Scale: 3/16" = 1'-0"



BRIDGE DECK JOINT ELIMINATION DETAIL*

Scale: 3/4" = 1'-0"
Reinforcing steel not shown

Legend:

Removal

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
⚠1	TMS conduits added	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

I-495 SB OVER SCOTT'S RUN
TRANSVERSE SECTION

Designed: AE
Drawn: AE
Checked: RN

Date	Plan No.	Sheet No.
Sept. 2020	XXX-XX	19 of 27

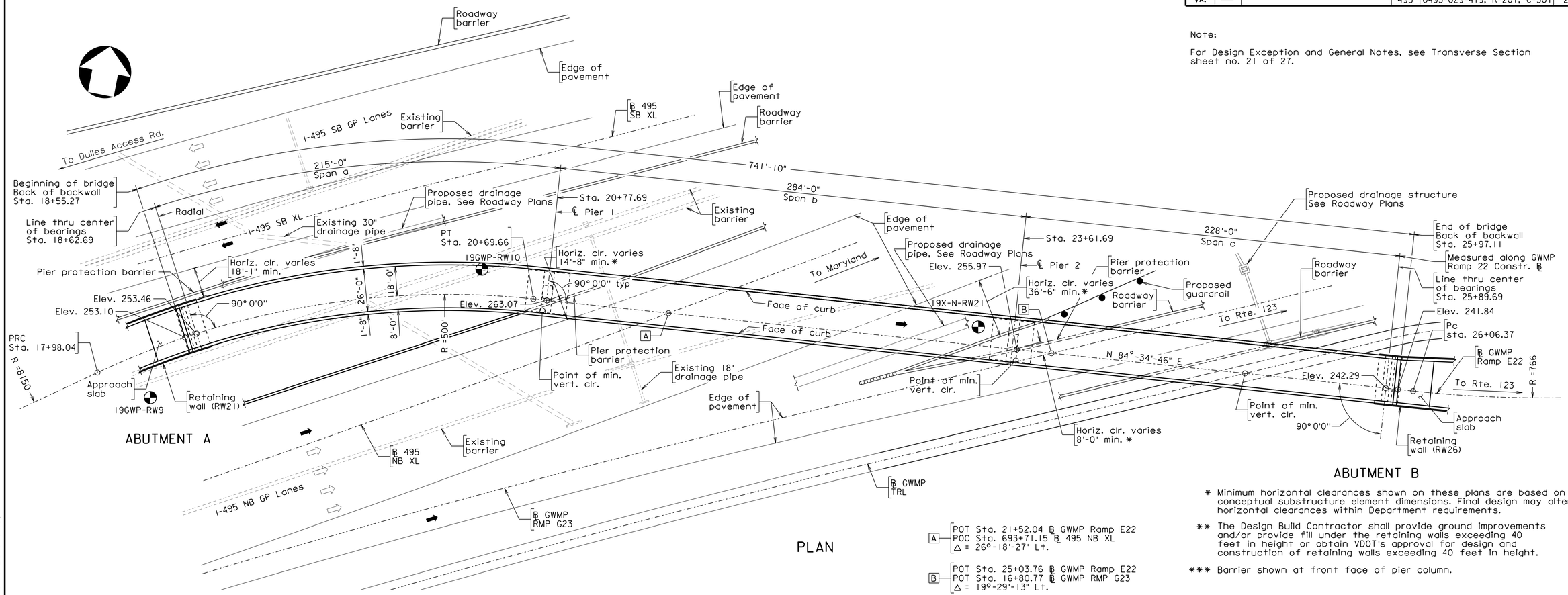
© 2020, Commonwealth of Virginia

EXT-WZ_I495 SB Over Scotts Run_002.dgn

STATE	FEDERAL AID		STATE		SHEET
	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.	—		495	0495-029-419, R-201, C-501	20

Note:

For Design Exception and General Notes, see Transverse Section sheet no. 21 of 27.



PLAN

A — POT Sta. 21+52.04 ℄ GWMP Ramp E22
POC Sta. 693+71.15 ℄ 495 NB XL
△ = 26°-18'-27" Lt.

B — POT Sta. 25+03.76 ℄ GWMP Ramp E22
POT Sta. 16+80.77 ℄ GWMP RMP G23
△ = 19°-29'-13" Lt.

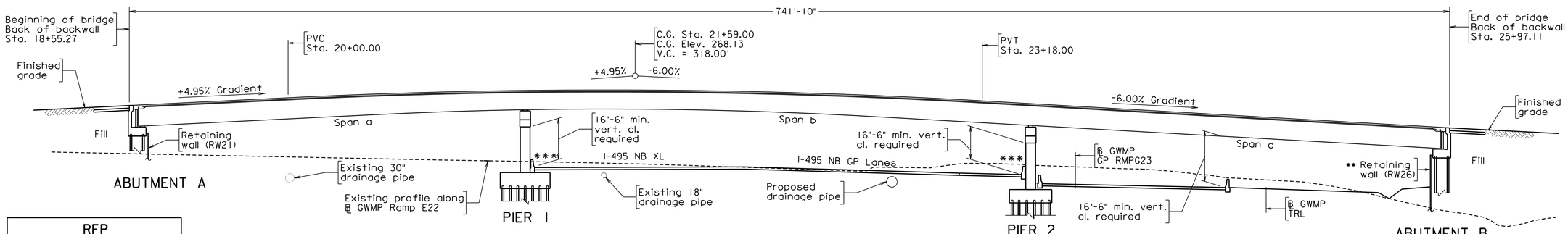
* Minimum horizontal clearances shown on these plans are based on conceptual substructure element dimensions. Final design may alter horizontal clearances within Department requirements.

** The Design Build Contractor shall provide ground improvements and/or provide fill under the retaining walls exceeding 40 feet in height or obtain VDOT's approval for design and construction of retaining walls exceeding 40 feet in height.

*** Barrier shown at front face of pier column.

Legend:

Denotes bridge boring locations



DEVELOPED SECTION ALONG ℄

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

Scale: 1"=30'

© 2020. Commonwealth of Virginia

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

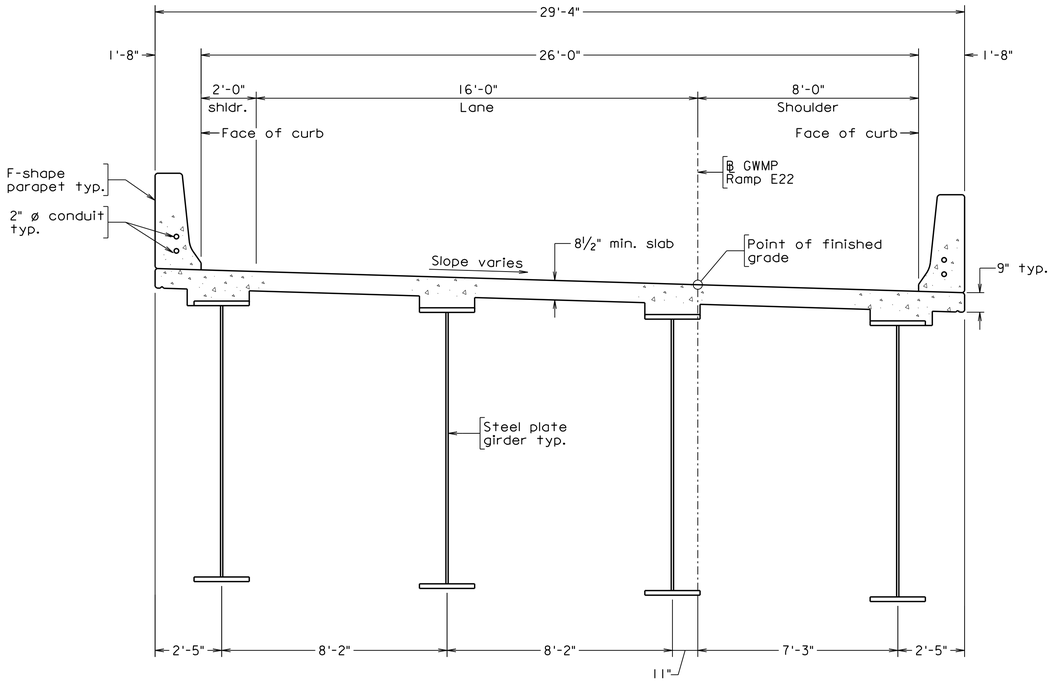
GEORGE WASHINGTON MEMORIAL PARKWAY
Ramp E22 OVER I-495
GENERAL PLAN AND ELEVATION

Designed: AE
Drawn: NA
Checked: PC

Date	Plan No.	Sheet No.
Sept. 2020	XXX-XX	20 of 27

GWMP Ramp E22_General Plan & Elevation.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	21



TRANSVERSE SECTION

DESIGN EXCEPTION(S):

None

GENERAL NOTES:

Width: 24'-0" face-to-face of curbs.

Span layout: 215' - 284' - 228', continuous steel plate girder spans

Capacity: HL-93 loading.

Specifications:

1 Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

Temporary support of excavation may be required for the construction of substructure units.

For wall details, see Retaining Wall plans.

For architectural treatment of structures, see the Project Technical Requirements.

For boring logs, see Geotechnical Data Report.

All available boring locations are shown in the plans. The remaining borings will be the responsibility of Design Build Contractor.

For bridge lighting, see Signing, Lighting, Pavement Marking Concept Plans roll plots.

Deck drainage system is required for this structure based on hydraulic analysis. Deck drainage system shall be designed by Design Build Contractor to meet the hydraulic requirements in accordance with VDOT and FHWA standards.

Design Build Contractor shall investigate the need for temporary wind bracing during construction.

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
1	Revised general notes	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY
RAMP E22 OVER I-495
TRANSVERSE SECTION

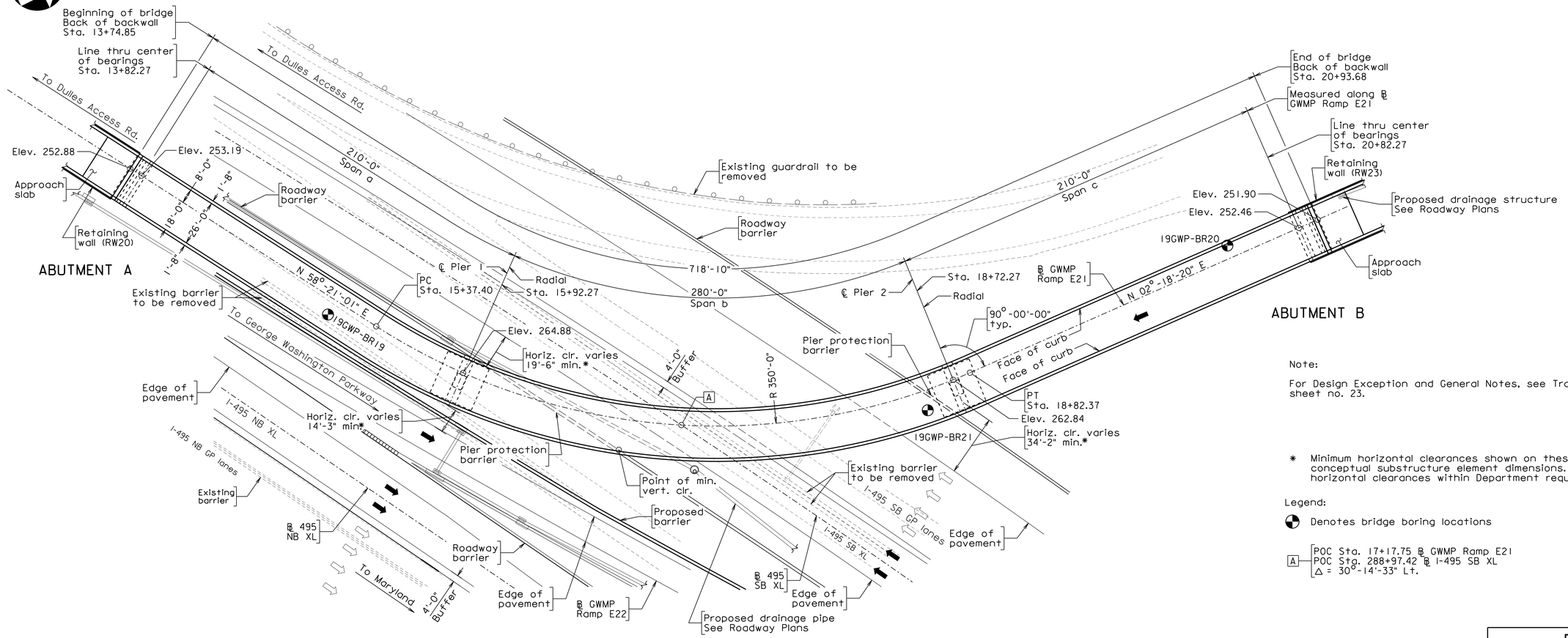
Designed: AF	Date	Plan No.	Sheet No.
Drawn: NA	Sept. 2020	XXX-XX	21 of 27
Checked: PC			

Scale: ⅜" = 1'-0"

©2020, Commonwealth of Virginia

GWMP Ramp E22_Transverse Section.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	22



Note:

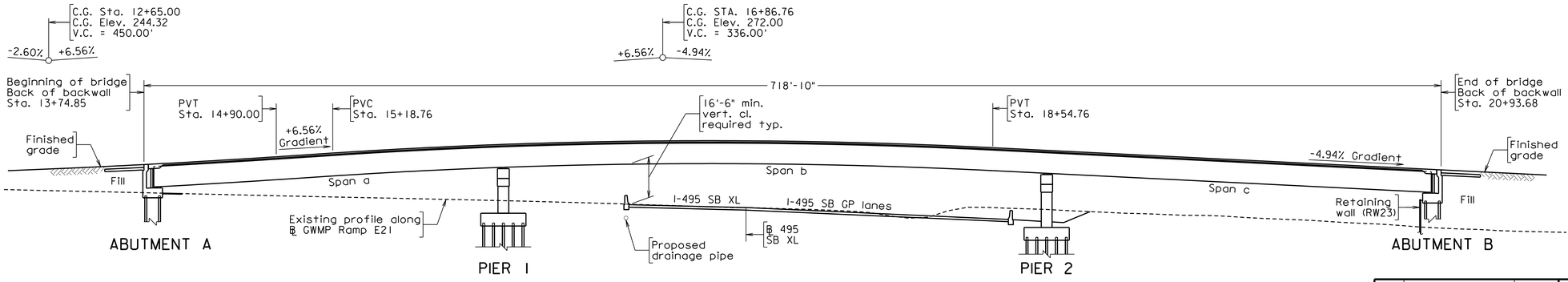
For Design Exception and General Notes, see Transverse Section sheet no. 23.

* Minimum horizontal clearances shown on these plans are based on conceptual substructure element dimensions. Final design may alter horizontal clearances within Department requirements.

Legend:

◐ Denotes bridge boring locations

[A] POC Sta. 17+17.75 ℄ GWMP Ramp E21
POC Sta. 288+97.42 ℄ I-495 SB XL
△ = 30°-14'-33" Lt.



DEVELOPED SECTION ALONG ℄

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY
RAMP E21 OVER I-495 SB
GENERAL PLAN AND ELEVATION

Designed: AE
Drawn: NA
Checked: PC

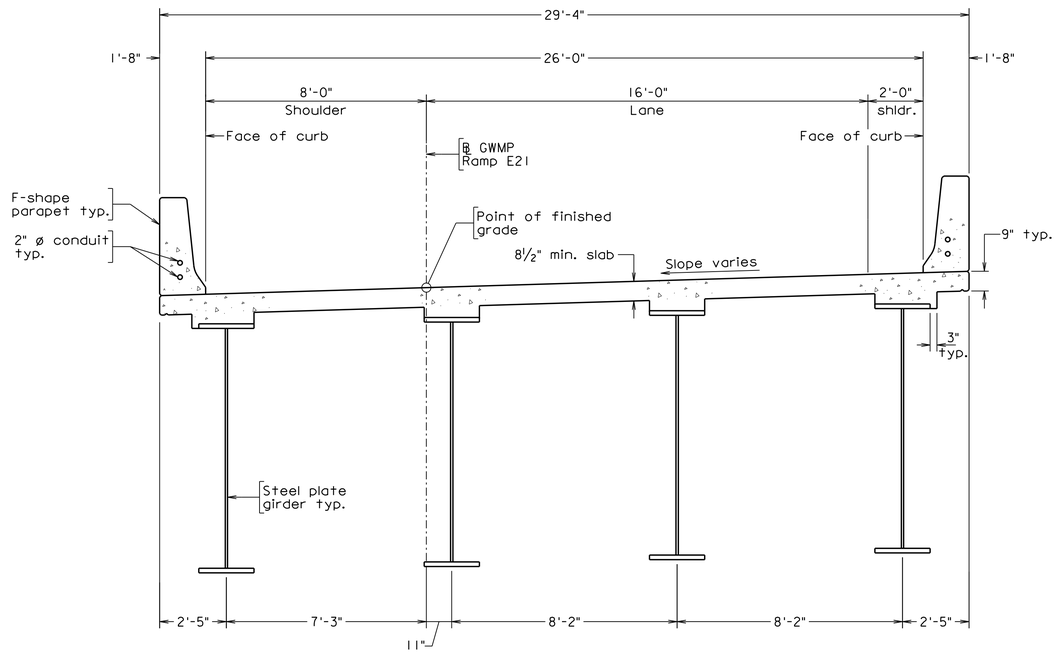
Date	Plan No.	Sheet No.
Sept. 2020	XXX-XX	22 of 27

Scale: 1"=30'

©2020. Commonwealth of Virginia

GWMP Ramp E21_General Plan & Elevation.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	23



TRANSVERSE SECTION

Scale: ⅜" = 1'-0"

DESIGN EXCEPTION(S):

None

GENERAL NOTES:

Width: 26'-0" face-to-face of curbs.

Span layout: 210' - 280' - 210', continuous steel plate girder spans

Capacity: HL-93 loading.

Specifications:

1 Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

Temporary support of excavation may be required for the construction of substructure units.

For wall details, see Retaining Wall plans.

For architectural treatment of structures, see the Project Technical Requirements.

For boring logs, see Geotechnical Data Report.

All available boring locations are shown in the plans. The remaining borings will be the responsibility of Design Build Contractor.

Deck drainage system may be required for this structure. Deck drainage system shall be designed by Design Build Contractor to meet the hydraulic requirements in accordance with VDOT and FHWA standards.

For bridge lighting, see Signing, Lighting, Pavement Marking Concept Plans roll plots.

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
1	Revised general notes	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY
RAMP E21 OVER I-495 SB
TRANSVERSE SECTION

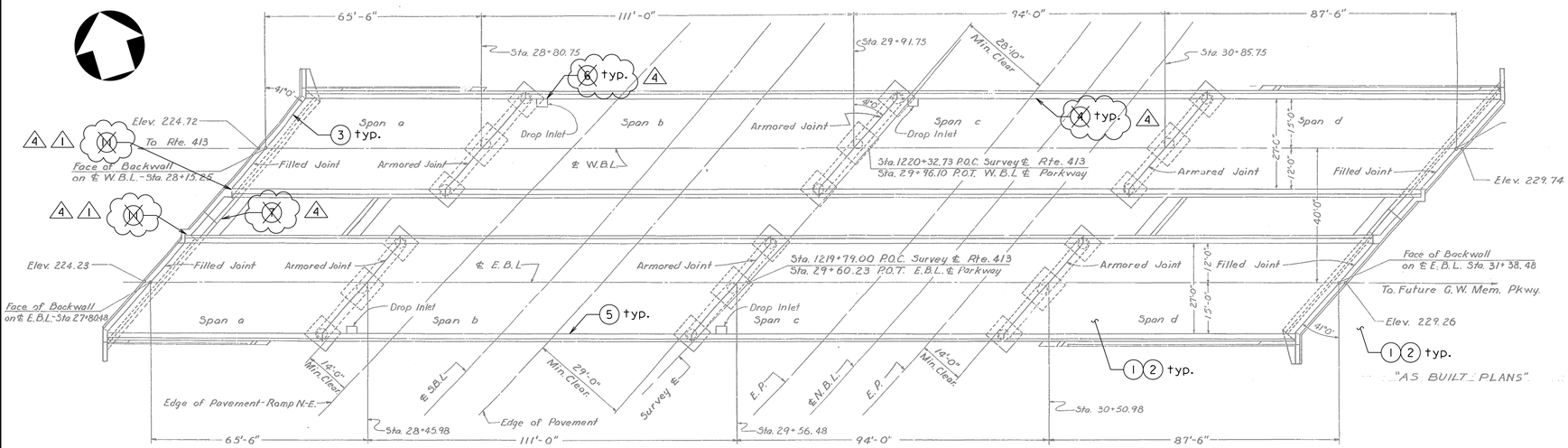
Designed: AE
Drawn: NA
Checked: EC

Date	Plan No.	Sheet No.
Sept. 2020	XXX-XX	23 of 27

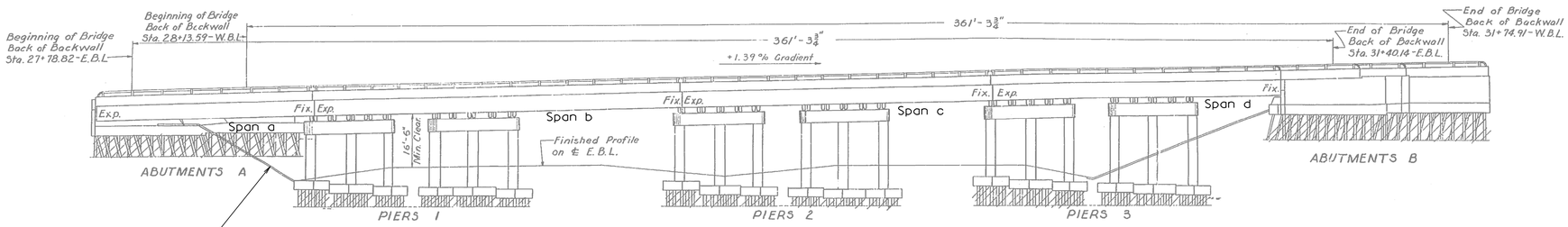
© 2020. Commonwealth of Virginia

GWMP Ramp E21_Transverse Section.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	24



PLAN



ELEVATION

DESIGN EXCEPTION(S):

None.

GENERAL NOTES:

Width: 27'-0" face-to-face of curbs. Twin structures.

Span layout: 65'-6" - 111'-0" - 94'-0" - 87'-6", steel girder simple spans

Capacity: HS 20-44 loading. HL-93 for bridge repairs

Specifications:

1 Construction: Virginia Department of Transportation Road and Bridge Specifications, 2020.

Design: AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

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

The existing plan and elevation drawings (shown in light gray) are taken from the as-built bridge plans and are intended for information purposes only. Dimensions, stations and elevations may vary from current field conditions.

Bridge Nos. of existing bridges are 5002 and 5003. Plan No. is 152-04.

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

Bid items related to Bridge Maintenance of Traffic are not included with bridge quantities.

Any protection shield placed over I-495 shall not reduce the existing vertical clearance.

4 ~~Superstructure and substructure concrete repair shall include Embedded Galvanic Anodes in accordance with VDOT Structure and Bridge Manual and VDOT Specifications.~~

See the Technical Requirement Document for additional repair items.

Scope of work:

1. Perform Type B patching at deteriorated area of deck and approach slab. Perform Type C patching of deck and approach slab concrete (minimum 25 feet on each side) in accordance with Section 412 of the specifications.
2. Apply epoxy overlay after completion of all superstructure repairs.
3. Re-seal expansion joints at abutments with adhesive based joint sealer Class I.
4. ~~Perform concrete superstructure surface repairs and seal cracks in curbs/parapets.~~
5. Replace damaged rail post and replace missing rail post nuts.
6. ~~Replace deteriorated drainage pipes and assemblies as part of deck drainage assembly replacement.~~

Scope of work (continued):

7. ~~Install HR-1 handrail over Abutment A backwall.~~
8. Perform Concrete Substructure Surface Repair ~~and Crack Repair Type B~~ at abutments and piers.
9. Perform superstructure steel repair.
10. ~~Clean and paint beam ends and bearings.~~
11. ~~Provide fixed object attachment for new guardrail attachment to existing bridge parapet.~~
12. ~~Clean and wash existing abutments and pier.~~
13. Remove vegetation and unclog deck drains.

4 1

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

Not to scale

© 2020. Commonwealth of Virginia

No.	Description	Date
	Revisions	
4	Revised scope of work	04/06/21
1	Revised scope of work/general notes	11/13/20

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

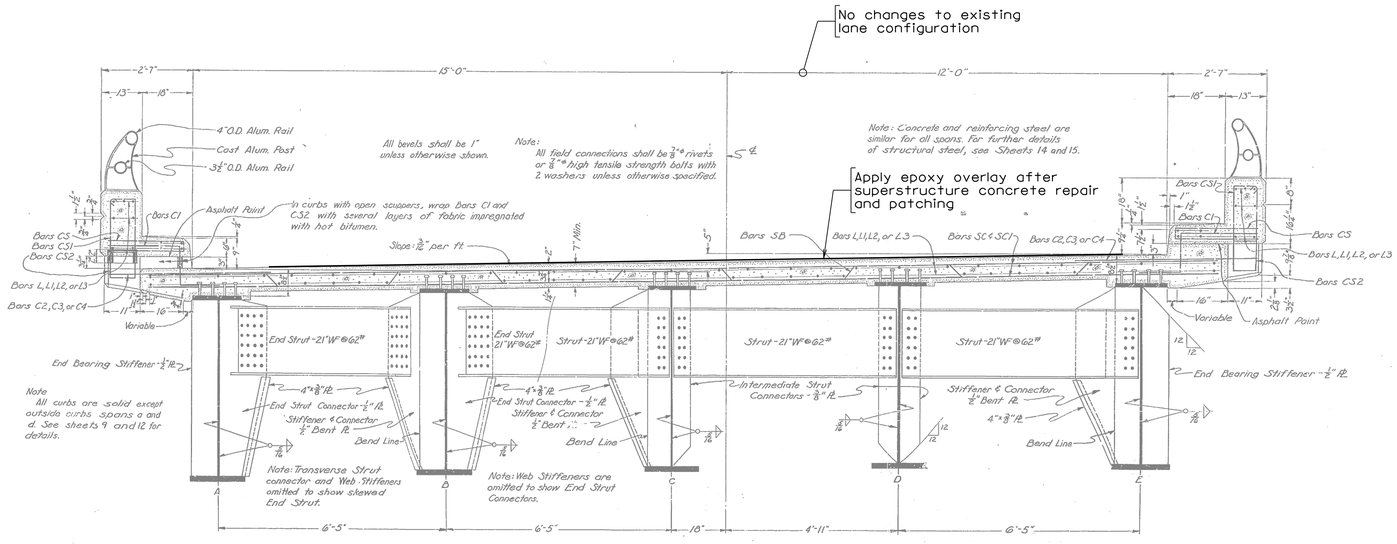
STRUCTURE AND BRIDGE DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY OVER I-495 GENERAL PLAN AND ELEVATION

Designed: RE	Date	Plan No.	Sheet No.
Drawn: RE			
Checked: RN	Sept. 2020	XXX-XX	24 of 27

George Washington Parkway_General Plan & Elevation.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	25



EXISTING TRANSVERSE SECTION

Repair notes (continued):

Superstructure steel repair shall be completed prior to deck repair.

Superstructure steel repair shall include replacing all missing bearing anchor bolt nuts and repair and retrofit of bearing stiffeners and web plates with section loss equal or exceeding ⅛" including:
- Web repair at EBL Bridge, Span C, Pier 3, Beam 5
- Web repair at EBL Bridge, Span D, Pier 3, Beam 5
- Bearing stiffener repair at EBL Bridge, Span D, Pier 3, Beam 2
- Bearing stiffener repair at WBL Bridge, Span C, Beam 2
- Bearing stiffener repair at WBL Bridge, Span D, Beam 3
- Bearing stiffeners and web repair at WBL Bridge, Span D, Pier 3, Beam 5

The Design Build Contractor shall submit the superstructure steel repair details and calculations to the Engineer for review. Details and calculations shall include jacking and blocking and temporary protection as necessary and shall be signed and sealed by a Professional Engineer registered in the Commonwealth of Virginia. Miscellaneous repairs shall be incidental to superstructure steel repair, including but not limited to securing the hanging utility conduit at WBL Bridge, Span 2 overhang, and grind smoothing the damaged tooth joint at EBL Bridge at Pier 1. All superstructure steel repair shall be included in beam end repair pay item.

~~To install~~ HR-1 handrail over Abutment A backwall, the ~~Design Build~~ Contractor ~~shall locate~~ the existing ~~reinforcing steel~~ in the backwall between two bridges and ~~drill and grout~~ the railing anchor bolts in the backwall to clear ~~the existing~~ reinforcing ~~steel~~. HR-1 Type 1 handrail ~~is acceptable~~. HR-1 handrail shall be in accordance ~~with VDOT~~ Road and Bridge Standards. (4)

Repair notes:

The existing transverse section drawing (shown in light gray) is taken from the as-built bridge plans and is intended for information purposes only. Dimensions, stations, and elevations may vary from current field conditions.

Existing reinforcing steel exposed during demolition shall be prepared in accordance with Section 412 of the Specifications.

Approach slabs to match existing cross slope.

(4) Patching of the deck and approach slab ~~and superstructure concrete repair~~ shall be performed in accordance with Section 412 of the Specifications. The Design Build Contractor shall provide inspection access for the Engineer to sound the concrete and locate and mark deteriorated areas for superstructure concrete repair and crack repair.

(1) The Design Build Contractor shall design and provide temporary shield to prevent falling debris over traffic during patching the deck. Temporary shield shall also include any support or shield required for painting the bridge and concrete repair.

(4) ~~Clean and paint end 5 feet of existing steel superstructure at each side of the joints. Paint shall include girders, diaphragms, connection plates, cover plates, and bolts. Surface preperation~~ and ~~coating shall be done in accordance with Section 411 of the Specifications.~~

Concrete Substructure Surface Repair ~~and Crack Repair Type B~~ shall be performed in accordance with Section 412 of the Specifications. The Design Build Contractor shall provide inspection access for the Engineer to sound the concrete and locate and mark deteriorated areas for surface ~~and crack~~ repair. This repair shall include temporary support and jacking and blocking at bearing pedestals as necessary.

The Design Build Contractor shall clear all bridge deck scuppers ~~and remove and replace the drainage pipes. The Design Build Contractor may utilize the existing holes in the pier caps and connect the new pipes to the side of the piers. Black steel pipe or PVC pipes may be utilized. The Design Build Contractor shall submit the details of the drainage replacement pipes to the Engineer for review and approval.~~

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
4	Revised scope of work	04/06/21
1	Revised repair notes	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY OVER I-495 TRANSVERSE SECTION AND REPAIR DETAILS

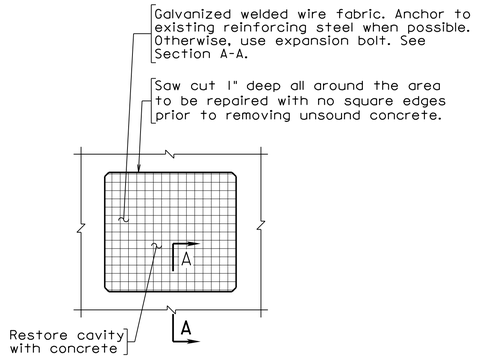
Designed: BE	Date	Plan No.	Sheet No.
Drawn: BE	Sept. 2020	XXX-XX	25 of 27
Checked: BN			

Not to scale

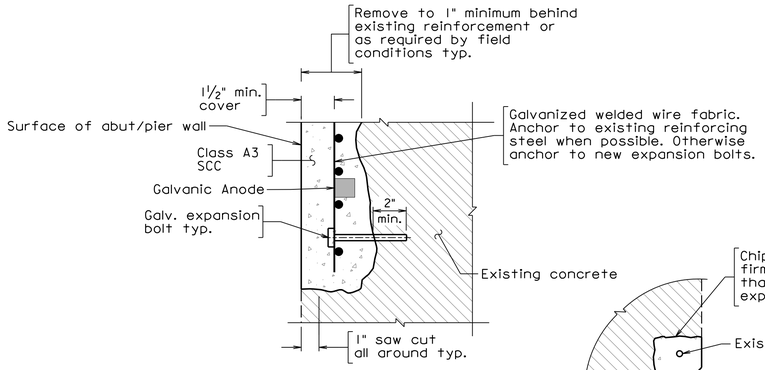
©2020. Commonwealth of Virginia

George Washington Parkway_Transverse Section.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	26

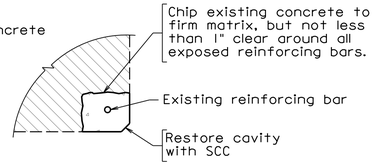


DETERIORATED AREAS ON WALLS



SECTION A-A

SUBSTRUCTURE REPAIR DETAILS



DETERIORATED CORNER OF WALL

Notes:

Substructure surface repairs shall be performed in accordance with Section 412 of the Specifications.

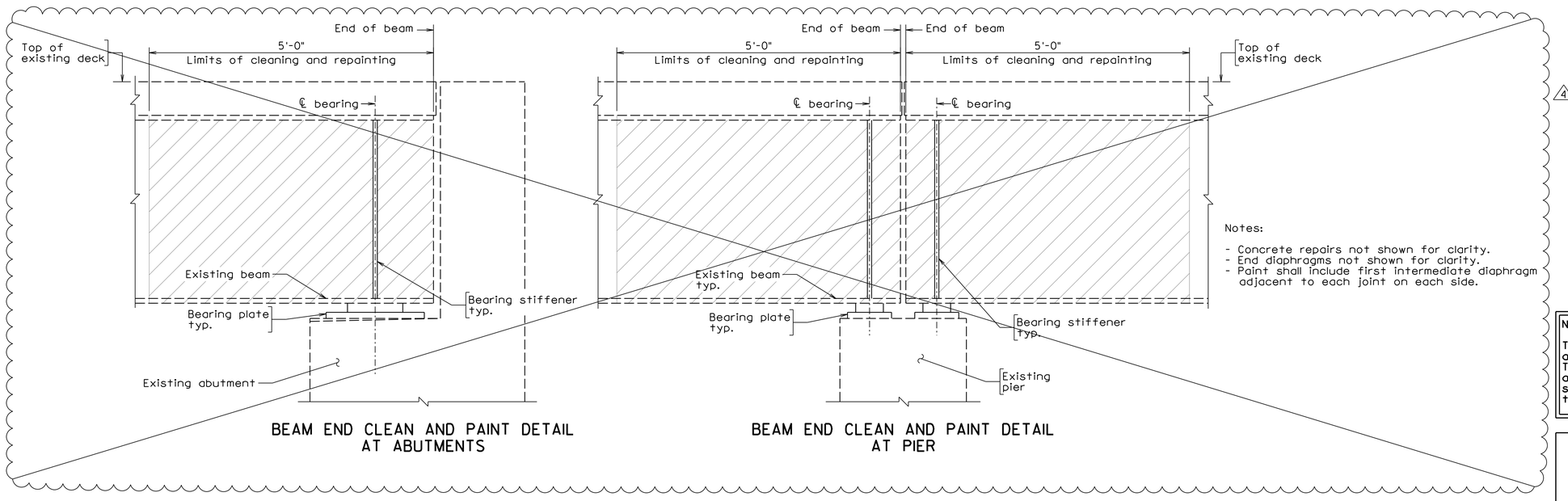
△4 △1 ~~Clean and paint end 5 ft. of existing steel superstructure including diaphragms, connection plates, stiffeners, cover plates, and bolts. Surface preparation and coating shall be done in accordance with Section 411 of the Specifications.~~

Legend:

~~Clean and paint beam ends~~ △4

Existing concrete to remain

Unsound concrete to be removed



BEAM END CLEAN AND PAINT DETAIL AT ABUTMENTS

BEAM END CLEAN AND PAINT DETAIL AT PIER

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

Not to scale

©2020. Commonwealth of Virginia

No.	Description	Date
△4	Revised scope of work	04/06/21
△1	Revised notes	11/13/20

Revisions

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

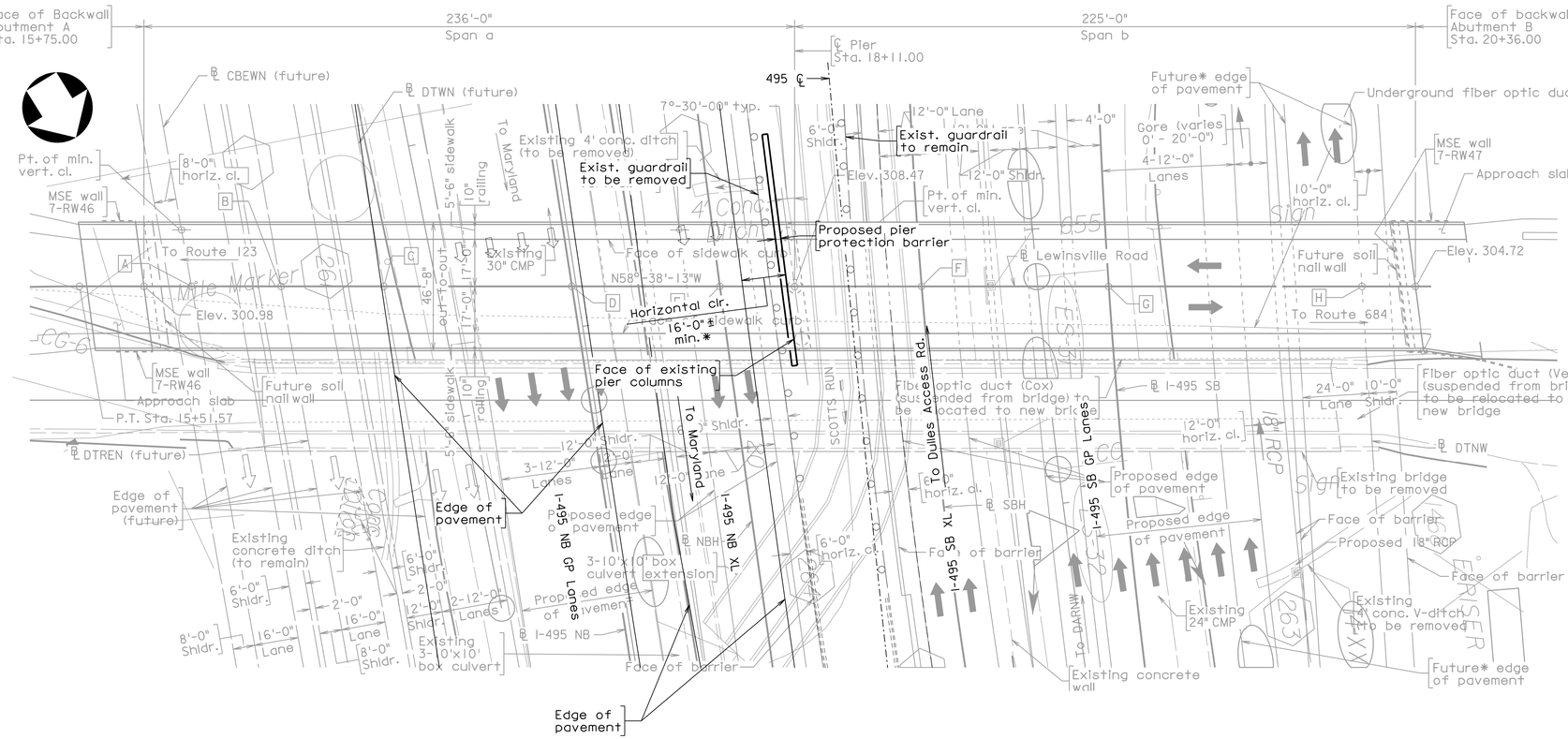
STRUCTURE AND BRIDGE DIVISION

GEORGE WASHINGTON MEMORIAL PARKWAY OVER I-495 BRIDGE REPAIR DETAILS

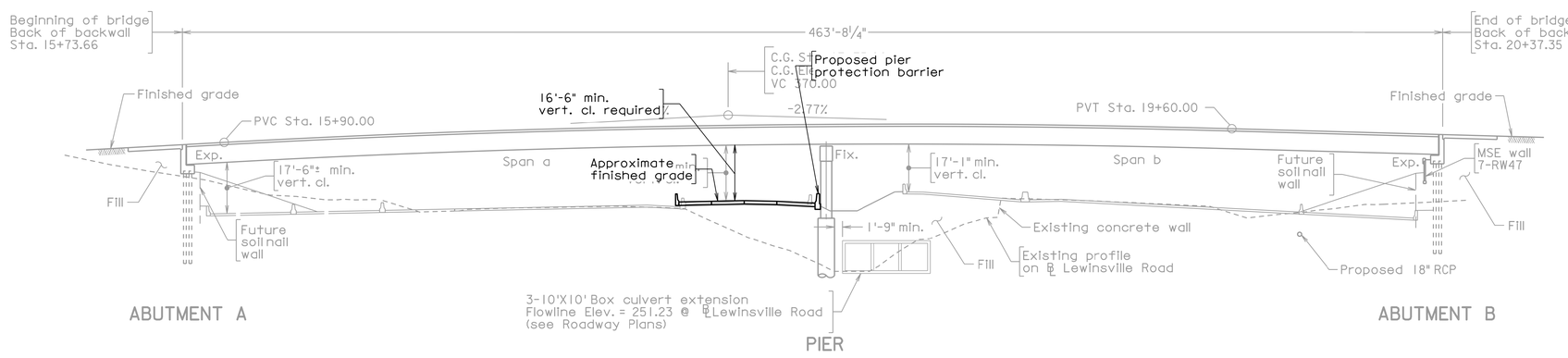
Designed: BN	Date	Plan No.	Sheet No.
Drawn: BN	Sept. 2020	XXX-XX	26 of 27
Checked: BE			

George Washington Parkway_Bridge Repair Details.dgn

STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		495	0495-029-419, R-201, C-501	27



PLAN



ELEVATION

Not to scale

© 2020, Commonwealth of Virginia

GENERAL NOTES:

The bridge plan and elevation details provided herein are intended to show approximate horizontal and vertical clearances of the proposed Express Lane at this structure. The existing plan and elevation drawings (shown in light gray) are taken from the as-built bridge plans and are intended for information purposes only. Dimensions, stations and elevations may vary from current field conditions.

Horizontal/vertical clearances and lane configurations of I-495 NBL, SBL, and Express Lanes at this structure will match existing condition.

Existing pier columns shall be protected by standard VDOT Bridge Pier Protection System (BPPS Standards) at locations shown in accordance with the Project Technical Requirements. Extents of the pier protection system(s) beyond the existing pier columns shall be designed by the Design-Builder in accordance with the Technical Requirements.

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

* Minimum horizontal clearances shown on these plans are based on conceptual roadway alignment. Final design may alter horizontal clearances within Department requirements.

RFP
CONCEPTUAL PLANS
REVISION NO. 4
DATE: 04/06/2021

Note to Offerors:

These plans depict the approximate location and a concept of the proposed structure. The bridge geometrics, span lengths, type and size of superstructure members and substructure elements and maintenance of traffic are to be developed by the Offeror.

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

No.	Description	Date
	Revisions	

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

STRUCTURE AND BRIDGE DIVISION

LEWINSVILLE RD. OVER I-495 GENERAL PLAN AND ELEVATION

Designed: BN	Date	Plan No.	Sheet No.
Drawn: BN			
Checked: MM	Sept. 2020	XXX-XX	27 of 27

NB 495 under Lewinsville Road_General Plan & Elevation.dgn

495 Express Lanes Northern Extension (NEXT)

RFP Conceptual Plan - Dulles Toll Road Interchange

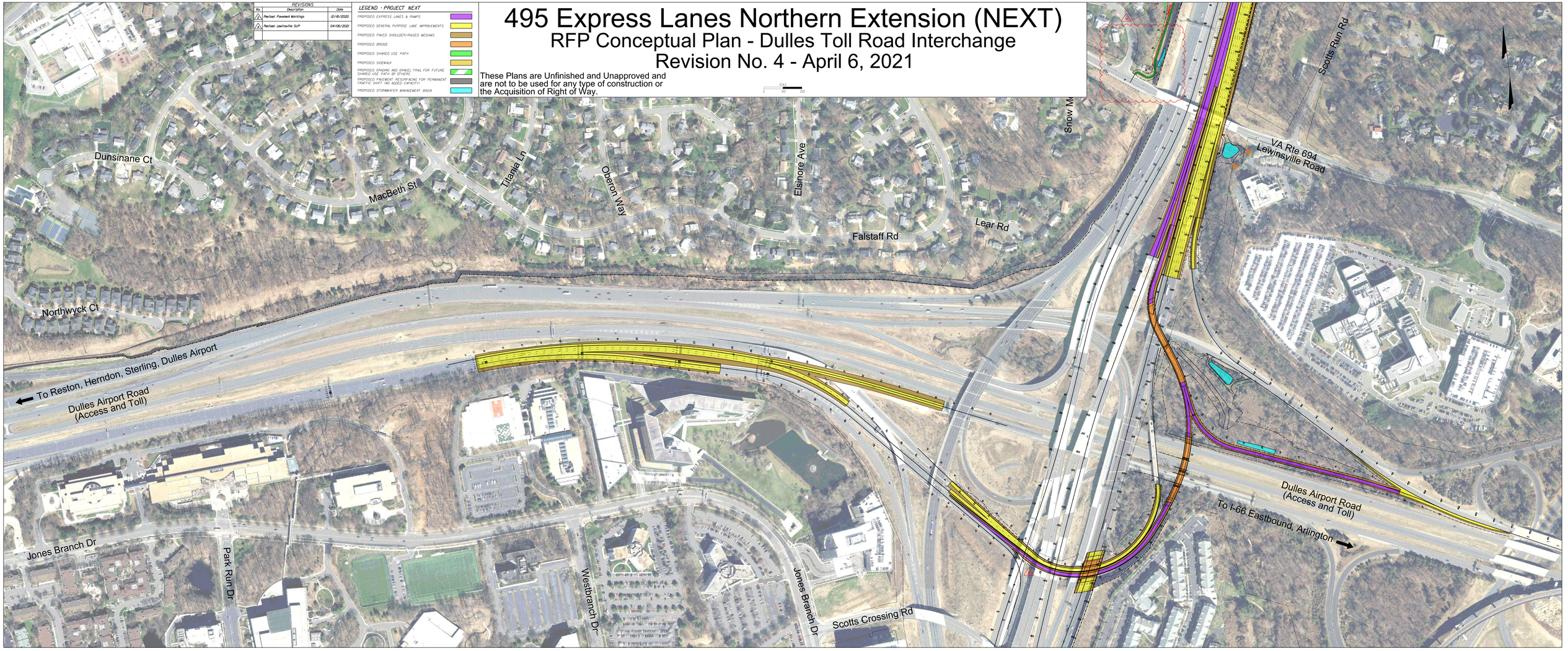
Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

REVISIONS		
No.	Description	Date
3	Revised Pavement Markings	12/18/2020
4	Revised Lewinsville SUP	04/06/2021

LEGEND - PROJECT NEXT

- PROPOSED EXPRESS LANES & RAMPS
- PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PROPOSED PAVED SHOULDER/RAISED MEDIANS
- PROPOSED BRIDGE
- PROPOSED SHARED USE PATH
- PROPOSED SIDEWALK
- PROPOSED GRADING AND GRAVEL TRAIL FOR FUTURE SHARED USE PATH BY OTHERS
- PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- PROPOSED STORMWATER MANAGEMENT BASIN



495 Express Lanes Northern Extension (NEXT)

RFP Conceptual Plan - 495 Express Lanes Extension

Revision No. 4 - April 6, 2021

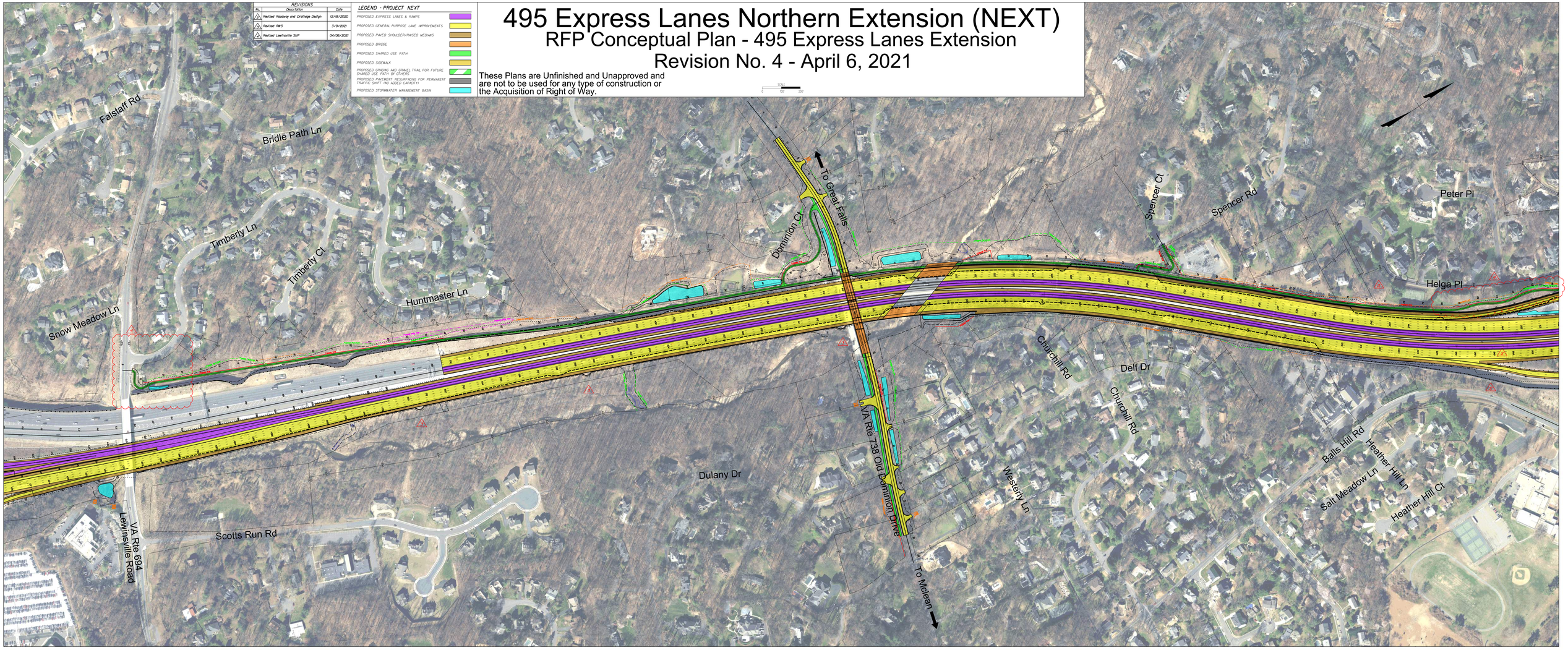
These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

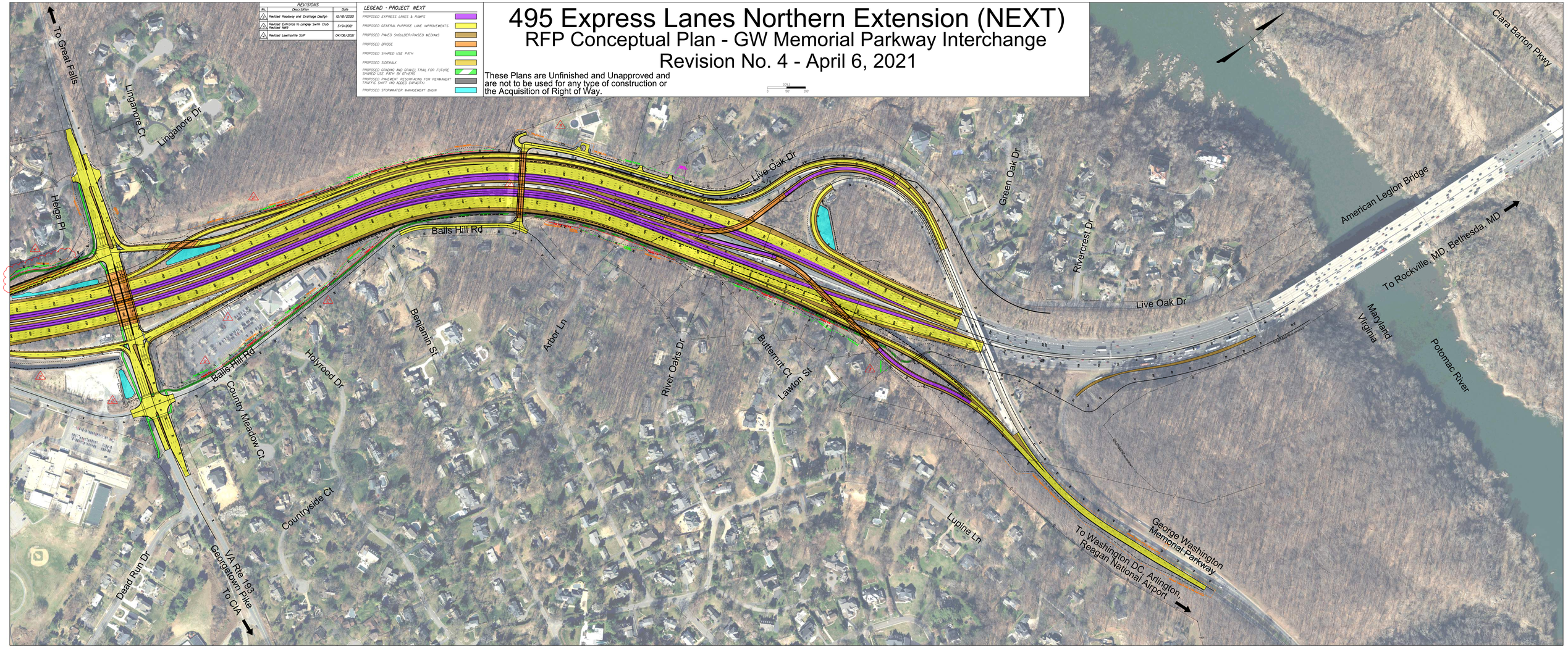
REVISIONS		
No.	Description	Date
1	Revised Roadway and Drainage Design	12/08/2020
2	Revised RW-5	3/9/2020
3	Revised Lewinsville SUP	04/06/2020

LEGEND - PROJECT NEXT

- PROPOSED EXPRESS LANES & RAMPS
- PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PROPOSED PAVED SHOULDER/RAISED MEDIANS
- PROPOSED BRIDGE
- PROPOSED SHARED USE PATH
- PROPOSED SIDEWALK
- PROPOSED GRADING AND GRAVEL TRAIL FOR FUTURE SHARED USE PATH BY OTHERS
- PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- PROPOSED STORMWATER MANAGEMENT BASIN

SCALE 0 500 1000




REVISIONS
No. Description Date
1 Revised Roadway and Drainage Design 12/08/2020
2 Revised Entrance to Longley Swim Club Revised 1689 3/9/2020
3 Revised Lewinsville SUP 04/06/2020
LEGEND - PROJECT NEXT
PROPOSED EXPRESS LANES & RAMPS
PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
PROPOSED PAVED SHOULDER/RAISED MEDIANS
PROPOSED BRIDGE
PROPOSED SHARED USE PATH
PROPOSED SIDEWALK
PROPOSED GRADING AND GRAVEL TRAIL FOR FUTURE SHARED USE PATH BY OTHERS
PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
PROPOSED STORMWATER MANAGEMENT BASIN
495 Express Lanes Northern Extension (NEXT)
RFP Conceptual Plan - GW Memorial Parkway Interchange
Revision No. 4 - April 6, 2021
These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.
SCALE
0 80 160
To Great Falls
Lingamore Ct
Lingamore Dr
Helga Pl
Balls Hill Rd
Live Oak Dr
Green Oak Dr
Rivercrest Dr
Clara Barton Pkwy
American Legion Bridge
To Rockville, MD, Bethesda, MD
Maryland
Virginia
Potomac River
Benjamin St
Arbor Ln
River Oaks Dr
Butternut Ct
Lawton St
Holyrood Dr
Country Meadow Ct
Countryside Ct
Dead Run Dr
VA Rte 193
Georgetown Pike
To CIA
Lupine Ln
George Washington
Memorial Parkway
To Washington DC, Arlington,
Reagan National Airport

495 Express Lanes Northern Extension (NEXT)

RFP Conceptual Plans - Drainage Roll Plot

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

Scroll 1 of 3

REVISIONS		
No.	Description	Date
2	Revised Roadway, Drainage, and SUP Design and Labels	12/18/2020
1	Revised Lewinsville SUP Alignment. Revised SWM-1B Dry Swale.	04/06/2021

PHASE 1 LEGEND

- PHASE 1 - PROPOSED EXPRESS LANES & RAMPS
- PHASE 1 - PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PHASE 1 - PROPOSED PAVED SHOULDER
- PHASE 1 - PROPOSED BRIDGE
- PHASE 1 - PROPOSED SHARED USE PATH
- PHASE 1 - PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- PROPOSED STORMWATER FACILITY
- RIPRAP
- DRAINAGE STRUCTURE NO. CALLOUT
- EXISTING ROW LINE
- PROPOSED ROW LINE
- EXISTING PIPE/STRUCTURE
- PROPOSED PIPE/STRUCTURE
- PROPERTY LINE
- LIMITS OF DISTURBANCE
- JUNCTION BOX (JB-1)
- POINT OF INVESTIGATION
- CUT LINE
- FILL LINE

SCALE 0 100 200

KEY ITEM LEGEND:

1. ABANDON EXISTING PIPE/STRUCTURE
2. CONNECT TO EXISTING PIPE/STRUCTURE
3. KEEP (RETAIN) EXISTING PIPE/STRUCTURE
4. REMOVE EXISTING PIPE/STRUCTURE

Dunsinane Ct
MacBeth St
Titania Ln
Oberon Way
Elsinore Ave
Falstaff Rd
Lear Rd
Snow Meadow Ln
Scotts Run Rd
VA Rte 694
Lewinsville Road
f Ln
Northwyck Ct
To Reston, Herndon, Sterling, Dulles Airport
Dulles Airport Road
(Access and Toll)
Jones Branch Dr
Park Run Dr
Westbranch Dr
Jones Branch Dr
Scotts Crossing Rd
Dulles Airport Road
(Access and Toll)
To I-66 Eastbound, Arlington

495 Express Lanes Northern Extension (NEXT)

RFP Conceptual Plans - Drainage Roll Plot

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

Scroll 2 of 3

REVISIONS		
No.	Description	Date
2	Revised Roadway, Drainage, and SUP Design and Labels	12/18/2020
4	Revised Lewinsville SUP Alignment and Drainage	04/06/2021

PHASE 1 LEGEND

- PHASE 1 - PROPOSED EXPRESS LANES & RAMPS
- PHASE 1 - PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PHASE 1 - PROPOSED PAVED SHOULDER
- PHASE 1 - PROPOSED BRIDGE
- PHASE 1 - PROPOSED SHARED USE PATH
- PHASE 1 - PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- PROPOSED STORMWATER FACILITY
- RIPRAP
- DRAINAGE STRUCTURE NO. CALLOUT
- EXISTING ROW LINE
- PROPOSED ROW LINE
- EXISTING PIPE/STRUCTURE
- PROPOSED PIPE/STRUCTURE
- PROPERTY LINE
- LIMITS OF DISTURBANCE
- JUNCTION BOX (JB-1)
- POINT OF INVESTIGATION
- CUT LINE
- FILL LINE

SCALE 0 100 200

KEY ITEM LEGEND:

- ABANDON EXISTING PIPE/STRUCTURE
- CONNECT TO EXISTING PIPE/STRUCTURE
- KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- REMOVE EXISTING PIPE/STRUCTURE

NOTES:

1. TOE OF STREAMBANK STABILIZATION TO BE EMBEDDED INTO STREAMBED.
2. PROPOSED STREAMBANK STABILIZATION,CLASS I RIPRAP WITH GEOTEXTILE.
3. TIE TO BRIDGE SCOUR COUNTERMEASURES.SEE BRIDGE PLANS FOR FURTHER DETAILS.

Falstaff Rd
Timberly Ln
Timberly Ct
Snow Meadow Ln
Huntmaster Ln
Dominion Ct
To Great Falls
Spencer Ct
Spencer Rd
Peter Pl
Helga Pl
Churchill Rd
Delf Dr
Churchill Rd
Balls Hill Rd
Heather Hill Ln
VA Rte 738 Old Dominion Drive
To Mclean
VA Rte 694 Lewinsville Road
Scotts Run Rd

495 Express Lanes Northern Extension (NEXT)

RFP Conceptual Plans - Drainage Roll Plot

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

Scroll 3 of 3

REVISIONS		
No.	Description	Date
2	Revised Roadway, Drainage, and SUP Design and Labels	12/18/2020
3	Revised Drainage along Live Oak Drive and Balls Hill Rd, and added Potomac Heritage Trail location	03/09/2021
4	Revised Lewinsville SUP Alignment and Drainage	04/06/2021

PHASE 1 LEGEND

- PHASE 1 - PROPOSED EXPRESS LANES & RAMPS
- PHASE 1 - PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PHASE 1 - PROPOSED PAVED SHOULDER
- PHASE 1 - PROPOSED BRIDGE
- PHASE 1 - PROPOSED SHARED USE PATH
- PHASE 1 - PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- PROPOSED STORMWATER FACILITY
- RIPRAP
- DRAINAGE STRUCTURE NO. CALLOUT
- EXISTING ROW LINE
- PROPOSED ROW LINE
- EXISTING PIPE/STRUCTURE
- PROPOSED PIPE/STRUCTURE
- PROPERTY LINE
- LIMITS OF DISTURBANCE
- JUNCTION BOX (JB-#)
- POINT OF INVESTIGATION
- CUT LINE
- FILL LINE

KEY ITEM LEGEND:

- ABANDON EXISTING PIPE/STRUCTURE
- CONNECT TO EXISTING PIPE/STRUCTURE
- KEEP (RETAIN) EXISTING PIPE/STRUCTURE
- REMOVE EXISTING PIPE/STRUCTURE

Falls

Linganore Ct

Linganore Dr

Helga Pl

Balls Hill Rd

Live Oak Dr

Green Oak Dr

Rivercrest Dr

Clara Barton Pk

American Legion Bridge

To Rockville, MD, Bethesda, MD

Maryland

Virginia

Potomac River

Holyrood Dr

Benjamin St

Arbor Ln

River Oaks Dr

Butternut Ct

Lawton St

Country Meadow Ct

Countryside Ct

Dead Run Dr

VA Rte 193
Georgetown Pike
To C/A

Lupine Ln

George Washington Memorial Parkway

To Washington DC, Arlington, Reagan National Airport

495 Express Lanes Northern Extension (NEXT)

RFP Conceptual Plans - Signing, Lighting and Pavement Marking

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

DTR EB Approach

Scroll 1 of 8

SCALE 0 100 200

REVISIONS		
No.	Description	Date
1	Added span trusses for new and relocated DMS. Replace existing sign. Add signs.	11/13/2020
3	Revised sign locations to address potential conflicts.	3/9/2021
4	Added signs and pavement markings for proposed RRFB Installation on Lewinsville Road.	4/6/2021

PHASE 1 ROADWAY LEGEND

- PHASE 1 - PROPOSED EXPRESS LANES & RAMPS
- PHASE 1 - PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PHASE 1 - PROPOSED PAVED SHOULDER
- PHASE 1 - PROPOSED BRIDGE
- PHASE 1 - PROPOSED SHARED USE PATH
- PHASE 1 - PROPOSED PAVEMENT RESURFACING, FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- CURRENT AND POTENTIAL FUTURE CONSTRUCTION WORKS BY OTHERS (NOT TO PRECLUDE)

PHASE 1 SIGNING AND MARKING LEGEND

- EXISTING SIGN / STRUCTURE
- PROPOSED SIGN / STRUCTURE
- PROPOSED EXPRESS LANES DMS
- EXISTING DMS
- EXISTING SIGN PANEL
- PROPOSED SIGN PANEL
- PROPOSED SIGN (SIGN # / TEXT)
- SIGN PANEL ACTION (SEE ACTIONS)
- EXISTING PAVEMENT MARKING
- PROPOSED PAVEMENT MARKINGS

ACTIONS

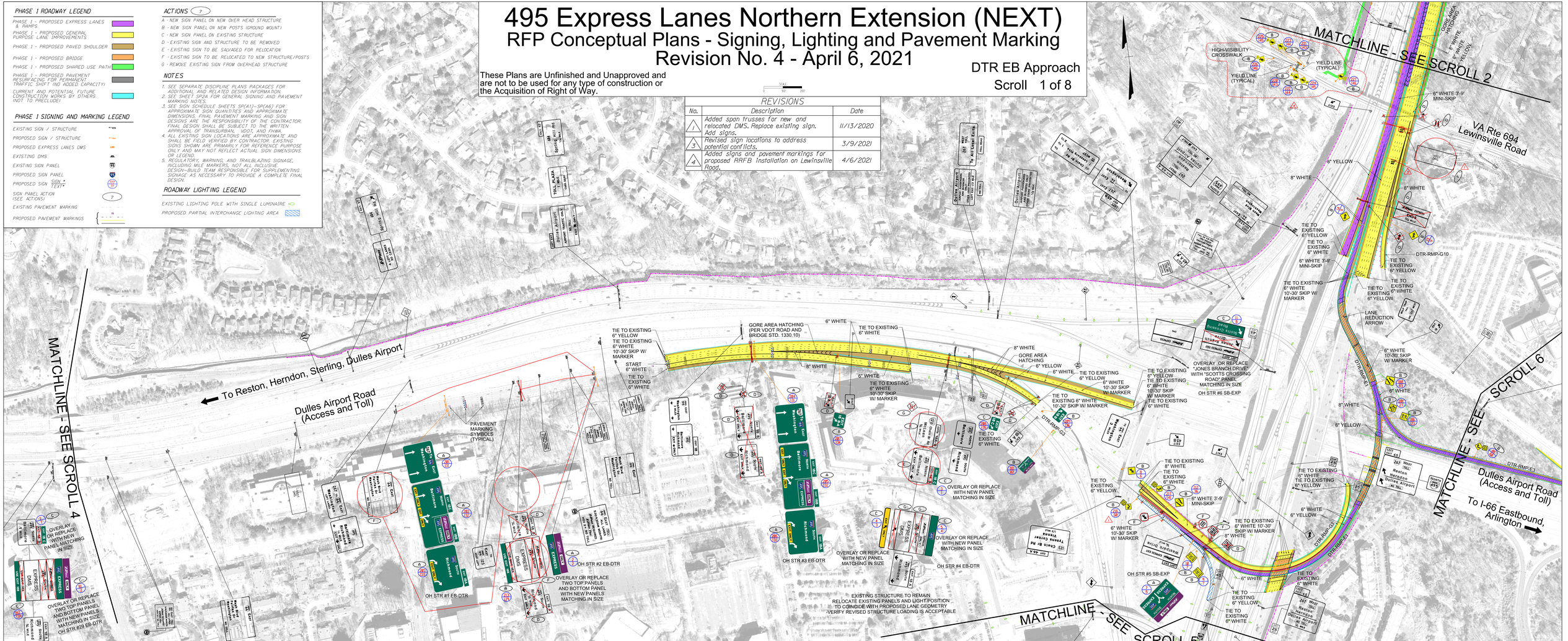
A - NEW SIGN PANEL ON NEW OVER HEAD STRUCTURE
B - NEW SIGN PANEL ON NEW POSTS (GROUND MOUNT)
C - NEW SIGN PANEL ON EXISTING STRUCTURE
D - EXISTING SIGN AND STRUCTURE TO BE REMOVED
E - EXISTING SIGN TO BE SALVAGED FOR RELOCATION
F - EXISTING SIGN TO BE RELOCATED TO NEW STRUCTURE/POSTS
G - REMOVE EXISTING SIGN FROM OVERHEAD STRUCTURE

NOTES

1. SEE SEPARATE DISCIPLINE PLANS PACKAGES FOR ADDITIONAL AND RELATED DESIGN INFORMATION.
2. SEE SHEET SP2A FOR GENERAL SIGNING AND PAVEMENT MARKING NOTES.
3. SEE SIGN SCHEDULE SHEETS SP1A(1)–SP1A(6) FOR APPROXIMATE SIGN QUANTITIES AND APPROXIMATE DIMENSIONS. FINAL PAVEMENT MARKING AND SIGN DESIGNS ARE THE RESPONSIBILITY OF THE CONTRACTOR. FINAL DESIGN SHALL BE SUBJECT TO THE WRITTEN APPROVAL OF TRANSURBAN, VDOT, AND FHWA.
4. ALL EXISTING SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. EXISTING SIGNS SHOWN ARE PRIMARILY FOR REFERENCE PURPOSE ONLY AND MAY NOT REFLECT ACTUAL SIGN DIMENSIONS OR LEGEND.
5. REGULATORY, WARNING, AND TRAILBLAZING SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN–BUILD TEAM RESPONSIBLE FOR SUPPLEMENTING SIGNAGE AS NECESSARY TO PROVIDE A COMPLETE FINAL DESIGN.

ROADWAY LIGHTING LEGEND

- EXISTING LIGHTING POLE WITH SINGLE LUMINAIRE
- PROPOSED PARTIAL INTERCHANGE LIGHTING AREA



495 Express Lanes Northern Extension (NEXT)

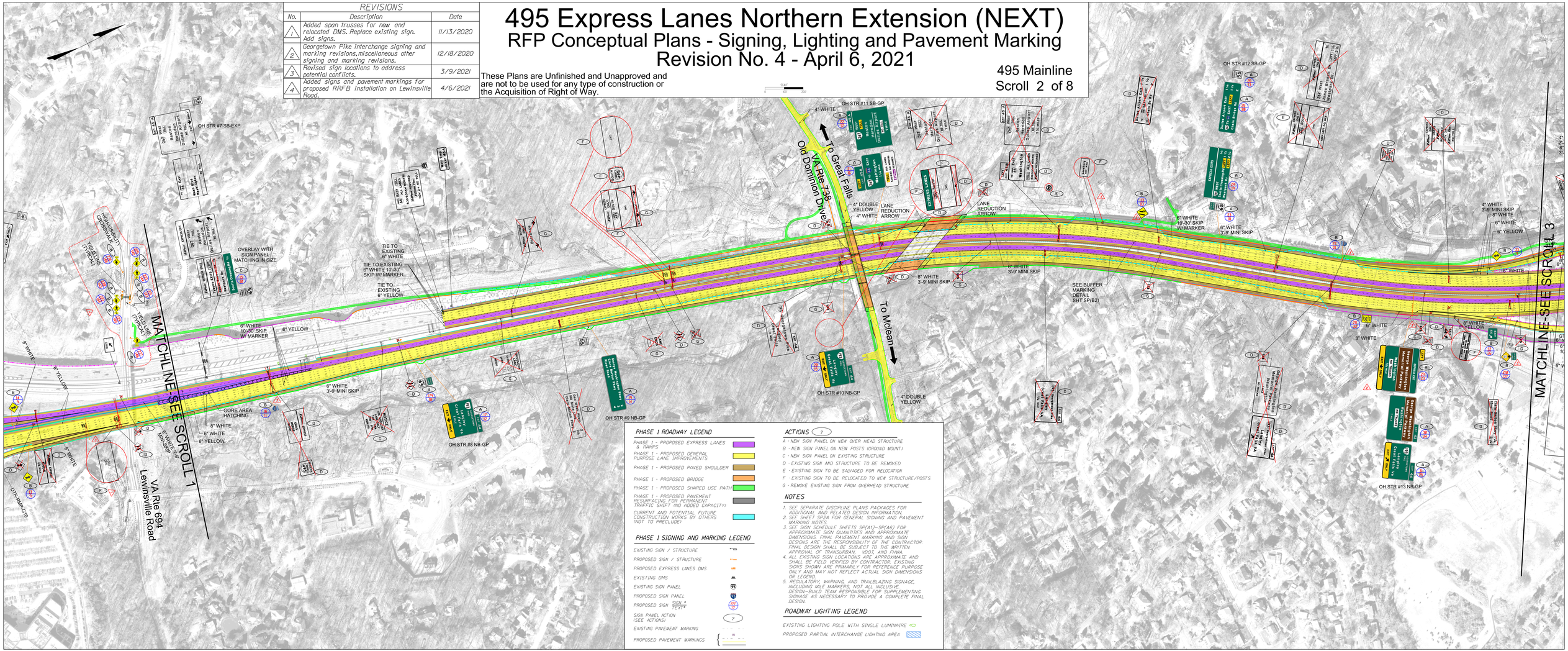
RFP Conceptual Plans - Signing, Lighting and Pavement Marking

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

495 Mainline
Scroll 2 of 8

REVISIONS		
No.	Description	Date
1	Added span trusses for new and relocated DMS. Replace existing sign. Add signs.	11/13/2020
2	Georgetown Pike interchange signing and marking revisions, miscellaneous other signing and marking revisions.	12/18/2020
3	Revised sign locations to address potential conflicts.	3/9/2021
4	Added signs and pavement markings for proposed RRFB installation on Lewinsville Road.	4/6/2021



PHASE 1 ROADWAY LEGEND

- PHASE 1 - PROPOSED EXPRESS LANES & RAMPS
- PHASE 1 - PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PHASE 1 - PROPOSED PAVED SHOULDER
- PHASE 1 - PROPOSED BRIDGE
- PHASE 1 - PROPOSED SHARED USE PATH
- PHASE 1 - PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- CURRENT AND POTENTIAL FUTURE CONSTRUCTION WORKS BY OTHERS (NOT TO PRECLUDE)

PHASE 1 SIGNING AND MARKING LEGEND

- EXISTING SIGN / STRUCTURE
- PROPOSED SIGN / STRUCTURE
- PROPOSED EXPRESS LANES DMS
- EXISTING DMS
- EXISTING SIGN PANEL
- PROPOSED SIGN PANEL
- PROPOSED SIGN SIGN TEXT
- SIGN PANEL ACTION (SEE ACTIONS)
- EXISTING PAVEMENT MARKING
- PROPOSED PAVEMENT MARKINGS

ACTIONS

A - NEW SIGN PANEL ON NEW OVER HEAD STRUCTURE
B - NEW SIGN PANEL ON NEW POSTS (GROUND MOUNT)
C - NEW SIGN PANEL ON EXISTING STRUCTURE
D - EXISTING SIGN AND STRUCTURE TO BE REMOVED
E - EXISTING SIGN TO BE SALVAGED FOR RELOCATION
F - EXISTING SIGN TO BE RELOCATED TO NEW STRUCTURE/POSTS
G - REMOVE EXISTING SIGN FROM OVERHEAD STRUCTURE

NOTES

1. SEE SEPARATE DISCIPLINE PLANS PACKAGES FOR ADDITIONAL AND RELATED DESIGN INFORMATION.
2. SEE SHEET SP2A FOR GENERAL SIGNING AND PAVEMENT MARKING NOTES.
3. SEE SIGN SCHEDULE SHEETS SP(A1)–SP(A6) FOR APPROXIMATE SIGN QUANTITIES AND APPROXIMATE DIMENSIONS. FINAL PAVEMENT MARKING AND SIGN DESIGNS ARE THE RESPONSIBILITY OF THE CONTRACTOR. FINAL DESIGN SHALL BE SUBJECT TO THE WRITTEN APPROVAL OF TRANSURBAN, VDOT, AND FHWA.
4. ALL EXISTING SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. EXISTING SIGNS SHOWN ARE PRIMARILY FOR REFERENCE PURPOSE ONLY AND MAY NOT REFLECT ACTUAL SIGN DIMENSIONS OR LEGEND.
5. REGULATORY, WARNING, AND TRAILBLAZING SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN–BUILD TEAM RESPONSIBLE FOR SUPPLEMENTING SIGNAGE AS NECESSARY TO PROVIDE A COMPLETE FINAL DESIGN.

ROADWAY LIGHTING LEGEND

- EXISTING LIGHTING POLE WITH SINGLE LUMINAIRE
- PROPOSED PARTIAL INTERCHANGE LIGHTING AREA

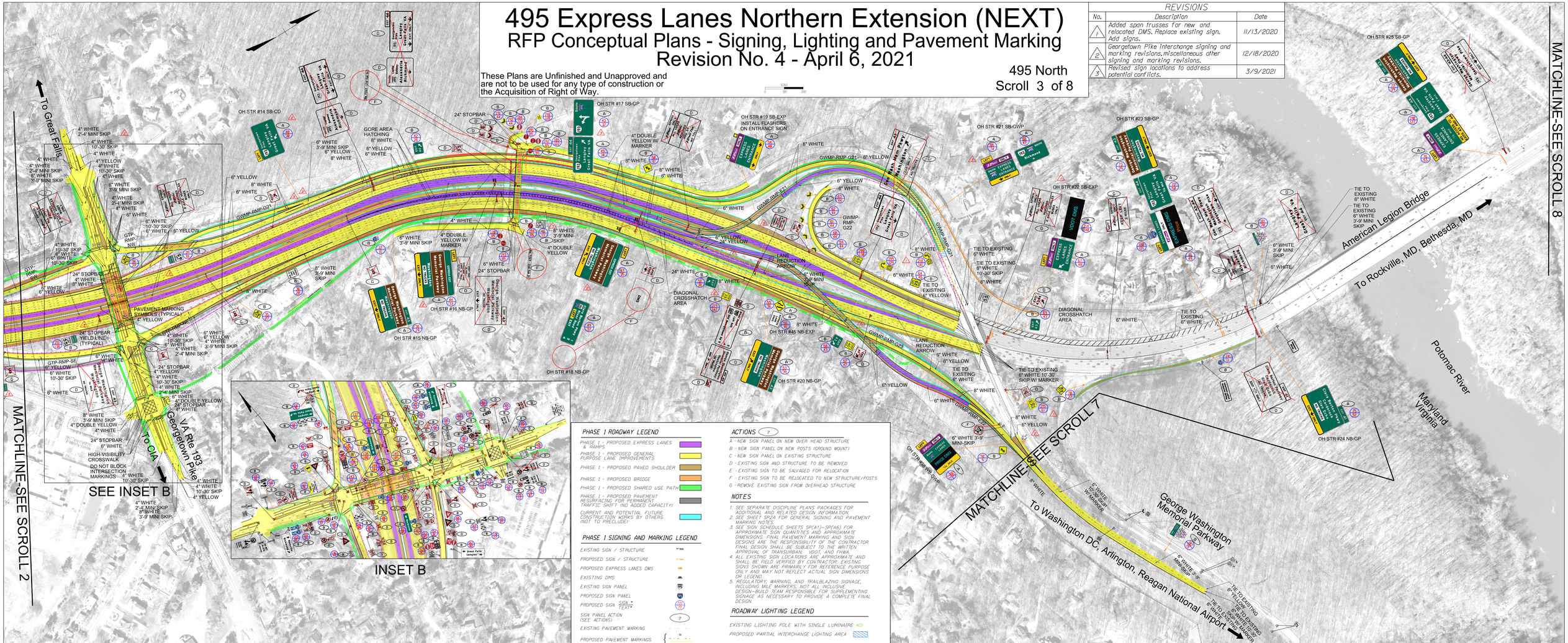
495 Express Lanes Northern Extension (NEXT)

RFP Conceptual Plans - Signing, Lighting and Pavement Marking
Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

495 North
Scroll 3 of 8

REVISIONS		
No.	Description	Date
1	Added span trusses for new and relocated DMS. Replace existing sign. Add signs.	11/13/2020
2	Georgetown Pike Interchange signing and marking revisions, miscellaneous other signing and marking revisions.	12/18/2020
3	Revised sign locations to address potential conflicts.	3/9/2021



PHASE 1 ROADWAY LEGEND

- PHASE 1 - PROPOSED EXPRESS LANES & RAMPS
- PHASE 1 - PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PHASE 1 - PROPOSED PAVED SHOULDER
- PHASE 1 - PROPOSED BRIDGE
- PHASE 1 - PROPOSED SHARED USE PATH
- PHASE 1 - PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- CURRENT AND POTENTIAL FUTURE CONSTRUCTION WORKS BY OTHERS (NOT TO PRECLUDE)

PHASE 1 SIGNING AND MARKING LEGEND

- EXISTING SIGN / STRUCTURE
- PROPOSED SIGN / STRUCTURE
- PROPOSED EXPRESS LANES DMS
- EXISTING DMS
- EXISTING SIGN PANEL
- PROPOSED SIGN PANEL
- PROPOSED SIGN SIGN + TEXT
- SIGN PANEL ACTION (SEE ACTIONS)
- EXISTING PAVEMENT MARKING
- PROPOSED PAVEMENT MARKINGS

ACTIONS

A - NEW SIGN PANEL ON NEW OVER HEAD STRUCTURE
B - NEW SIGN PANEL ON NEW POSTS (GROUND MOUNT)
C - NEW SIGN PANEL ON EXISTING STRUCTURE
D - EXISTING SIGN AND STRUCTURE TO BE REMOVED
E - EXISTING SIGN TO BE SALVAGED FOR RELOCATION
F - EXISTING SIGN TO BE RELOCATED TO NEW STRUCTURE/POSTS
G - REMOVE EXISTING SIGN FROM OVERHEAD STRUCTURE

NOTES

1. SEE SEPARATE DISCIPLINE PLANS PACKAGES FOR ADDITIONAL AND RELATED DESIGN INFORMATION.
2. SEE SHEET SP2A FOR GENERAL SIGNING AND PAVEMENT MARKING NOTES.
3. SEE SIGN SCHEDULE SHEETS SP(A1)–SP(A6) FOR APPROXIMATE SIGN QUANTITIES AND APPROXIMATE DIMENSIONS. FINAL PAVEMENT MARKING AND SIGN DESIGNS ARE THE RESPONSIBILITY OF THE CONTRACTOR. FINAL DESIGN SHALL BE SUBJECT TO THE WRITTEN APPROVAL OF TRANSURBAN, VDOT, AND FHWA.
4. ALL EXISTING SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. EXISTING SIGNS SHOWN ARE PRIMARILY FOR REFERENCE PURPOSE ONLY AND MAY NOT REFLECT ACTUAL SIGN DIMENSIONS OR LEGEND.
5. REGULATORY, WARNING, AND TRAILBLAZING SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN-BUILD TEAM RESPONSIBLE FOR SUPPLEMENTING SIGNAGE AS NECESSARY TO PROVIDE A COMPLETE FINAL DESIGN.

ROADWAY LIGHTING LEGEND

- EXISTING LIGHTING POLE WITH SINGLE LUMINAIRE
- PROPOSED PARTIAL INTERCHANGE LIGHTING AREA

495 Express Lanes Northern Extension (NEXT)

RFP Conceptual Plans - Signing, Lighting and Pavement Marking

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

DTR EB Approach
Scroll 4 of 8

PHASE 1 ROADWAY LEGEND

- PHASE 1 - PROPOSED EXPRESS LANES & RAMPS
- PHASE 1 - PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PHASE 1 - PROPOSED PAVED SHOULDER
- PHASE 1 - PROPOSED BRIDGE
- PHASE 1 - PROPOSED SHARED USE PATH
- PHASE 1 - PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- CURRENT AND POTENTIAL FUTURE CONSTRUCTION WORKS BY OTHERS (NOT TO PRECLUDE)

PHASE 1 SIGNING AND MARKING LEGEND

- EXISTING SIGN / STRUCTURE
- PROPOSED SIGN / STRUCTURE
- PROPOSED EXPRESS LANES DMS
- EXISTING DMS
- EXISTING SIGN PANEL
- PROPOSED SIGN PANEL
- PROPOSED SIGN (SIGN # / TEXT)
- SIGN PANEL ACTION (SEE ACTIONS)
- EXISTING PAVEMENT MARKING
- PROPOSED PAVEMENT MARKINGS

ACTIONS

A - NEW SIGN PANEL ON NEW OVER HEAD STRUCTURE
B - NEW SIGN PANEL ON NEW POSTS (GROUND MOUNT)
C - NEW SIGN PANEL ON EXISTING STRUCTURE
D - EXISTING SIGN AND STRUCTURE TO BE REMOVED
E - EXISTING SIGN TO BE SALVAGED FOR RELOCATION
F - EXISTING SIGN TO BE RELOCATED TO NEW STRUCTURE/POSTS
G - REMOVE EXISTING SIGN FROM OVERHEAD STRUCTURE

NOTES

1. SEE SEPARATE DISCIPLINE PLANS PACKAGES FOR ADDITIONAL AND RELATED DESIGN INFORMATION.
2. SEE SHEET SP2A FOR GENERAL SIGNING AND PAVEMENT MARKING NOTES.
3. SEE SIGN SCHEDULE SHEETS SP(A1)–SP(A6) FOR APPROXIMATE SIGN QUANTITIES AND APPROXIMATE DIMENSIONS. FINAL PAVEMENT MARKING AND SIGN DESIGNS ARE THE RESPONSIBILITY OF THE CONTRACTOR. FINAL DESIGN SHALL BE SUBJECT TO THE WRITTEN APPROVAL OF TRANSURBAN, VDOT, AND FHWA.
4. ALL EXISTING SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. EXISTING SIGNS SHOWN ARE PRIMARILY FOR REFERENCE PURPOSE ONLY AND MAY NOT REFLECT ACTUAL SIGN DIMENSIONS OR LEGEND.
5. REGULATORY, WARNING, AND TRAILBLAZING SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN–BUILD TEAM RESPONSIBLE FOR SUPPLEMENTING SIGNAGE AS NECESSARY TO PROVIDE A COMPLETE FINAL DESIGN.

ROADWAY LIGHTING LEGEND

- EXISTING LIGHTING POLE WITH SINGLE LUMINAIRE
- PROPOSED PARTIAL INTERCHANGE LIGHTING AREA

To Reston, Herndon, Sterling, Dulles Airport

Dulles Airport Road (Access and Toll)

OVERLAY 495 SOUTH WITH NEW PANEL TO MATCH EXISITING SIGN PANEL SIZE.

OH STR #26 EB-DTR

OVERLAY 495 SOUTH WITH NEW PANEL TO MATCH EXISITING SIGN PANEL SIZE

OH STR #27 EB-DTR

OVERLAY 495 SOUTH WITH NEW PANEL TO MATCH EXISITING SIGN PANEL SIZE

OH STR #28 EB-DTR

OVERLAY OR REPLACE WITH NEW PANEL MATCHING IN SIZE

OVERLAY OR REPLACE TWO TOP PANELS AND BOTTOM PANEL WITH NEW PANELS MATCHING IN SIZE.

OH STR #29 EB-DTR

MATCHLINE-SEE SCROLL 1

495 Express Lanes Northern Extension (NEXT)

RFP Conceptual Plans - Signing, Lighting and Pavement Marking

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

495 NB Approach
Scroll 5 of 8

REVISIONS		
No.	Description	Date
1	Added span trusses for new and relocated DMS. Replace existing sign. Add signs.	11/13/2020

PHASE 1 ROADWAY LEGEND

- PHASE 1 - PROPOSED EXPRESS LANES & RAMPS
- PHASE 1 - PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PHASE 1 - PROPOSED PAVED SHOULDER
- PHASE 1 - PROPOSED BRIDGE
- PHASE 1 - PROPOSED SHARED USE PATH
- PHASE 1 - PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- CURRENT AND POTENTIAL FUTURE CONSTRUCTION WORKS BY OTHERS (NOT TO PRECLUDE)

PHASE 1 SIGNING AND MARKING LEGEND

- EXISTING SIGN / STRUCTURE
- PROPOSED SIGN / STRUCTURE
- PROPOSED EXPRESS LANES DMS
- EXISTING DMS
- EXISTING SIGN PANEL
- PROPOSED SIGN PANEL
- PROPOSED SIGN SIGN TEXT
- SIGN PANEL ACTION (SEE ACTIONS)
- EXISTING PAVEMENT MARKING
- PROPOSED PAVEMENT MARKINGS

ACTIONS

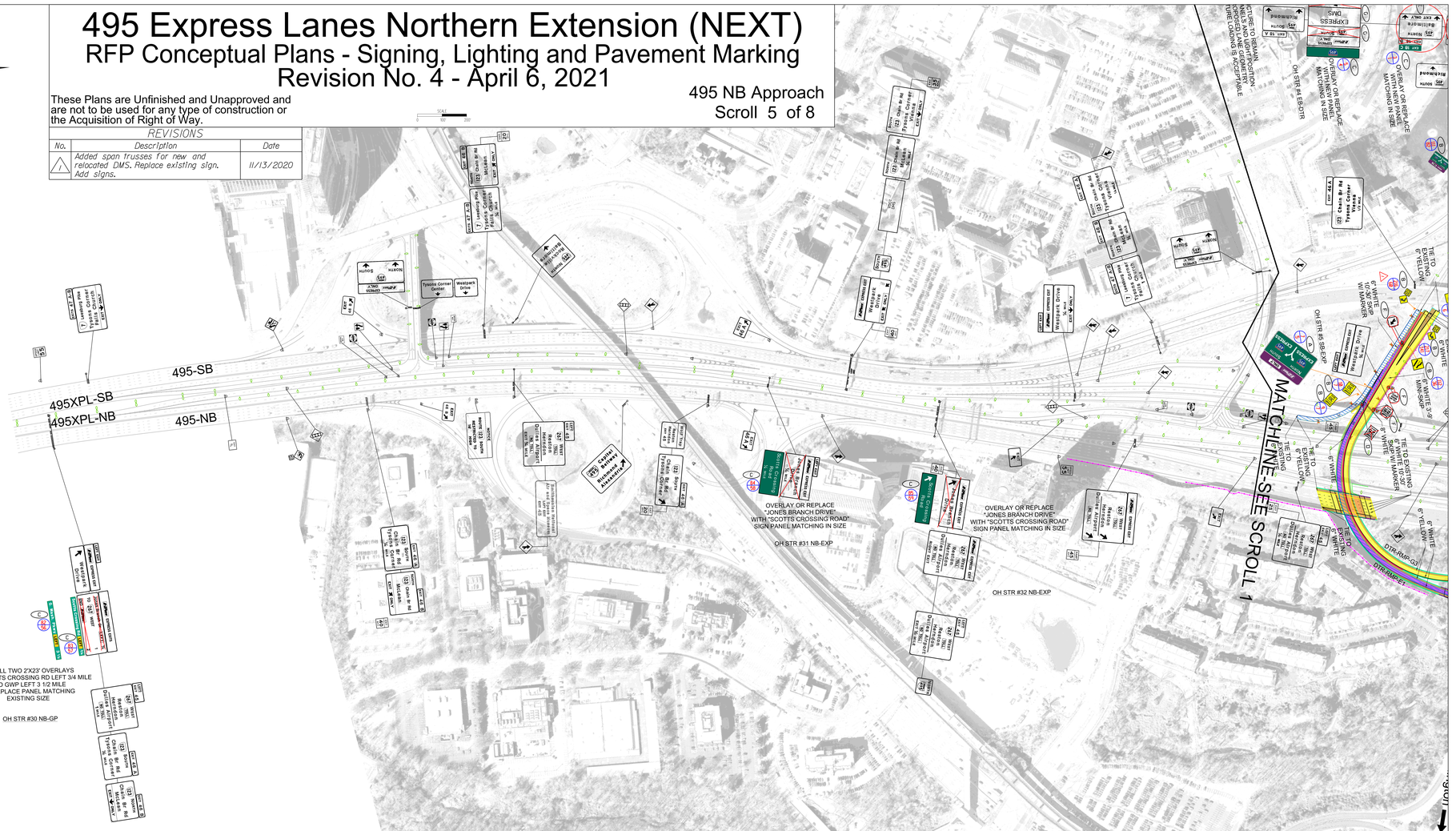
A - NEW SIGN PANEL ON NEW OVER HEAD STRUCTURE
B - NEW SIGN PANEL ON NEW POSTS (GROUND MOUNT)
C - NEW SIGN PANEL ON EXISTING STRUCTURE
D - EXISTING SIGN AND STRUCTURE TO BE REMOVED
E - EXISTING SIGN TO BE SALVAGED FOR RELOCATION
F - EXISTING SIGN TO BE RELOCATED TO NEW STRUCTURE/POSTS
G - REMOVE EXISTING SIGN FROM OVERHEAD STRUCTURE

NOTES

1. SEE SEPARATE DISCIPLINE PLANS PACKAGES FOR ADDITIONAL AND RELATED DESIGN INFORMATION.
2. SEE SHEET SP2A FOR GENERAL SIGNING AND PAVEMENT MARKING NOTES.
3. SEE SIGN SCHEDULE SHEETS SP1A1)-SP1A6) FOR APPROXIMATE SIGN QUANTITIES AND APPROXIMATE DIMENSIONS. FINAL PAVEMENT MARKING AND SIGN DESIGNS ARE THE RESPONSIBILITY OF THE CONTRACTOR. FINAL DESIGN SHALL BE SUBJECT TO THE WRITTEN APPROVAL OF TRANSURBAN, VDOT, AND FHWA.
4. ALL EXISTING SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. EXISTING SIGNS SHOWN ARE PRIMARILY FOR REFERENCE PURPOSE ONLY AND MAY NOT REFLECT ACTUAL SIGN DIMENSIONS OR LEGEND.
5. REGULATORY, WARNING, AND TRAILBLAZING SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN-BUILD TEAM RESPONSIBLE FOR SUPPLEMENTING SIGNAGE AS NECESSARY TO PROVIDE A COMPLETE FINAL DESIGN.

ROADWAY LIGHTING LEGEND

- EXISTING LIGHTING POLE WITH SINGLE LUMINAIRE
- PROPOSED PARTIAL INTERCHANGE LIGHTING AREA



495 Express Lanes Northern Extension (NEXT)

RFP Conceptual Plans - Signing, Lighting and Pavement Marking
Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

DTR WB Approach
Scroll 6 of 8

SCALE 0 100 200

REVISIONS		
No.	Description	Date
3	Revised sign locations to address potential conflicts.	3/9/2021

OH STR #33 WB-DTR

OH STR #34 WB-DTR

OH STR #35 WB-DTR

OH STR #36 WB-DTR

OH STR #37 WB-DTR

PAVEMENT MARKING SYMBOLS (TYPICAL)

8" WHITE

6" YELLOW

6" WHITE

6" WHITE 3'-9" MINI-SKIP

TIE TO EXISTING 6" YELLOW

MATCHLINE-SEE SCROLL 1

Dulles Airport Road (Access and Toll)
To I-66 Eastbound, Arlington

DTR-RMP-E1

DTR-RMP-G1

SEE INSET A

INSET A

PHASE 1 ROADWAY LEGEND

- PHASE 1 - PROPOSED EXPRESS LANES & RAMPS
- PHASE 1 - PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PHASE 1 - PROPOSED PAVED SHOULDER
- PHASE 1 - PROPOSED BRIDGE
- PHASE 1 - PROPOSED SHARED USE PATH
- PHASE 1 - PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- CURRENT AND POTENTIAL FUTURE CONSTRUCTION WORKS BY OTHERS (NOT TO PRECLUDE)

PHASE 1 SIGNING AND MARKING LEGEND

- EXISTING SIGN / STRUCTURE
- PROPOSED SIGN / STRUCTURE
- PROPOSED EXPRESS LANES DMS
- EXISTING DMS
- EXISTING SIGN PANEL
- PROPOSED SIGN PANEL
- PROPOSED SIGN (SIGN # / TEXT)
- SIGN PANEL ACTION (SEE ACTIONS)
- EXISTING PAVEMENT MARKING
- PROPOSED PAVEMENT MARKINGS

ACTIONS

A - NEW SIGN PANEL ON NEW OVER HEAD STRUCTURE
B - NEW SIGN PANEL ON NEW POSTS (GROUND MOUNT)
C - NEW SIGN PANEL ON EXISTING STRUCTURE
D - EXISTING SIGN AND STRUCTURE TO BE REMOVED
E - EXISTING SIGN TO BE SALVAGED FOR RELOCATION
F - EXISTING SIGN TO BE RELOCATED TO NEW STRUCTURE/POSTS
G - REMOVE EXISTING SIGN FROM OVERHEAD STRUCTURE

NOTES

1. SEE SEPARATE DISCIPLINE PLANS PACKAGES FOR ADDITIONAL AND RELATED DESIGN INFORMATION.
2. SEE SHEET SP2A FOR GENERAL SIGNING AND PAVEMENT MARKING NOTES.
3. SEE SIGN SCHEDULE SHEETS SP(A1)-SP(A6) FOR APPROXIMATE SIGN QUANTITIES AND APPROXIMATE DIMENSIONS. FINAL PAVEMENT MARKING AND SIGN DESIGNS ARE THE RESPONSIBILITY OF THE CONTRACTOR. FINAL DESIGN SHALL BE SUBJECT TO THE WRITTEN APPROVAL OF TRANSURBAN, VDOT, AND FHWA.
4. ALL EXISTING SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. EXISTING SIGNS SHOWN ARE PRIMARILY FOR REFERENCE PURPOSE ONLY AND MAY NOT REFLECT ACTUAL SIGN DIMENSIONS OR LEGEND.
5. REGULATORY, WARNING, AND TRAILBLAZING SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN-BUILD TEAM RESPONSIBLE FOR SUPPLEMENTING SIGNAGE AS NECESSARY TO PROVIDE A COMPLETE FINAL DESIGN.

ROADWAY LIGHTING LEGEND

- EXISTING LIGHTING POLE WITH SINGLE LUMINAIRE
- PROPOSED PARTIAL INTERCHANGE LIGHTING AREA

495 Express Lanes Northern Extension (NEXT)

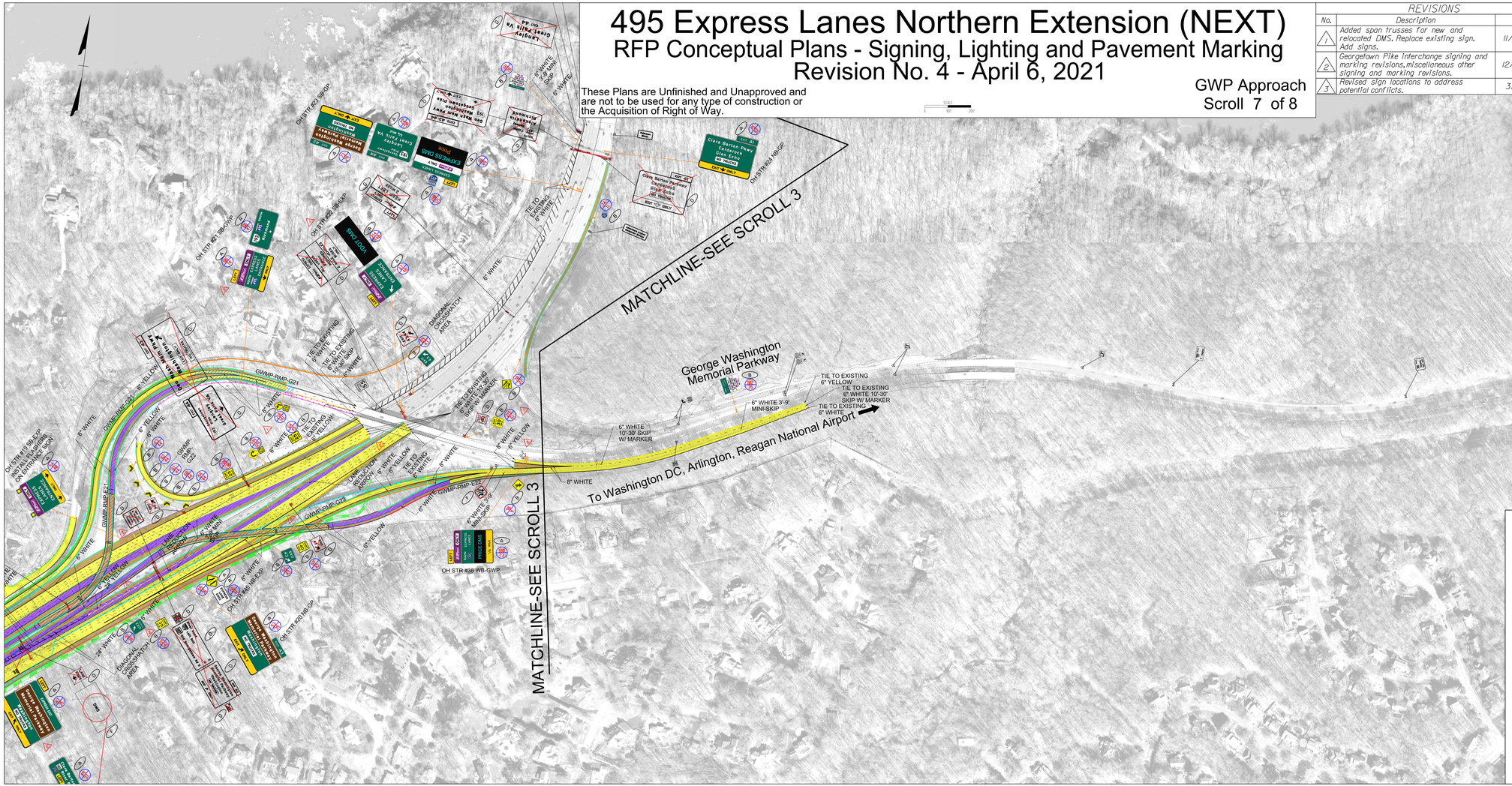
RFP Conceptual Plans - Signing, Lighting and Pavement Marking

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

GWP Approach
Scroll 7 of 8

REVISIONS		
No.	Description	Date
1	Added span trusses for new and relocated DMS. Replace existing sign. Add signs.	11/13/2020
2	Georgetown Pike interchange signing and marking revisions, miscellaneous other signing and marking revisions.	12/18/2020
3	Revised sign locations to address potential conflicts.	3/9/2021



PHASE 1 ROADWAY LEGEND

- PHASE 1 - PROPOSED EXPRESS LANES & RAMPS
- PHASE 1 - PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PHASE 1 - PROPOSED PAVED SHOULDER
- PHASE 1 - PROPOSED BRIDGE
- PHASE 1 - PROPOSED SHARED USE PATH
- PHASE 1 - PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- CURRENT AND POTENTIAL FUTURE CONSTRUCTION WORKS BY OTHERS (NOT TO PRECLUDE)

PHASE 1 SIGNING AND MARKING LEGEND

- EXISTING SIGN / STRUCTURE
- PROPOSED SIGN / STRUCTURE
- PROPOSED EXPRESS LANES DMS
- EXISTING DMS
- EXISTING SIGN PANEL
- PROPOSED SIGN PANEL
- PROPOSED SIGN SIGN * / TEXT *
- SIGN PANEL ACTION (SEE ACTIONS) ?
- EXISTING PAVEMENT MARKING
- PROPOSED PAVEMENT MARKINGS

ACTIONS ?

- A - NEW SIGN PANEL ON NEW OVER HEAD STRUCTURE
- B - NEW SIGN PANEL ON NEW POSTS (GROUND MOUNT)
- C - NEW SIGN PANEL ON EXISTING STRUCTURE
- D - EXISTING SIGN AND STRUCTURE TO BE REMOVED
- E - EXISTING SIGN TO BE SALVAGED FOR RELOCATION
- F - EXISTING SIGN TO BE RELOCATED TO NEW STRUCTURE/POSTS
- G - REMOVE EXISTING SIGN FROM OVERHEAD STRUCTURE

NOTES

1. SEE SEPARATE DISCIPLINE PLANS PACKAGES FOR ADDITIONAL AND RELATED DESIGN INFORMATION.
2. SEE SHEET SP2A FOR GENERAL SIGNING AND PAVEMENT MARKING NOTES.
3. SEE SIGN SCHEDULE SHEETS SP(A1)–SP(A6) FOR APPROXIMATE SIGN QUANTITIES AND APPROXIMATE DIMENSIONS. FINAL PAVEMENT MARKING AND SIGN DESIGNS ARE THE RESPONSIBILITY OF THE CONTRACTOR. FINAL DESIGN SHALL BE SUBJECT TO THE WRITTEN APPROVAL OF TRANSURBAN, VDOT, AND FHWA.
4. ALL EXISTING SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. EXISTING SIGNS SHOWN ARE PRIMARILY FOR REFERENCE PURPOSE ONLY AND MAY NOT REFLECT ACTUAL SIGN DIMENSIONS OR LEGEND.
5. REGULATORY, WARNING, AND TRAILBLAZING SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN–BUILD TEAM RESPONSIBLE FOR SUPPLEMENTING SIGNAGE AS NECESSARY TO PROVIDE A COMPLETE FINAL DESIGN.

ROADWAY LIGHTING LEGEND

- EXISTING LIGHTING POLE WITH SINGLE LUMINAIRE
- PROPOSED PARTIAL INTERCHANGE LIGHTING AREA

495 Express Lanes Northern Extension (NEXT)

RFP Conceptual Plans - Signing, Lighting and Pavement Marking
Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

495 Maryland
Scroll 8 of 8

SCALE
0 400 800



PHASE 1 ROADWAY LEGEND

- PHASE 1 - PROPOSED EXPRESS LANES & RAMPS
- PHASE 1 - PROPOSED GENERAL PURPOSE LANE IMPROVEMENTS
- PHASE 1 - PROPOSED PAVED SHOULDER
- PHASE 1 - PROPOSED BRIDGE
- PHASE 1 - PROPOSED SHARED USE PATH
- PHASE 1 - PROPOSED PAVEMENT RESURFACING FOR PERMANENT TRAFFIC SHIFT (NO ADDED CAPACITY)
- CURRENT AND POTENTIAL FUTURE CONSTRUCTION WORKS BY OTHERS (NOT TO PRECLUDE)

PHASE 1 SIGNING AND MARKING LEGEND

- EXISTING SIGN / STRUCTURE
- PROPOSED SIGN / STRUCTURE
- PROPOSED EXPRESS LANES DMS
- EXISTING DMS
- EXISTING SIGN PANEL
- PROPOSED SIGN PANEL
- PROPOSED SIGN (SIGN # / TEXT #)
- SIGN PANEL ACTION (SEE ACTIONS)
- EXISTING PAVEMENT MARKING
- PROPOSED PAVEMENT MARKINGS

ACTIONS

A - NEW SIGN PANEL ON NEW OVER HEAD STRUCTURE
B - NEW SIGN PANEL ON NEW POSTS (GROUND MOUNT)
C - NEW SIGN PANEL ON EXISTING STRUCTURE
D - EXISTING SIGN AND STRUCTURE TO BE REMOVED
E - EXISTING SIGN TO BE SALVAGED FOR RELOCATION
F - EXISTING SIGN TO BE RELOCATED TO NEW STRUCTURE/POSTS
G - REMOVE EXISTING SIGN FROM OVERHEAD STRUCTURE

NOTES

1. SEE SEPARATE DISCIPLINE PLANS PACKAGES FOR ADDITIONAL AND RELATED DESIGN INFORMATION.
2. SEE SHEET SP2A FOR GENERAL SIGNING AND PAVEMENT MARKING NOTES.
3. SEE SIGN SCHEDULE SHEETS SP(A1)-SP(A6) FOR APPROXIMATE SIGN QUANTITIES AND APPROXIMATE DIMENSIONS. FINAL PAVEMENT MARKING AND SIGN DESIGNS ARE THE RESPONSIBILITY OF THE CONTRACTOR. FINAL DESIGN SHALL BE SUBJECT TO THE WRITTEN APPROVAL OF TRANSURBAN, - VDOT, AND FHWA.
4. ALL EXISTING SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. EXISTING SIGNS SHOWN ARE PRIMARILY FOR REFERENCE PURPOSE ONLY AND MAY NOT REFLECT ACTUAL SIGN DIMENSIONS OR LEGEND.
5. REGULATORY, WARNING, AND TRAILBLAZING SIGNAGE, INCLUDING MILE MARKERS, NOT ALL INCLUSIVE. DESIGN-BUILD TEAM RESPONSIBLE FOR SUPPLEMENTING SIGNAGE AS NECESSARY TO PROVIDE A COMPLETE FINAL DESIGN.

ROADWAY LIGHTING LEGEND

- EXISTING LIGHTING POLE WITH SINGLE LUMINAIRE
- PROPOSED PARTIAL INTERCHANGE LIGHTING AREA

495 Express Lanes Northern Extension (NEXT)

RFP Concept Plans - TMS Roll Plot - Phase 1

Revision No. 4 - April 6, 2021

DTR EB Approach

Scroll 1 of 7

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

SCALE 0 100 200

PHASE 1 TTMS LEGEND

EXISTING	PROPOSED	DESCRIPTION	
	CC/P	COMMUNICATION AND POWER	UNDERGROUND CONDUIT
	CC	COMMUNICATION / CONTROL	
	P	EQUIPMENT POWER	
N/A	CC/P	STRUCTURE MOUNTED COMMUNICATION AND POWER	
		BORED CONDUIT	
N/A		ABANDON EXISINTG CONDUITS RUN	
N/A	N/A	VDOT ELECTRICAL JUNCTION BOX	
N/A	N/A	VDOT JB-S3 POWER JUNCTION BOX	
N/A	N/A	VDOT COMMUNICATION/CONTROL JUNCTION BOX	
N/A	N/A	EXPRESS LANES ELECTRICAL JUNCTION BOX	
N/A	N/A	EXPRESS LANES COMMUNICATION JUNCTION BOX	
		EXPRESS LANES POLE-MOUNTED EQUIPMENT CABINET	
		VDOT GROUND-MOUNTED EQUIPMENT CABINET	
		EXPRESS LANES GROUND-MOUNTED EQUIPMENT CABINET	
		VDOT POLE, STRUCTURE, OR PEDESTAL-MOUNTED CABINET	
	SP-N	VDOT SERVICE PANEL (NO, AS NOTED)	
		XPL SERVICE PANEL (NO, AS NOTED)	

EXISTING	PROPOSED	DESCRIPTION
		VDOT CCTV CAMERA
		AUTOMATED INCIDENT DETECTION CAMERA AND COVERAGE AREA
		EXPRESS LANES CCTV CAMERA
E-DMS	E-DMS	EXPRESS LANES DYNAMIC MESSAGE SIGN
V-DMS	V-DMS	VDOT DYNAMIC MESSAGE SIGN
LCS		LANE CONTROL SIGNAL
		VDOT MICROWAVE DETECTOR
		EXPRESS LANES MICROWAVE DETECTOR
	N/A	EXPRESS LANES RADIO ANTENNA
G	GENERATOR & PROPANE TANK	GENERATOR
		MICROWAVE DETECTION ZONES
N/A		30' POLE
N/A		40' POLE
		50' POLE WITH LOWERING DEVICE
	N/A	POLE
N/A		TOLL GANTRY
		CANTILEVER STRUCTURE W/SIGN
		SPAN STRUCTURE W/SIGN

TRENCHED CONDUIT CROSS SECTION
(● INDICATES CONDUIT OCCUPIED
○ INDICATES SPARE CONDUIT)
BORED CONDUIT CROSS SECTION
(● INDICATES CONDUIT OCCUPIED
○ INDICATES SPARE CONDUIT)
BRIDGE MOUNTED CONDUIT CROSS SECTION
(● INDICATES CONDUIT OCCUPIED
○ INDICATES SPARE CONDUIT)

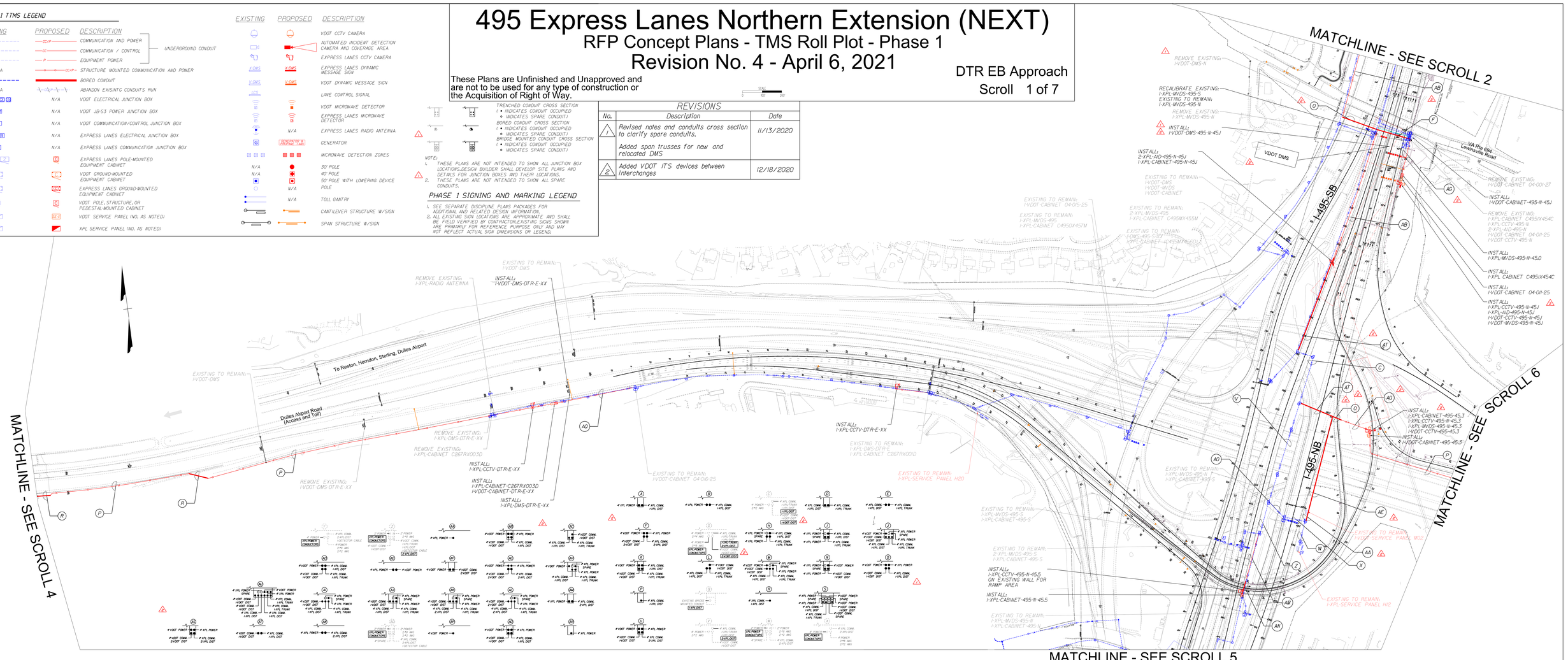
NOTE:
1. THESE PLANS ARE NOT INTENDED TO SHOW ALL JUNCTION BOX LOCATIONS.DESIGN BUILDER SHALL DEVELOP SITE PLANS AND DETAILS FOR JUNCTION BOXES AND THEIR LOCATIONS.
2. THESE PLANS ARE NOT INTENDED TO SHOW ALL SPARE CONDUITS.

PHASE 1 SIGNING AND MARKING LEGEND

1. SEE SEPARATE DISCIPLINE PLANS PACKAGES FOR ADDITIONAL AND RELATED DESIGN INFORMATION.
2. ALL EXISTING SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR.EXISTING SIGNS SHOWN ARE PRIMARILY FOR REFERENCE PURPOSE ONLY AND MAY NOT REFLECT ACTUAL SIGN DIMENSIONS OR LEGEND.

REVISIONS

No.	Description	Date
1	Revised notes and conduits cross section to clarify spare conduits. Added span trusses for new and relocated DMS	11/13/2020
2	Added VDOT ITS devices between interchanges	12/18/2020



495 Express Lanes Northern Extension (NEXT)

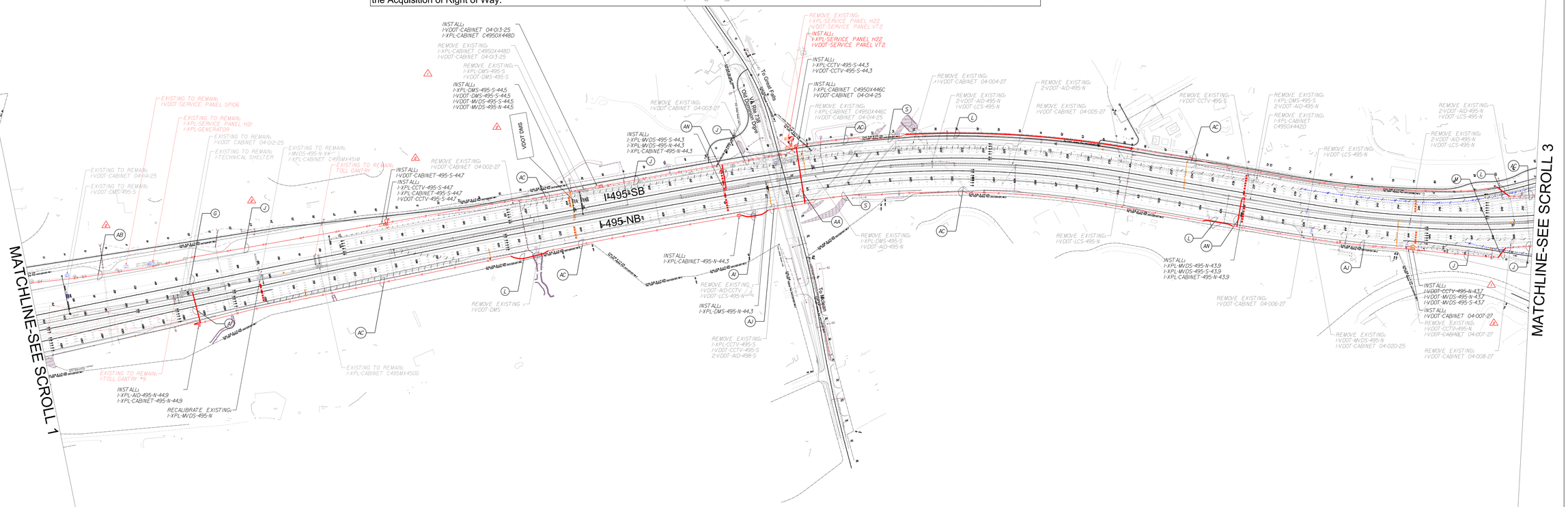
RFP Concept Plans - TMS Roll Plot - Phase 1

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

495 Mainline
Scroll 2 of 7

REVISIONS		
No.	Description	Date
1	Revised DMS location to match with signing design. Add VDOT MVDS between interchange for each direction.	11/13/2020
2	Added VDOT ITS devices between interchanges	12/18/2020



495 Express Lanes Northern Extension (NEXT)

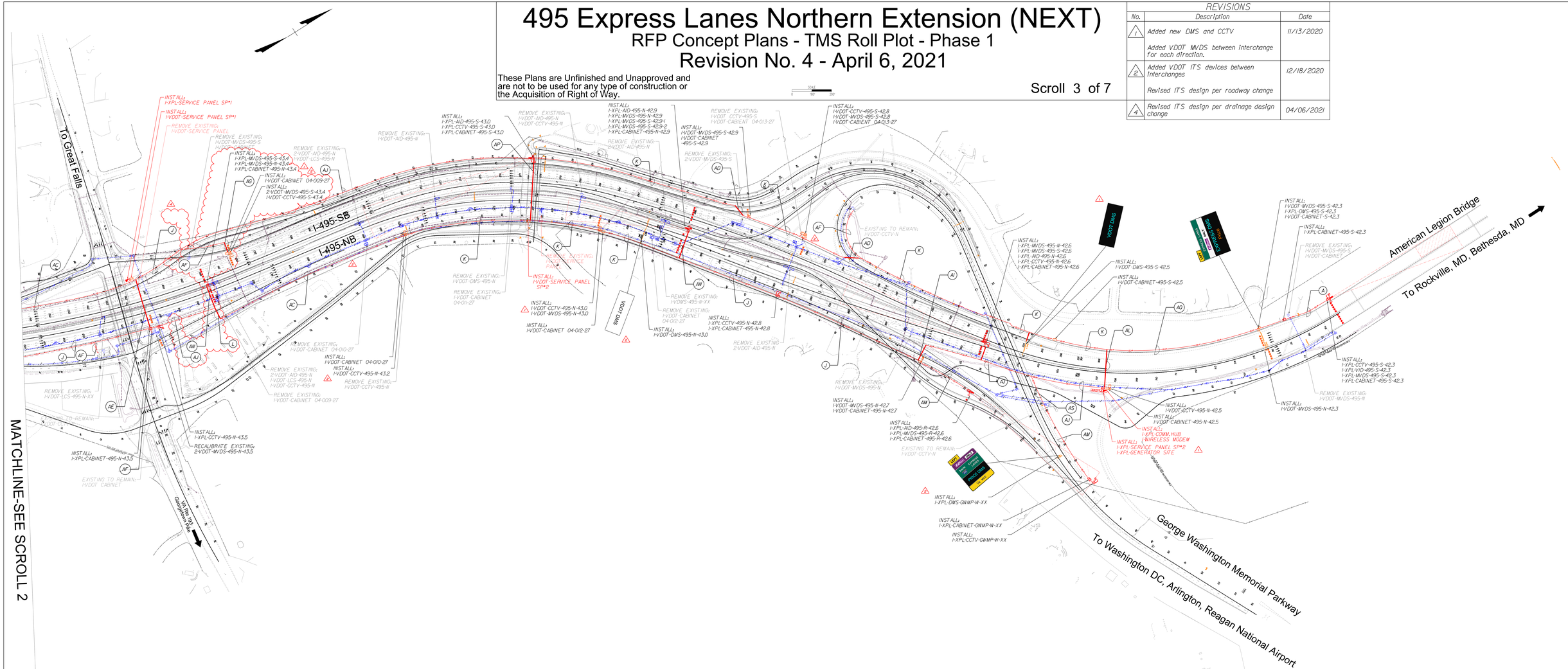
RFP Concept Plans - TMS Roll Plot - Phase 1

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

Scroll 3 of 7

REVISIONS		
No.	Description	Date
1	Added new DMS and CCTV Added VDOT MVDS between Interchange for each direction.	11/13/2020
2	Added VDOT ITS devices between Interchanges Revised ITS design per roadway change	12/18/2020
4	Revised ITS design per drainage design change	04/06/2021



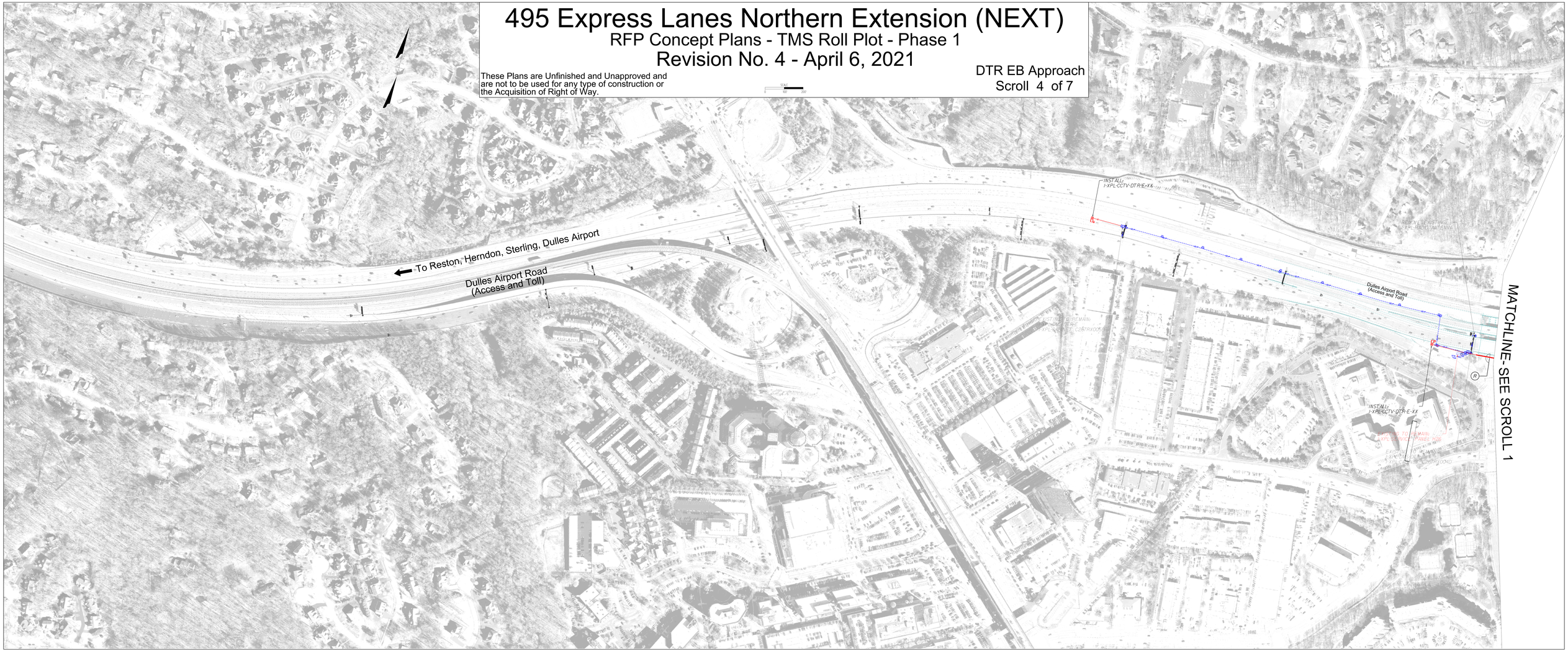
495 Express Lanes Northern Extension (NEXT)

RFP Concept Plans - TMS Roll Plot - Phase 1

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

DTR EB Approach
Scroll 4 of 7



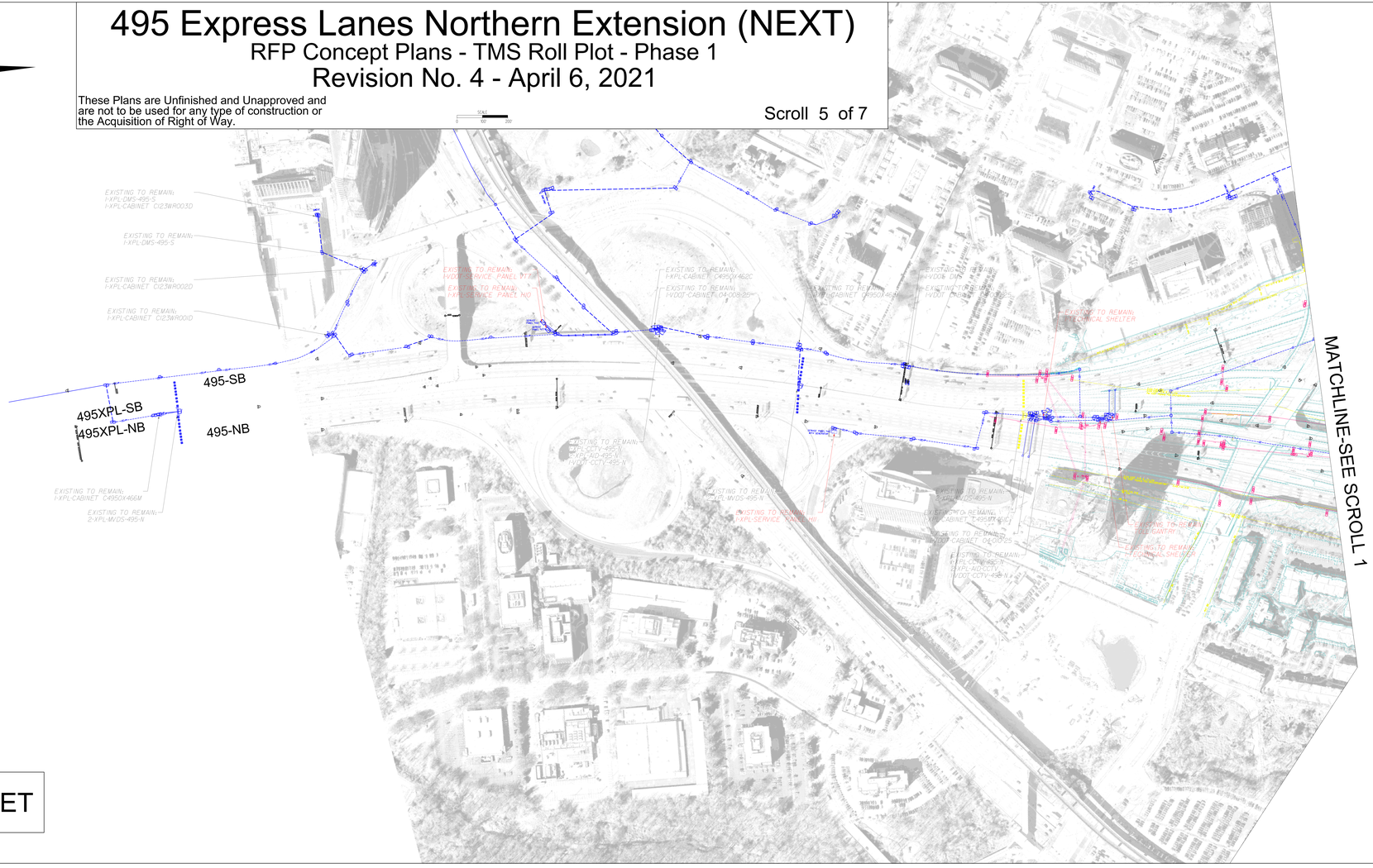
495 Express Lanes Northern Extension (NEXT)

RFP Concept Plans - TMS Roll Plot - Phase 1

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

Scroll 5 of 7


EXISTING TO REMAIN:
I-XPL-DMS-495-S
I-XPL-CABINET C123WR003D
EXISTING TO REMAIN:
I-XPL-DMS-495-S
EXISTING TO REMAIN:
I-XPL-CABINET C123WR002D
EXISTING TO REMAIN:
I-XPL-CABINET C123WR001D
495-SB
495XPL-SB
495XPL-NB
495-NB
EXISTING TO REMAIN:
I-XPL-CABINET C4950X466M
EXISTING TO REMAIN:
2-XPL-MVDS-495-N
EXISTING TO REMAIN:
I-VDOT-SERVICE PANEL 017
EXISTING TO REMAIN:
I-XPL-SERVICE PANEL 010
EXISTING TO REMAIN:
I-XPL-CABINET C495V462C
EXISTING TO REMAIN:
I-VDOT-CABINET 04-009-25C
EXISTING TO REMAIN:
I-XPL-CABINET C4950X466M
EXISTING TO REMAIN:
I-VDOT-CABINET 04-009-25C
EXISTING TO REMAIN:
I-XPL-CCTV-495-N
I-XPL-NID-495-N
I-VDOT-CCTV-495-N
EXISTING TO REMAIN:
2-XPL-MVDS-495-N
EXISTING TO REMAIN:
I-XPL-SERVICE PANEL 011
EXISTING TO REMAIN:
2-XPL-MVDS-495-N
EXISTING TO REMAIN:
I-XPL-CABINET C495V462C
EXISTING TO REMAIN:
I-XPL-CABINET C4950X466M
EXISTING TO REMAIN:
I-VDOT-CABINET 04-009-25C
EXISTING TO REMAIN:
I-XPL-CCTV-495-N
I-XPL-NID-CCTV
I-VDOT-CCTV-495-N
EXISTING TO REMAIN:
I-VDOT-CABINET 04-009-25C
EXISTING TO REMAIN:
TECHNICAL SHELTER
EXISTING TO REMAIN:
I-VDOT-CABINET 04-009-25C
EXISTING TO REMAIN:
I-VDOT-CABINET 04-009-25C
EXISTING TO REMAIN:
I-XPL-CCTV-495-N
I-XPL-NID-CCTV
I-VDOT-CCTV-495-N
EXISTING TO REMAIN:
I-VDOT-CABINET 04-009-25C

495 Express Lanes Northern Extension (NEXT)

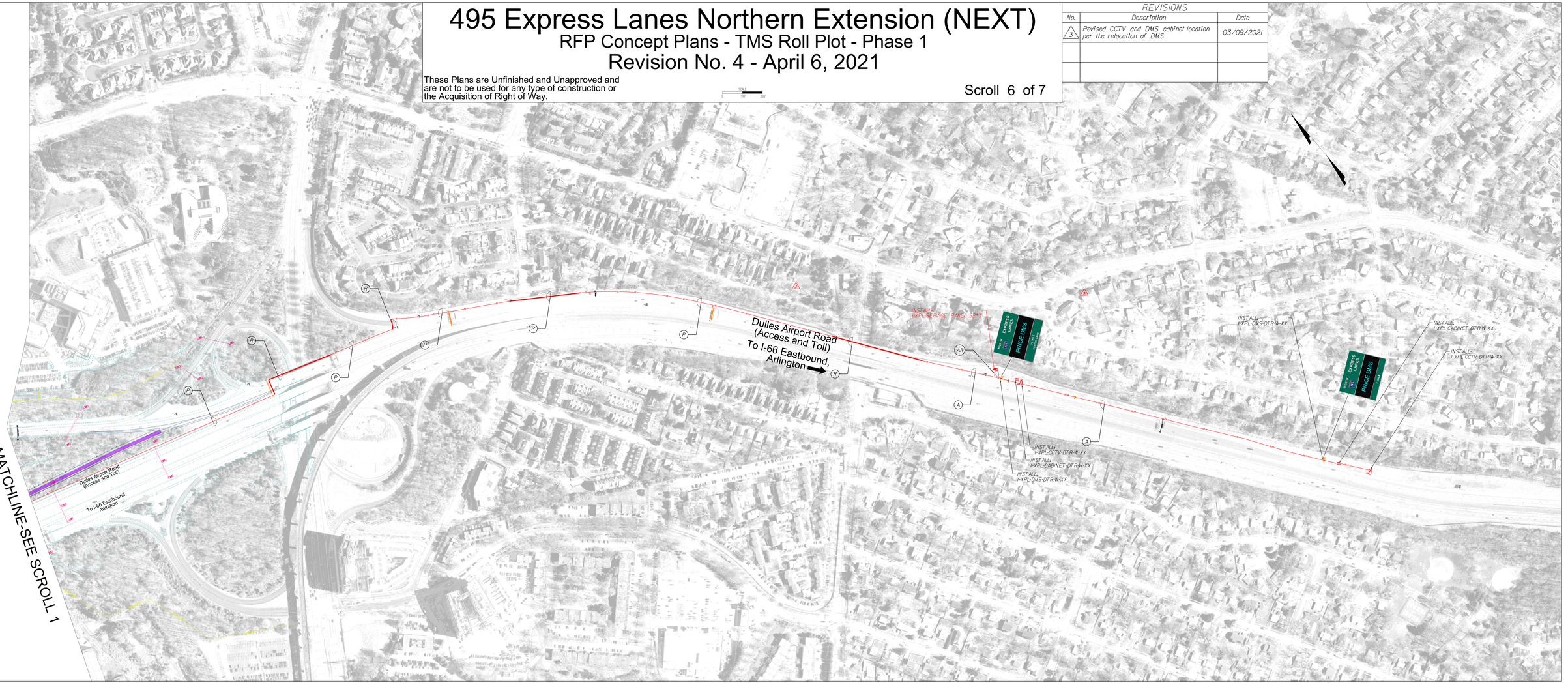
RFP Concept Plans - TMS Roll Plot - Phase 1

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

Scroll 6 of 7

REVISIONS		
No.	Description	Date
3	Revised CCTV and DMS cabinet location per the relocation of DMS	03/09/2021



495 Express Lanes Northern Extension (NEXT)

RFP Concept Plans - TMS Roll Plot - Phase 1

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

SCALE

Scroll 7 of 7



495 Express Lanes Northern Extension (NEXT)

Not to Preclude Phase 2 Works - Dulles Toll Road Interchange

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

REVISIONS		
No.	Description	Date
1	Revised Lewinsville SUP	04/06/2021

LEGEND - NOT TO PRECLUDE FUTURE ITEMS

- FUTURE BY OTHERS - EXPRESS LANES & RAMPS
- FUTURE BY OTHERS - GENERAL PURPOSE LANE IMPROVEMENTS
- FUTURE BY OTHERS - PAVED SHOULDER/MEDIANS
- FUTURE BY OTHERS - BRIDGE
- FUTURE BY OTHERS - SHARED USE PATH
- PHASE I COMPLETED CONSTRUCTION WORKS

SCALE 0 400 800

Dunsinane Ct
MacBeth St
Titania Ln
Oberon Way
Elsinore Ave
Falstaff Rd
Lear Rd
Snow M
Scotts Run Rd
VA Rte 694
Lewinsville Road
Northwyck Ct
To Reston, Herndon, Sterling, Dulles Airport
Dulles Airport Road
(Access and Toll)
Jones Branch Dr
Park Run Dr
Westbranch Dr
Jones Branch Dr
Scotts Crossing Rd
Dulles Airport Road
(Access and Toll)
To I-66 Eastbound, Arlington

495 Express Lanes Northern Extension (NEXT)

Not to Preclude Phase 2 Works - 495 Express Lanes Extension

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

REVISIONS		
No.	Description	Date
2	Revised Roadway and Drainage Design	12/18/2020
3	Revised RW3	3/19/2021
4	Revised Lewinsville SUP	04/06/2021

LEGEND - NOT TO PRECLUDE FUTURE ITEMS

- FUTURE BY OTHERS - EXPRESS LANES & RAMPS
- FUTURE BY OTHERS - GENERAL PURPOSE LANE IMPROVEMENTS
- FUTURE BY OTHERS - PAVED SHOULDER/MEDIANS
- FUTURE BY OTHERS - BRIDGE
- FUTURE BY OTHERS - SHARED USE PATH
- PHASE I COMPLETED CONSTRUCTION WORKS



495 Express Lanes Northern Extension (NEXT)

Not to Preclude Phase 2 Works - GW Memorial Parkway Interchange

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

REVISIONS		
No.	Description	Date
2	Revised Roadway Design	12/18/2020
3	Revised Entrance to Langley Swim Club Revised NWP	3/19/2020
4	Revised Lewinsville SUP	04/06/2021

LEGEND - NOT TO PRECLUDE FUTURE ITEMS

- FUTURE BY OTHERS - EXPRESS LANES & RAMPS
- FUTURE BY OTHERS - GENERAL PURPOSE LANE IMPROVEMENTS
- FUTURE BY OTHERS - PAVED SHOULDER/MEDIANS
- FUTURE BY OTHERS - BRIDGE
- FUTURE BY OTHERS - SHARED USE PATH
- PHASE I COMPLETED CONSTRUCTION WORKS



495 Express Lanes Northern Extension (NEXT)

Not to Preclude Future Works - Dulles Toll Road Interchange

Revision No. 4 - April 6, 2021

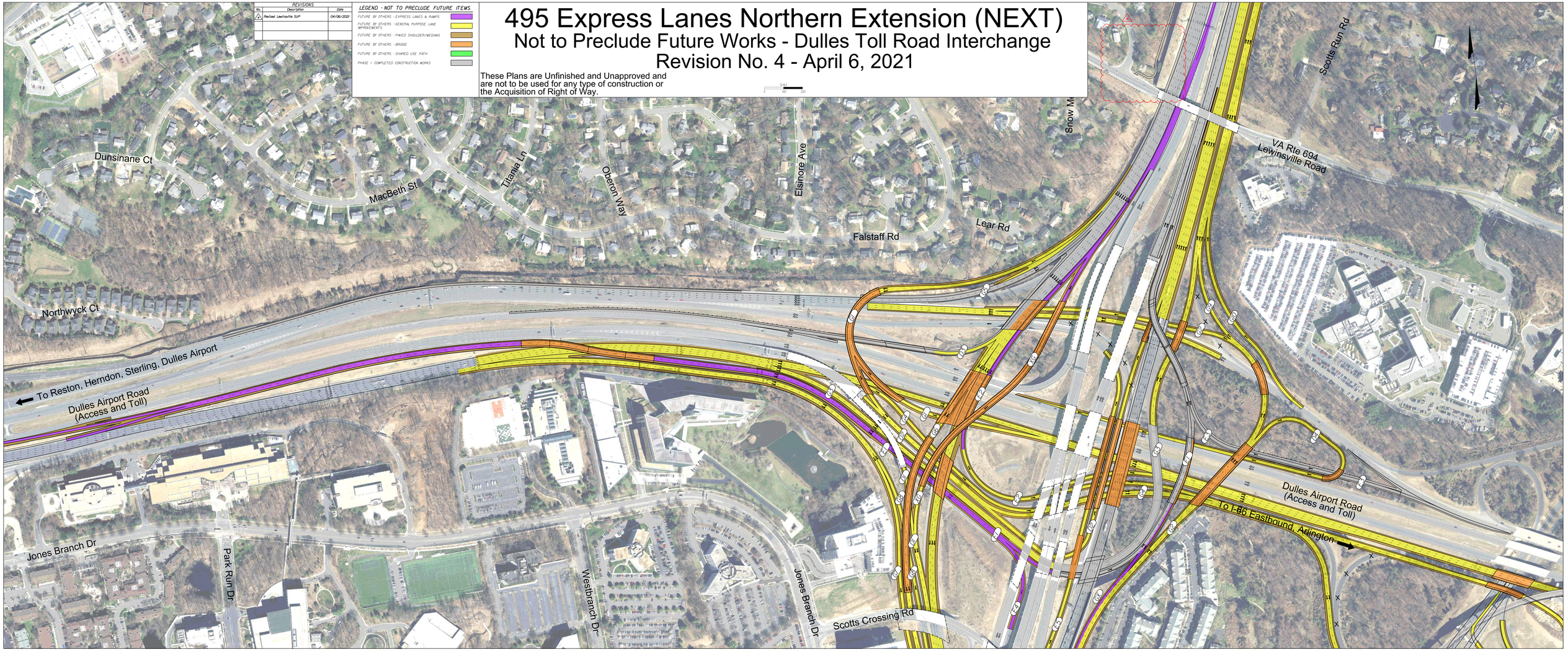
These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

REVISIONS		
No.	Description	Date
1	Revised Lewinsville SUP	04/06/2021

LEGEND - NOT TO PRECLUDE FUTURE ITEMS

- FUTURE BY OTHERS - EXPRESS LANES & RAMPS
- FUTURE BY OTHERS - GENERAL PURPOSE LANE IMPROVEMENTS
- FUTURE BY OTHERS - PAVED SHOULDER/MEDIANS
- FUTURE BY OTHERS - BRIDGE
- FUTURE BY OTHERS - SHARED USE PATH
- PHASE I COMPLETED CONSTRUCTION WORKS

SCALE 0 100 200



495 Express Lanes Northern Extension (NEXT)

Not to Preclude Future Works - 495 Express Lanes Extension

Revision No. 4 - April 6, 2021

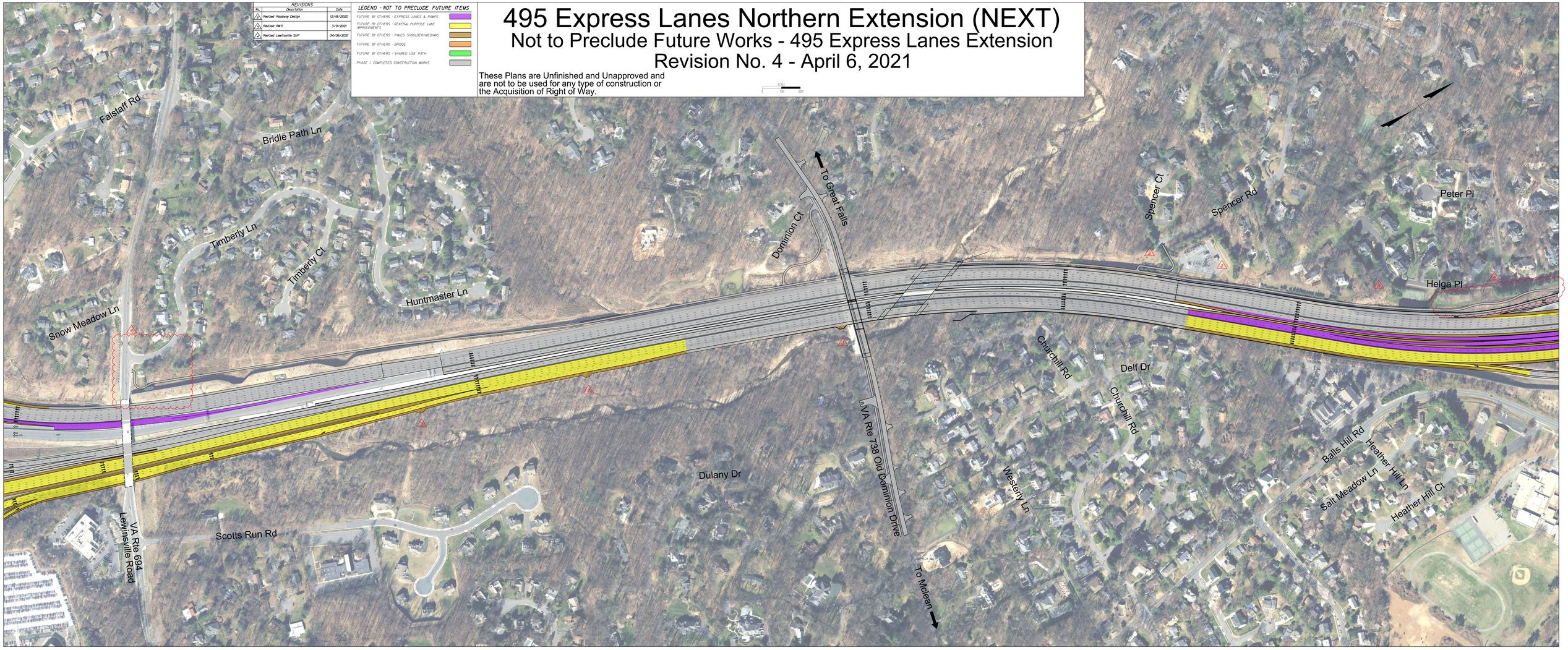
These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

REVISIONS		
No.	Description	Date
1	Revised Roadway Design	12/08/2020
2	Revised RW's	3/9/2020
3	Revised Lewinsville SUP	04/06/2020

LEGEND - NOT TO PRECLUDE FUTURE ITEMS

- FUTURE BY OTHERS - EXPRESS LANES & RAMPS
- FUTURE BY OTHERS - GENERAL PURPOSE LANE IMPROVEMENTS
- FUTURE BY OTHERS - PAVED SHOULDER/MEDIANS
- FUTURE BY OTHERS - BRIDGE
- FUTURE BY OTHERS - SHARED USE PATH
- PHASE I COMPLETED CONSTRUCTION WORKS

SCALE 0 500 1000



495 Express Lanes Northern Extension (NEXT)

Not to Preclude Future Works - GW Memorial Parkway Interchange

Revision No. 4 - April 6, 2021

These Plans are Unfinished and Unapproved and are not to be used for any type of construction or the Acquisition of Right of Way.

REVISIONS		
No.	Description	Date
2	Revised Roadway Design	12/18/2020
3	Revised Entrance to Langley Swim Club Revised NWF9	3/19/2021
4	Revised Lawtonville SUP	04/06/2021

LEGEND - NOT TO PRECLUDE FUTURE ITEMS

- FUTURE BY OTHERS - EXPRESS LANES & RAMPS
- FUTURE BY OTHERS - GENERAL PURPOSE LANE IMPROVEMENTS
- FUTURE BY OTHERS - PAVED SHOULDER/MEDIANS
- FUTURE BY OTHERS - BRIDGE
- FUTURE BY OTHERS - SHARED USE PATH
- PHASE I COMPLETED CONSTRUCTION WORKS

