

COMMONWEALTH of VIRGINIA

Commonwealth Transportation Board

W. Sheppard Miller III Chairperson 1401 East Broad Street Richmond, Virginia 23219 (804) 786-2701 Fax: (804) 786-2940

Agenda item # 5

RESOLUTION OF THE COMMONWEALTH TRANSPORTATION BOARD

July 18, 2023

MOTION

<u>Made By</u>: Dr. Smoot, <u>Seconded By</u>: Ms. Sellers <u>Action</u>: Motion Carried, Unanimously

Title: Authorization for the Commissioner of Highways to Enter into an Agreement and a Special Use Permit with the National Park Service Regarding the Construction and Maintenance of a Pedestrian Bridge Carrying the Appalachian Trail over Virginia State Route 311 (UPC #111066).

WHEREAS, the United States Department of the Interior National Park Service ("NPS") owns and protects the Appalachian National Scenic Trail (the "Trail" or the "Park"); and

WHEREAS, hikers on the Trail must traverse over Virginia State Route 311 through live traffic at an on-grade crossing near McAfee Knob and Scenic Overview, one of the most photographed sections of the Park with approximately 50,000 visitors annually; and

WHEREAS, the Virginia Department of Transportation ("VDOT") intends to construct a new pedestrian bridge carrying the Trail over Route 311, beginning approximately one tenth of a mile west of Route 864 (Old Catawba Rd) and extending approximately one and nine hundredths of a mile east of Route 698 (Keffer Rd), as well as retaining walls and approaches for the new pedestrian bridge (UPC #111066) (the "Project"); and

WHEREAS, VDOT will construct the Project, estimated to cost \$3.2 million, with federal Highway Safety Improvement Program funds to improve the safety of both motorists on Route 311 and Park visitors/Trail users; and

WHEREAS, upon completion of construction by VDOT, NPS shall accept ownership of the pedestrian bridge and, along with the support from NPS' partners, the Appalachian Trail Resolution of the Board

Authorization for the Commissioner of Highways to Enter into an Agreement and a Special Use Permit with the National Park Service Regarding the Construction and Maintenance of a Pedestrian Bridge Carrying the Appalachian Trail over Virginia State Route 311 (UPC #111066) July 18, 2023

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Conservancy ("ATC") and the Roanoke Appalachian Trail Club ("RATC"), maintain the structure in a way that does not adversely affect the operation and integrity of Route 311, with VDOT having no further responsibility for future maintenance; and

WHEREAS, VDOT and NPS have developed an agreement (the "Agreement"), set forth as Attachment A hereto, providing for the roles and responsibilities related to the construction and future maintenance of the Project; and

WHEREAS, delivery of the Project requires VDOT to have temporary construction access to the Park, and NPS requires that VDOT enter into a Special Use Permit, set forth as Attachment B hereto, to govern such access rights and duties relating to the work performed on and near the Park for the Project; and

WHEREAS, the Commonwealth Transportation Board ("CTB") is authorized under Va. Code § 33.2-221(A) to enter into all contracts and agreements with the United States government, including the NPS; and

WHEREAS, VDOT requests that the CTB approve, and authorize the Commissioner of Highways to enter into and execute, the Agreement with NPS and its partners ATC and RATC in order to implement the Project; and

WHEREAS, VDOT further requests that the CTB approve, and authorize the Commissioner of Highways to execute, a Special Use Permit between VDOT and NPS granting VDOT temporary access rights to the Park required for the Project.

NOW THEREFORE, BE IT RESOLVED, that the CTB hereby approves, and authorizes the Commissioner of Highways to execute, the Agreement among VDOT, NPS, ATC, and RATC establishing the coordination of construction and future maintenance of the Project, substantively similar to Attachment A, with such changes as the Commissioner deems necessary or appropriate.

BE IT FURTHER RESOLVED, that the CTB hereby approves, and authorizes the Commissioner of Highways to execute, the Special Use Permit between VDOT and NPS, governing access rights and duties relating to the work and improvements on Park property concerning the Project, substantively similar to Attachment B, with such changes as the Commissioner deems necessary or appropriate.

BE IT FURTHER RESOLVED, the Commissioner of Highways is authorized to take all actions and execute any and all other documents necessary to implement the Project.

CTB Decision Brief

Title: Authorization for the Commissioner of Highways to Enter into an Agreement and a

Special Use Permit with the National Park Service Regarding the Construction and

Maintenance of a Pedestrian Bridge Carrying the Appalachian Trail over Virginia

State Route 311 (UPC #111066)

Issue: Pursuant to Va. Code § 33.2-221(A), the Virginia Department of Transportation ("VDOT") seeks from the Commonwealth Transportation Board ("CTB") approval of, and authority for, the Commissioner of Highways to enter into an agreement and a special use permit related to the construction and maintenance of a new pedestrian bridge carrying the Appalachian Trail over Virginia State Route 311. The US Department of the Interior National Park Service ("NPS") owns and protects the Appalachian National Scenic Trail (the "Trail" or the "Park").

Facts:

- The proposed agreement between VDOT and NPS, as well as NPS' partners, the Appalachian Trail Conservancy ("ATC") and the Roanoke Appalachian Trail Club ("RATC"), provides for the coordination of construction and maintenance for the new, grade-separated pedestrian bridge and approaches carrying the Trail over Route 311 near the popular McAfee Knob trailhead, beginning approximately one tenth of a mile west of Route 864 (Old Catawba Rd), and extending approximately one and nine hundredths of a mile east of Route 698 (Keffer Rd) (the "Project").
- VDOT will construct the Project, estimated to cost \$3.2 million and financed with federal Highway Safety Improvement Program funds in the Six-Year Improvement Program, in order to eliminate an at-grade crossing to improve the safety of both motorists on Route 311 and Park visitors/Trail users.
- Upon completion of construction, NPS shall accept ownership of the pedestrian bridge and, along with NPS' partners ATC and RATC, maintain the Project in perpetuity in a manner that does not adversely affect the operation and integrity of Route 311, with VDOT having no further responsibility for future maintenance of the pedestrian bridge.
- In furtherance of the Project, NPS also requires that VDOT enter into a special use permit granting VDOT temporary access rights needed to construct the pedestrian bridge over Route 311. The special use permit will provide the conditions for access, construction, and other temporary rights needed from NPS to construct the Project.

Recommendations: VDOT recommends that the CTB approve the agreement and special use permit, attached hereto as Attachments A and B respectively, and authorize the Commissioner of Highways to execute the Agreement and Special Use Permit with such changes as the Commissioner deems necessary or appropriate. VDOT further recommends that the CTB authorize the Commissioner to take all actions and execute any and all other documents necessary to implement the Project.

Action Required by CTB: Section 33.2-221(A) of the *Code of Virginia* requires a majority of the CTB's members to authorize the Commissioner to enter into the agreement and special use permit with NPS, an entity of the US government.

CTB Decision Brief: Agreement and Special Use Permit with NPS for Route 311 Pedestrian Bridge July 18, 2023 Page 2 of 2

Result, if Approved: The Commissioner will execute both the agreement and special use permit, which will facilitate construction of a pedestrian bridge over Route 311 and provide a grade-separated crossing for users of the Trail.

Options: Approve, Deny, or Defer.

Public Comments/Reactions: While there were no comments or other input received from the public regarding the agreement or the special use permit, there was robust engagement from the public during the early planning and development phases of the Project.

GENERAL AGREEMENT
AMONG
THE U.S. DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
APPALACHIAN NATIONAL SCENIC TRAIL
AND
VIRGINIA DEPARTMENT OF TRANSPORTATION
AND
APPALACHIAN TRAIL CONSERVANCY
AND
ROANOKE APPALACHIAN TRAIL CLUB
FOR

MAINTENANCE OF THE PEDESTRIAN BRIDGE CARRYING THE APPALACHIAN TRAIL OVER VIRGINIA STATE ROUTE 311 (UPC 111066)

This General Agreement (Agreement) is hereby entered into on the date of last execution below by and among the Virginia Department of Transportation (VDOT), the Appalachian Trail Conservancy (ATC or Partner), the Roanoke Appalachian Trail Club (RATC or Partner), and the U.S. Department of the Interior, National Park Service, Appalachian National Scenic Trail (NPS-APPA) (each a Party and, collectively, the Parties). For the purposes of this Agreement, Partner shall mean ATC and RATC, and shall not include VDOT. Non-Federal entities include all Parties other than NPS-APPA.

ARTICLE I – Background And Objectives:

The purpose of this Agreement is to establish the guidelines for coordination among VDOT, NPS-APPA, ATC, and RATC for the Parties' responsibilities related to the construction and maintenance of the new, grade-separated pedestrian bridge and approaches carrying the Appalachian Trail over Virginia State Route 311 (VA-311) at the McAfee Knob Parking Area in Virginia's Triple Crown (Pedestrian Bridge).

The Appalachian National Scenic Trail (APPA) is a unit within the National Park Service (NPS) tasked with the administration and protection of the Appalachian National Scenic Trail (Trail). The Trail is a pathway that is continuous from Mount Katahdin in Maine to Springer Mountain in Georgia, for travel on foot through the wild, scenic, wooded, pastoral, and culturally significant lands of the Appalachian Mountains. It affords opportunities for backcountry recreation and long-distance hiking that are among the best in the world. Millions of visitors come to the Trail each year, for hikes as short as an afternoon's walk and as long as a five-month trek from Georgia to Maine. The Trail was completed in 1937, and with passage of the 1968 National Trails System Act [P.L. 90-543 (82 Stat. 919), as amended], was designated a national scenic trail. By law, responsibility for administration of the Trail rests with the Secretary of the Interior and is carried out by NPS-APPA. The Trail is preserved for the conservation, public use, enjoyment, and appreciation of the nationally significant scenic, historic, natural, and cultural quality of the areas through which it passes.

The Appalachian Trail Conservancy (ATC) is a non-profit organization that supports NPS-APPA in its administration and protection of the Trail. Its focus includes organizing and mentoring volunteer trail clubs that aid in the day-to-day management and operations of the Trail. Following provisions in the National Trails System Act, ATC works in partnership with NPS-APPA through the 2014 Cooperative

Attachment A

Agreement to manage non-inherently governmental responsibilities for NPS-acquired lands outside existing National Park boundaries.

The Virginia Department of Transportation (VDOT) is responsible for building, maintaining, and operating the Commonwealth's roads, bridges, and tunnels. VDOT's mission is to plan, deliver, operate and maintain a transportation system that is safe, enables easy movement of people and goods, enhances the economy and improves our quality of life. Virginia has the third-largest state-maintained highway system in the country, behind Texas and North Carolina. In totality, VDOT maintains over 50,000 lane miles of highway including the section of VA-311 that intersects with the Trail at an at-grade crossing.

The Roanoke Appalachian Trail Club (RATC) is an independent Virginia 501(c)(3) non-profit organization that is a maintaining club for over 120 miles of the Trail in Virginia, including the section covered by the 2010 *Memorandum of Understanding for the Appalachian National Scenic Trail in the Commonwealth of Virginia*. RATC volunteers build and maintain the Trail and connecting trails, manage 16 shelters on the Trail, and patrol Virginia's Triple Crown (Dragon's Tooth, McAfee Knob, and Tinker Cliffs) as trained volunteer ridge runners. The Local Management Plan for RATC's assigned section of the Trail describes the relationship among the club and other partners such as NPS-APPA, ATC, and the U.S. Forest Service.

ARTICLE II – Legal Authority:

A. For NPS-APPA:

54 U.S.C. § 101101 et seq., and in particular 54 U.S.C. § 101101 -- The National Park Service Organic Act -- The Secretary of Interior is authorized to accept donations of land, buildings, or other property within a National Park System Unit.

82 Stat. 919 (1968), 16 U.S.C. §§ 1241-1251 and in particular 16 U.S.C. § 1246(h)(l) -- The National Trails System Act -- The Secretary of the Interior is authorized to cooperate with States in the operation and maintenance of National Scenic Trails.

54 U.S.C. § 100101 et seq., General Authority to Take Actions That Promote and Regulate Units of the National Park System -- The NPS Organic Act directs the Secretary of the Interior to "promote and regulate the use of the National Park System by means and measures that conform to the fundamental purpose of the System units, which purpose is to conserve the scenery, natural and historic objects, and wild life in the System units and to provide for the enjoyment of the scenery, natural and historic objects, and wild life in such manner and by such means as will leave them unimpaired for the enjoyment of future generations."

54 U.S.C. § **102301** — Acceptance of Volunteer Services — The Secretary of the Interior is authorized to "recruit, train, and accept … the services of individuals without compensation as volunteers for or in the aid of interpretive functions or other visitor services or activities in and related to" areas of the National Park System. Such volunteers may not be used for "hazardous duty or law enforcement work or in policymaking processes, or to displace any employee." A special exception allows the acceptance of the services of individuals that the Secretary determines "are skilled in performing hazardous activities."

43 U.S.C. § 1473a -- General Authority for NPS to Accept Contributions -- "The Secretary [of the Interior] is authorized to accept lands, buildings, equipment, [and] other contributions, ... and to prosecute projects using such contributions ... in cooperation with other Federal, State or private agencies."

B. For VDOT:

Va. Code § 33.2-221 authorizes the Commonwealth Transportation Board (CTB) to enter into all contracts or agreements with the United States government and, pursuant to resolution dated [*] and attached hereto as Appendix A, has authorized the Commissioner of Highways to enter into this Agreement.

Va. Code § 33.2-223 authorizes the Commissioner of Highways to do all acts necessary or convenient for constructing, improving, maintaining, and preserving the efficient operation of the highways and charges the Commissioner, as executive head of VDOT, with the duty of executing all orders of the CTB.

ARTICLE III – Responsibilities and Understandings of the Parties:

The Parties agree as follows to perform the functions specified below in accordance with the provisions of this Agreement. Each Party shall be responsible for its own expenses incurred under this Agreement, and nothing contained herein shall be interpreted as obligating any payment by the NPS for goods or services provided by any non-Federal entity.

A. NPS-APPA agrees to:

- 1. Upon notification by VDOT that construction of the Pedestrian Bridge has been completed and is safe for use, accept ownership of the Pedestrian Bridge into its inventory as an asset of NPS-APPA and accept all responsibilities of ownership thereof on behalf of the United States.
- 2. Utilize all legally available means to maintain the Pedestrian Bridge in an open, safe, and well-kept manner that does not adversely affect the safe operation or integrity of the VA-311 roadway.
- 3. Collaborate with the Partners to seek federal funding to support future cyclic maintenance, repair, and rehabilitation needs for the Pedestrian Bridge.
- 4. Review and approve or deny all proposed third-party agreements of a material nature submitted to NPS-APPA relating to the Pedestrian Bridge.
- 5. Allow use of NPS-APPA property by the non-Federal entities for the sole and exclusive purpose of achieving the goals and objectives of this Agreement.
- 6. Once NEPA Compliance is completed and permit approvals are in place grant access to the Project site and all other areas needed by VDOT and/or its contractors for the implementation and oversight of Project construction activities.

B. VDOT agrees to:

- 1. Continue to own, operate, and maintain the VA-311 roadway and VDOT right of way.
- 2. Convey to the United States all right, title, and interest in or to the completed Pedestrian Bridge once completed. At the NPS's request, VDOT will execute any documents necessary to confirm the United States' title of the Pedestrian Bridge. VDOT shall retain all other right, title, and interests in the real property unrelated to the transfer of the Pedestrian Bridge structure, including but not limited to the right of way beneath the Pedestrian Bridge in the VA-311 roadway, as depicted and attached hereto as Appendix B.
- 3. Convey to NPS-APPA a complete set of "as-built" design drawings and copies of all manuals and other documentation pertaining to the Pedestrian Bridge necessary to ensure proper identification, management, maintenance, and repair, including one hardcopy and one electronic copy of final schematic drawings.
- 4. Provide funding as allocated by the CTB in the Fiscal Year 2023-2028 Six-Year Improvement Program for the implementation of the Project (UPC 111066).
- 5. Lead the planning and design phase of the Project, with the participation and coordination with NPS-APPA, and manage the construction of the Project in accordance with all applicable federal, state, and local laws and regulations.

C. ATC agrees to assist the NPS with their ownership and maintenance responsibilities by:

- 1. Maintaining an open, safe, and well-kept Pedestrian Bridge in a manner that does not adversely affect the safe operation or integrity of the VA-311 roadway.
- 2. Ensuring that the Pedestrian Bridge is inspected by a certified engineer at a cycle not longer than once every four (4) years and in accordance with VDOT's applicable bridge safety inspection standards.
- 3. Sharing the inspection report produced by the certified engineer as referenced above with all Parties to this Agreement.
- 4. Ensuring ice and snow removal services are available as needed for the Pedestrian Bridge to comply with the applicable Architectural Barriers Act accessibility standards.

D. RATC agrees to assist the NPS with their ownership and maintenance responsibilities by:

- 1. Maintaining an open, safe, and well-kept Pedestrian Bridge in a manner that does not adversely affect the safe operation or integrity of the VA-311 roadway.
- 2. Performing routine operational maintenance activities on the Pedestrian Bridge including, but not limited to, vegetation clearing, litter removal, and minor graffiti removal.

E. NPS-APPA and the non-Federal entities jointly agree to:

- 1. Work together to collaborate in the planning and design of the Pedestrian Bridge.
- 2. Participate in regular meetings, to foster close cooperation on implementation of this Agreement.
- 3. Work together in good faith to resolve differences at the level of the Key Officials listed in this Agreement prior to elevating matters within the Partner organizations or appealing elsewhere within NPS or the federal government.
- 4. Comply with the terms of applicable laws, regulations, and government policies.
- 5. Make timely decisions on matters necessary to properly implement and administer this Agreement.
- 6. Work in good faith to execute other legal instruments needed to supplement this Agreement as necessary to meet the mutual objectives of the Parties. Such agreements may include without limitation Fundraising Agreements, Partnership Agreements, and Cooperative Agreements.
- 7. Recognize and acknowledge that VDOT shall have no responsibility or obligation to maintain the Pedestrian Bridge in any manner once construction is completed and ownership of the Pedestrian Bridge has been accepted by NPS-APPA pursuant to Section III (A)(1).

ARTICLE IV – Term of Agreement:

This Agreement will run from the date of the final signature until January 1, 2032, unless otherwise terminated earlier in accordance with ARTICLE V.

ARTICLE V – Termination and Expiration:

The Parties may terminate this Agreement at any time by mutual agreement, upon such terms to which they agree and as recited in a written agreement.

ARTICLE VI - Key Officials:

All notices, requests, modifications, and other communications that are required to be in writing, and all concerns regarding the technical implementation and interpretation of this Agreement, shall be personally delivered, emailed, or mailed by certified or registered mail to the persons listed below. All written communications shall be deemed to have been given upon receipt if personally delivered or emailed, or on the fifth business day after mailing. All Parties should be notified if a Key Official changes.

NPS-APPA:

Keith Stegall NPS-APPA Chief of Facilities P.O. Box 50 252 McDowell Street Harpers Ferry, WV 25425 (301) 712-6729 keith_stegall@nps.gov

Edward Wenschhof NPS-APPA Superintendent P.O. Box 50 252 McDowell Street Harpers Ferry, WV 25425 (304) 535-6279 ed_wenschhof@nps.gov

ATC:

Andrew Downs ATC Senior Regional Director - South 416 Campbell Avenue SW, Suite 101 Roanoke, VA 24016 (540) 904-4354

VDOT:

Kenneth H King, Jr. VDOT District Engineer 731 Harrison Avenue Salem, VA 24153 (540) 387-5324 ken.king@vdot.virginia.gov

RATC:

Therese Witcher RATC Club President P.O. Box 562 Daleville, VA 24083 (540) 266-8912

ARTICLE VII – Prior Approval:

The Partners shall obtain prior written approval from NPS-APPA before:

- 1. Holding special events within the Park;
- 2. Entering into third-party agreements of a material nature;
- 3. Assigning this Agreement or any part thereof;
- 4. Constructing any structure or making any improvements within the Park;
- 5. Releasing any public information that refers to the Department of the Interior, NPS, NPS-APPA, the Park, any NPS employee (by name or title), this Agreement or the projects contemplated hereunder.

ARTICLE VIII – Liability and Insurance:

The Partners shall indemnify, defend and hold harmless the United States of America and the Commonwealth of Virginia, and their respective agents and employees from and against any and all liabilities, obligations, losses, damages, judgments, claims, actions, suits, penalties, fines, costs and expenses (including reasonable attorneys' fees and experts' fees) of any kind and nature whatsoever arising out of the acts or omissions of the Partners, their respective employees, volunteers, agents or contractors (including any contractor's subcontractors), including injury to persons (including injury resulting in death) and damage to property. The Partners shall promptly pay the United States of America or the Commonwealth of Virginia the full value of all damages to the lands or other property of the United States of America or the Commonwealth of Virginia caused by the Partners, their respective employees, volunteers, agents, representatives, or contractors (including any contractor's subcontractors) or, if agreed to by the Partners will cooperate with NPS-APPA and/or VDOT in the investigation and defense of any claims that may be filed with NPS-APPA and/or VDOT arising out of the activities of the Partners, their employees, volunteers, agents, representatives or contractors (including any contractor's subcontractors).

ARTICLE IX - Right of Inspection and Audit and Annual Work Plan:

- A. Right of Inspection and Audit. The Partners shall permit the Department of the Interior or its designee, including the NPS Comptroller and Office of the Inspector General, to verify and audit any financial audit or records from the books, correspondence, memoranda and other records of the Partners relating to this Agreement or any other agreement executed in connection herewith, during the term of this Agreement and for such time thereafter as may be necessary to accomplish such verification. The Partners agree to take appropriate corrective action based on these audit findings.
- **B.** Annual Work Plan. Prior to the beginning of each calendar year, the Parties shall jointly develop a written plan (Annual Work Plan) that (1) identifies the projects and programs, including maintenance and inspections, that the Parties agree to undertake in a specific year regarding the Pedestrian Bridge; (2) specifies the respective roles of NPS-APPA and the Partners in carrying out these projects; (3) describes the proposed services the Partners offer to NPS-APPA, if any, in connection with the Pedestrian Bridge and/or identifies any funds the Parties have agreed to set aside for use in future approved projects and/or programs; (4) identifies NPS-APPA's intent, if any, to accept such services to support the Pedestrian Bridge; and (5) defines any other

considerations in accomplishing the intent of this Agreement. The Parties may modify the Annual Work Plan, as appropriate, during the course of the Agreement term by mutually executed amendments.

ARTICLE X – Property Utilization:

All present and future alterations, additions, renovations, improvements, and installations permanently affixed to federally owned land will be owned by the United States.

ARTICLE XI – Intellectual Property:

- **A.** As used herein, "Intellectual Property" means with respect to a Party, all trademarks, service marks and corporate and brand identification and indicia, including without limitation word marks, logos and other picture marks, video and audio recordings, phrases, composite marks, institutional images, look and feel, images of such Party's employees, taglines, and web content, in each case, to the extent owned by such party, whether or not such property is trademarked or registered.
- **B.** No Party to this Agreement shall use any Intellectual Property (as herein described) of the other Party for any purpose (including, without limitation, for collateral marketing, outreach, advertising, or as trade names or internet domain names) without the prior written consent of such other Party, which consent may be withheld in such other Party's sole discretion. All uses by one Party of the other Party's Intellectual Property shall be in accordance with any requirements and/or quality control standards (including, without limitation copyright and trademark notices) on which the consenting Party may condition such consent or may promulgate from time to time by notice to the other Party. A Party retains all rights with respect to its Intellectual Property that are not specifically granted to the other Party. Each Party may, in its sole discretion, withdraw its consent to any use of its Intellectual Property by the other Party on five (5) business days' notice to such other Party. Each Party retains the right to concurrently use, and license others to use, its Intellectual Property anywhere in connection with any purpose.
- C. Each Party agrees that it shall not acquire and shall not claim rights in or title to any Intellectual Property of the other Party.

ARTICLE XII – General Provisions:

A. <u>Non-Discrimination</u>. All activities pursuant to or in association with this Agreement shall be conducted without discrimination on grounds of race, color, sexual orientation, national origin, disabilities, religion, age, or sex, as well as in compliance with the requirements of any applicable federal laws, regulations, or policies prohibiting such discrimination.

B. Appropriations.

1. Pursuant to 31 U.S.C. § 1341, nothing contained in this Agreement shall be construed to obligate NPS-APPA, NPS, the Department of the Interior, or the United States of America to any current or future expenditure of funds in advance of the availability of appropriations from Congress and their administrative allocation for the purposes of this Agreement, nor does this Agreement obligate NPS-APPA, NPS, the Department of the

- Interior, or the United States of America to spend funds on any particular project or purpose, even if funds are available.
- 2. All requirements for funds from the Commonwealth of Virginia are subject to appropriation by the General Assembly and allocation by the Commonwealth Transportation Board.
- C. <u>Member of Congress</u>. Pursuant to 41 U.S.C. § 6306, no Member of Congress may enter into or benefit from a contract or agreement or any part of a contract or agreement with the Federal Government.
- D. Lobbying with Appropriated Money. The non-Federal entities will not undertake activities, including lobbying for proposed non-Federal entity or NPS projects or programs, that seek to either (1) alter the appropriation of funds included in the President's budget request to Congress for the Department of the Interior or another federal agency that holds funds for the sole benefit of the NPS under Congressionally authorized programs, including the Federal Lands Highway Program; or (2) alter the allocation of such appropriated funds by NPS or another Federal agency. Nothing in this paragraph is intended to preclude the non-Federal entities from applying for and obtaining a competitive or non-competitive grant of Federal financial assistance from a Federal agency, or from undertaking otherwise lawful activities with respect to any non-Federal entity or NPS activity, project or program included in the President's budget request to Congress. Nothing in this paragraph should be construed as NPS requesting, authorizing or supporting advocacy by non-Federal entities before Congress or any other government official. Except as provided herein and in applicable laws, nothing in this paragraph shall be construed to curtail the non-Federal entity's ability to interact with elected officials.
- E. <u>Drug Free Workplace Act</u>. The non-Federal entities certify that comprehensive actions will be taken to ensure the workplace is drug-free.
- **F.** <u>Third Parties Not to Benefit</u>. This Agreement does not grant rights or benefits of any nature to any third party.
- G. <u>Assignment, Binding Effect</u>. No Party may assign any of its rights or obligations under this Agreement without the prior written consent of the other Parties. This Agreement shall be binding upon and inure to the benefit of the Parties hereto and their respective successors and permitted assigns. The Parties waive the defense of lack of consideration.
- **H.** <u>Non-exclusive</u>. This Agreement in no way restricts the Parties from entering into similar agreements, or participating in similar activities or arrangements, with other public or private agencies, organizations, or individuals.
- I. <u>Compliance with Applicable Laws</u>. This Agreement and performance hereunder is subject to all applicable laws, regulations and government policies, whether now in force or hereafter enacted or promulgated. Nothing in this Agreement shall be construed as (i) in any way impairing the authority of the NPS-APPA to supervise, regulate, and administer its property under applicable laws, regulations, and management plans or policies as they may be

- modified from time-to-time or (ii) inconsistent with or contrary to the purpose or intent of any Act of Congress.
- <u>Disclaimers of Government Endorsement</u>. The non-Federal entities will not publicize or circulate materials (such as advertisements, solicitations, brochures, press releases, speeches, pictures, movies, articles, manuscripts, or other publications), suggesting, expressly or implicitly, that the that the United States of America, the Department of the Interior, NPS, NPS-APPA, or any government employee endorses any business, brands, goods or services.
- K. Public Release of Information. The non-Federal entities must obtain prior written approval through the NPS-APPA Key Official (or his or her designee) for any public information releases (including advertisements, solicitations, brochures, and press releases) that refer to the Department of the Interior, any bureau, park unit, or employee (by name or title), or to this Agreement unless such releases of public information are otherwise required by law. The specific text, layout, photographs, etc., of the proposed release must be submitted with the request for approval. NPS-APPA will make a good-faith effort to expeditiously respond to such requests.
- L. <u>Merger</u>. This Agreement, including any attachments hereto, and/or documents incorporated by reference herein, contains the sole and entire agreement of the Parties.
- **M.** <u>Modification</u>. This Agreement may be extended, renewed, or amended only when agreed to in writing by all Parties.
- N. <u>Waiver</u>. Failure to enforce any provision of this Agreement by any Party shall not constitute waiver of that provision. Waivers must be express and evidenced in writing.
- O. <u>Counterparts</u>. This Agreement may be executed in counterparts, each of which shall be deemed an original (including copies sent to a party by facsimile transmission) as against the Party signing such counterpart, but which together shall constitute one and the same instrument.
- P. <u>Agency</u>. The non-Federal entities are not agents or representatives of the United States, the Department of the Interior, NPS, or the NPS-APPA, nor will the non-Federal entities represent themselves as such to third parties.
- Q. Survival. In addition to any other provision herein explicitly providing for survival, any and all provisions that, by themselves or their nature, are reasonably expected to be performed after the expiration or earlier termination of this Agreement shall survive and be enforceable after the expiration or earlier termination of this Agreement. Any and all liabilities, actual or contingent, that have arisen during the term of this Agreement and in connection with this Agreement shall survive expiration or termination of this Agreement.
- **R.** Partial Invalidity. If any provision of this Agreement or the application thereof to any Party or circumstance shall, to any extent, be held invalid or unenforceable, the remainder of this Agreement or the application of such provision to the Parties or circumstances other than those to which it is held invalid or unenforceable shall not be affected thereby, and each

Attachment A

provision of this Agreement shall be valid and be enforced to the fullest extent permitted by law.

- S. <u>Captions and Headings</u>. The captions, headings, article numbers, and paragraph numbers and letters appearing in this Agreement are inserted only as a matter of convenience and in no way shall be construed as defining or limiting the scope or intent of the provisions of this Agreement nor in any way affecting this Agreement.
- T. <u>VDOT Appropriations</u>. Obligations of VDOT pursuant to this Agreement are subject to appropriation by the General Assembly and allocation by the Commonwealth Transportation Board.

ARTICLE XIII – ATTACHMENTS

[Appendix A—Resolution of the Commonwealth Transportation Board authorizing the Commissioner's execution of the Agreement]

Appendix B—Site Depiction

ARTICLE XIV – SIGNATURES

IN WITNESS HEREOF, the Parties hereto have signed their names and executed this Agreement on the dates indicated below.

[Signatures Follow]

U.S. DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE APPALACHIAN NATIONAL SCENIC TRAIL

	Date	
Edward Wenschhof		
NPS-APPA Park Superintendent		



Attachment A

APPALACHIAN TRAIL CONSERVANCY

]	Date	

Sandra Marra ATC President & CEO



Attachment A

ROANOKE APPALACHIAN TRAIL CLUB

Date	_

Therese Witcher
RATC Club President



VIRGINIA DEPARTMENT of TRANSPORTATION

Date		
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Stephen C. Brich, P.E. Commissioner of Highways

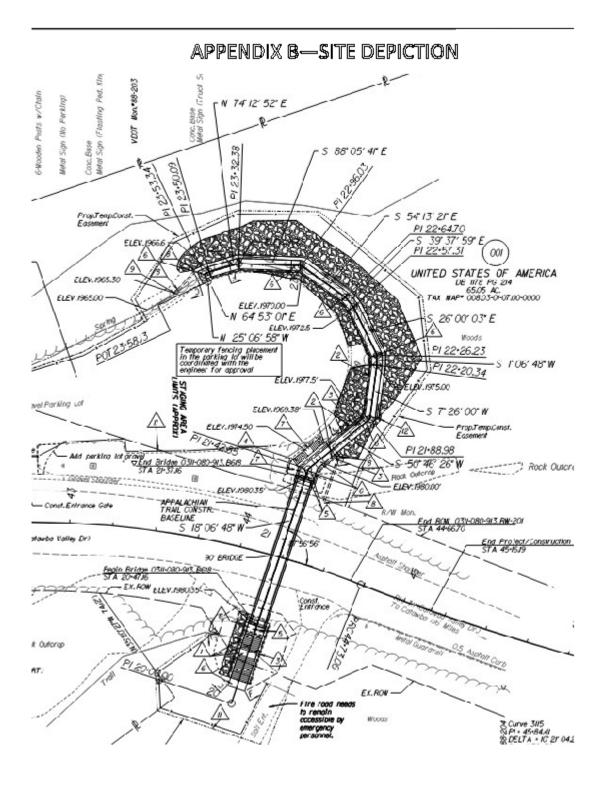


Appendix A

Resolution of the Commonwealth Transportation Board authorizing the Commissioner's execution of the Agreement

[to be included when available]





SPECIAL USE PERMIT



Appalachian National Scenic Trail 252 McDowell Street / PO Box 50 Harpers Ferry, WV 25425 304-535-6278



Permittee information	Park alpha co	de: APPA
Permittee name:		· · · · · · · · · · · · · · · · · · ·
Matt Southall (Permittee)	Permit # 2490	-2700-2301
Company/Organization:	Type of use:	
Virginia Department of Transportation	☐ Special eve	nt
Street address:	☐ filming or sti	ll photography
1401 East Broad Street	☐ Demonstrat matter, etc.	ion, sale or distribution of printed
City:	□ Agricultural	or grazing
Richmond		truction
State:		
Virginia	NEPA compli	
Country:	⊠Categorically	y excluded
USA		
	□EIS	000
Zip code:	⊠PEPC # 113	688
23219	UOther	
Mobile phone number:	Authorizing le	egislation or other authority:
804-396-0684	⊠54 U.S.C. §	
Fax number:	⊠54 U.S.C. §	
	⊠54 U.S.C. §	
	_	100905 (still photography)
Email address:		ity:
Matthew.Southall@VDOT.Virginia.gov	⊠ Park-specific	e legislation: Public Law (90-543, 82
	Stat.919)	
The Permittee is authorized to use the follow (ANST or Park): Four areas totaling 34,707-as temporary construction easement (Permi The Permittee may use those lands or facility accessibility ramp/sidewalk and stairs that we permit begins when signed by all parties and	square feet marked and described or ted Area). les only for the following purpose: In- ill carry the Appalachian National Sc	n the final approved project plan set stallation of a pedestrian bridge with enic Trail across Route 311. This
Application fee	Received Not Required	C Amount \$
Performance bond	Received Not Required	<pre>Amount \$ Amount \$ Amount \$ 1million /3million</pre>
Liability insurance	Received Not Required	Amount \$ 1million /3million
Cost recovery	Received Not Required	∠ Amount \$
Location fee	Received Not Required	Amount \$
Other authorized fee	Received Not Required	C Amount \$
Issuance of the permit is subject to the below hereby accepts this permit subject to those to		
Permittee signature	 Title: Acting Superinte	Date: June 14, 2023
Authorizing NPS official	Title:	Date:

General Terms and Conditions

- 1. The Permittee must perform the work or conduct the activities authorized by this permit in accordance with the permit's terms and conditions and in accordance with all applicable federal, state, or local law, including the regulations in 36 C.F.R. chapter I; the regulations in 43 C.F.R. part 5; and all applicable workplace-safety and publichealth orders, rules, and requirements. If the Permittee fails to do so, then the Superintendent of the Appalachian National Scenic Trail (Superintendent) may immediately suspend or revoke this permit without notice.
- 2. The Superintendent may immediately suspend or revoke this permit without notice if destruction of, loss of, or injury to any park property or resource has occurred, is occurring, or appears imminent. In accordance with the System Unit Resource Protection Act, 54 U.S.C. §§ 100721-100725, any person that destroys, causes the loss of, or injures any park system unit resource will be liable to the United States for response costs and damages resulting from the destruction, loss, or injury.
- 3. The Superintendent may revoke this permit at any time after providing 24 hours' written notice to the Permittee setting forth the reasons for the revocation.
- 4. If this permit is revoked for any reason or upon its expiration, the Permittee must repair all damage to park property or resources in accordance with the Superintendent's direction and must restore the Permitted Area to its original, pre-permit condition.
- 5. The Permittee must obtain all federal, state, or local permits, licenses, inspections, or other reviews or approvals legally required to perform the permitted work or conduct the permitted activities.
- 6. This permit does not grant the Permittee exclusive use of the Permitted Area. Unless the Superintendent restricts public access to or closes the Permitted Area in accordance with 36 C.F.R. § 1.5, the Permitted Area will remain open to the public to the same extent that it is open to the public during regular park visiting hours, and the permitted work or activities may not unduly interfere with the public's use and enjoyment of the Permitted Area.
- 7. This permit may not be transferred or assigned to another party without the Superintendent's prior written approval.
- 8. The Permittee waives all demands, claims, and causes of action against the United States and its officers, employees, agents, and representatives, and releases the United States and its officers, employees, agents, and representatives from all liability, arising out of or resulting from the permitted work or activities. The National Park Service issues this permit upon the express condition that the United States and its officers, employees, agents, and representatives will be free from all liability of any sort whatsoever arising out of or resulting from the permitted work or activities. Accordingly, the Permittee hereby agrees to indemnify, defend, and save and hold harmless the United States and its officers, employees, agents, and representatives from and against all liability of any sort whatsoever arising out of or resulting from the permitted work or activities to the extent allowable by Virginia law. However, this paragraph shall not constitute a waiver of Permittee's sovereign immunity.
- 9. To the extent that work undertaken on NPS lands is performed by other than Virginia Department of Transportation (VDOT) employees, VDOT shall require such person(s) or corporation(s) to:
 - a. Procure public and employee liability insurance against claims occasioned by the action or omissions of its agents and employees in carrying out the activities and operations authorized by this permit. The policy shall be in the amount of one (1) million dollars (\$1,000,000) per occurrence and three (3) million dollars (\$3,000,000) aggregate; must be issued by a company licensed to do business and in good standing in Virginia; and must name the United States of America as additional insured.
 - b. Pay the United States the full value for all damages to the lands or other property of the United States caused by the said person or organization, Its representatives, or employees.
 - c. Indemnify, save and hold harmless, and defend the United States against all fines, claims, damages, losses, judgments, and expenses arising out of, or from, any omission or activity of the said person or organization, its representatives, or employees.
- 10. Permittee shall provide the Superintendent with a Certificate of Insurance with the proper endorsements before the permit's effective date.

- 11. If the Superintendent requires a bond as a condition of issuing this permit, then the Permittee must deposit with the Park, before the effective date of this permit, a bond in the amount of \$_N/A_ from a bonding company licensed to do business and in good standing in Virginia or in the form of cash or cash equivalent, to guarantee that all financial obligations to the Park will be satisfied.
- 12. As authorized by 54 U.S.C. § 103104 or 54 U.S.C. § 100905 and in accordance with other applicable law and policy, the National Park Service will recover all costs of providing necessary services associated with this permit, including the costs of administering the permit and monitoring the permitted work or activities. The National Park Service may bill the Permittee for either actual costs or estimated costs. Payment is due at the time of billing. If the National Park Service bills the Permittee for estimated costs, and actual costs exceed the estimated amounts, then the National Park Service will bill the Permittee for the excess. If the National Park Service bills the Permittee for estimated costs, and actual costs are less than the estimated amounts, then the National Park Service will refund the difference to the Permittee after the permitted work or activities have concluded and the permit has expired or been terminated. Under no circumstances will the National Park Service be liable for interest on any refunded amount.
- 13. The Permittee designates Tony Handy, Salem District VDOT, 540-352-9050, as the on-site person responsible for adherence to the permit's terms and conditions. The on-site person must have full authority to make all decisions about the permitted work or activities; must be reachable at all times; and is responsible for all persons or entities performing the permitted work or activities, including the Permittee's contractors and subcontractors.
- 14. Nothing in this permit binds the National Park Service to expend in any one fiscal year any sum in excess of appropriations made by Congress or allocated by the National Park Service for the purpose of this permit, or to involve the National Park Service in any contract or other obligation for the further expenditure of money in excess of such appropriations or allocations.
- 15. If any provision of this permit is found to be invalid or unenforceable, the remaining provisions of this permit will not be affected and may be enforced to the full extent authorized by applicable law.
- 16. Use of the National Park Service Arrowhead Symbol is governed by 36 C.F.R. part 11. The Arrowhead Symbol is the official emblem and a registered trademark of the National Park Service. The National Park Service must authorize any use of the Arrowhead Symbol, including incidental use. Using the Arrowhead Symbol for advertising, promotional, or other commercial purposes is prohibited. Unauthorized use of the Arrowhead Symbol may subject an individual to criminal penalties under 18 U.S.C. § 701.
- 17. Approval of the special use permit does not constitute and should not be construed as a Government endorsement of the permittee's views, activities, products, goods, services, or enterprise. The permittee shall not refer to special use permits awarded by the National Park Service for commercial purposes, in advertising, or in a manner which states or implies that, by issuing the special use permit, the views, activities, products, goods, services, or enterprises undertaken pursuant to this permit are approved of or endorsed by the Government.
- 18. Credit Lines may be approved through additional terms and conditions.
- 19. Federal regulations prohibit any person from knowingly giving false information on an application for a permit and from knowingly giving a false report for the purpose of misleading a government employee or agent in the conduct of official duties. 36 C.F.R. §§ 2.32(a)(3) and 2.32(a)(4). Any violation of those regulations will result in this permit's immediate revocation.

Park-specific Terms and Conditions

- 20. This Special Use Permit numbers seventy-two (72) pages and contains four (4) Exhibits. Exhibit A: Bridge Design Plans; Exhibit B: Construction Plans; Exhibit C: ANST Plan for Inadvertent Discoveries, and Exhibit D: Fire Road Closure.
- 21. The National Park Service (NPS) Permit Coordinator for this Permit is Denise Nelson, Environmental Protection Specialist, 301-512-5573 (cell), denise_nelson@nps.gov. Permittee shall notify the Permit Coordinator at least three (3) business days before the start of Permitted activities to alert NPS of the initiation of Permitted work and provide a schedule of planned activities. Permittee shall also notify the Permit Coordinator of work completion within twenty-four (24) hours of completing Permitted activities. Other NPS contacts for this Permit include:
 - a. Keith Stegall, Chief of Facilities Maintenance, 301-712-6729 (cell) keith_stegall@nps.gov
 - b. Brian Wilson, Park Ranger, 540-529-3312, brian_d_wilson@nps.gov

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- 22. Status Reports From the commencement of construction activities on NPS lands, the Permittee will provide updated project status reports on a quarterly basis until all construction-related activities including restoration is completed on NPS lands. The Permittee will provide a copy of these status reports to the three NPS contacts listed above.
- 23. NPS may monitor the work while in progress and conduct a site inspection following work completion.
- 24. Permitee is responsible for ensuring that its officers, employees, representative, agents, contractors, and subcontractors are familiar with this Permit and comply with its terms and conditions. All supervisory personnel working for the Permittee within the Permitted Area must carry a copy of this Permit, with at least one (1) copy of the Permit on site at all times. This Permit must be presented to NPS officials upon request. Failure to present this Permit may result in permit activities being suspended.
- 25. NPS approval of this Permit is based on information provided in the application and supplemental information provided by the Permittee in support of the application. A copy of the reference project design and construction plan documents provided with the application is included in Exhibits A and B. Any proposed changes to the project or permitted activities following permit issuance must be approved by the Superintendent at least one week prior to implementation. Any alterations to this Permit must be in writing and signed by the parties and is subject to additional impacts analysis prior to approval.
- 26. Permittee is authorized to install a pedestrian bridge and associated sidewalk/ramp and stairs. Permittee is authorized to install drainage and erosion control measures including a minor shift of the drainage channel along the edge of the parking lot, conduct tree clearing and grubbing, excavate and grade soils, apply riprap with a geotextile fabric underlayment to slopes, stage equipment and materials, install temporary construction fencing and signs, add gravel to the parking lot, and reseed to restore the site. All work on NPS land is limited to and shall be in accordance with the project controlling documents including the final construction plans and required permits. Any field adjustments or construction plan revisions shall be reviewed by the NPS Permit Coordinator prior to work proceeding.

Equipment and Materials

- 27. Support equipment to be used as estimated at the time of application includes: One (1) 30T crane, two (2) excavators (CAT 315 and 325), one (1) 20-foot tool storage, one (1) portable field office/storage shed, one or two (1-2) portable toilets, one or two (1-2) dumpsters, and staff vehicles. Permittee shall send the NPS Permit Coordinator a list of equipment to be used once acquired by the selected contractor(s) and prior to initiating work.
- 28. Staging of equipment, materials, and vehicles shall occur on already disturbed land and is restricted to the staging area of the parking lot shown in Exhibit B: Erosion and Sediment Control Plan. Permittee equipment shall be properly secured if left on-site overnight.
- 29. Permittee shall refuel or store fuel off NPS lands whenever feasible. Permittee may refuel on NPS lands when necessary at locations as far away from the spring along the edge of the parking area as practical and with proper spill containment and preventative measures found within a refuel/spill containment plan. Permittee shall have spill kits and appropriate containment available for all machinery and containers holding fuels, oils, or other chemicals. In the event of a fuel or oil leak/spill within the Park, work shall immediately cease, spill containment be deployed, and the spill reported to NPS and state authorities as required. The Virginia Department of Environmental Quality Pollution Response Department shall be called immediately at 540-574-7800. The Permittee shall be responsible for any required remediation measures such as removing contaminated soil from the site.
- 30. Engines shall be shut off when not in use, i.e. no idling allowed.
- 31. Means of extinguishing a fire shall be available on site at all times. Permittee shall do everything reasonably within its power to prevent and suppress fires resulting from the Permittee's activities on and adjacent to the Permit area.
- 32. All Permittee equipment and hand tools that come into contact with Park soil shall be free of dirt, seeds and vegetation prior to entering the Park. Frames, tires, tracks, beds, buckets and other attachments must be pressure washed or steam cleaned. Vehicles and equipment are to be cleaned offsite and off NPS lands. Attention shall be shown to the under carriage and any surface where soil containing exotic seeds may exist like cracks, crevices and tire treads.
- 33. The transport of sediment onto paved or public roads at access entrances shall be minimized. Whenever vehicle tracking of sediment occurs, sediment shall be removed daily by shoveling or sweeping.

Safety

- 34. Permittee is responsible for all necessary safety equipment and industry standard construction practices. This includes all necessary signs, fencing, and other measures needed to ensure persons not associated with this permit are kept out of the construction zone and safely away from construction hazards.
- 35. Permittee and its contractor(s) shall follow their respective safety protocols and plans. Any safety violations shall be corrected immediately. If the violation is not corrected immediately, the project shall be suspended until such corrections are made.
- 36. In the case of an OSHA-reportable injury, criminal incident, spill, or environmental emergency within the Permitted Area involving the Project, the Permittee or its officers, employees, representatives, agents, contractors, or subcontractors, Park employees or visitors, the Permittee shall notify the NPS within two (2) hours of the event by contacting NPS Dispatch at 866-677-6677 and NPS Permit Coordinator, Denise Nelson, 301-512-5573 (cell). The Permittee must also submit to the Superintendent within forty-eight (48) hours a full written report of actions and corrections taken and submit a complete report including the resolution of the situation within ninety (90) days.
- 37. Permittee shall maintain safe and continued passage of hikers and visitors through the project area. Permittee shall:
 - a. Inform all its representatives and contractors of the location of the Appalachian Trail, the shuttle pull-off area for loading and unloading visitors, and of the safety protocols required to ensure Park visitor safety.
 - b. Install fencing to guide visitors safely around the construction area.
 - c. Install temporary signs on the trail to warn visitors about the work areas ahead. Signs shall be placed along the Appalachian Trail on either side of the work zone before work begins and removed upon project completion.
 - d. Implement all measures in the traffic management plan [See Exhibit B].
- 38. The Fire Road between Route 311 and its intersection with the McAfee Knob Fire Road Connector Side Trail north of Route 311 will be closed to the public with signage and barrier during construction but shall remain accessible by emergency personnel [See Exhibit D]. Permittee shall ensure that equipment and materials do not block emergency vehicle access to the Fire Road.
- 39. The gravel parking lot will be gated and closed to the public during construction. Permittee shall maintain and control entrance through the construction entrance gate to the parking lot. As outlined in the transportation management plan, Permittee shall provide local emergency response organizations with access to the locked emergency vehicle entrance gate prior to commencing work. Permittee shall notify NPS ANST Chief of Facilities Keith Stegall at least thirty (30) days before the parking lot is closed to the public.

Operations

- 40. Permittee shall complete work onsite during daylight hours to the greatest extent possible and use minimum lighting required to safely conduct work at night when necessary for beam setting.
- 41. Permitted activities shall not occur during severe weather conditions and permitted activities involving ground disturbance shall not occur during saturated soil conditions.
- Work areas shall be maintained in a sanitary condition at all times and waste materials shall be disposed of promptly at an approved waste disposal site.
- 43. Permittee is authorized to cut and remove trees and other vegetation as follows:
 - a. Tree removal is limited to that specified in the project plans and Permittee shall avoid collateral damage to trees and other vegetation not slated for removal including gashing of adjacent trees.
 - b. Trees may be cut outside the active bat season only. [Trees may be cut from November 15th through March 31st. No trees may be cut from April 1 through November 14th]. Note: this restriction is also protective of the state endangered songbird the Loggerhead Shrike.
 - c. Limits of the tree clearing area must be clearly marked in the field prior to any tree clearing.
 - d. Permittee shall ensure contractor(s) conducting the tree clearing understand the clearing limits and how they are marked in the field.

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- e. Tree roots may be removed only where required [See Exhibit B: Erosion and Sediment Control Plan Sheets].
- f. For any tree pruning, make clean cuts at the base of branches without damaging the tree trunk or branch collar. Do not rip, tear, or pull live branches.
- g. For any trees cut but not grubbed, stumps shall be cut low (less than 6" from the ground) unless there are rocks or other material that would prevent a low stump cut.
- h. Cut vegetation shall be removed from the site or left to lie on the forest floor to facilitate decay. Woody debris left to decay on-site shall be cut into lengths of no more than eight (8) feet and spread out and away from the Appalachian Trail treadway and not piled or windrowed.
- 44. Permittee shall take measures necessary to ensure trees and other vegetation on NPS land outside the Permitted area are not damaged by project activities.
- 45. Permittee shall limit all ground disturbance to within the project Limits of Disturbance (LOD) shown in Exhibit B: Erosion and Sediment Control Plan Sheet No. 5. The exterior boundaries (not including the boundary along the paved roadway) shall be clearly marked and posted prior to construction and maintained during any surface disturbing activities. Land disturbance within the LOD shall be conducted in a manner that minimizes disturbance and preserves topsoil especially on steep slopes, minimizes erosion, and minimizes soil compaction outside the bridge footprint.
- 46. Permittee shall install temporary silt fence as outlined in the final construction plans [See Exhibit B: Environmental Commitments Summary Sheet and Erosion and Sediment Control Plan Sheets]. All installed erosion and sediment control measures shall be inspected and maintained as outlined in the final construction plans and per applicable federal and state regulations and removed only after the site has been revegetated and restored.
- 47. Disturbed areas shall be reseeded as soon as possible with a native seed mix and covered with certified weed-free straw. The native seed mix will include only plants native to the project area in Roanoke County, Virginia.
- 48. Permittee shall avoid impacting the rockshelter located near the bridge north abutment and stairs. This cultural feature shall be inspected daily during installation of the north abutment and the NPS Permit Coordinator notified immediately if any damage is noted such as new fissures or cracks in the rock.
- 49. Permittee will ensure the bridge is constructed as designed including specified architectural treatments and colors to help it blend in with the natural surroundings of the ANST.
- 50. Permittee is responsible for the removal of all trash and construction debris upon completion of permitted project activities. Permittee shall inspect the site to confirm all debris, waste, litter, and spoils have been removed from the project area.

Inadvertent Discovery

- 51. Permittee shall halt any activities and notify the Park Cultural Resources Manager, Joel Dukes at 978-970-5143 (office) or 617-429-4468 (cell) immediately upon discovery of human remains, or archeological, paleontological, or historical findings. Clearance to proceed shall only be allowed under the condition that if concealed archeological resources are encountered during project activities; all necessary steps will be taken to protect them. Permittee agrees and understands that all artifacts unearthed on Park property shall remain the property of the Park. See Exhibit C Appalachian National Scenic Trail Plan for Inadvertent Discoveries for additional requirements and instructions.
- 52. Permittee shall halt any activities and notify the NPS Permit Coordinator immediately upon discovery of threatened or endangered species. The NPS will advise about next steps and when work may proceed.

Damages and Restoration

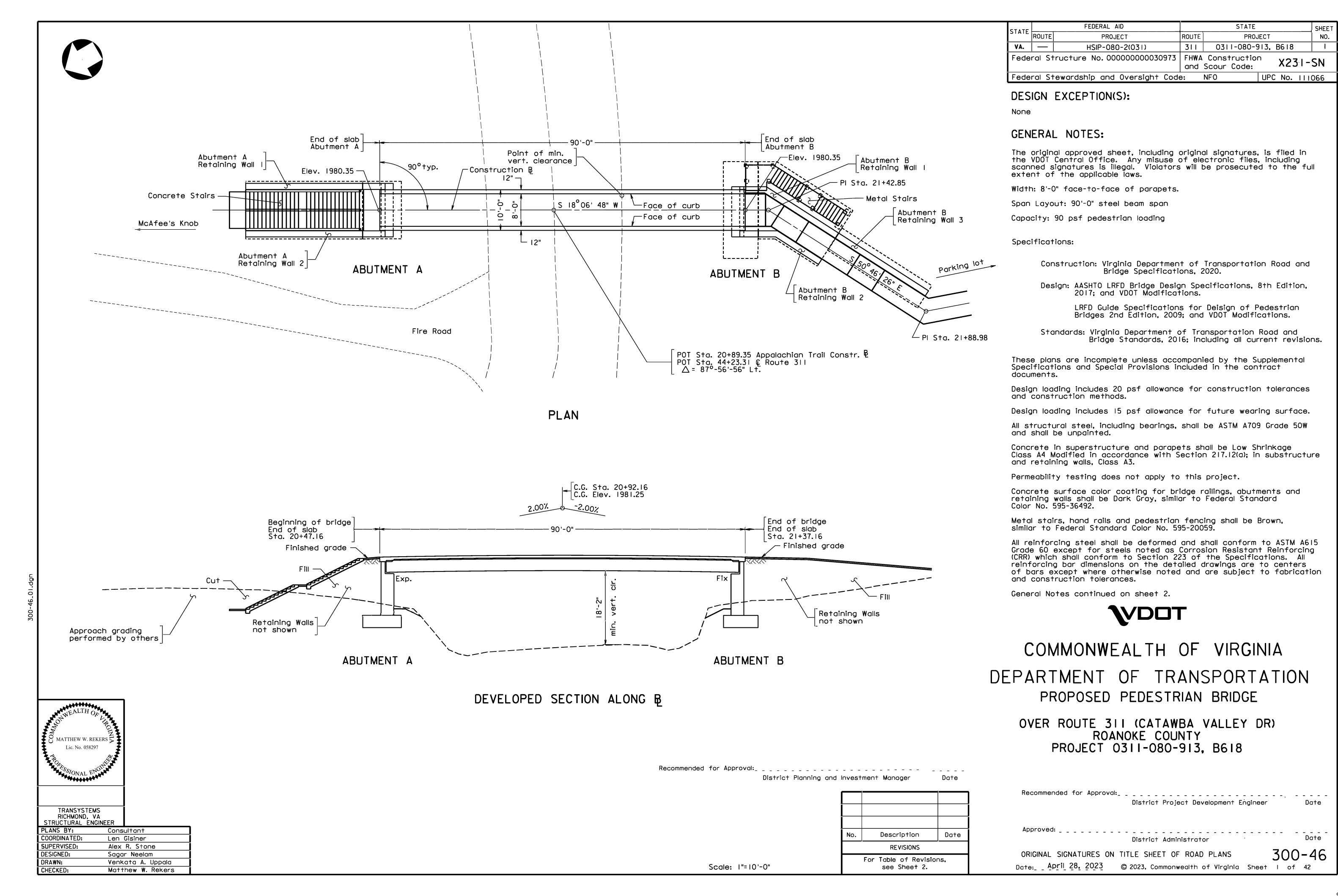
- 53. Permittee shall restore NPS areas impacted by construction and outside the bridge footprint
- 54. Permittee shall repair any damage to Park property and physical resources caused by or occurring incident to Permitted activities to the satisfaction of the Superintendent or their representative within fourteen (14 days) of work completion, or if repair is not possible, shall provide monetary compensation for the damages. Repair and restoration activities may include but are not limited to ensuring proper drainage of disturbed areas, filling in ruts or holes in the parking lot or Fire Road, replacing lost gravel in the parking lot, replacing any damaged boundary markers or monuments, and reseeding disturbed areas.

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55. Permittee is responsible for any damages to non-Federal property, such as but not limited to vehicles and utilities in the general area of this permit. Any utilities which are damaged or disrupted during construction or restoration process shall be immediately repaired or restored.

Exhibit A

Bridge Design Plans



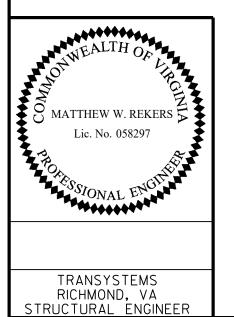
	ESTIMATED QUANTITIES - SUBSTRUCTURE ONLY								
		Concrete Class A3	Reinförcing Steel	Corrosion Resistant Reinforcing Steel, Class I	Struct. Excav.	Select Backfill (Abutment Zone)	Geocomposite Wall Drain	NS Architectural Treatment	Concrete Surface Color Coating
		C.Y	L.B	LB	CY⊗	TON	SY	SY⊗	SY
Ab., dana a da A	Neat	24.7		4160			29	32	45
Abutment A	Footing	15.0	820	1110	144	218			
	Neat	21.9		3730			25	30	39
Abutment B	Footing	22.8*	1210	1120	179	189			
Retaining Walls	Neat	27.9		5220			50	49	67
(Abutment A)	Footing	45.3	2470	3340	300	88			
Retaining Walls	Neat	50.0		9420			96	90	111
(Abutment B)	Footing	62.1*	3370	5240	460	237			
Total		269.7	7870	33340	1083	732	200	201	262

- * Includes metal stair concrete pilasters and metal stair concrete footings.
- igotimes Denotes items to be paid for on the basis of plan quantities in accordance with current Road and Bridge Specifications.

ESTIMATED QUANTITIES - SUPERSTRUCTURE ONLY				
Item	Units	Quantity		
Concrete Low Shrinkage Class A4 Mod.	CY	23.0		
Corrosion Resistant Reinf. Steel, \otimes	LB	5200		
NS Bridge Incidentals (Parapets)	LF	180		
Structural Steel Rolled Beam ASTM A709 Grade 50W	* * LB	42900		
Cover Depth Survey \otimes	SY	100		
Pedestrian Fence 8' ⊗	LF	177		
NS Architectural Treatment ⊗	SY	54		
Concrete Surface Color Coating	SY	113		

- * * Lump Sum (weight includes rolled beams, diaphgrams, stiffeners, shear stud connectors, sole plates, and anchor bolts).
- igotimes Denotes items to be paid for on the basis of plan quantities in accordance with current Road and Bridge Specifications.
- Elastomeric bearing pads are included in the cost of structural steel rolled beams.

LUMP SUM BID ITEMS	
Mobilization	L·S
Construction Surveying	L·S
NS Bridge Incidentals (Metal Stairs)	LS



MISCELLANEOUS/ROAD ITEMS						
ltem	Item Units Quantity					
NBIS Access. Under Bridge Structure Number: 30973	Day	3				
Concrete Class A3 (Concrete Stairs)	CY	8.2				
Reinforcing Steel (Concrete Stairs)	LB	600				
Handrail HR-I Type I	LF	87				
Handrail HR-I Type II	LF	77				

Sheet No.	Description
I	Title sheet; Plan, developed section, design exceptions
·	and general notes
2	Estimated quantities, index of sheets, general notes
3	Substructure layout
4	Abutment A plan and elevation
5	Abutment A footing plan
6	Abutment A wing walls
7	Abutment A architectural treatment
8	Abutment B plan and elevation
9	Abutment B footing plan
ΙΌ	Abutment B wing walls (I of 2)
П	Abutment B wing walls (2 of 2)
12	Abutment B architectural treatment
1.3	Abutment details
1'4	Bearing details
15	Transverse section
16	Framing plan
1.7	Girder details
1.8	Camber diagram
1'9	Dead load deflections and slab elevations
20	Deck slab plan
2.1	Deck slab elevations
2.5	Parapet details (1 of 2)
2.3	Parapet details (2 of 2)
24	Pedestrian fence details
25	Reinforcing steel schedule - Abutment A
26	Reinforcing steel schedule - Abutment B
27	Reinforcing steel schedule - Superstructure
28	0311-080-943, B618 - Engineering Geology (1 of 2)
29	0311-080-943, B618 - Engineering Geology (2 of 2)
30	Retaining wall layout
31	Abutment A retaining walls I and 2
32	Abutment A retaining walls I and 2 footing
33	Abutment B retaining wall I (I of 2)
34	Abutment B retaining wall I (2 of 2)
35	Abutment B retaining wall 2
36	Abutment B retaining walls I and 2 footing
37	Abutment B retaining wall 3
38	Abutment A retaining walls architectural treatment
39	Abutment B retaining walls architectural treatment
40	Metal stair details (I of 3)
41	Metal stair details (2 of 3)

STATE		FEDERAL AID		STATE	SHEE	
	STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
	VA.		HSIP-080-2(031)	311	0311-080-913, B618	2

GENERAL NOTES (continued)

The Class(es) of CRR steel(s) required on this project is/are noted on plan sheets and in the reinforcing steel schedule. Class III may be substituted for Class I.

Footings for abutments shall bear on competent bedrock. For bearing requirements, see the Spread Footing Data Table on sheet 3.

Footings for retaining walls shall bear on firm material. For bearing requirements, see the Spread Footing Data Table on sheet 30.

The Bridge Date Plate shall be installed in accordance with VDOT's Road and Bridge Standards and obtained from the District Structure and Bridge Office.

B.M.: (VDOT Control Station #80-203) Station is Located 1.09 Miles East of Catawba VA. To Reach Station From Catawba Va. Intersection Rte 311 (Catawba Valley Rd.) & Rte 779 (Catawba Creek. Rd) Proceed In A Easterly Direction 1.09 Miles. Station Is On The Right. Control Station Is Standard $3^{1}/_{4}$ " Disc Set Flush With Ground And Stamped 80-203.

VDOT Project Coordinates (2014) East (X): 11022573.705 ft. North (Y) 3666390.969 ft. Elevation: 1964.395 ft.

Rev. No.	Sheets Revised	Date
	TABLE OF REVISIONS	

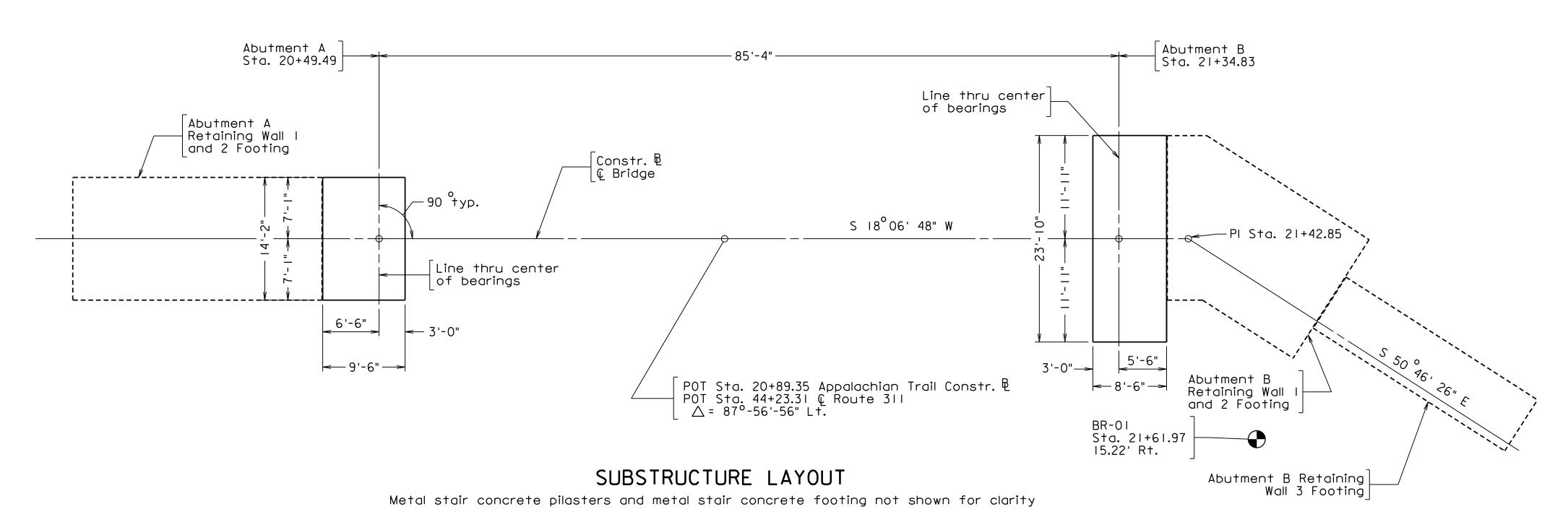
			COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION				
			STRUCTURE AND BRIDGE DIVISION				
			ESTIMATED QUANTITIES INDEX OF SHEETS GENERAL NOTES				
No.	Description	Date	Designed: .S.N	Date	Plan No.	Sheet No	
Revisions			Designed: .S.N Drawn:V.A.U Checked: .M.W.R	Apr. 2023	300-46	2 of 42	



A S MATTHEW W. REKERS

Lic. No. 058297

TRANSYSTEMS RICHMOND, VA STRUCTURAL ENGINEER



 STATE
 FEDERAL AID
 STATE
 SHEET

 ROUTE
 PROJECT
 ROUTE
 PROJECT
 NO.

 VA.
 —
 311
 0311-080-913, B618
 3

Notes:

The substructure layout is for the purpose of locating fill slopes and footings for abutments. For details of neatwork, see Abutment sheets.

Material in the abutment select backfill zone shall be Select Material Type I, minimum CBR 30, and shall be compacted in accordance with Sections 303 and 305 of the VDOT Road and Bridge Specifications. 21A or 21B may be substituted for Select Material Type I, minimum CBR 30, at no additional cost to the Department.

In cut situations, material with strength characteristics greater than the select backfill may be left in place.

The final depth of the embankment side slopes shall be requiar embankment material placed and finished as required.

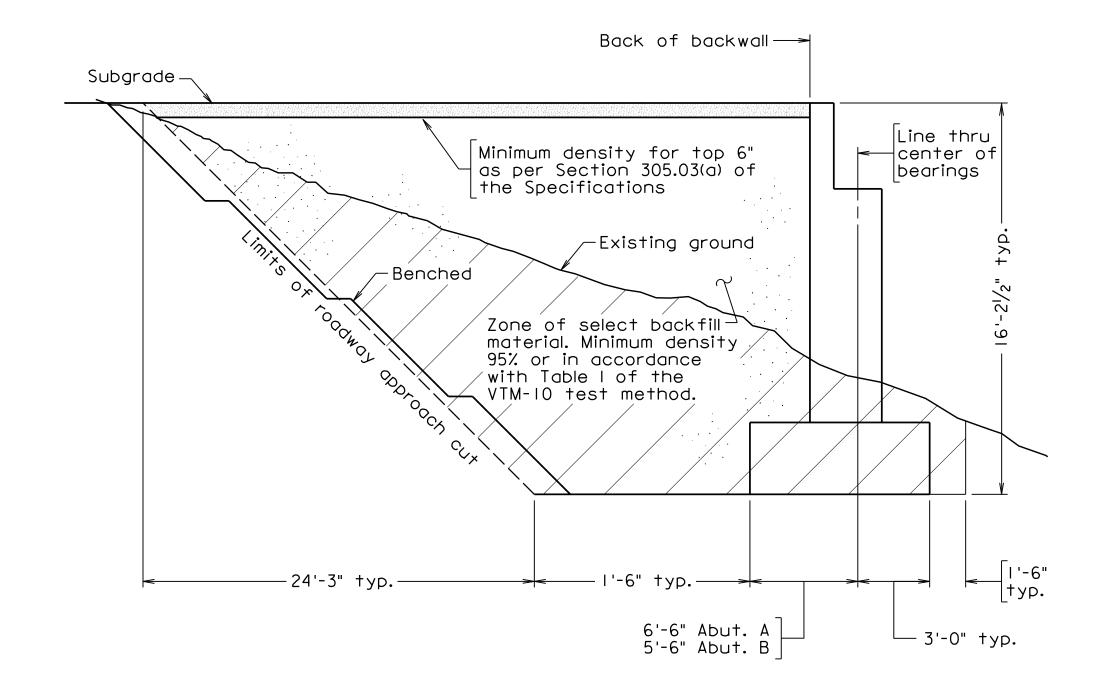
For boring logs, see sheets 28 and 29.

For Retaining Wall Layout, Spread Footing Data Table for retaining walls, Section Through Retaining Walls - Cut Section, and additional boring locations, see sheet 30.

For metal stair concrete pilaster details, see sheets 9, 36 and 41.

For metal stair concrete footing details, see sheets 36 and 41.

- Denotes boring location.



SPREAD FOOTING DATA TABLE									
		SERVICE L	IMIT STATE	STRENGTH LIMIT STATE					
Substucture / Retaining Wall Unit	Anticipated Bearing Material	Tolerable Settlement (inches)	Maximum Applied Bearing Pressure* (†sf)	Maximum Factored Bearing Pressure* (tsf)	Required Nominal Bearing Resistance (tsf)				
Abutment A Footing	Rock	N/A	3.0	3. 9	8.7				
Abutment B Footing	Rock	N/A	2.1	2.7	6.0				

 The larger of these two values, as well as the Anticipated Bearing Material, shall be verified by the Inspector or Engineer-of-Record prior to placing the footing concrete.

_									
				COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION					
				STRUCTURE AND BRIDGE DIVISION					
				SUBSTRUCTURE LAYOUT					
	No.	Description	Date	Designed: S.N	Date	Plan No.	Sheet N		
	Revisions			Drawn: V.A.U Checked: M.W.R	Apr. 2023	300-46	3 of 4		

SECTION THROUGH ABUTMENT - CUT SECTION

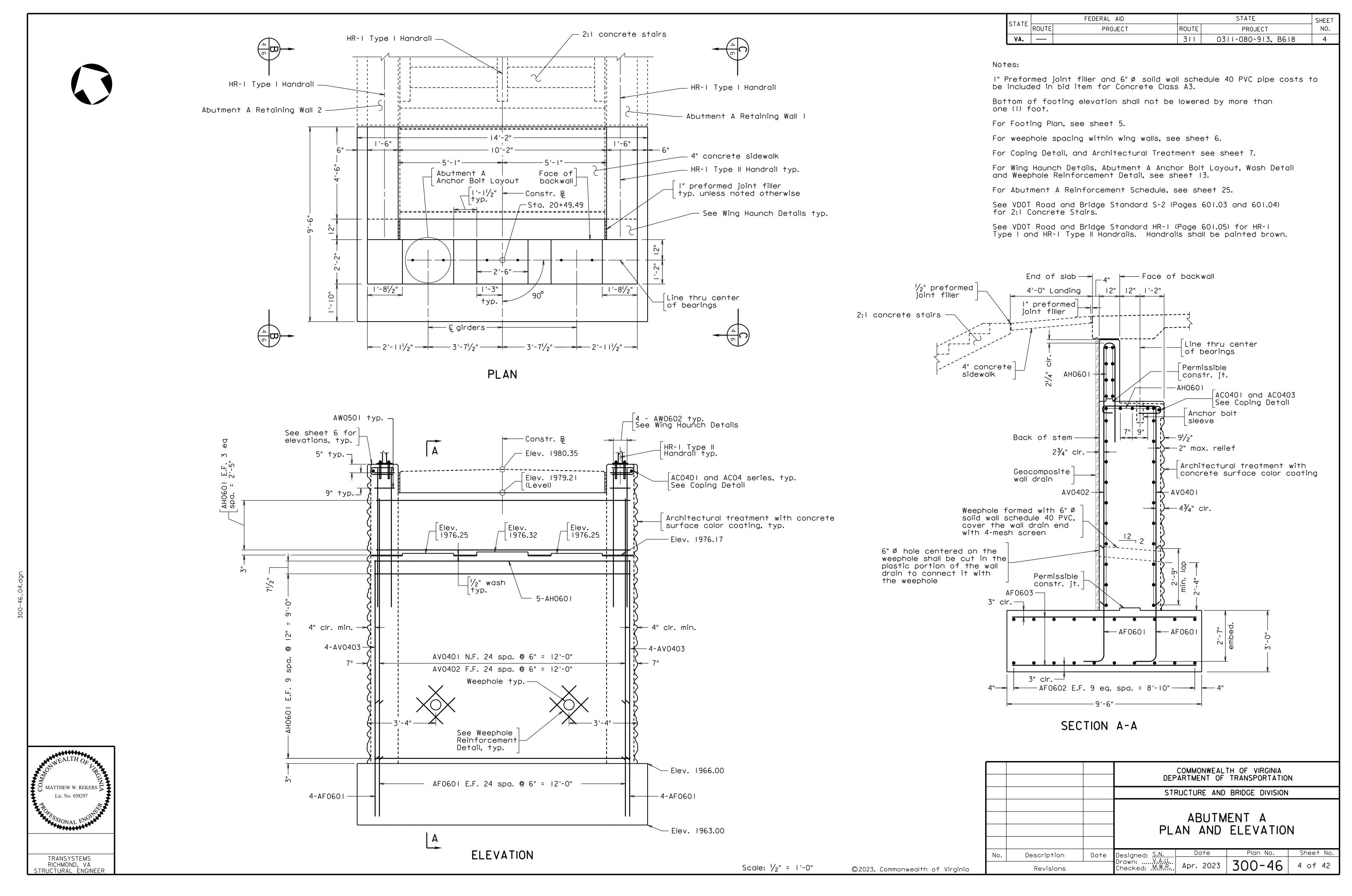
Abutment drainage not shown

tment arainage not snov Not to scale

Scale: $\frac{1}{8}$ " = 1'-0" unless noted otherwise

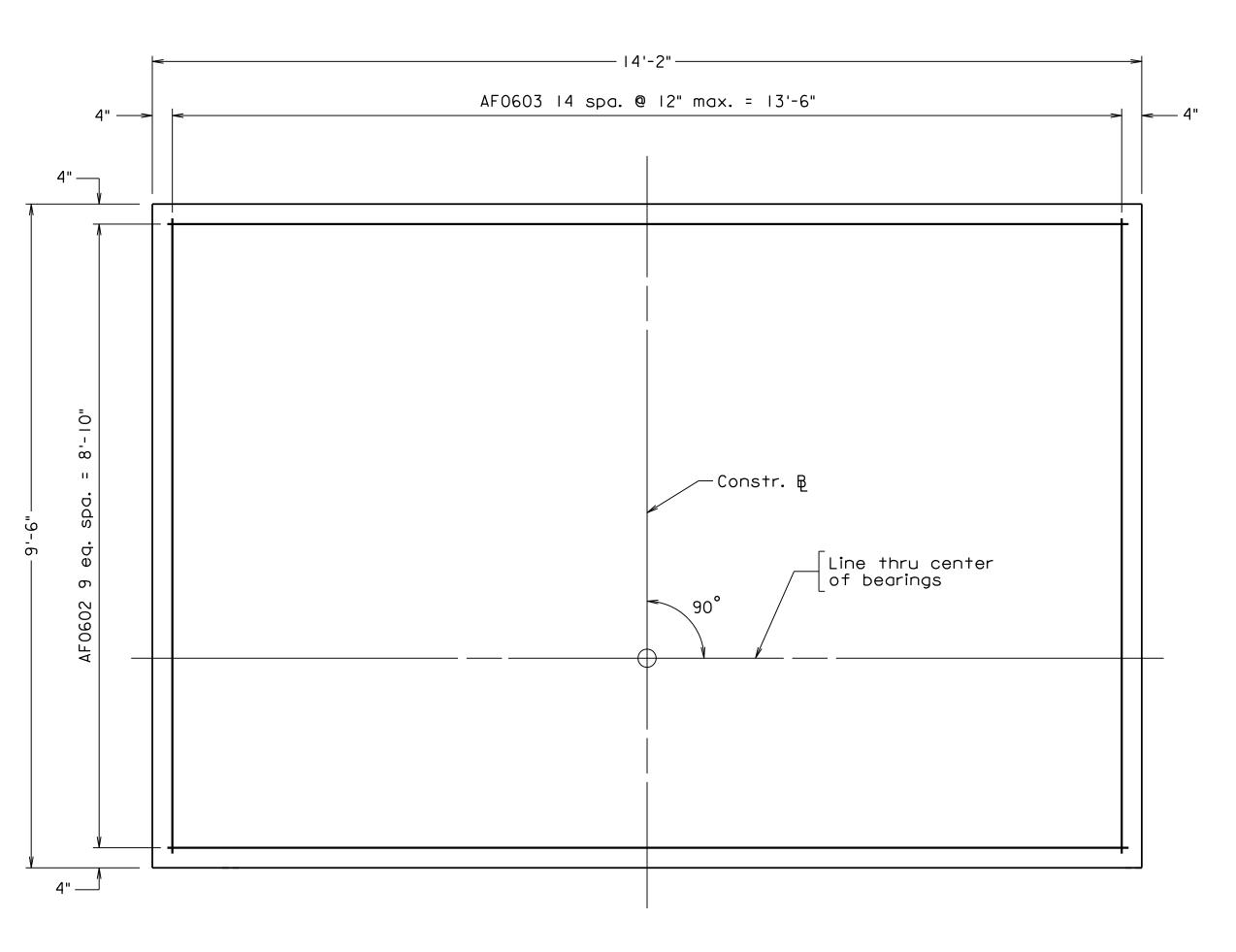
To be paid for as structure excavation

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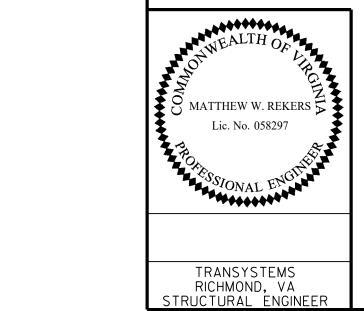
	STATE	FEDERAL AID		STATE		
	STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
	VA.			311	0311-080-913, B618	5





FOOTING PLAN

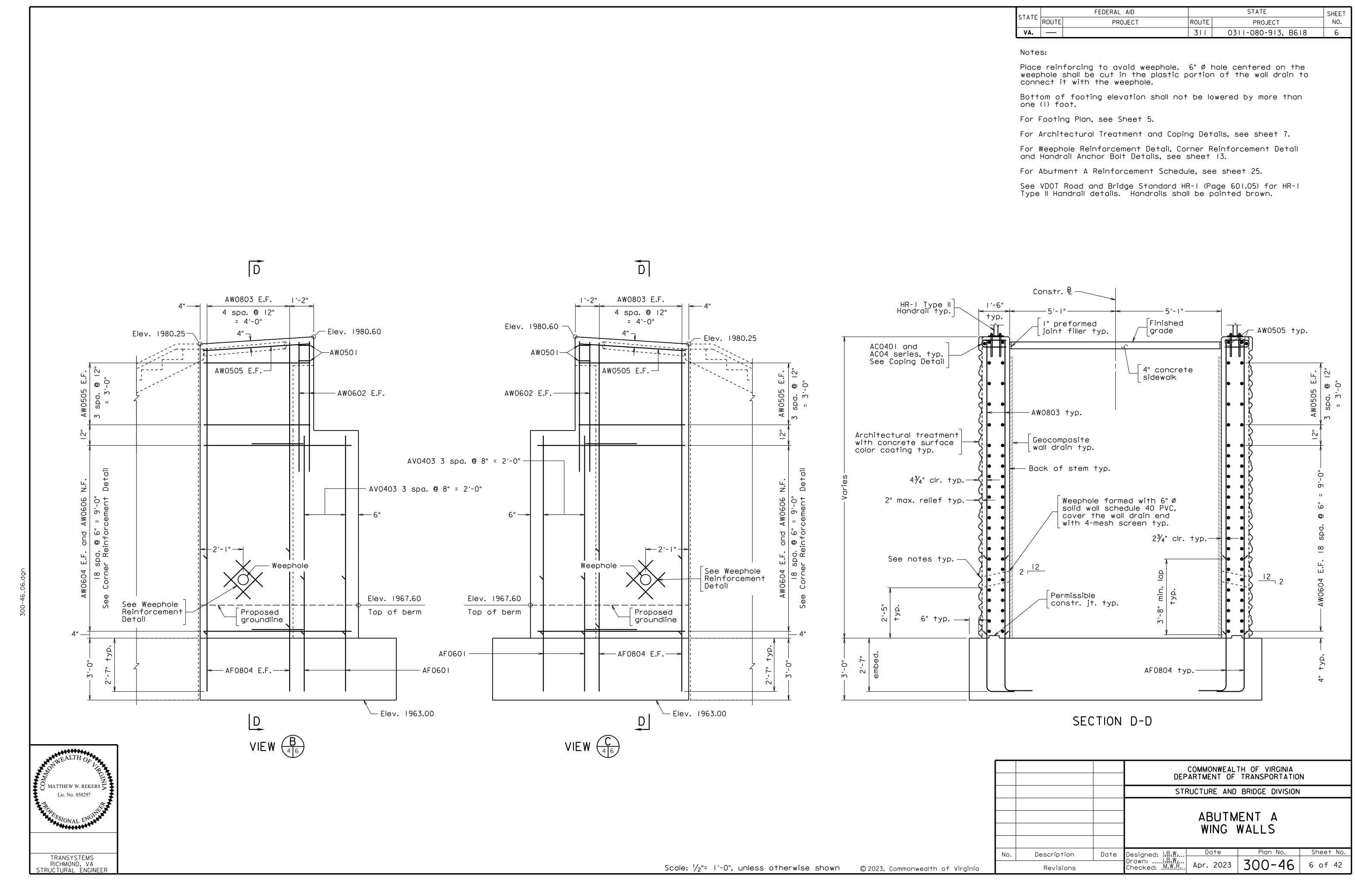
Top reinforcing shown, bottom similar

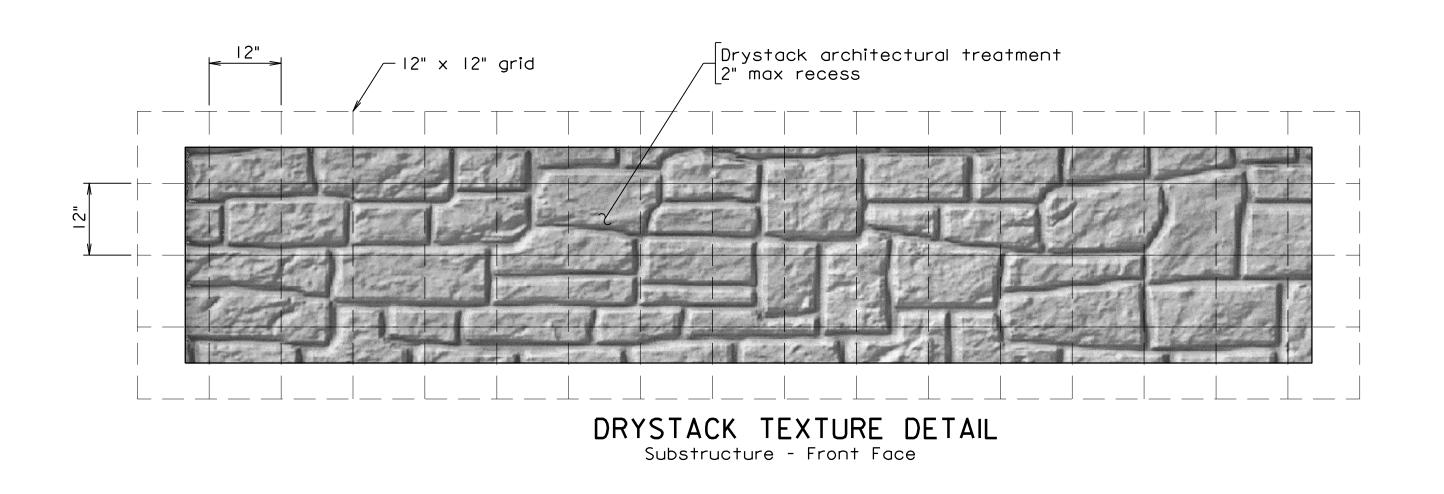


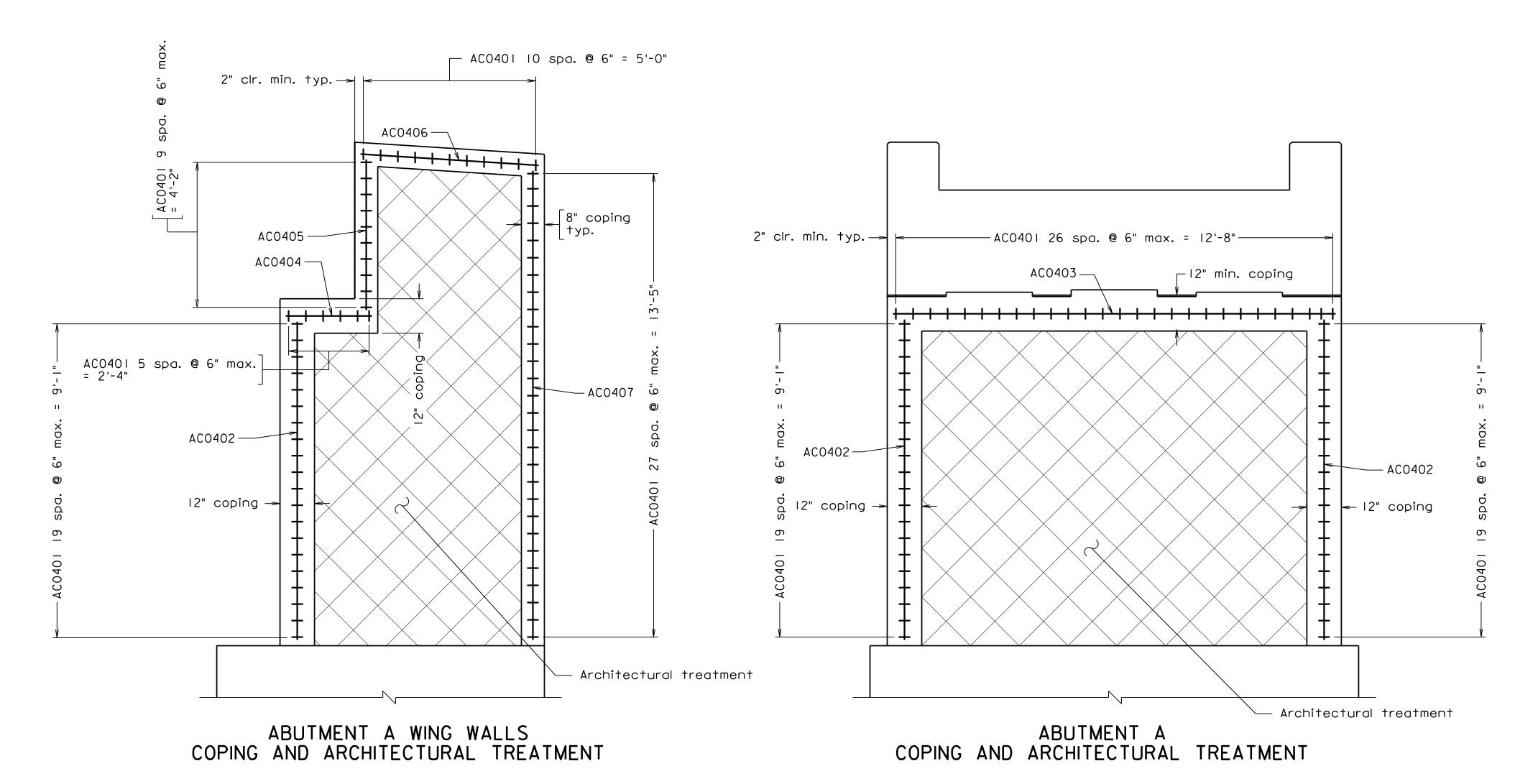
			COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION					
			STRUCTURE AND BRIDGE DIVISION					
			-	ABUTMENT A FOOTING PLAN				
No.	Description	Date	Designed: S.N	Date	Plan No.	Sheet No.		
	Revisions		Designed: S.N Drawn: V.A.U. Checked: M.W.R.	Apr. 2023	300-46	5 of 42		

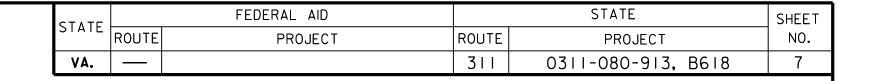
Scale: 3/4" = 1'-0"

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Notes:

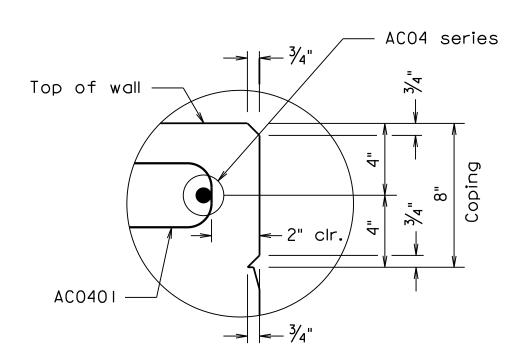
Form liner shall be arranged to produce a continuous drystack pattern without obvious repetition of the pattern.

Form liner pattern shall be inspected and approved by the Department.

Contractor shall submit shop drawings with pattern layout for approval by the Department.

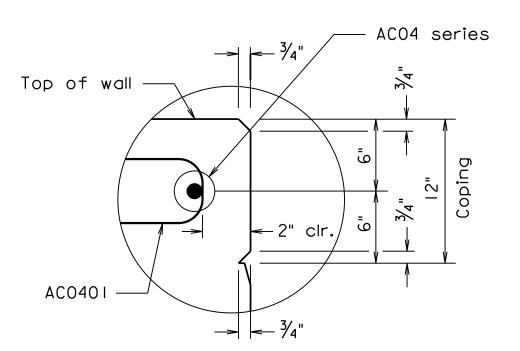
A color coating of Dark Gray No. 595-36492 shall be applied to the full lengths of front face of stem, front face of backwall, and front faces and top sides of wing walls.

For Abutment A Reinforcement Schedule, see sheet 25.



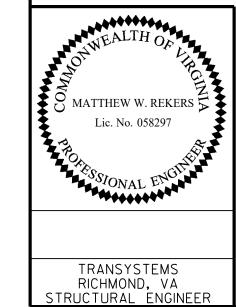
8" COPING DETAIL

Not to scale



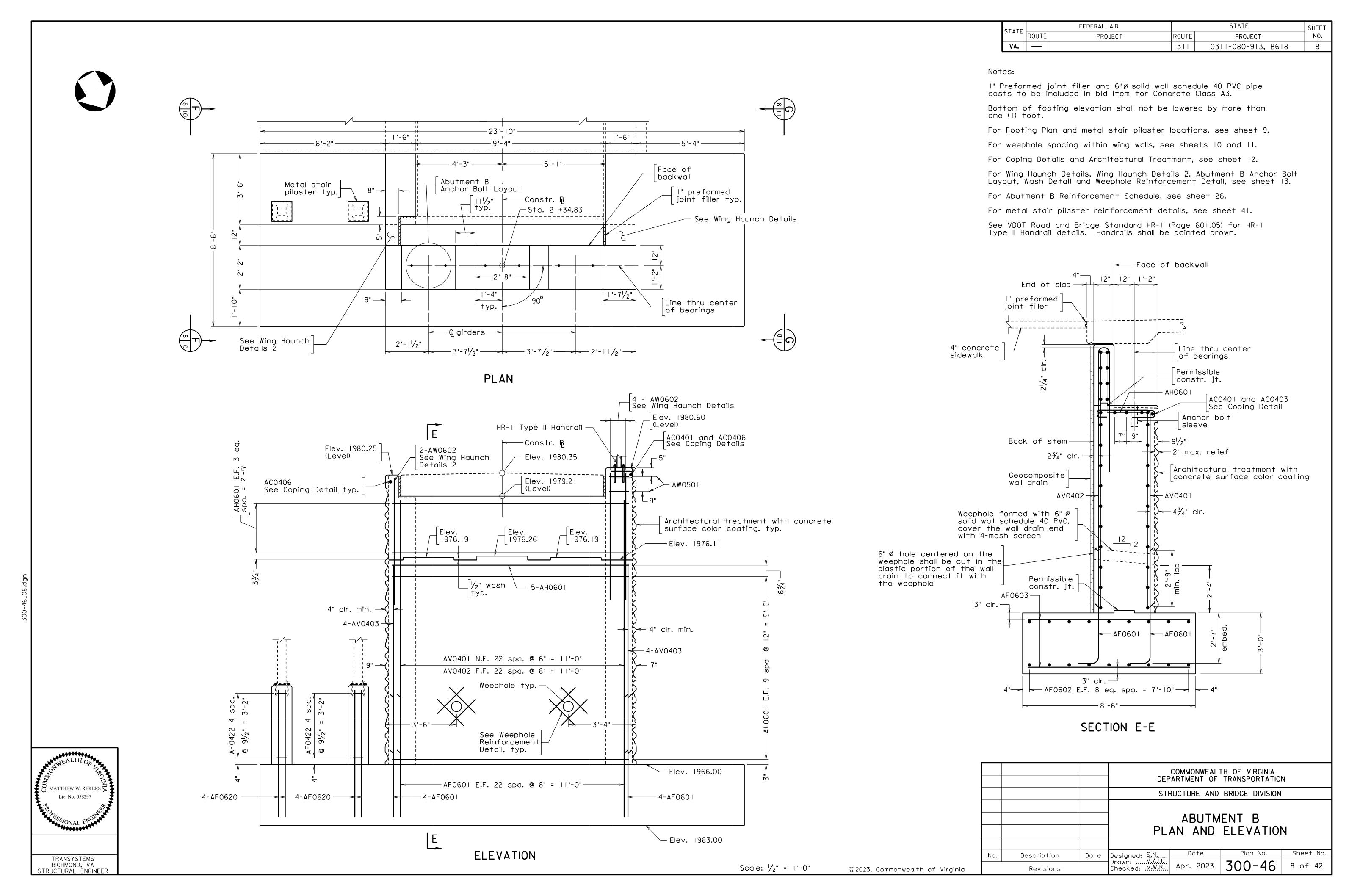
12" COPING DETAIL

Not to scale



				COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION STRUCTURE AND BRIDGE DIVISION				
			511	RUCTURE AND	BRIDGE DIVISION			
			ARCHI	ABUTMENT A TECTURAL TREATMENT				
No.	Description	Date	Designed: S.N.	Date	Plan No.	Sheet No.		
	Revisions	1 - 5 - 5	Designed: S.N Drawn: V.A.U. Checked: M.W.R.	Apr. 2023	300-46	7 of 42		

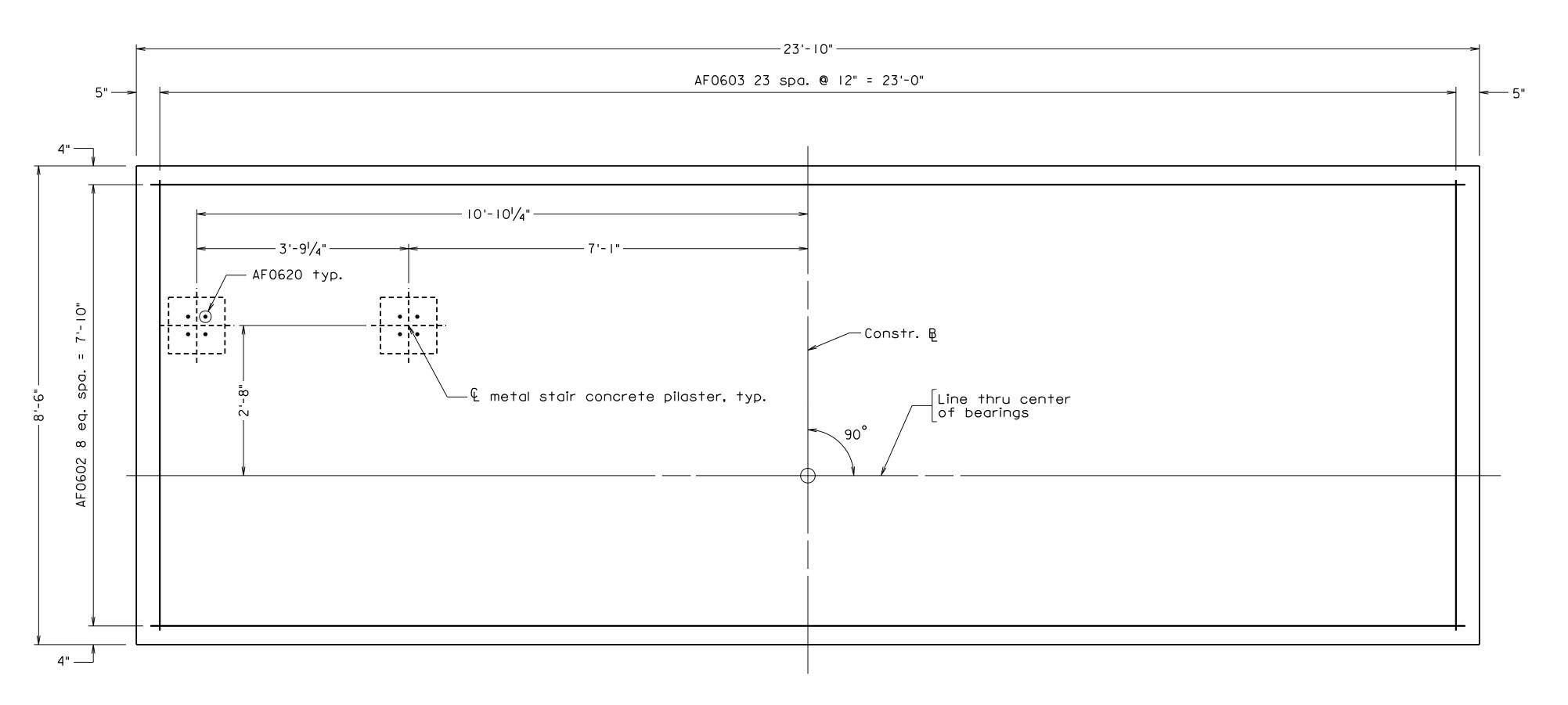
Scale: $\frac{1}{2}$ = 1° $\frac{02023}{023}$, Commonwealth of Virginia



CTATE		FEDERAL AID		STATE	SHEET
STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.			311	0311-080-913, B618	9

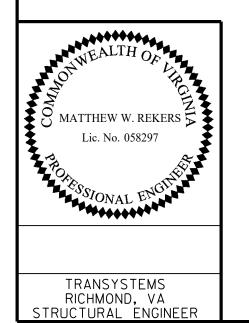


For metal stair concrete pilaster details, see sheet 41.



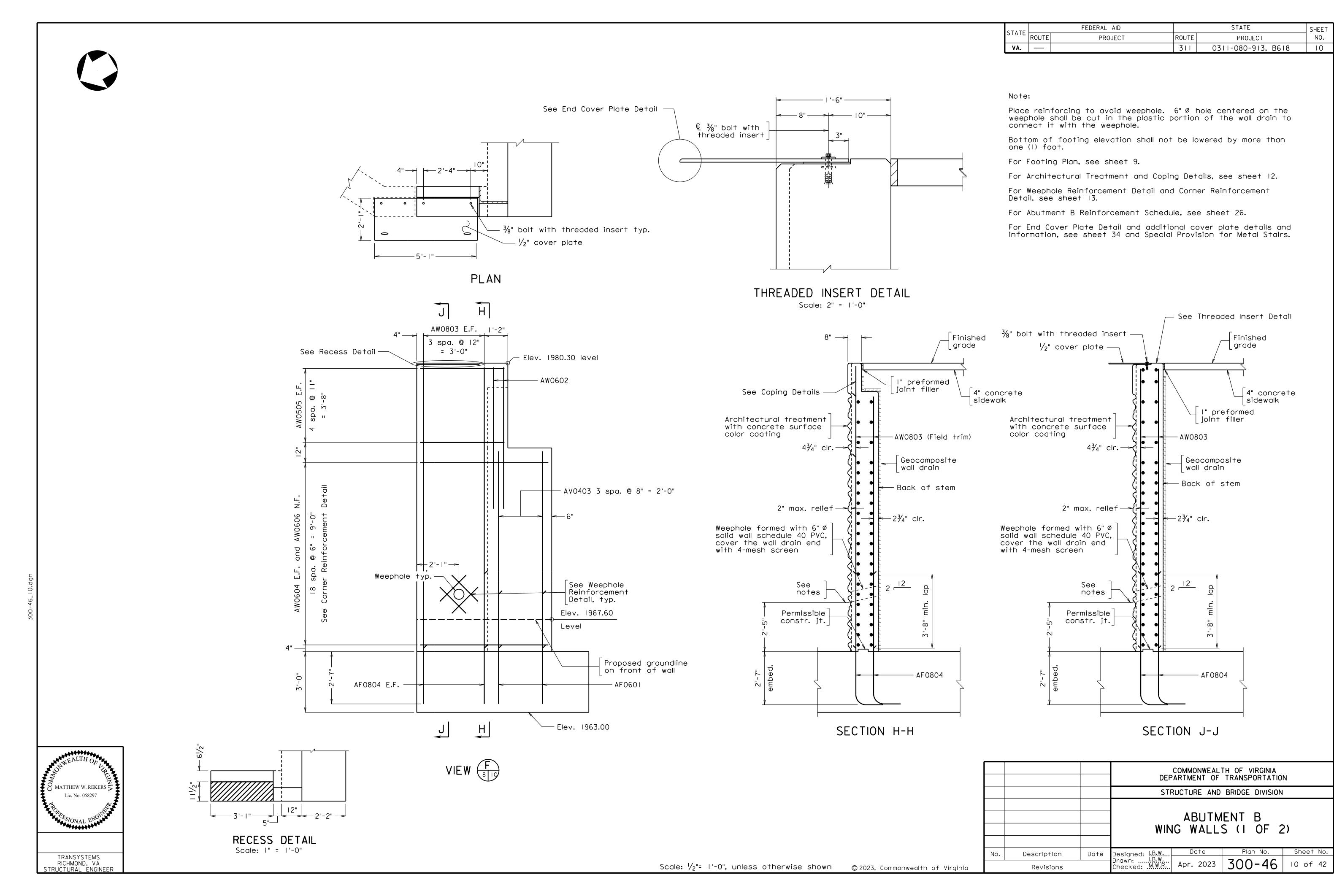
FOOTING PLAN

Top reinforcing shown, bottom similar



					TH OF VIRGINIA TRANSPORTATION	٧				
			STRUCTURE AND BRIDGE DIVISION							
			-	ABUTM FOOTING						
No.	Description	Date	Designed: S.N	Date	Plan No.	Sheet No.				
	Revisions		Designed: S.N Drawn: V.A.U. Checked: M.W.R.	Apr. 2023	300-46	9 of 42				

Scale: $\frac{3}{4}$ " = 1'-0"



CTATE		FEDERAL AID		STATE	SHEET
STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.			311	0311-080-913, B618	11

Place reinforcing to avoid weephole. 6" Ø hole centered on the weephole shall be cut in the plastic portion of the wall drain to connect it with the weephole.

Bottom of footing elevation shall not be lowered by more than one (I) foot.

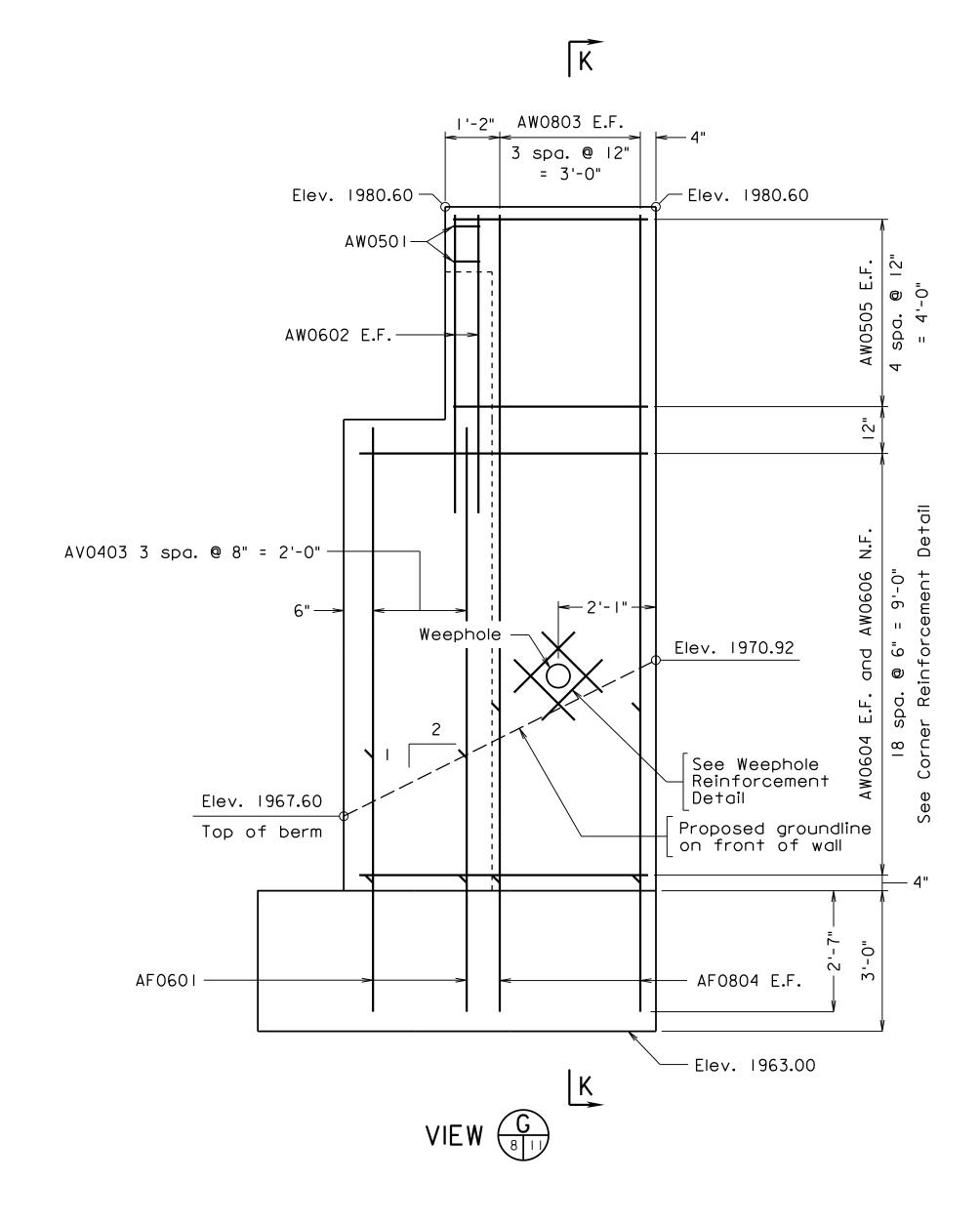
For Footing Plan, see Sheet 9.

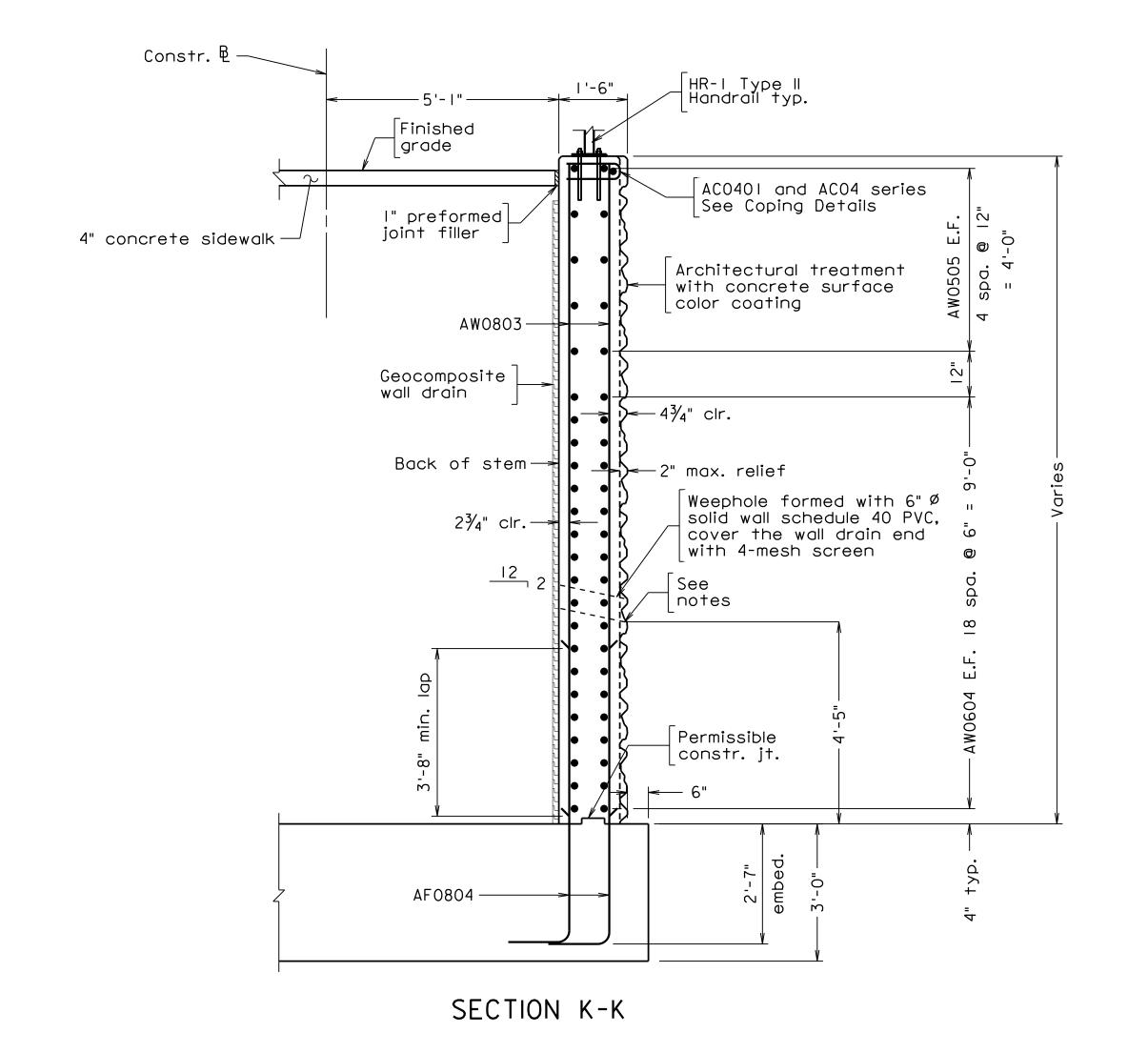
For Architectural Treatment and Coping Details, see sheet 12.

For Weephole Reinforcement Detail, Corner Reinforcement Detail, and Handrail Anchor Bolt Details, see sheet 13.

For Abutment B Reinforcement Schedule, see sheet 26.

See VDOT Road and Bridge Standard HR-I (Page 601.05) for HR-I Type II Handrail. Handrails shall be painted brown.



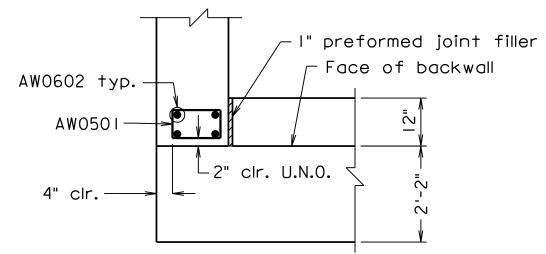


			DEF		TH OF VIRGINIA TRANSPORTATIO	N
			STI	RUCTURE AND	BRIDGE DIVISION	
			WIN	·	IENT B S (2 OF 2	2)
No.	Description	Date	Designed: !.B.W	Date	Plan No.	Sheet No.
	Revisions		Designed: !.B.W Drawn:!.B.W Checked: M.W.R.	Apr. 2023	300-46	II of 42

Scale: $\frac{1}{2}$ "= 1'-0", unless otherwise shown © 2023, Commonwealth of Virginia

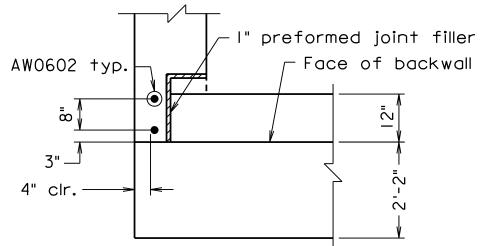
		STATE FEDERAL AID STATE SHEET ROUTE PROJECT ROUTE PROJECT NO. VA. — 311 0311-080-913, B618 12
		Notes:
		Form liner shall be arranged to produce a continuous drystack pattern without obvious repetition of the pattern. Form liner pattern shall be inspected and approved by the
		Department. Contractor shall submit shop drawings with pattern layout for approval by the Department.
		A color coating of Dark Gray No. 595-36492 shall be applied to the full lengths of front face of stem, front face of backwall, and front faces and top sides of wing walls. For Drystack Texture Detail and Coping Details, see sheet 7.
		For Abutment B Reinforcement Schedule, see sheet 26.
Ď		× ACO401 8 spa. @ 6" max. = 3'-10"
12" copir		⊕ Ø AC0406 — \
CO406 8 8 - 25 - 26 - 26 - 26 - 26 - 26 - 26 - 26		0400
ACO405	AC0401 23 spa. @ 6" max. = II'-2"	AC0408 - 8" coping typ.
8" coping typ.	AC0403 — 12" min. coping — — — — — — — — — — — — — — — — — — —	ACO404
AC0401 5 spa. 5 @ 6" max.	12" coping - 12" coping 5	ACO401 5 spa. @ 6" max. = 2'-4" ACO409
O	-in the second of the second o	
0000	ψ do	ω ACO402 Θ ACO402 Θ 12" coping
040 +	- ACO401	- PC040-
P-46-12:dg		
Architectural treatment		- Architectural treatment
	Architectural treatment	
ABUTMENT B LEFT WING WALL COPING AND ARCHITECTURAL TREATMENT	ABUTMENT B COPING AND ARCHITECTURAL TREATMENT	ABUTMENT B RIGHT WING WALL COPING AND ARCHITECTURAL TREATMENT
MATTHEW W. REKERS Lic. No. 058297		COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION STRUCTURE AND BRIDGE DIVISION
FORESSIONAL ENGINEE		ABUTMENT B ARCHITECTURAL TREATMENT
TRANSYSTEMS RICHMOND, VA STRUCTURAL ENGINEER	Scale: 1/2" = 1'-0" © 2023, Commonwealt	No. Description Date Designed: S.N Date Plan No. Sheet No. Drawn:VAU.





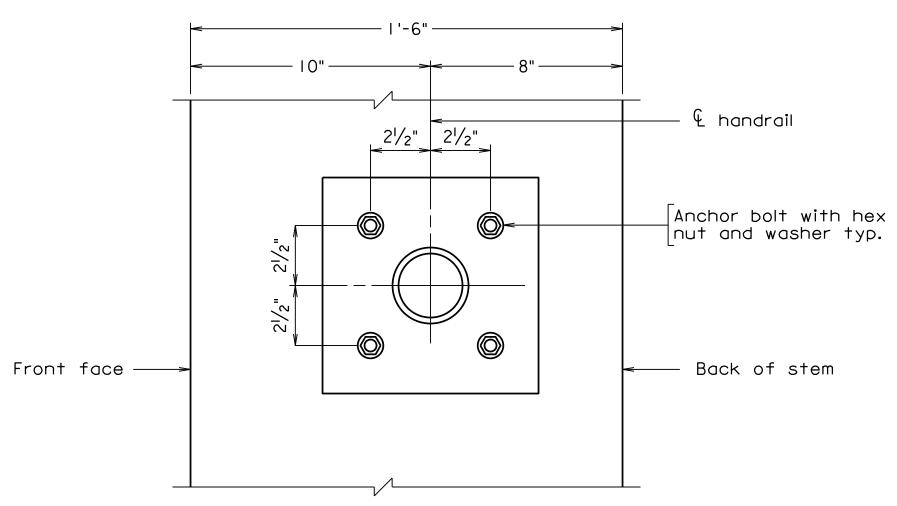
WING HAUNCH DETAILS Not to Scale

Footing not shown for clarity Abutment and backwall bars not shown for clarity



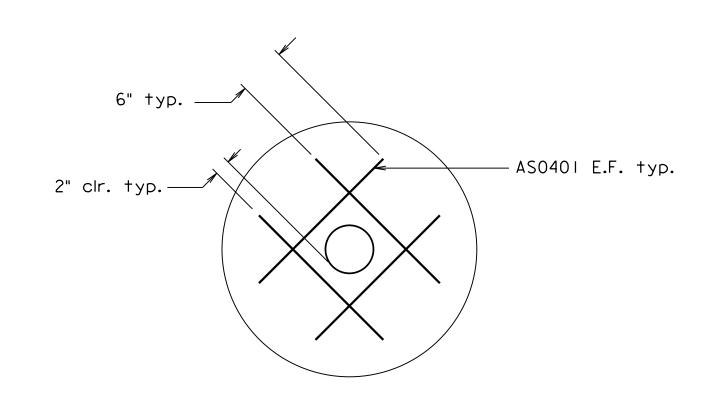
WING HAUNCH DETAILS 2 Not to Scale

Footing not shown for clarity Abutment and backwall bars not shown for clarity

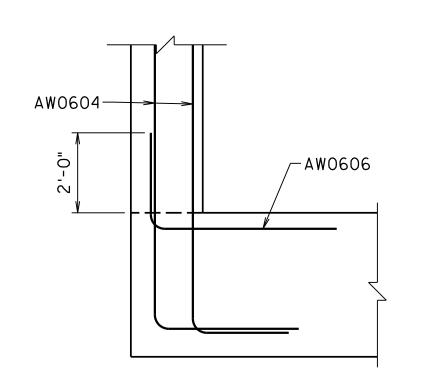


HANDRAIL ANCHOR BOLT DETAILS

Not to Scale



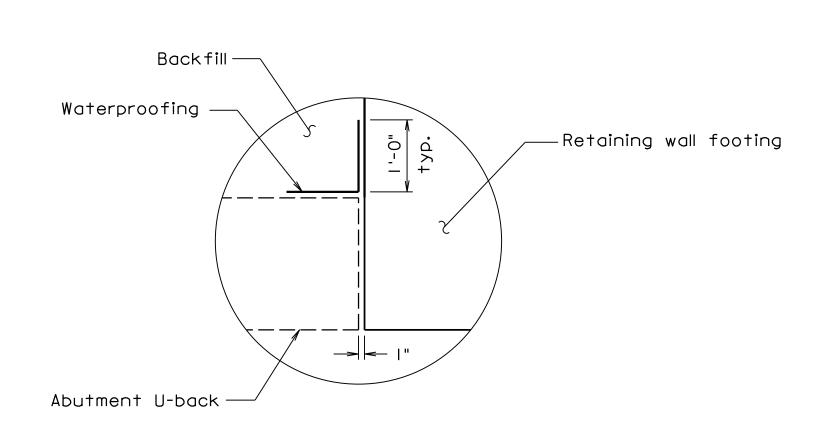
WEEPHOLE REINFORCEMENT DETAIL Not to Scale



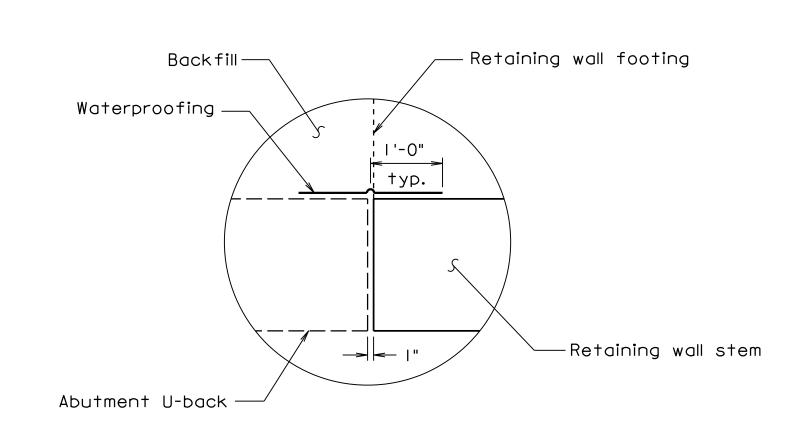
CORNER REINFORCEMENT DETAIL

Not to Scale

Abutment and backwall bars not shown for clarity



PREFORMED JOINT FILLER - AT FOOTING ELEVATION Not to Scale



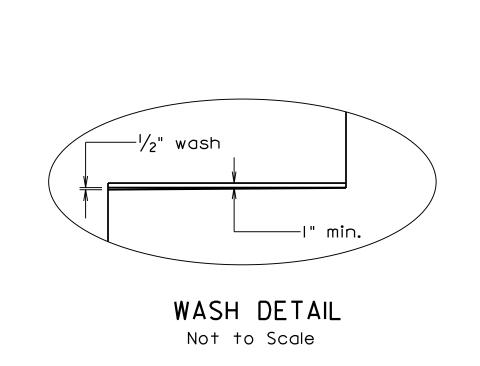
PREFORMED JOINT FILLER - AT STEM ELEVATION Not to Scale

Scale: $\frac{1}{2}$ " = 1'-0" © 2023, Commonwealth of Virginia

PROJECT ROUTE PROJECT NO.

STATE

Cost of joint filler shall be included in the price for substructure concrete.

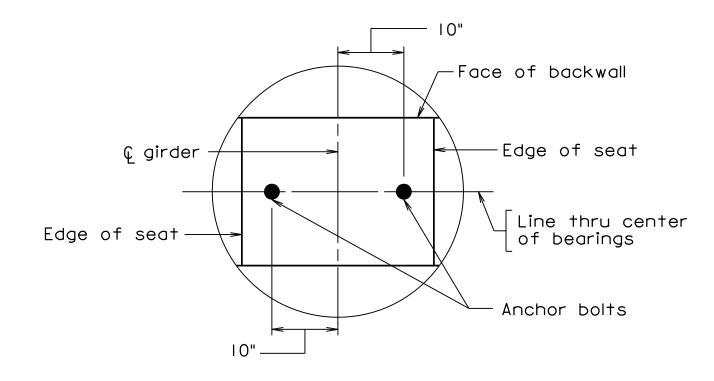


FEDERAL AID

-Face of backwall -Edge of seat Ç girder Line thru center of bearings Edge of seat Anchor bolts

ABUTMENT A ANCHOR BOLT LAYOUT

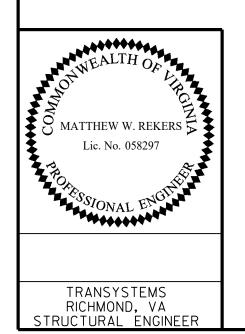
Not to Scale

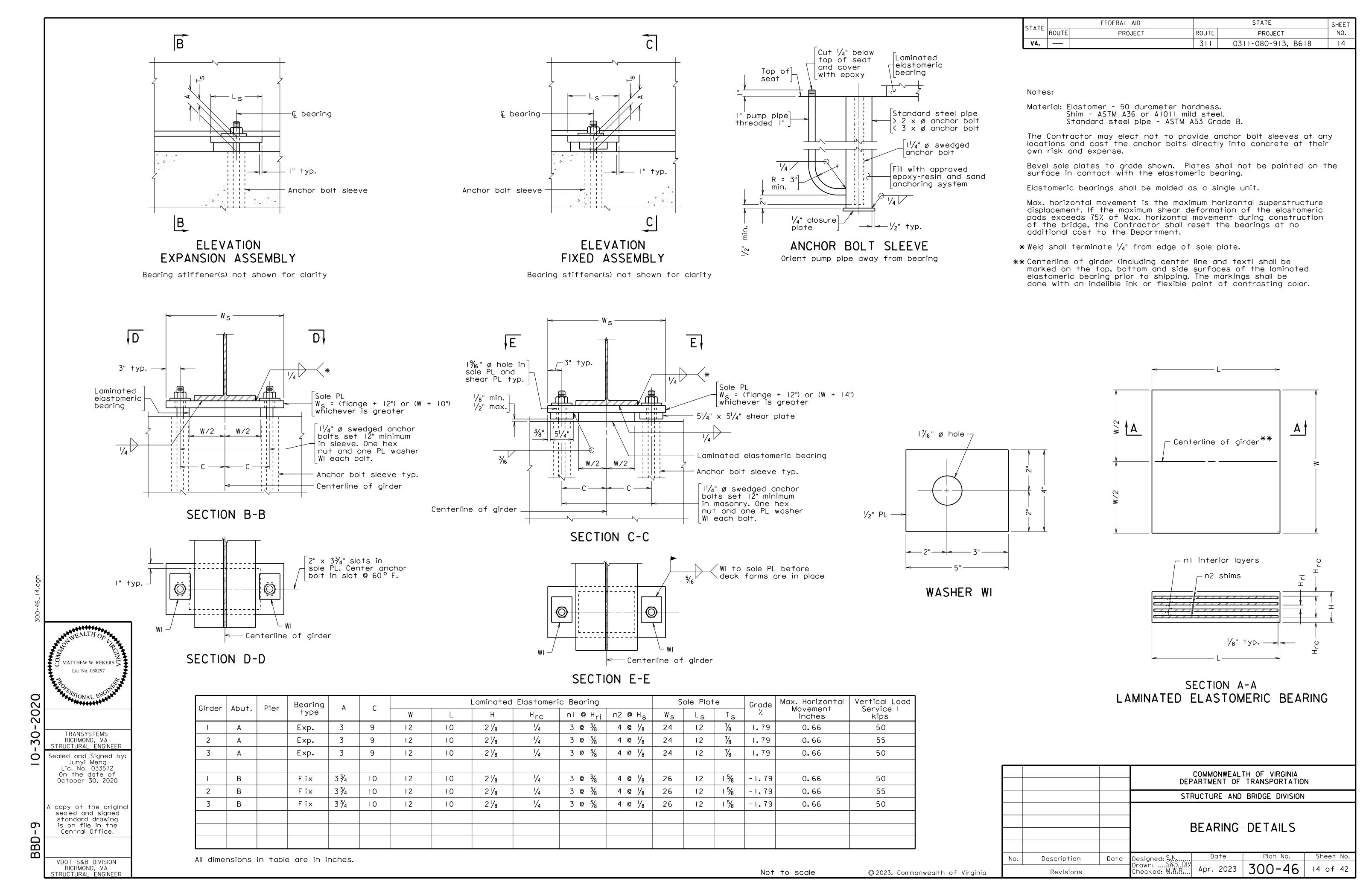


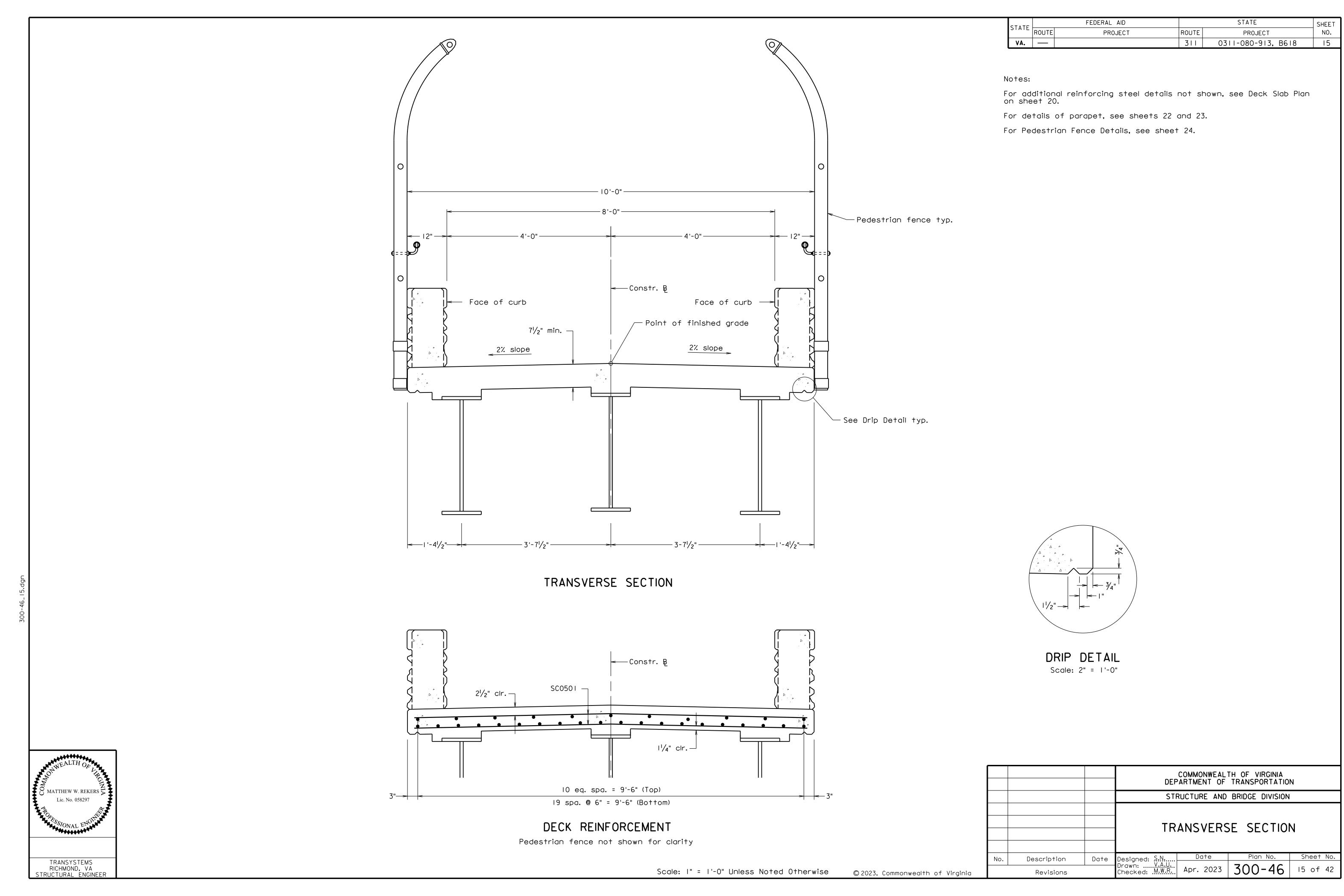
ABUTMENT B ANCHOR BOLT LAYOUT

Not to Scale

			DEF	COMMONWEAL PARTMENT OF	TH OF VIRGINIA TRANSPORTATIOI	N						
			STF	STRUCTURE AND BRIDGE DIVISION								
			A	BUTMENI	DETAILS							
No.	Description	Date	Designed: S.N	Date	Plan No.	Sheet No.						
	Revisions		Designed: S.N Drawn: V.A.U. Checked: M.W.R.	Apr. 2023	300-46	13 of 42						



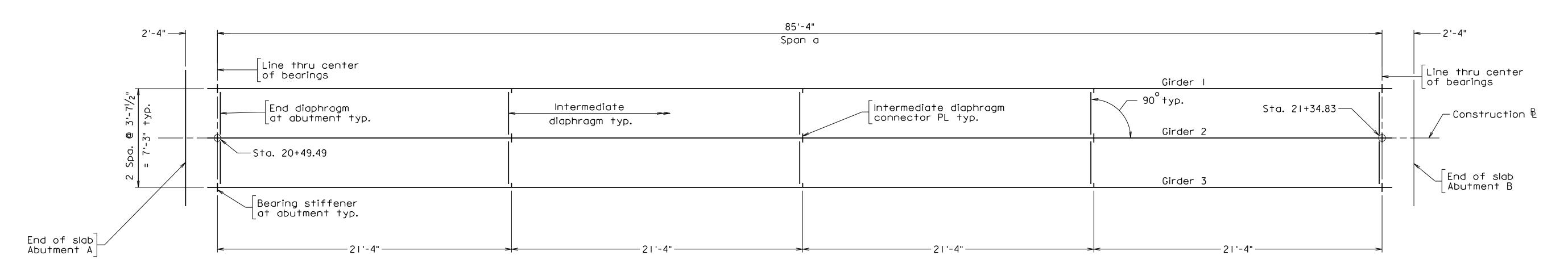




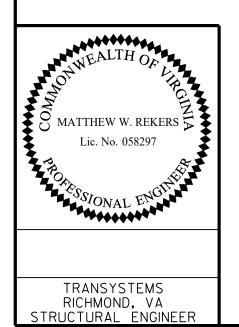


CTATE		FEDERAL AID		STATE	SHEET
STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.			311	0311-080-913, B618	16

For girder details, see sheet 17.

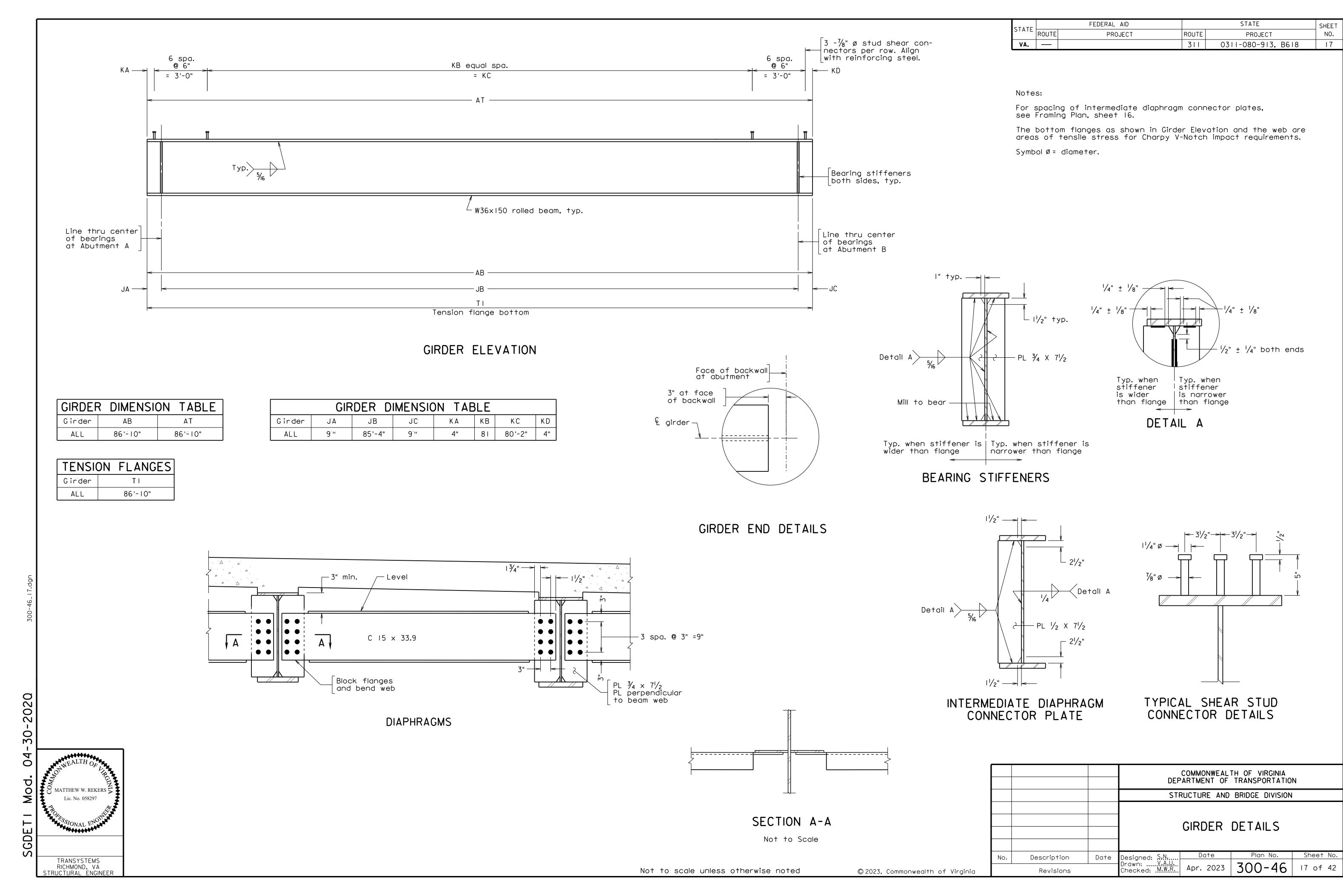


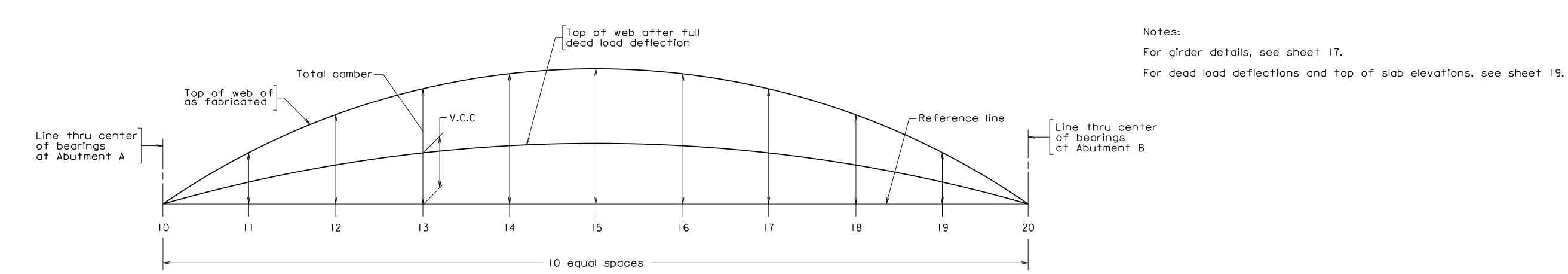
FRAMING PLAN



					TH OF VIRGINIA TRANSPORTATIO	N
			STF	RUCTURE AND	BRIDGE DIVISION	
			-	FRAMIN	G PLAN	
No.	Description	Date	Designed: S.N Drawn: V.A.U.	Date	Plan No.	Sheet No.
	Revisions		Drawn:V.A.U Checked: .M.W.R	Apr. 2023	300-46	16 of 42

Scale: $\frac{1}{4}$ " = 1'-0" © 2023, Commonwealth of Virginia





	Point	10	11	12	13	14	15	16	۱7	18	19	20
	Δs	0	1/4"	7/16"	5/8"	3/4"	3/4"	3/4"	5/8"	7/16"	1/4"	0
	△'s	0	9/16"	1 1/16"	1 7/16"	1 11/16"	1 13/16"	1 11/16"	1 7/16"	1 1/16	9/16"	0
Girder I	Δc	0	1/4"	7/16"	9/16"	11/16"	11/16"	11/16"	9/16"	7/16"	1/4"	0
	v.c.c.	0	I 3/4"	3 1/8"	4 1/16"	4 11/16"	4 7/8"	4 11/16"	4 1/16"	3 1/8"	1 3/4"	0
	Total	0	2 3/4"	5 1/16"	6 3/4"	7 3/4"	8 1/8"	7 3/4"	6 3/4"	5 1/16"	2 3/4"	0
	Δs	0	1/4"	1/2"	5/8"	3/4"	13/16"	3/4"	5/8"	1/2"	1/4"	0
	△'s	0	5/8"	1 3/16"	I 5/8"	I 7/8"	2"	I 7/8"	I 5/8"	1 3/16"	5/8"	0
Girder 2	Δc	0	3/16"	3/8"	9/16"	5/8"	1 1/16"	5/8"	9/16"	3/8"	3/16"	0
	v.c.c.	0	1 3/4"	3 1/8"	4 1/16"	4 11/16"	4 7/8"	4 11/16"	4 1/16"	3 1/8"	1 3/4"	0
	Total	0	2 3/ 6"	5 3/16"	6 7/8"	7 5/ 6"	8 5/16"	7 15/16"	6 7/8"	5 3/16"	2 3/ 6"	0
	Δs	0	1/4"	7/16"	5/8"	3/4"	3/4"	3/4"	5/8"	7/16"	1/4"	0
	△'s	0	9/16"	1 1/16"	1 7/16"	1 11/16"	1 13/16"	1 11/16"	I 7/16"	1 1/16	9/16"	0
Girder 3	Δc	0	1/4"	7/16"	9/16"	11/16"	11/16"	11/16"	9/16"	7/16"	1/4"	0
	v.c.c.	0	1 3/4"	3 1/8"	4 1/16"	4 11/16"	4 7/8"	4 11/16"	4 1/16"	3 1/8"	1 3/4"	0
	Total	0	2 3/4"	5 1/16"	6 3/4"	7 3/4"	8 1/8"	7 3/4"	6 3/4"	5 1/16"	2 3/4"	0

CAMBER DIAGRAM

Reference line = line between top of web at abutment A and top of web at abutment B (& bearing to & bearing).

 $\Delta_{ extsf{S}}$ = Deflection of girder from its own weight after erection including diaphragms, connectors, etc.

 \triangle_{S} = Deflection of girder from dead load of concrete deck slab, bolster and construction tolerance.

 $\Delta_{ extsf{C}}$ = Deflection of girder from permanent dead load added after deck slab is cast (e.g. parapet).

V.C.C = Vertical curve camber = Distance between the reference line and top of web after full dead load deflection.

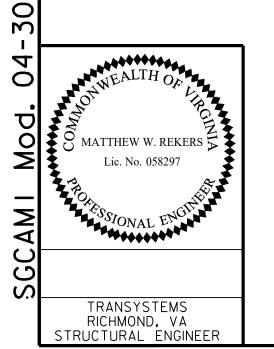
Total camber = \triangle _S + \triangle '_S + \triangle _C + V.C.C.

Sign convention: Deflections are positive if downward; negative if upward.

V.C.C. is positive if the top of web after full dead load deflection is above the reference line; and negative if below the reference line.

Total camber is positive if the top of web as fabricated is above the reference line; and negative if below the reference line.

Diagram depicts all values being positive, and is not meant to reflect actual conditions.

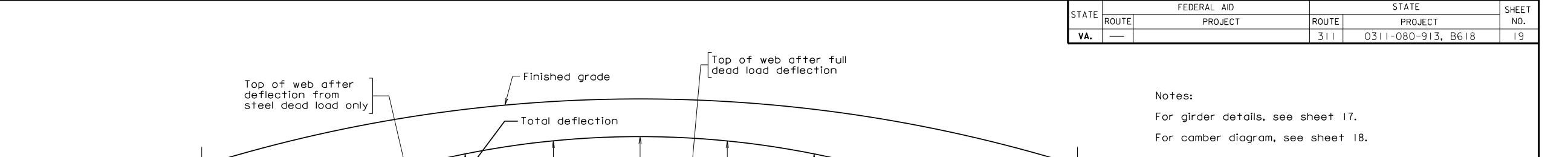


			DEF		TH OF VIRGINIA TRANSPORTATIO	N
			STI	RUCTURE AND	BRIDGE DIVISION	
			- - -	CAMBER	DIAGRAM	
No.	Description	Date	Designed: S.N	Date	Plan No.	Sheet No.
	Revisions		Designed: S.N Drawn: V.A.U. Checked: M.W.R	Apr. 2023	300-46	18 of 42

Not to scale

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	Point	10	11	12	13	14	15	16	17	18	19	20
	∆' _S	0	9/16"	1 1/16"	1 7/16"	1 11/16"	1 13/16"	1 11/16"	1 7/16"	1 1/16	9/16"	0
Girders	\triangle_{C}	0	1/4"	7/16"	9/16"	11/16"	11/16"	11/16"	9/16"	7/16"	1/4"	0
I & 3	Total	0	13/16"	1 1/2"	2"	2 3/8"	2 1/2"	2 3/8"	2"	1 1/2"	13/16"	0
	∆' _S	0	5/8"	1 3/16"	I 5/8"	I 7/8"	2"	I 7/8"	I 5/8"	1 3/16"	5/8"	0
Girder 2	\triangle_{C}	0	3/16"	3/8"	9/16"	5/8"	5/8"	5/8"	9/16"	3/8"	3/16"	0
	Total	0	13/16"	1 9/16"	2 3/16"	2 1/2"	2 5/8"	2 1/2"	2 3/16"	1 9/16"	13/16"	0

DEAD LOAD DEFLECTIONS

All values in Dead Load Deflection Table are in inches.

 \triangle_{s} = Deflection of girder from dead load of concrete deck slab, bolster and construction tolerances.

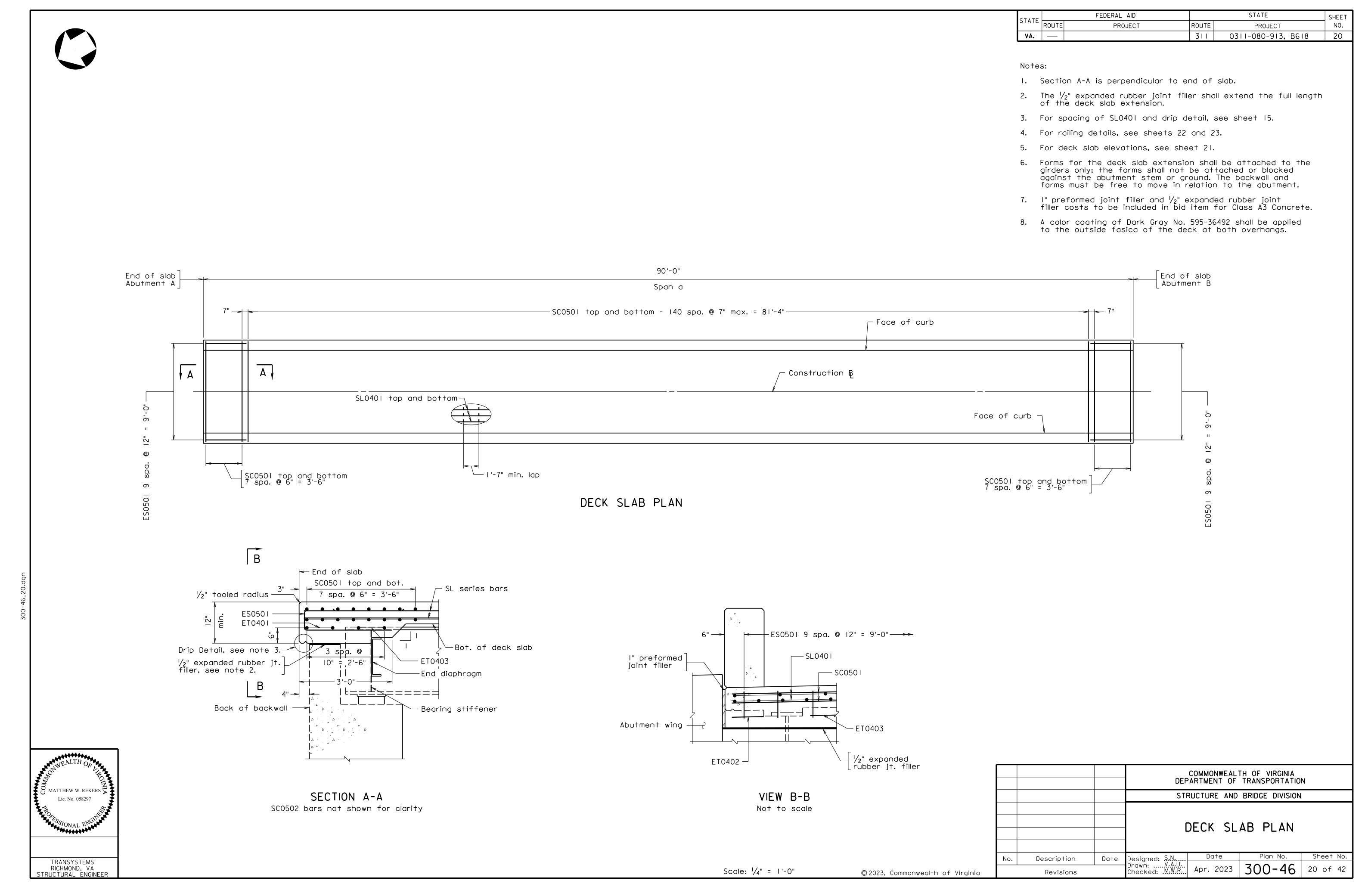
 \triangle_{C} = Deflection of girder from permanent dead load added after deck slab is cast (e.g. parapet).

	TOP OF SLAB ELEVATIONS ALONG € GIRDER													
Point 10 11 12 13 14 15 16 17 18 19 20														
Girder I	1980.32	1980.47	1980.58	1980.66	1980.71	1980.73	1980.71	1980.66	1980.58	1980.47	1980.32			
Girder 2	1980.40	1980.54	1980.65	1980.74	1980.78	1980.80	1980.78	1980.74	1980.65	1980.54	1980.40			
Girder 3	1980.32	1980.47	1980.58	1980.66	1980.71	1980.73	1980.71	1980.66	1980.58	1980.47	1980.32			

TRANSYSTEMS
RICHMOND, VA
STRUCTURAL ENGINEER

					TH OF VIRGINIA TRANSPORTATIO	N
			STI	RUCTURE AND	BRIDGE DIVISION	
					DEFLECTION	
No.	Description	Date	Designed: S.N	Date	Plan No.	Sheet No.
	Revisions		Designed: S.N Drawn:V.A.U. Checked: .M.W.R.	Apr. 2023	300-46	19 of 42

Not to scale

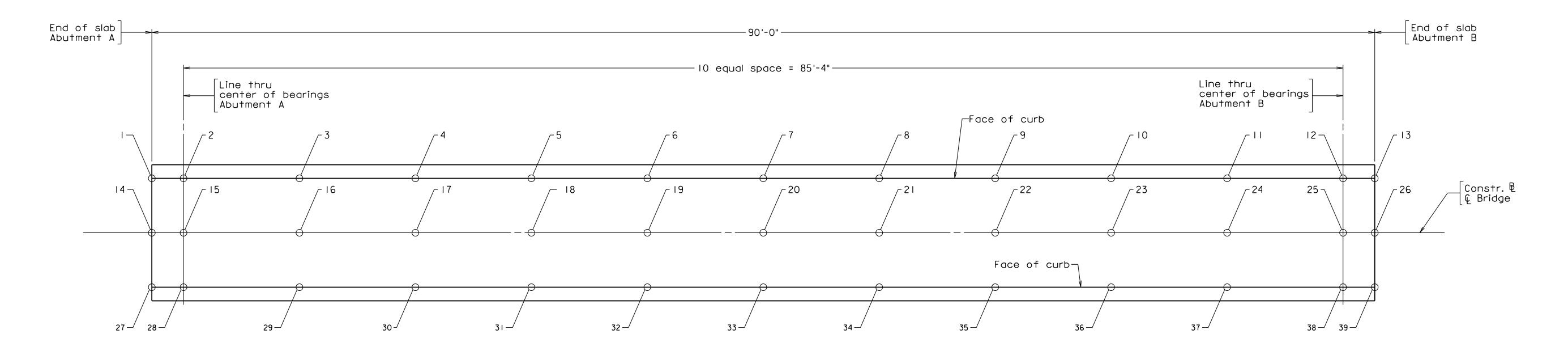




СТ	CTATE		FEDERAL AID		STATE	SHEET
	STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
	VA.			311	0311-080-913, B618	21

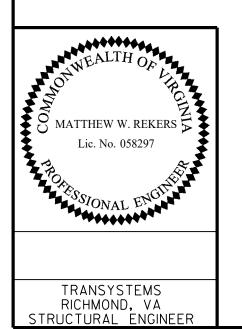
Slab elevations as shown are on top of finished roadway at face of rails. Those shown on Construction \mbed are at point of finished grade denoted on Transverse Section.

For parapet details, see sheets 22 and 23.



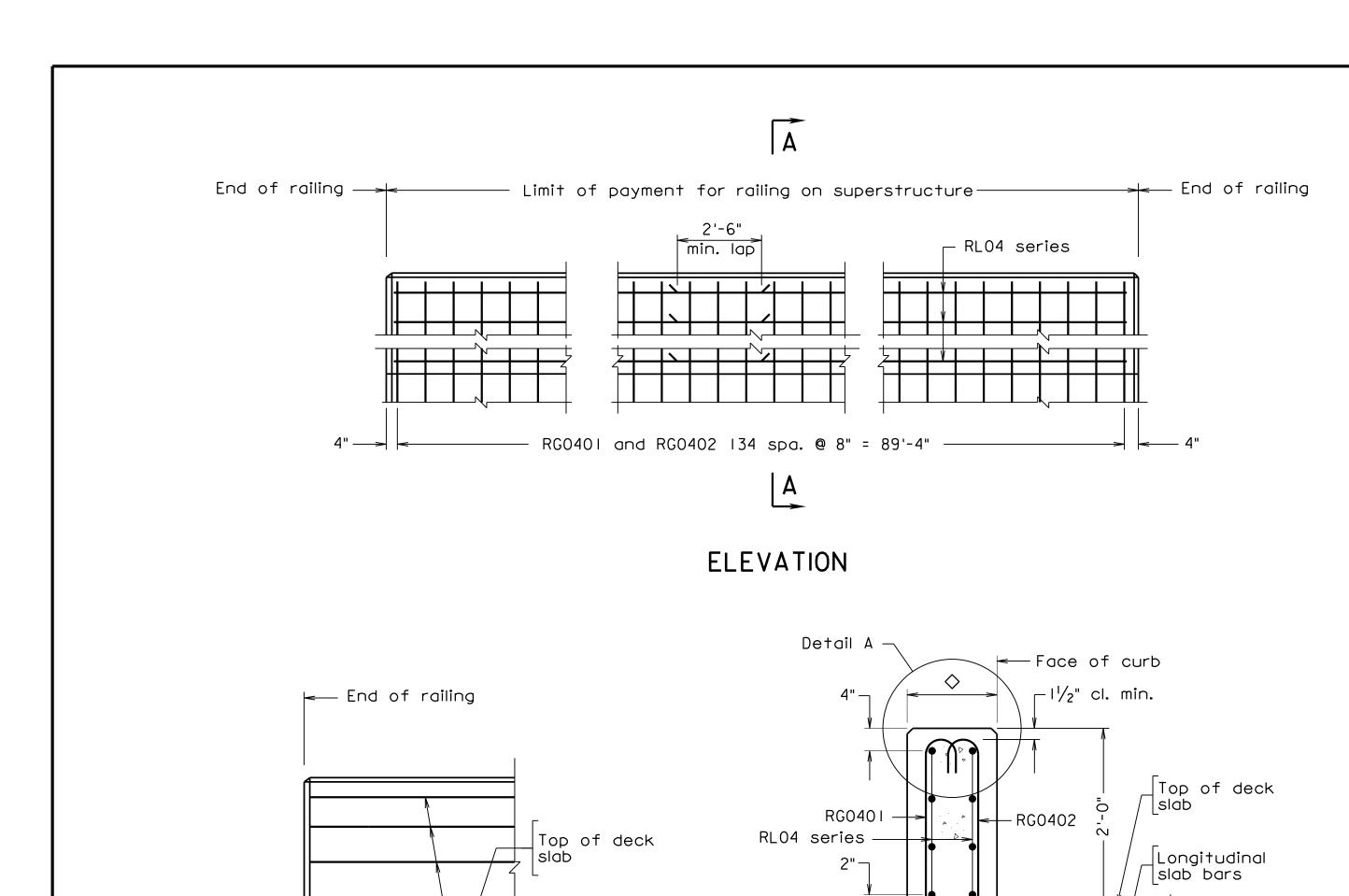
DECK SLAB ELEVATIONS

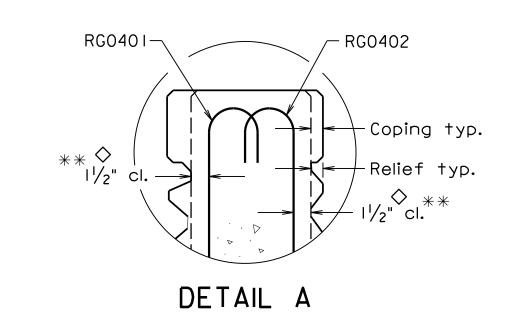
	DE	CK SLAB	ELEVATIO	NS						
East	side	Point of Fir	nished Grade	West side						
Face o	of curb	Constru	ction B	Face of curb						
Point	Elevation	Point	Elevation	Point	Elevation					
I	1980.27	1.4	1980.35	2.7	1980.27					
2	1980.32	15	1980.40	28	1980.32					
3	1980.46	16	1980.54	2.9	1980.46					
4	1980.57	1.7	1980.65	30	1980.57					
5	1980.66	1.8	1980.74	3·1	1980.66					
6	1980.70	1.9	1980.78	32	1980.70					
7	1980.72	20	1980.80	3:3	1980.72					
8	1980.70	2·1	1980.78	34	1980.70					
9	1980.66	2:2	1980.74	35	1980.66					
10	1980.57	23	1980.65	36	1980.57					
[+]	1980.46	24	1980.54	37	1980.46					
12	1980.32	25	1980.40	38	1980.32					
13	1980.27	26	1980.35	39	1980.27					



				DEF		TH OF VIRGINIA TRANSPORTATIO	N
				STI	RUCTURE AND	BRIDGE DIVISION	
				DEC	K SLAB	ELEVATIO	NS
	No.	Description	Date	Designed: S.N	Date	Plan No.	Sheet No.
		Revisions	1	Designed: S.N Drawn: V.A.U. Checked: M.W.R.	Apr. 2023	300-46	21 of 42
_					ı	1	

Scale: 1/4" = 1'-0"





- ♦ For dimensions and architectural treatment details, see sheet 23. For minimum cover,

STATE		FEDERAL AID		SHEET	
STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.			311	0311-080-913, B618	22

Plan dimensions shown are measured in the respective horizontal and vertical planes.

The Contractor shall determine all dimensions and details necessary for installation.

All concrete shall be Low Shrinkage Class A4 Modified.

All bevels for concrete shall be $\frac{3}{4}$ ".

All reinforcing steel shall be Corrosion Resistant Reinforcing Steel, Class I.

Bid price for architectural treatment includes concrete in relief and

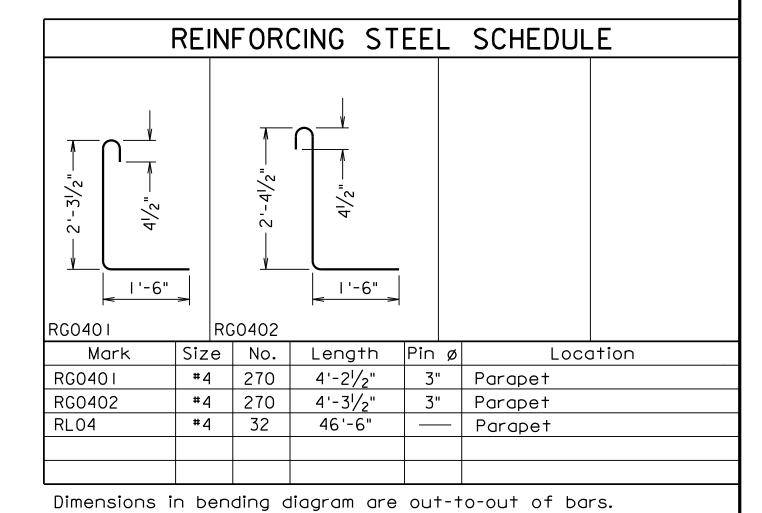
The sign shall be placed on the barrier wall between the fence posts. The sign shall be centered on the bridge.

Threaded inserts, when embedded as shown, shall develop full strength of threaded bolts. Embedment of insert per manufacturer's recommendations or 5" whichever is greater.

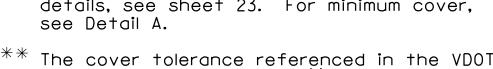
Bolts excluding threads, shall have the same vinyl coating. Threaded inserts shall not be vinyl coated.

Threaded inserts and bolt threads shall not be galvanized or coated.

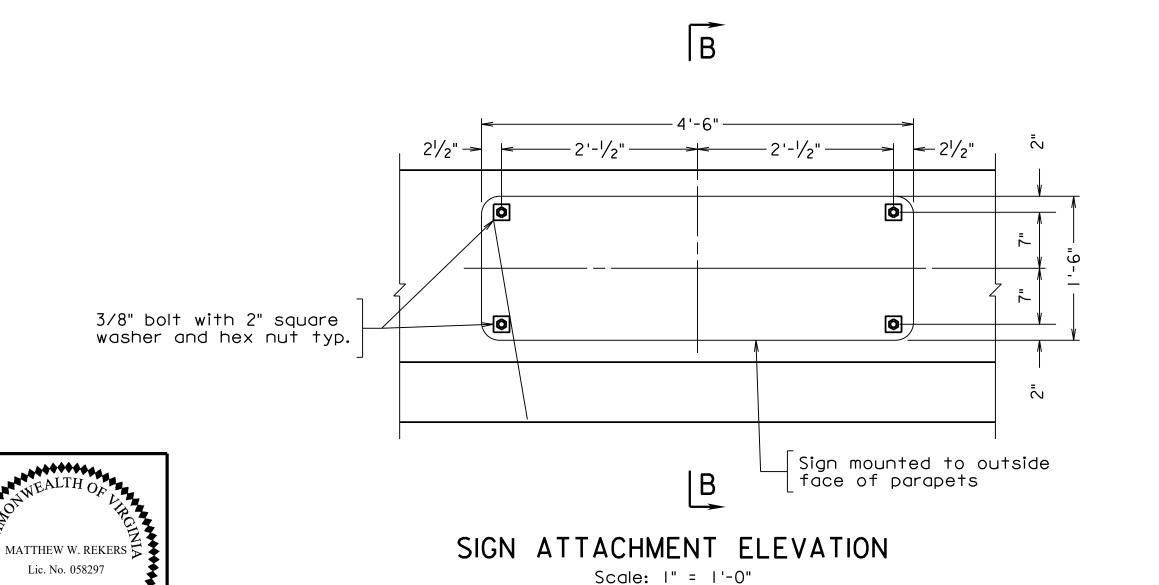
Washers, nuts and bolts shall be painted brown to match the color of the sign.



			DEF		TH OF VIRGINIA TRANSPORTATIO	N
			STI	RUCTURE AND	BRIDGE DIVISION	l
			PARAF	PET DET	AILS (I O	F 2)
No.	Description	Date	Designed: S.N.	Date	Plan No.	Sheet No
	Revisions		Designed: S.N Drawn: V.A.U. Checked: M.W.R	Apr. 2023	300-46	22 of 42



 $^{^{**}}$ The cover tolerance referenced in the VDOT Road and Bridge Specifications as -0" to +½" is shifted to -½" to +½" for placement of the RGO4 series bars.



└ RLO4 series

PART ELEVATION

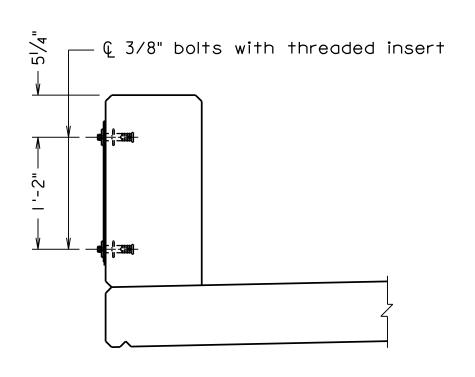
-2022

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CPSR-1

TRANSYSTEMS RICHMOND, VA STRUCTURAL ENGINEER



SECTION A-A

Scale: |" = |1'-0"

Transverse rebars in deck slab not shown for clarity

SECTION B-B Scale: I" = I'-0"

Scale: $\frac{3}{4}$ " = 1'-0" unless otherwise noted.

STATE		FEDERAL AID		SHEET	
STATE	ROUTE	PROJECT	ROUTE	PROJECT	NO.
VA.			311	0311-080-913, B618	23

Form liner shall be arranged to produce a continuous drystack pattern without obvious repetition of the pattern.

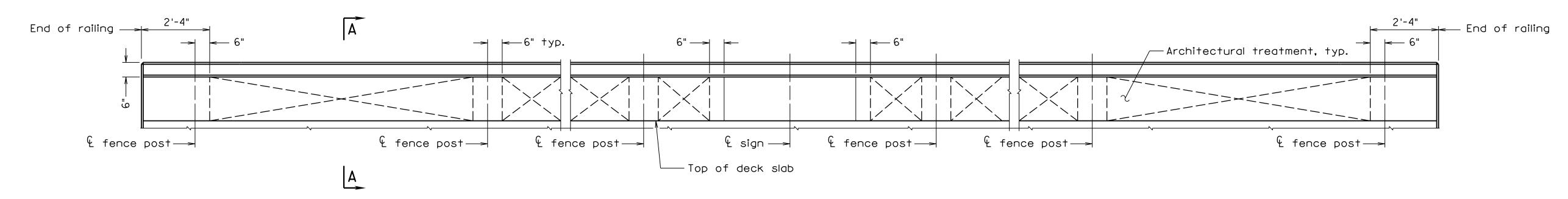
Form liner pattern shall be inspected and approved by the Department.

Details shown for a 8'-0" long form liner. Contractor shall submit shop drawings with pattern layout for approval by the Department.

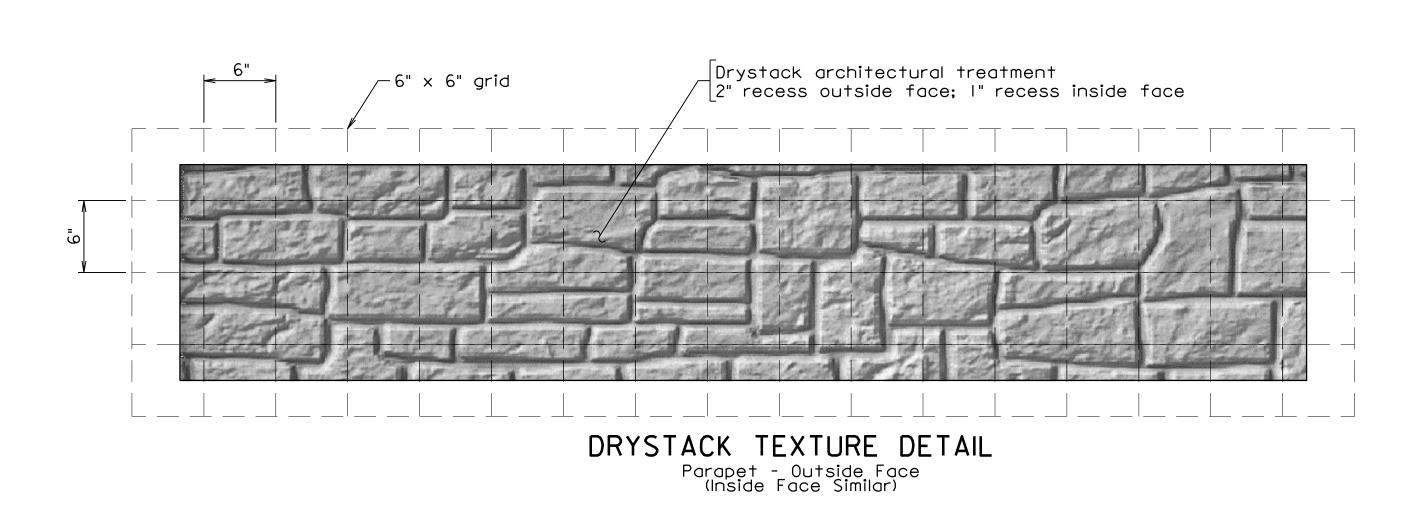
Architectural treatment shall be applied on both sides of the barriers.

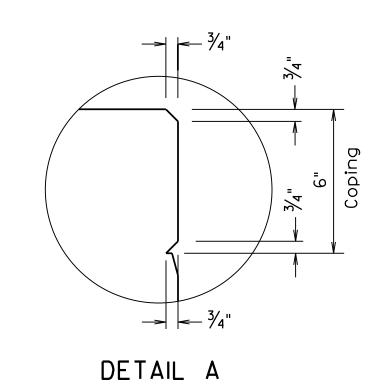
A color coating of Dark Gray No. 595-36492 shall be applied to the full length of both sides and top of the barriers.

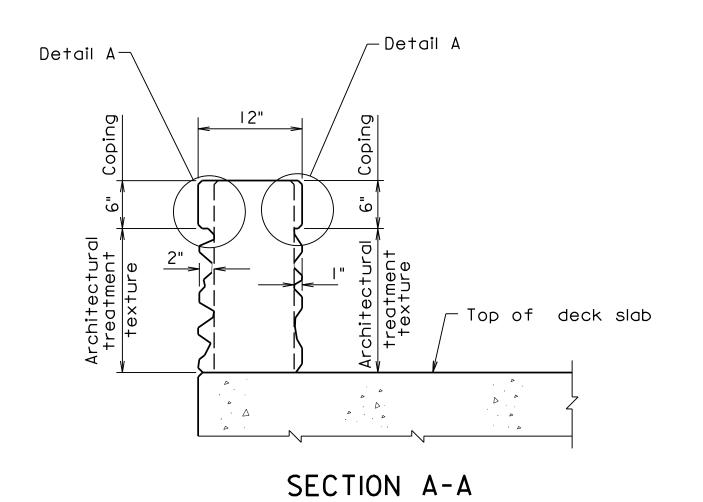
For all other dimensions and details not shown, see sheet 22. Sign mounted to bridge barriers shall be centered on bridge.



PARAPET ARCHITECTURAL TREATMENT Scale: 1/2" = 1'-0"



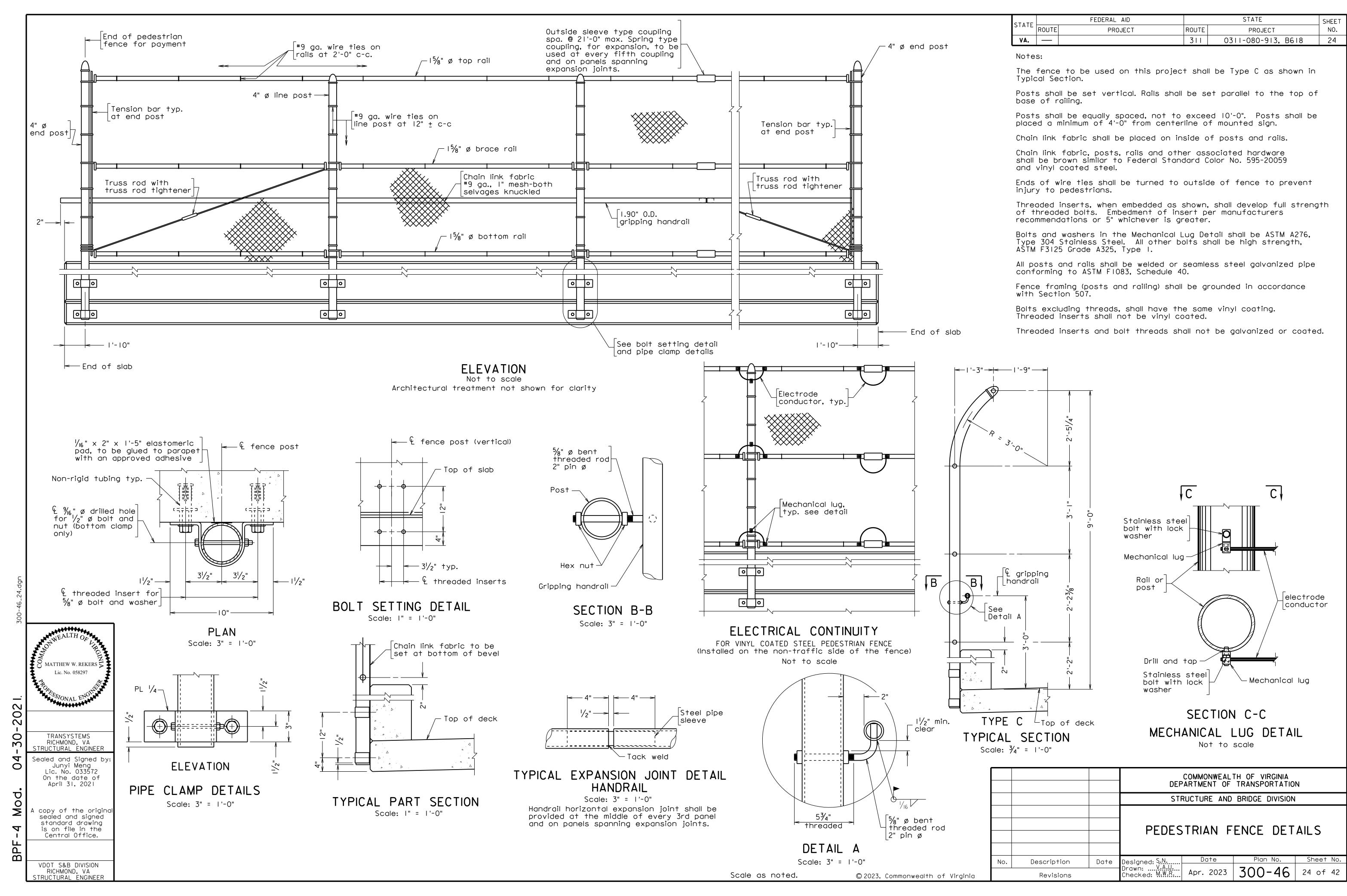




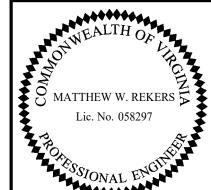
CPSR-AT-I Mod.	MATTHEW W. REKERS Lic. No. 058297	
CPS		
)	TRANSYSTEMS RICHMOND, VA STRUCTURAL ENGINEER	

10-31-2019

			DEF		TH OF VIRGINIA TRANSPORTATIO	N
			STI	RUCTURE AND	BRIDGE DIVISION	
			PARAF	PET DET	AILS (2 OI	F 2)
No.	Description	Date Designed: S.N		Date	Plan No.	Sheet No.
	Revisions		Designed: S.N Drawn:V.A.U Checked: M.W.R	Apr. 2023	300-46	23 of 42



	REINFORCING STEEL SCHEDULE								DIMENSION TABLE											STATE F		FEDERAL AID PROJEC		ROUTE	STATE PROJECT					
MARK	NO.		PIN DIA.		LENGTH	Т	WEIGHT	LOCATION	TYPE A	В	С	D	E P	F O	G R	Н	l S	J	K	L	V	N	1	VA.	<u> </u>	MENICION	\/ A D! A 7	•	311-080-913, 	3, B618 2
		3126	FT-IN	FT-IN ABUTMEN	NT A	FT-IN	(LBS.)		FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN		MARK	NO. 22		MENSION To	VARY BY	LZ FRO	<u> </u>	O VARY B
AF0602		6		13-08	ΝΙ Α			FOOTING / RET. WALL																EA. LEN.	[FT-IN	FT-IN	SION FT-		
AF0603 AF0605	30 30	6		9-00 28-03			406 1273	FOOTING RET. WALL	I 9-00 I 28-03														AF0606 AH0503	4 C 4 A	4-05 17-05	7-01 27-05	4 5/8 I-08			
ТОТ	AL WEIG	HT IN	PRECEDING	GROUP OF E	BARS NT A CORRO	SION RESIS	3280 TANT																AH0504 AV0805	4 A 4 A	2-05 7-08	12-05	2-00			
AC0401 AC0402 AC0403	399 4 1	4 4 4	3	2-04 9-03 12-09				COPING COPING COPING	7 I 9-03 I I2-09	4	1-01	1-01											AV0607	4 A	4-08	7-04	4 5/8			
AC0404 AC0405 AC0406		4 4 4		2-06 4-04 5-01				COPING COPING COPING	2-06 4-04 5-01																					
AC0407 AC0408 AC0409		4 4 4		13-07 1-00 14-01				COPING COPING COPING																						
AC0410 AC0411 AC0412	2 2 2	4 4 4		3-02 12-03 1-09			4 16 2	COPING COPING COPING	3-02 12-03 1-08																					
AF0601 AF0804 AF0606	106 128 32	6 8 6	4 1/2 6 4 1/2	8-08	TO 8-0	00	1182 2948 317	FOOTING / RET. WALL FOOTING / RET. WALL RET. WALL	43 43 43	I-00 I-04 I-00	6-07 7-06 VARY															BEND	ING DIA	GRAM		
AH0601 AH0502 AH0503				12-06 28-06 17-05	TO 27-0			STEM / BACK WALL RET. WALL RET. WALL	I 12-06 I 28-05 I VARY																	A		<u>←B→</u>		- B-
AH0504 AL0501 AL0502		5 5	3 3/4 3 3/4	+	TO 12-0	05		RET. WALL RET. WALL RET. WALL	I VARY 2 4-05 2 2-10				4 1/4 1-03 5/8	8 1/2 2-07 3/8	9 1/4 2-10 3/4									—— A —			P			ب ا
AS0401 AV0401 AV0402		4 4	3 3	1-10 12-09 18-04				WEEPHOLES STEM STEM / BACK WALL	30 7	2-07 6 1/2	9-09	5-00				4 1/2							Type I	I	Ту	pe 2	Q->	e 6 <u> </u>	Type 7	7
AV0403 AV0804 AV0805		4 8 8		9-09 13-10 7-08	TO 13-0	08		STEM RET. WALL RET. WALL	I 9-09 I I3-10 I VARY															—B— >		<u></u>	_	< B->		
AV0606 AV0607 AW0501		6 6 5	2 1/2		TO 7-0	04	176 288 16	RET. WALL RET. WALL WING HAUNCH	I 7-04 I VARY 51	1-00	8					5 5/8							H				H	->	\ \ \ \	
AW0602 AW0803 AW0604		6 8 6	4 1/2	+				WING HAUNCH WING WALL WING WALL	6-03 13-10 6	7-00	3-02												Type 3	30 _	Ту	pe 43	_ <u>√</u> Туре	; 51		
AW0505 AW0606	20 38	5 6	4 1/2	5-01 7-11			106 448	WING WALL WING WALL	6 5-01	4-00	4-00																			
ТОТ	AL WEIG	HT IN I	PRECEDING	GROUP OF E	BARS		13813																							
																							_							
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	ALTH C	Age and																												



TRANSYSTEMS RICHMOND, VA STRUCTURAL ENGINEER NOTES:

Dimensions in Bending Diagram are out-to-out of bars.

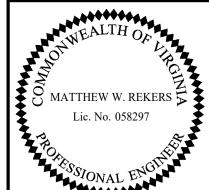
Weights in schedule are based on density of 490 lb/ft.

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			COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION STRUCTURE AND BRIDGE DIVISION									
			REINFOI	ABUTM RCING ST	ENT A TEEL SCHE	DULE						
No.	Description	Date	e Designed: S.N. Date Plan No. St Drawn:V.A.U. Apr 2023 300-16 25									
	Revisions	l	Drawn:V.A.U Checked: M.W.R	Apr. 2023	300-46	25 of 42						

			REINF (ORCING STEEL SC	HEDUL							DIMENS	ION TA	ABLE									TATE RO		FEDERAL AID PROJECT		ROUTE	STATE PROJ
MARK	NO.	т т	PIN DIA.	LENGTH	WEIGHT	LOCATION	TYPE	<u> </u>	В	С	D	E P	F O	G	Н	l S	J	K	L	V	N	L	VA	— —	MENICIONI	<u>'</u>	•	311-080- DI E
		5,26	FT-IN	FT-IN FT-IN ABUTMENT B	(LBS.)			FT-IN	FT-IN	FT-IN	N FT-IN	FT-IN	FT-IN	FT-IN	I FT-IN	FT-IN	FT-IN	FT-IN	I FT-IN	FT-IN		MARK N	0. ½z	FROM	MENSION To		UN IAL	
AF060		+		23-04		FOOTING	1	23-04														LE LE	A. DIMEN. SION	FT-IN	FT-IN	FT-IN	SION FT-	
AF0600 AF0600		6666		8-00 16-10 1/2 TO 25-02 1/2 24-06		FOOTING RET. WALL FOOTING RET. WALL FOOTING		8-00 VARY 1 24-06														AF0605 AF0612	2 A 2 A	16-10 1/2 16-03	17-06	7 3/4 7 1/2		
AF060 AF060 AF060	7 2 8 2 9 2	6 6 6		22-11 22-00 2-02	69 66 7	RET. WALL FOOTING RET. WALL FOOTING RET. WALL FOOTING		22- 22-00 2-02															2 A 2 A	9-01	13-01	0 3/4		
AF0610 AF061 AF0612		6 6 6		3-08 15-09 16-03 TO 17-06	11 615 152	RET. WALL FOOTING RET. WALL FOOTING RET. WALL FOOTING		3-08 15-09 VARY																				
AF0613 AF0613	3 12 4 2 5 2	6 6 6		9-01 TO 16-11 7-06 5-03	234 23 16	RET. WALL FOOTING RET. WALL FOOTING RET. WALL FOOTING		VARY 7-06 5-03																				
AF0616 AF0618	6 2 7 2 8 54	666		3-01 18-06 6-06	9 56 527	RET. WALL FOOTING RET. WALL FOOTING RET. WALL FOOTING		3-01 18-06 1 6-06																				
AF0619			PRECEDING (25-09 ROUP OF BARS	619 4569	RET. WALL FOOTING	ı	25-09																				
				ABUTMENT B CORROSION RESIS																					BENDIN	NG DIAGF	RAM	
AC040 AC040 AC040	1 494 2 4 3 1	4 4 4	3	2-04 9-02 11-08	756 24 8	COPING COPING COPING	7	9-02	4	1-01	1-01														—A—→ <u> </u>			
AC0400 AC0400		4 4 4		2-06 3-10 4-01		COPING COPING COPING		2-06 3-10 4-01															<u> Λ </u>			9		
AC040 AC040 AC040	_	4 4 4		13-05 4-04 13-11		COPING COPING COPING																Typo	— д ——	Typ	e 2	Type		Тур
AC0410 AC0412		4 4 4		2-08 II-03 8-03		COPING COPING COPING	1	2-08 1-03 8-03														Type I	3->	1 1 1	- B→		<u></u>	136
AC0413 AC0413		4 4 4		13-00 7-08 7-10		COPING COPING COPING		1 13-00 1 7-08 1 7-10														H	(ر		T H→	-	ا ن
AC0416 AC0418		4 4 4		13-03 21-09 3-06		COPING COPING COPING																Type 30		L Typ	e 43	Type		<u></u>
AC0419 AC0420 AF060		4 4 6	4 1/2	1 - 03 12 - 09 7 - 06	8	COPING COPING FOOTING / RW FOOTING		11-03	1-00	6-07												7,7,7,0,00				1.320	<u> </u>	
AF0804 AF0620 AF062		8 6	6 4 1/2 4 1/2	9-08 7-01 6-07		FOOTING / RW FOOTING PILASTER STAIR FOOTING			I-04 I-00 I-00	8-06 6-02 I. 5-08 I.	/2 /2																	
AF0422 AF0423 AH060		4 4	2 2	2-04 3-04 11-08		PILASTER STAIR FOOTING STEM / BACKWALL	5 I		6 9	6 9					4 1/2													
AH0503 AH0503 AH0504		5 5 5	3 3/4 3 3/4 3 3/4			RET. WALL RET. WALL RET. WALL	+	3-00 20-08 1/2 20-06 1/8				8 3/4 10 1/8 8 3/4	1-0 3/4 1-0 3/4 1-0 3/4	1 1-04 3 1-06 / 4 1-04	2													
AH0509 AH0509 AH050		5 5 5	3 3/4 3 3/4			RET. WALL RET. WALL RET. WALL		12-05 3/8 12-07 7/8 11-00						3 4-00 7/ 4-03 3/														
AH0508 AL050 AL0502		5 5 5	3 3/4 3 3/4	25-10 18-06 7-04		RET. WALL RET. WALL RET. WALL		25-10 11-06 1/2 3-00				9 1/4 2-03 7/8	6-10 3/4 3-07 1/2	4 6-11 1/ 2 4-03 3/	4 8													
AL 0503 AL 0504 AS040		5 5 4	3 3/4	10-07 21-09 1-10	1	RET. WALL RET. WALL WEEPHOLES		3-10 121-09 1-10						4 6-08 7/														
AV040 AV040 AV040	I	4 4 4	3 3	12-08 18-02 9-08		STEM STEM / BACK WALL STEM	30 7		2-07 6 1/2	9-08	5-00				4 1/2	2												
AV080- AV060- AV060-	1	8 6 6		13-03 11-04 TO 13-01 11-04		RET. WALL RET. WALL RET. WALL																						
AW050 AW060 AW080		5 6 8	2 1/2	3-09 6-03 14-00		WING HAUNCH WING HAUNCH WING WALL	51		1-00	8					5 5/8	3												
AW060 AW050 AW060		656	4 1/2 4 1/2	9-01 4-01		WING WALL WING WALL WING WALL	6	4-01	6-00 4-00	3-02 4-00																		
		GHT IN F	PRECEDING (ROUP OF BARS	19493																							
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TRANSYSTEMS RICHMOND, VA STRUCTURAL ENGINEER NOTES:

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				COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION STRUCTURE AND BRIDGE DIVISION ABUTMENT B								
			REINFO		TEEL SCHE	DULE						
No.	Description	Date	Designed: S.N.	Date	Plan No.	Sheet No.						
	Revisions	I	Designed: S.N. Drawn: V.A.U. Checked: M.W.R.	Apr. 2023	300-46	26 of 42						

STATE

PROJECT

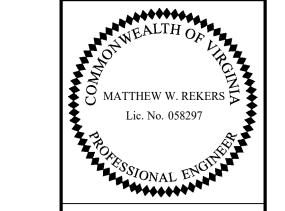
0311-080-913, B618 26

FT-IN

VARY BY

FT-IN

			REIN	FORCING STEEL SO	CHEDULE					IMENSI	ON TAB	LE										ROUTE	FI	EDERAL A			JTE 071	STATE PROJECT	SHEET NO. B618 27
MA	RK NO		PIN DI	A. LENGTH	WEIGHT LOCATION	TYPE A	В	С	D	E P	F Q	G R	Н	l S	J	K	L	V	N		VA.		DIME	ENICIO	NI V/ A	,	N TABL	-080-913,	8618 21
		0.22	FT-IN	SUPERSTRUCTURE - CORROSIC		FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	Q FT-IN	FT-IN	FT-IN	S FT-IN	FT-IN	FT-IN	FT-IN	FT-IN		MARK	NO.		OM	TO			FROM		VARY BY
ESC		0 5	3 3	/4 6-05	134 DECK	7	7	3-03	2-10												NO. EA.	OS FT		FT-IN			_		
ET(ET(10 I 102 1 103 1	4 4 8 4 8 4		9-01 7 2-04	24 DECK 3 DECK 12 DECK	9-01 7 2-04																							
SC(SL(4 5) 	9-08 89-09	3166 DECK 1857 DECK	I 9-08 I 89-08																							
	OTAL WE	EIGHT IN	I PRECEDIN	G GROUP OF BARS	5196																								
																								REN	DING		<u> </u>		
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TRANSYSTEMS RICHMOND, VA STRUCTURAL ENGINEER

NOTES:

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				COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION	
				STRUCTURE AND BRIDGE DIVISION	
				SUPERSTRUCTURE REINFORCING STEEL SCHEDUL	E
	No.	Description	Date	Designed: S.N. Date Plan No. She	et No.
© 2023, Commonwealth of Virginia		Revisions		Designed: S.N. Date Plan No. She Drawn:V.A.U Apr. 2023 300-46 27 c	of 42

 STATE
 FEDERAL AID
 STATE
 SHEET

 ROUTE
 PROJECT
 ROUTE
 PROJECT
 NO.

 VA.
 —
 311
 0311-080-913, B618
 28

ABUTMENT B BR-01 0311-080-913, B618 STATION: 21+61.97 LATITUDE: 37.380175° N OFFSET: 15.22'RT LONGITUDE: 80.090286° W COORD. DATUM: NAD 83 SURFACE ELEVATION: 1,970.0 ft FIELD DATA LAB DATA Date(s) Drilled: 12/30/2019 - 01/02/2020 S O IL ROCK Drilling Method(s): 3 1/4" HSA SPT Method: Automatic Hammer Other Test(s): 岀 Driller: S. Roman [BRD] Logger: C. O'Hara [ECS] GROUND WATER NOT ENCOUNTERED DURING DRILLING NO LONG TERM MEASUREMENTS TAKEN FIELD DESCRIPTION OF STRATA LL PI 0.0 / 1,970.0 Topsoil (6") 10 32.2 0.5 / 1,969.5 Residuum, Gray-brown, fine to medium, CLAYEY SAND, medium dense, moist 31 | 13 | 15.7 | 44.0 | Auger Refusalat 3.0 ft 3.0 / 1,967.0 Slightly weathered, very hard, light gray, QUARTZITE, highly fractured Abutment A, Abutment B and all Retaining Walls Bottom of Footing Elev. 1963.00' 10 1960 92 83 REMARKS: Rig Type: CME-55. Caved depth 3.0'. PAGE I OF I

		5-(SLOPE					
031	1-080) – <u>(</u>	9 I	3	, B	6 I	8	STATION: 22+69.76 OFFSET LATITUDE: 37.379821°N LONGIT SURFACE ELEVATION: 1,980.0 ft COORD.	JDE:	80.	0903		W
Г		D DA	AΤΑ					Date(s) Drilled: 01/02/2020 - 01/02/2020			LAB	DAT	Д
DEPTH (f+) ELEVATION (f+)	STANDARD STA	AMPLE LEGE	SAMPLE INTERVAL	(%)	ROCK QUALITY DESIGNATION STRATA O	IP °	STRATA LEGEND	Drilling Method(s): 3 I/4" HSA SPT Method: Automatic Hammer Other Test(s): Driller: S. Roman [BRD] Logger: C. O'Hara [ECS] GROUND WATER NOT ENCOUNTERED DURING DRILLING		LIQUID LIMIT	PLASTICITY INDEX	MOISTURE CONTENT (%)	S CONTENT -#200 (%)
	PENE HAA	00	0,	COF				NO LONG TERM MEASUREMENTS TAKEN				MO	FINES
			/				5:A.///	FIELD DESCRIPTION OF STRATA		LL	ΡI		<u> </u>
2	2 3	75	2					0.0 / 1,980.0 Topsoil(4") 0.3 / 1,979.7 Residuum, Brown, SANDY LEAN CLAY, soft, moist SAME, firm; sampler partially impeded by tree root				15.7	
1975	5 7		6					4.0 / 1,976.0 Brown, SANDY LEAN CLAY with gravel, contains rock fragments, stiff, moist SAME, very stiff				19.1	
8 -	7 8 10		8									17.8	
12 - 14 - 1965	27	00	13 . 5					12.0 / 1,968.0 Gray, LEAN CLAY, trace sand, hard, moist		47	20	15.4	97.0
18 - 20 -1960		00 X	18.5 19.4					18.5 / 1,961.5 Tan-gray-black, medium to coarse, POORLY GRADED SAND with gravel, contains rock fragments, very dense, moist				13.3	
24 -	36	00	23 . 5 25					Boring Terminated at 25.0 ft				6.9	
REMARKS:	Rig Type: C	:ME-55	ō. Ca	ved	dept	h 10	0.9'.	Bulk sample collected 0.5'-8.0'.					

STATION: 2 PRODUCT P	SS-02	SLOPE		
S O II	0311-080-913, B618	STATION: 22+62.66 OFFSET: I LATITUDE: 37.379937° N LONGITUDE: SURFACE ELEVATION: 1,969.0 ft COORD. DA	80.090	
2	DEPTH (ft) LEVATION (ft) STANDARD AMER BLOWS AMER BLOWS AMPLE LEGEND AMPLE LEGEND APLE INTERVAL RECOVERY (%) CK QUALITY CK QUALITY CK QUALITY CK QUALITY CK QUALITY CO STRATA	Drilling Method(s): 3 1/4" HSA SPT Method: Automatic Hammer Other Test(s): Driller: P. Smith [BRD] Logger: C. O'Hara [ECS] GROUND WATER \$\forall FIRST ENCOUNTERED AT 5.0 ft DEPTH NO LONG TERM MEASUREMENTS TAKEN	LIQUID LIMIT PLASTICITY INDEX	CONTENT -#200 (%)
	8	O.0 / 1,969.0 Gravel(4") O.33 / 1,968.67 Residuum, Tan-brown, fine, POORLY GRADED GRAVEL with sand, medium dense, moist SAME, very loose SAME, medium dense 6.0 / 1,963.0 Gray, LEAN CLAY, trace sand and gravel, contains rock fragments, very hard, moist		9.4 13.9 10.6 88.0 8.8

UPC# 111066

The subsurface information shown on the boring logs in these plans was obtained with reasonable care and recorded in good faith solely for use by the Department in establishing design controls for the project. The Department has no reason to suspect that such information is not reasonably accurate as an approximate indication of the subsurface conditions at the sites where the borings were taken. The Departmentdoes not in any way warrant or guarantee that such data can be projected as indicative of conditions beyond the limits of the borings shown; and any such projections by bidders are purely interpretive and altogether speculative. Further, the Department does not in any way guarantee, either expressly or by implication, the sufficiency of the information for bid purposes.

The boring logs are made available to bidders in order that they may have access to subsurface data identical to that which is possessed by the Department, and are not intended as a substitute for personal investigation, interpretation and judgment by the bidders.

			DEF		TH OF VIRGINIA TRANSPORTATIO	
			ST	RUCTURE AND	BRIDGE DIVISION	
					913, B618 OLOGY (1	
No.	Description	Date	Drilled: BRD	Date	Plan No.	Sheet No.
	Revisions		Drilled: <u>BRD</u> Logged: ECS. Checked: <u>MWR</u>	Apr. 2023	300-46	28 of 42

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VA.			311	0311-080-913, B618	2.9

SS-03						SLOPE				
031	I-080	-91	3,	В6	818	STATION: 22+23.23 OFFSET: 4 LATITUDE: 37.380002° N LONGITUDE: SURFACE ELEVATION: 1,985.0 ft COORD. DATE	: 80.	.090		W
DEPTH (f+) ELEVATION (f+)	TANDARD STATION TEST O WER BLOWS TECOVERY (%)	SAMPLE LEGEND SAMPLE INTERVAL	CORE RECOVERY (%)	STRATA O		Date(s) Drilled: 01/02/2020 - 01/02/2020 Drilling Method(s): 3 1/4" HSA SPT Method: Automatic Hammer Other Test(s): Driller: S. Roman [BRD] Logger: C. O'Hara [ECS] GROUND WATER NOT ENCOUNTERED DURING DRILLING NO LONG TERM MEASUREMENTS TAKEN	LIQUID LIMIT	PLASTICITY INDEX	MOISTURE CONTENT (%)	FINES CONTENT -#200 (%)
2 - 198 - 4 - 198 - 6 - 197 - 12 - 197 - 16 - 197 - 16 - 197	13 16 100 13 16 38 13 16 38	2 4 6 0 8 0 10 13.5 15				FIELD DESCRIPTION OF STRATA 1.0.0 / 1,985.0 1.0.2 / 1,984.58 Residuum, Brown, SANDY LEAN CLAY, trace gravel, Contains rock fragments, soft, moist 2.0 / 1,983.0 1.0.1 / 1,981.0 1.0.1 / 1,981.0 1.0.1 / 1,981.0 1.0.1 / 1,981.0 1.0.1 / 1,977.0 1.0.1 / 1,977.0 1.0.1 / 1,977.0 1.0.1 / 1,973.0 1.0.1 / 1,97	56	27	16.4 3.0 16.7 19.4 14.7	
REMARKS	S: Rig Type: CM	E-55. Ca	ved c	lepth	12.7'.	Bulk sample collected 4.0' to 10.0'	PA	GE	I OF	I

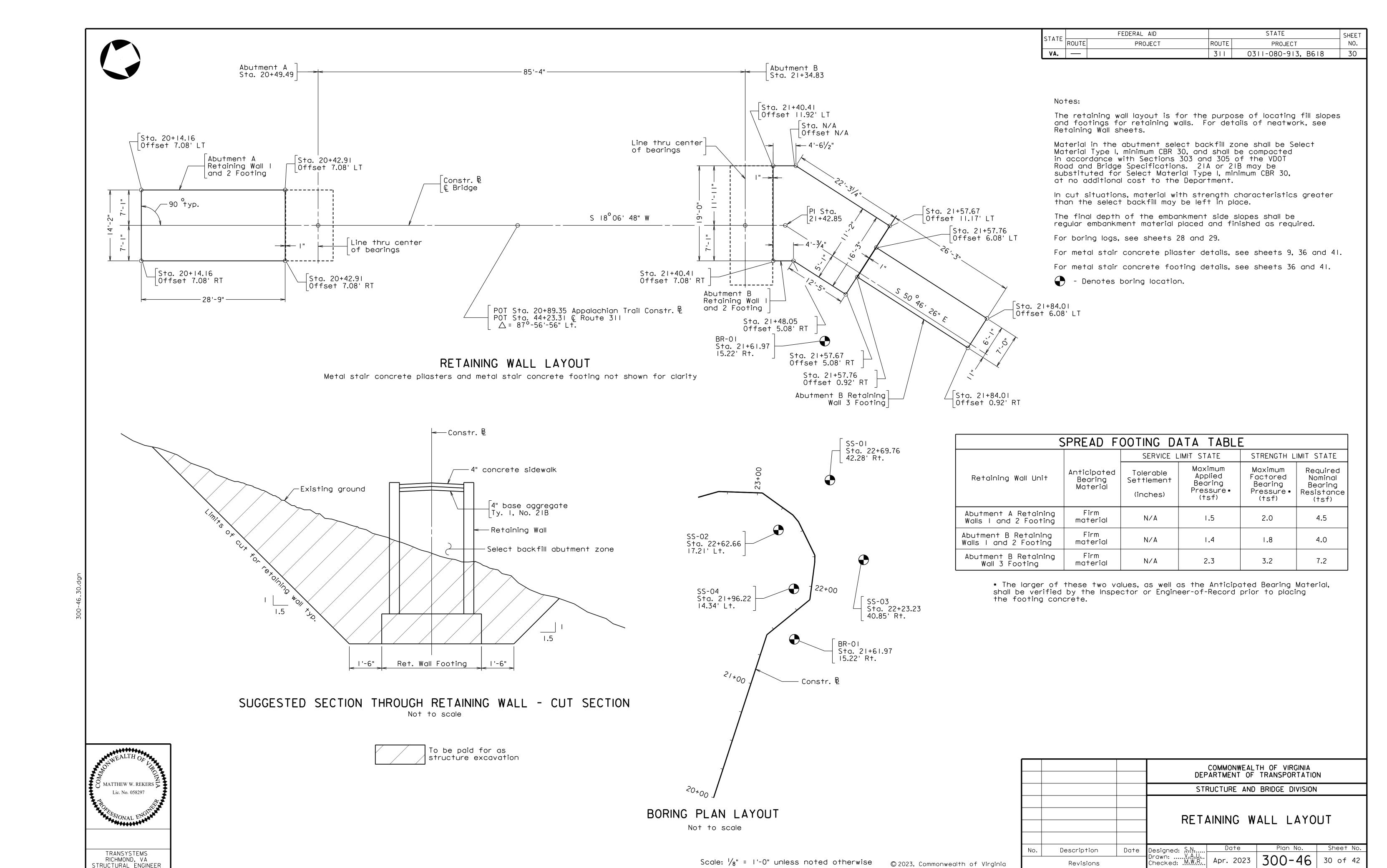
0	3 I			-04 -9		, B	86	18	STATION: 21+96.22 OFFSET: I LATITUDE: 37.380071° N LONGITUDE:			277°	W
									SURFACE ELEVATION: 1,969.0 ft COORD. DA		NAD	83	
DEPTH (ft)	ELEVATION (f+)	STANDARD STA	L	SAMPLE LEGEND SAMPLE INTERVAL	S:	LIT≺ NOI	STRATA OINTS	LEGEND	Date(s) Drilled: 12/30/2019 - 12/30/2019 Drilling Method(s): 3 1/4" HSA SPT Method: Automatic Hammer Other Test(s): Driller: P. Smith [BRD] Logger: C. O'Hara [ECS] GROUND WATER ▼ FIRST ENCOUNTERED AT 17.0 ft DEPTH NO LONG TERM MEASUREMENTS TAKEN FIELD DESCRIPTION OF STRATA	LIQUID LIMIT	PLASTICITY INDEX BY	MOISTURE CONTENT (%)	FINES CONTENT -#200 (%)
		I			+				0.0 / 1,969.0	<u> </u>	1 1		
· 2	- - -1965	7 10	3	2					Gravel(4.0") 0.33 / I,968.67 Residuum, Tan-gray, LEAN CLAY, trace sand, firm, moist 2.0 / I,967.0 Tan-brown, fine, CLAYEY GRAVEL with sand, medium dense, moist 4.0 / I,965.0 Gray, SANDY LEAN CLAY, very stiff, moist	31	13	30.3 10.6	30.0
6		28 38 50/5"	3	6.9					6.0 / 1,963.0 Tan-gray, fine to medium, POORLY GRADED SAND with silt, trace clay, contains rock fragments, very dense, moist			11.5	
8	1960	⁴² 50/4"		8 8.8								11.8	
-12		15 26 42	2	13.5	5							8.5	
18		14		<u></u>	5				17.0 / 1,952.0 Gray, fine, POORLY GRADED GRAVEL with sand, trace clay, very dense, wet				
20	1950	27 42	2	20								15.6	
22	-1945	9 12	5	23.	5				22.0 / 1,947.0 Gray, SANDY LEAN CLAY with gravel, contains rock fragments, very stiff, moist	-		18.4	
26									27.0 / 1,942.0 Gray, fine, POORLY GRADED GRAVEL with clay and				
28	1940	 13 27 21		28.					sand, dense, moist			18.1	
				50					Boring Terminated at 30.0 ft				

The subsurface information shown on the boring logs in these plans was obtained with reasonable care and recorded in good faith solely for use by the Department in establishing design controls for the project. The Department has no reason to suspect that such information is not reasonably accurate as an approximate indication of the subsurface conditions at the sites where the borings were taken. The Departmentdoes not in any way warrant or guarantee that such data can be projected as indicative of conditions beyond the limits of the borings shown; and any such projections by bidders are purely interpretive and altogether speculative. Further, the Department does not in any way guarantee, either expressly or by implication, the sufficiency of the information for bid purposes. The boring logs are made available to bidders in order that they may have access to subsurface data identical to that which is possessed by the Department, and are not intended as a substitute for personal investigation, interpretation and judgment by the bidders.

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION STRUCTURE AND BRIDGE DIVISION 0311-080-913, B618 ENGINEERING GEOLOGY (2 OF 2) Sheet No. Drilled: BRD Logged: ECS Checked: MWR Date Description Apr. 2023 300-46 29 of 42 Revisions

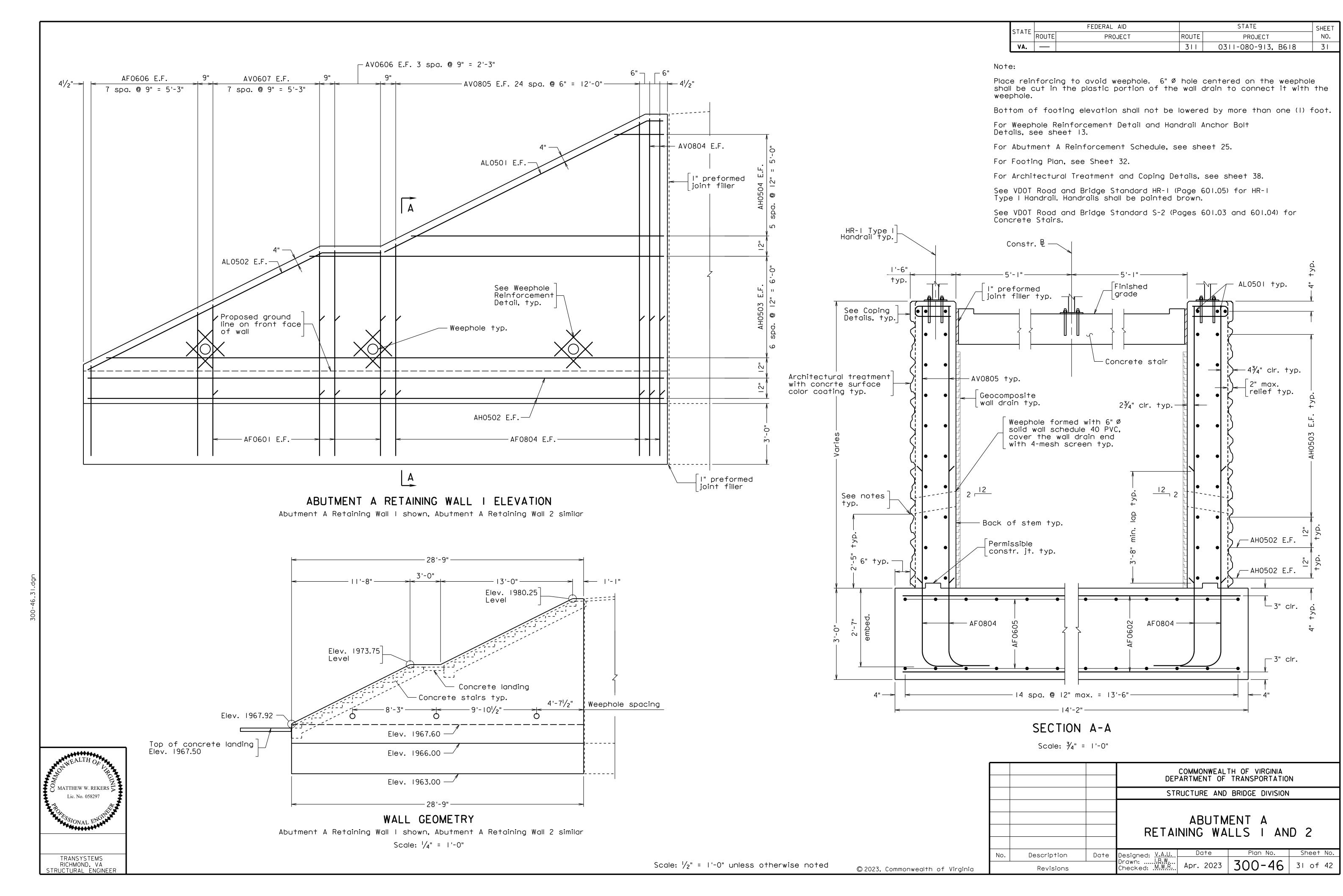
© 2023, Commonwealth of Virginia

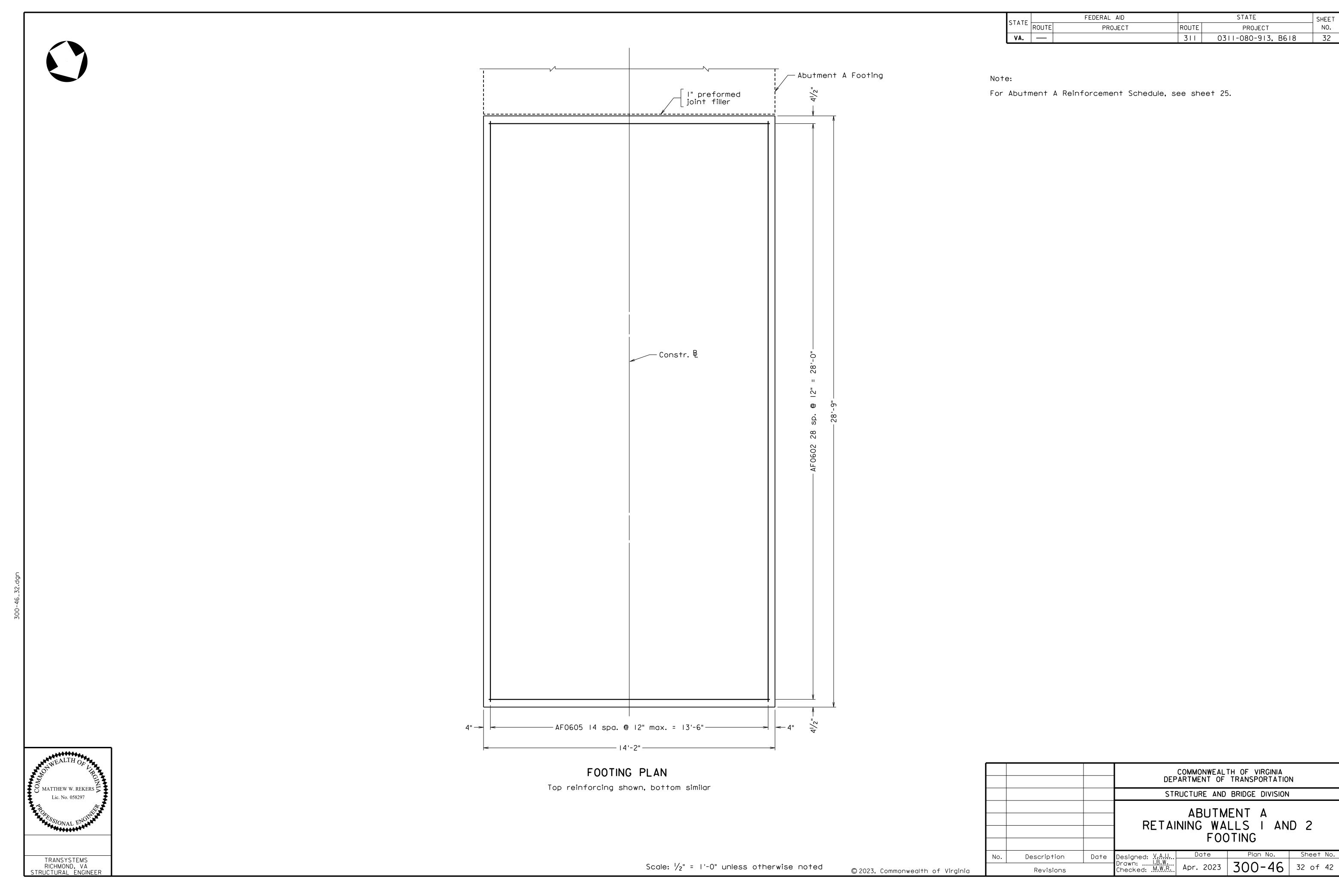
UPC# 111066

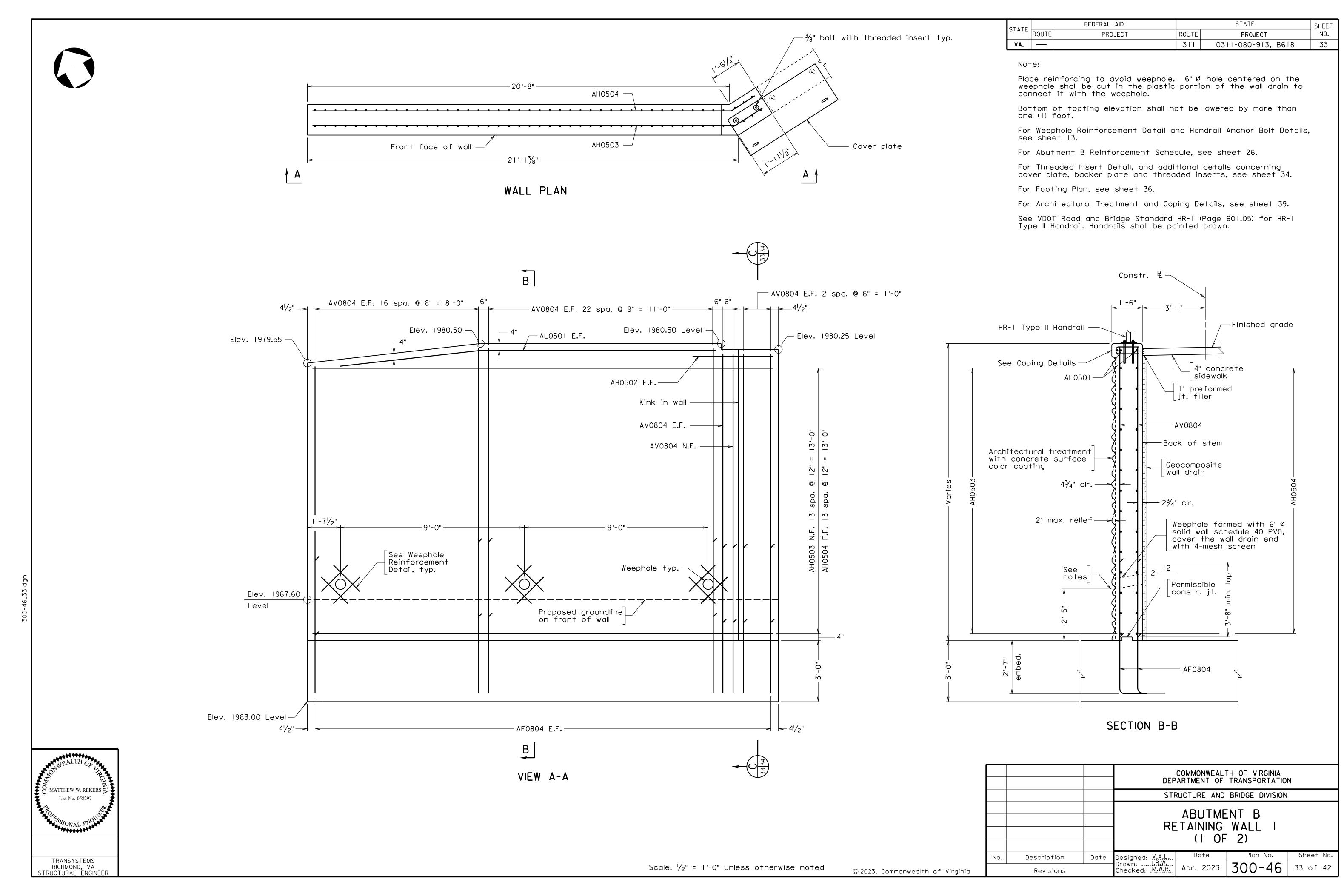


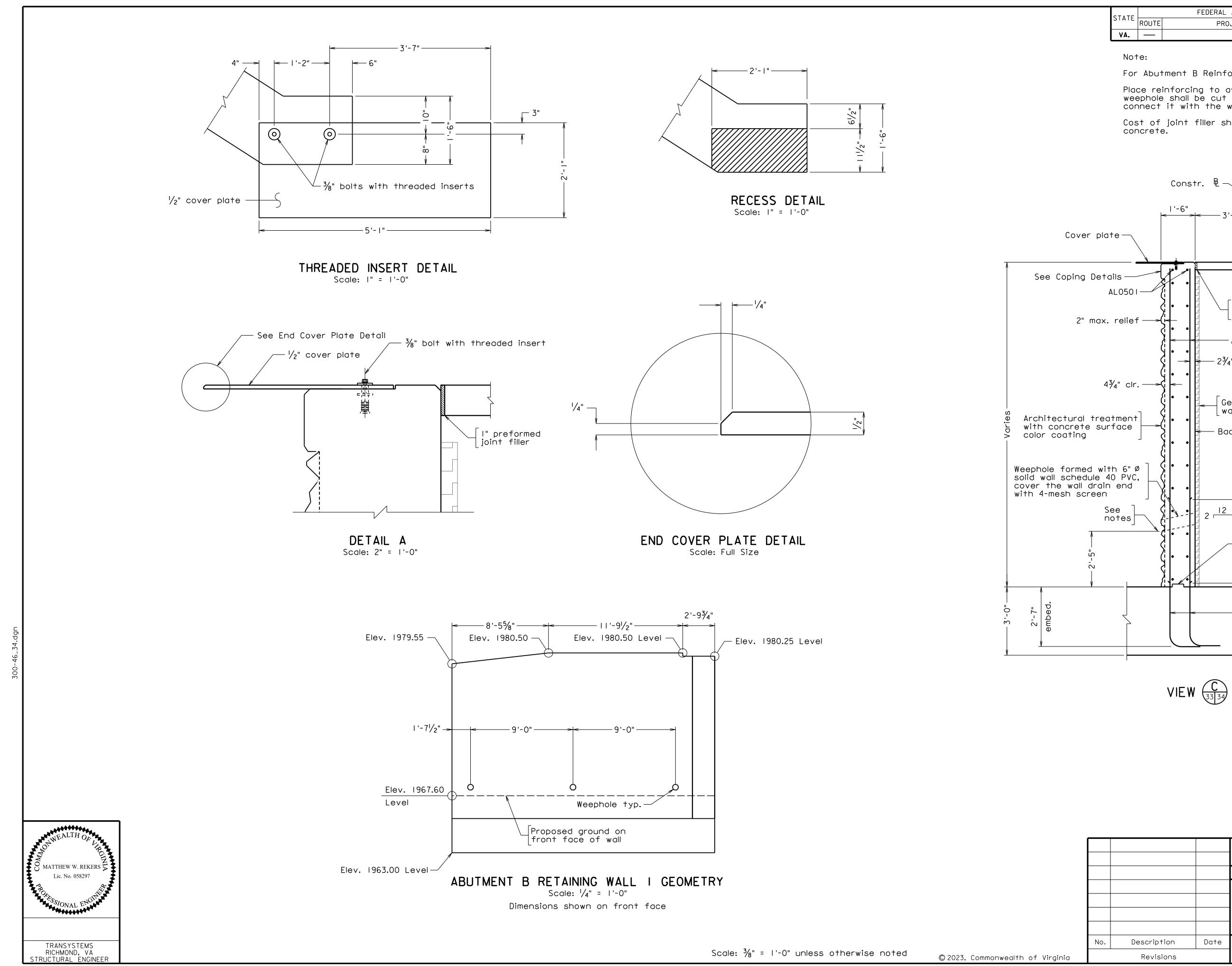
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Revisions







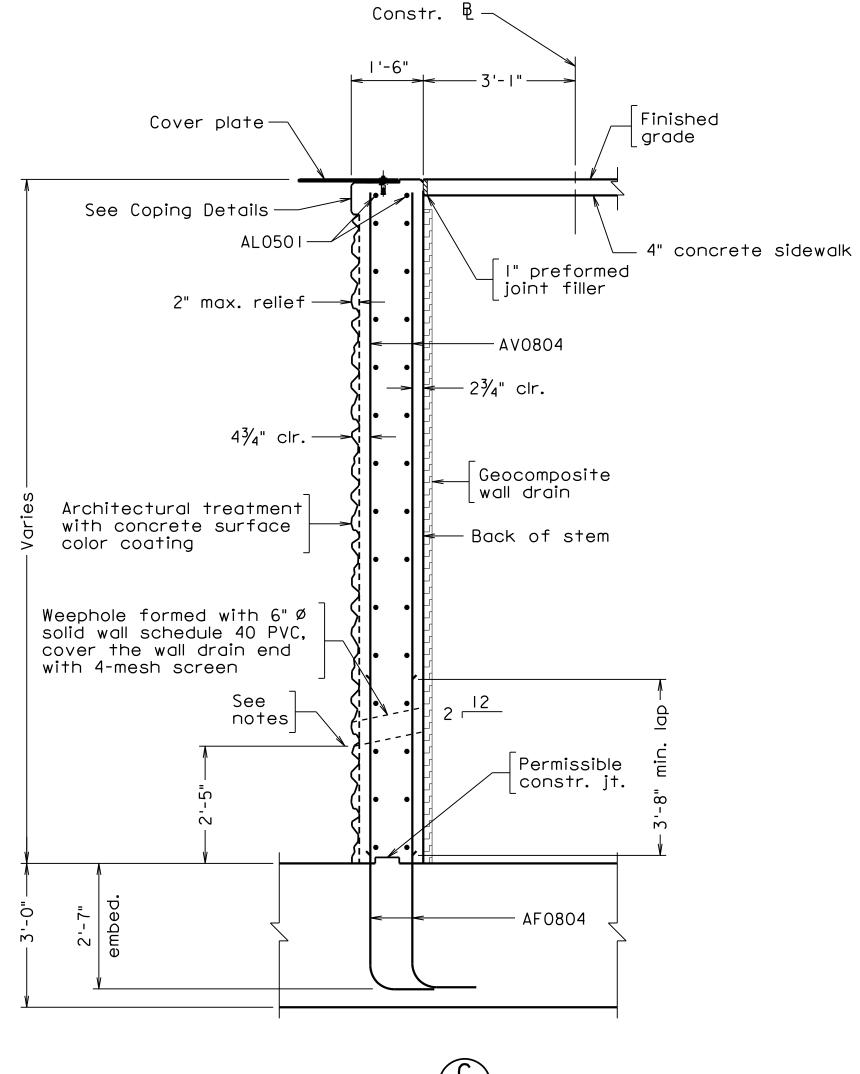


FEDERAL AID STATE SHEET PROJECT ROUTE NO. PROJECT 311 0311-080-913, B618 34

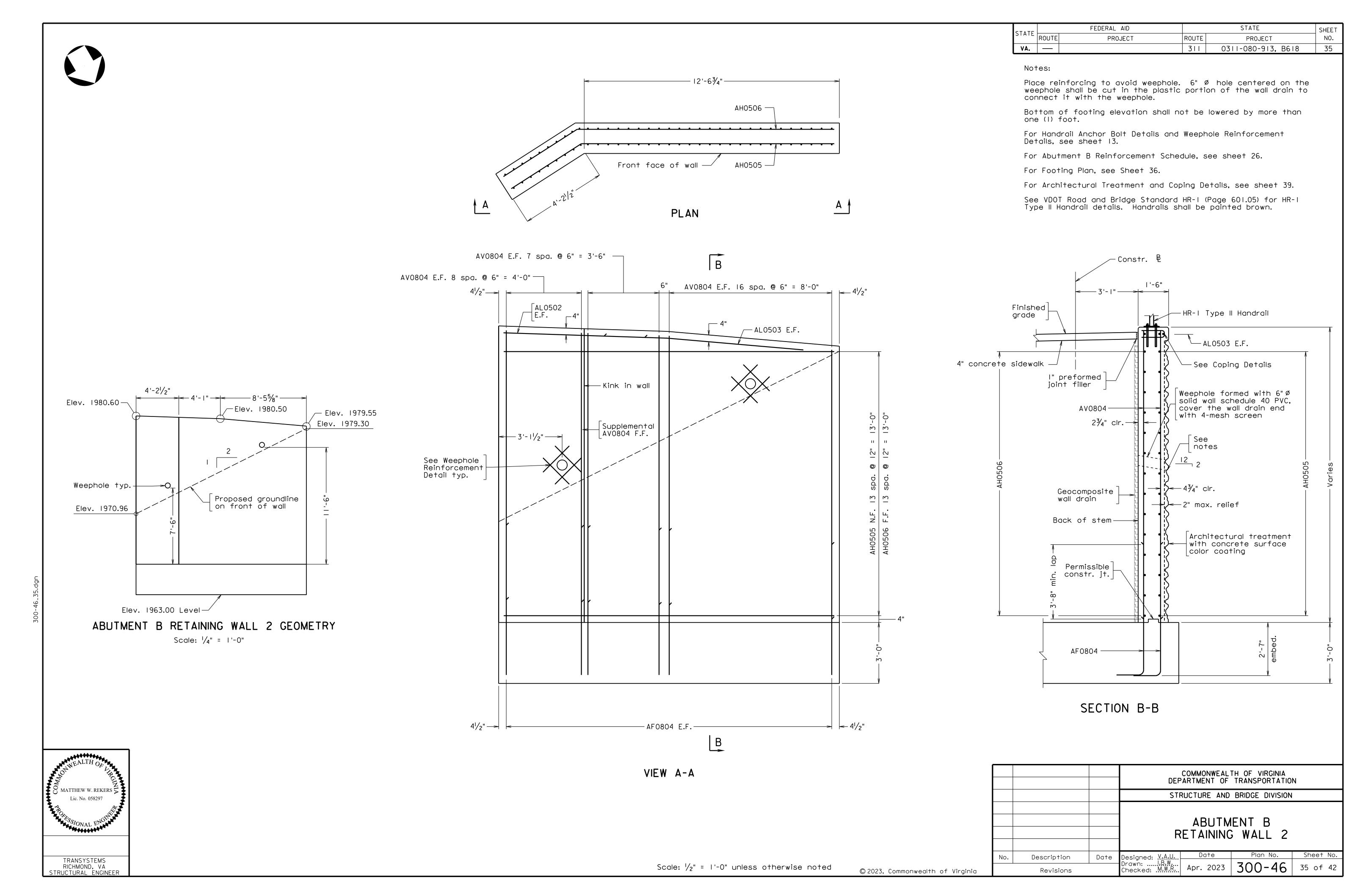
For Abutment B Reinforcement Schedule, see sheet 26.

Place reinforcing to avoid weephole. 6" Ø hole centered on the weephole shall be cut in the plastic portion of the wall drain to connect it with the weephole.

Cost of joint filler shall be included in the price for substructure



					TH OF VIRGINIA TRANSPORTATIO	N						
			STE	RUCTURE AND	BRIDGE DIVISION							
			ABUTMENT B RETAINING WALL I (2 OF 2)									
No.	Description	Date	Designed: V.A.U Date Plan No. Sheet No.									
	Revisions	<u> </u>	Designed: <u>V.A.U</u> Drawn:!.B.W Checked: .M.W.R	Apr. 2023	300-46	34 of 42						



STATE ROUTE ROUTE PROJECT PROJECT 311 0311-080-913, B618 36 VA. — Notes: For metal stair concrete pilaster details and metal stair concrete footing details, see sheet 41. _____ £ metal stair concrete footing - AF0621 typ. ___|| I" preformed joint filler — AF0607 — AF0620 typ. — Constr. 凡 - 10'-10¹/₈" -Sta. 21+42.85 -AF0610 AF0609 AF0616 AF0615 —/ AF0614 —/ 12" - 4" AF0617 — FOOTING PLAN Top reinforcing shown, bottom similar COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION MATTHEW W. REKERS X Lic. No. 058297 STRUCTURE AND BRIDGE DIVISION Lic. No. 058297 ABUTMENT B
RETAINING WALLS I AND 2
FOOTING Date Designed: V.A.U.. Date Plan No. Sheet No. Drawn: I.B.W.. Checked: M.W.R. Apr. 2023 300-46 36 of 42 Description TRANSYSTEMS RICHMOND, VA STRUCTURAL ENGINEER

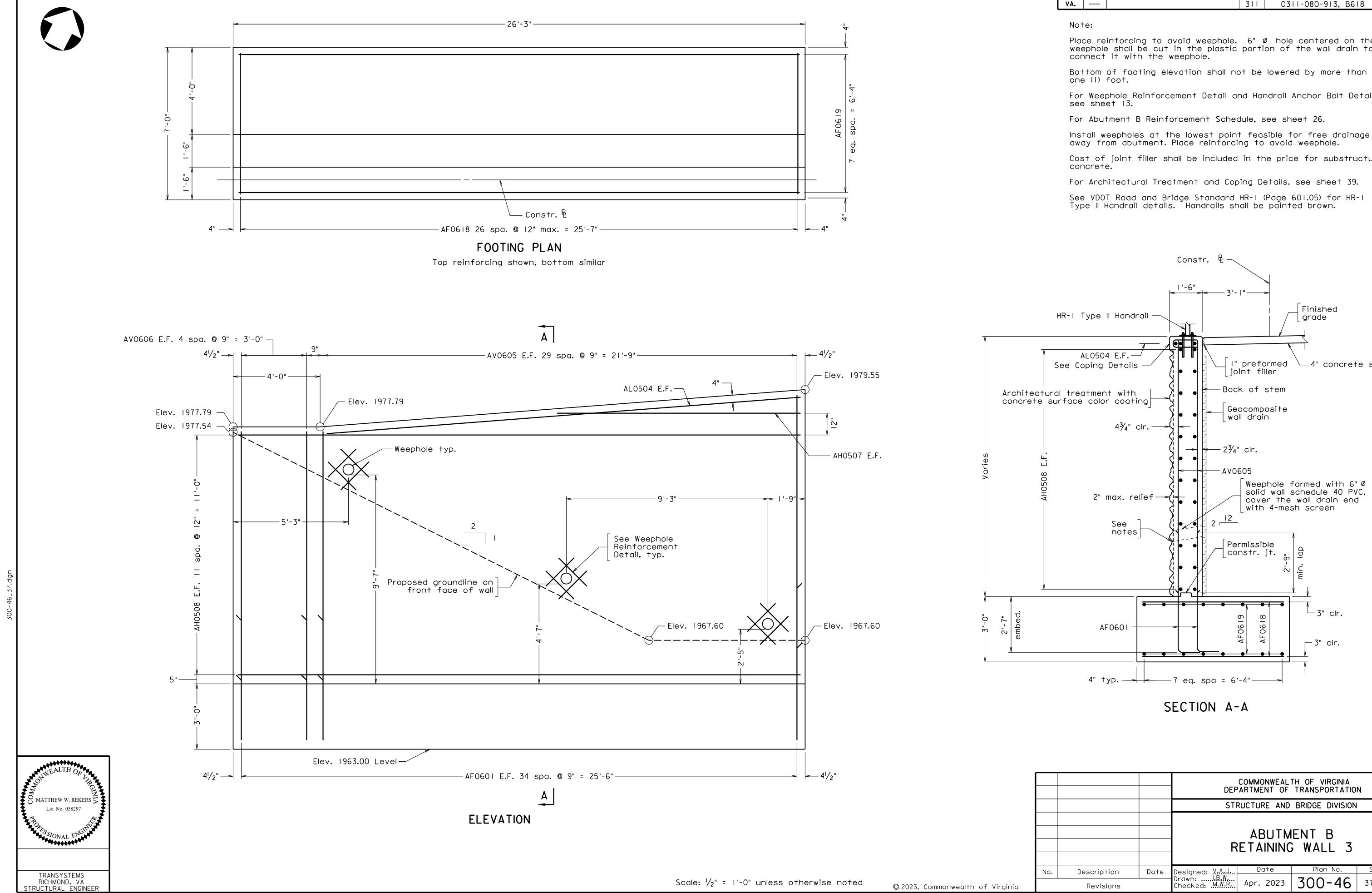
Scale: $\frac{1}{2}$ " = 1'-0" unless otherwise noted

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Revisions

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FEDERAL AID STATE STATE ROUTE PROJECT ROUTE PROJECT 311 0311-080-913, B618 VA. | ---37

Place reinforcing to avoid weephole. 6" Ø hole centered on the weephole shall be cut in the plastic portion of the wall drain to

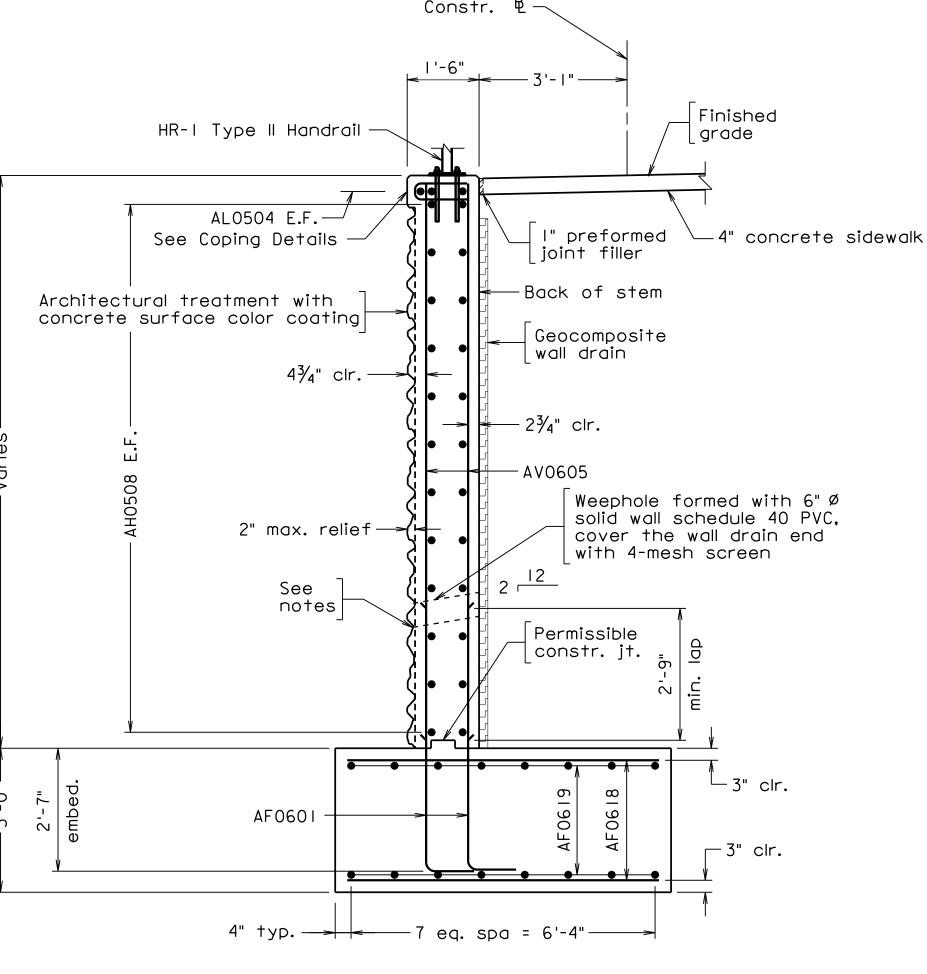
For Weephole Reinforcement Detail and Handrail Anchor Bolt Details,

For Abutment B Reinforcement Schedule, see sheet 26.

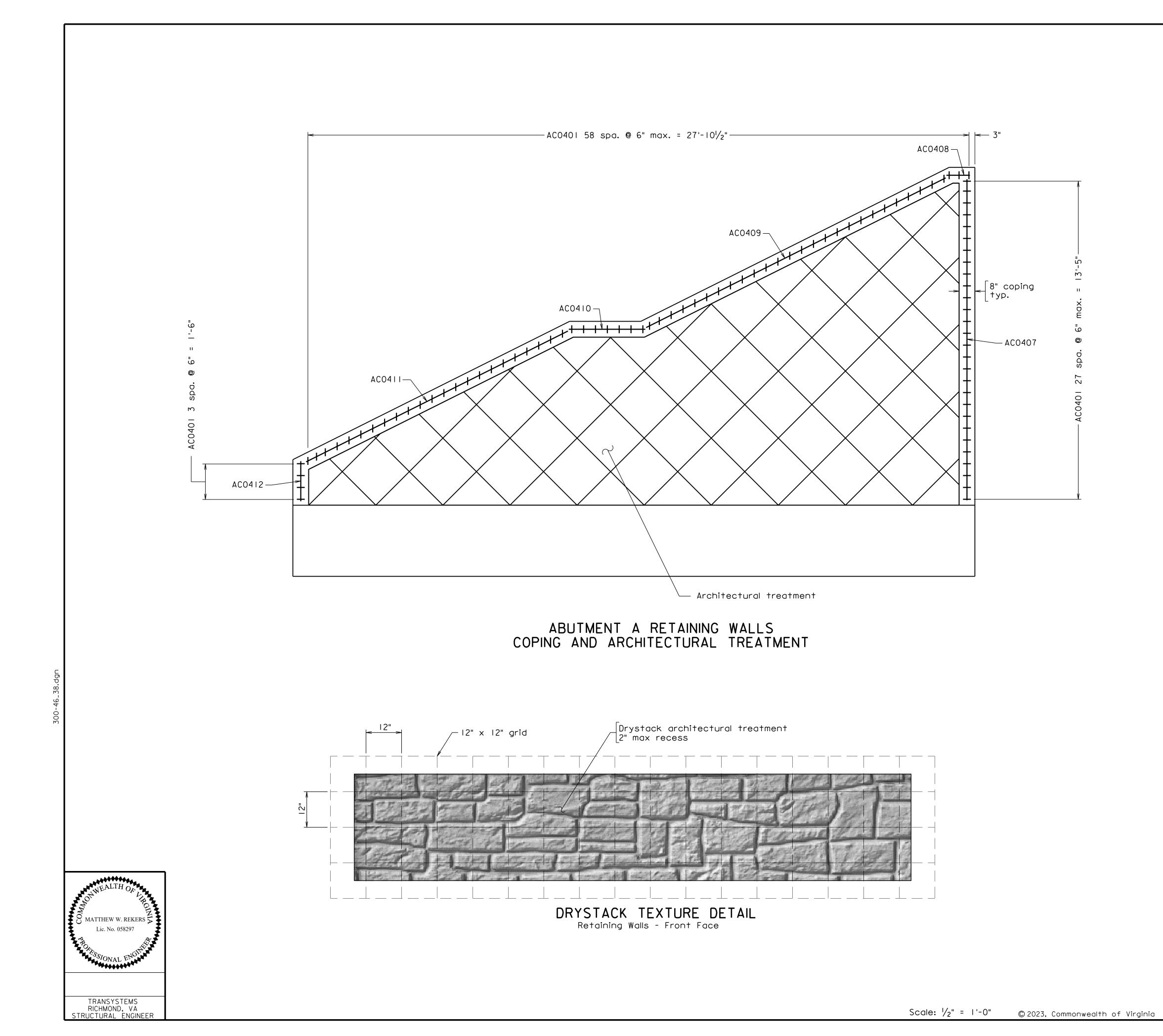
Install weepholes at the lowest point feasible for free drainage away from abutment. Place reinforcing to avoid weephole.

Cost of joint filler shall be included in the price for substructure

For Architectural Treatment and Coping Details, see sheet 39.



COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION STRUCTURE AND BRIDGE DIVISION ABUTMENT B RETAINING WALL 3 Date Designed: V.A.U. Date Plan No. Sheet No. Drawn: I.B.W. Checked: M.W.R. Apr. 2023 300-46 37 of 42



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 0311-080-913, B618
 38

Notes:

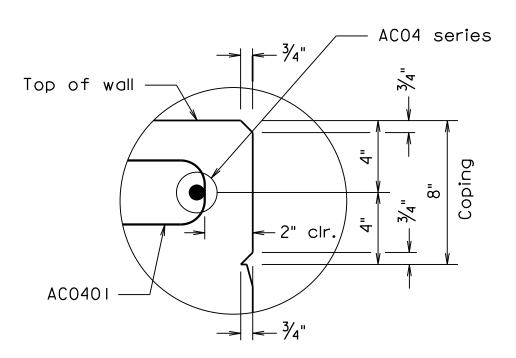
Form liner shall be arranged to produce a continuous drystack pattern without obvious repetition of the pattern.

Form liner pattern shall be inspected and approved by the Department.

Contractor shall submit shop drawings with pattern layout for approval by the Department.

A color coating of Dark Gray No. 595-36492 shall be applied to the full length of front face and top side of retaining walls.

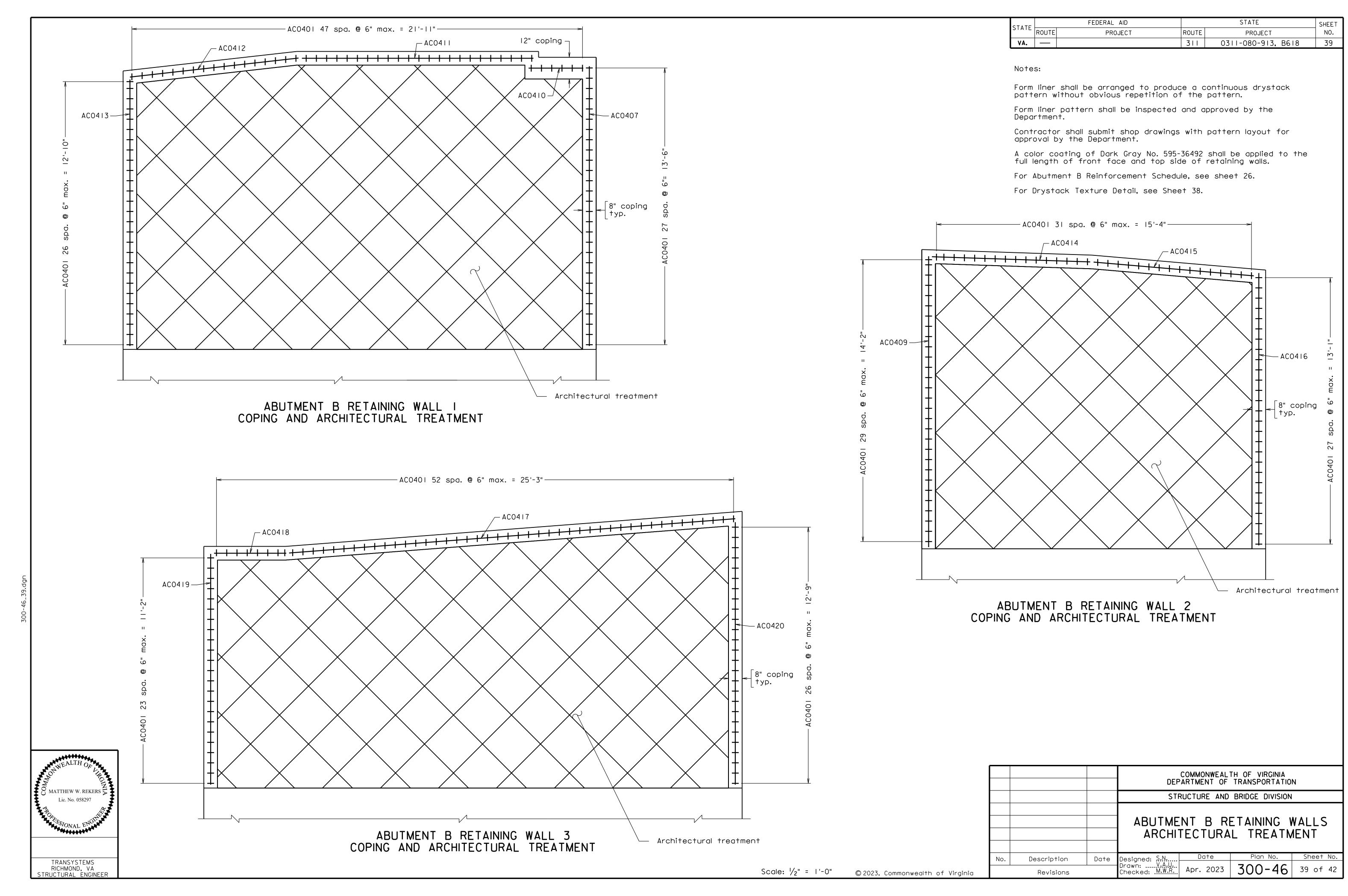
For Abutment A Reinforcement Schedule, see sheet 25.



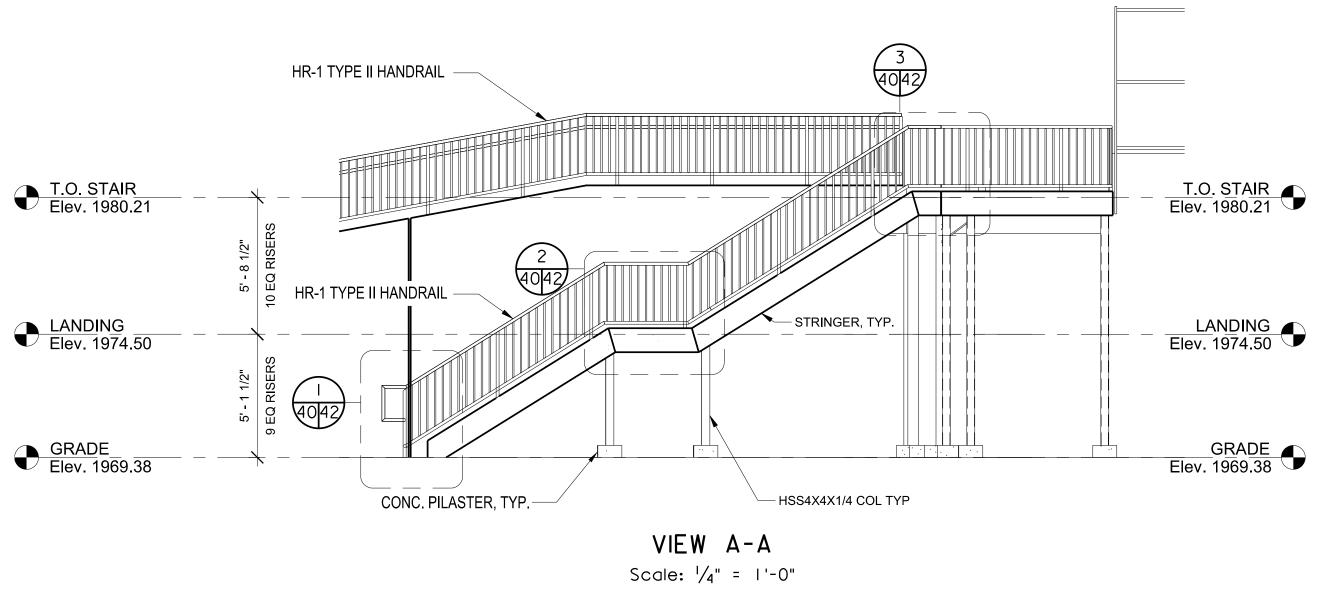
8" COPING DETAIL

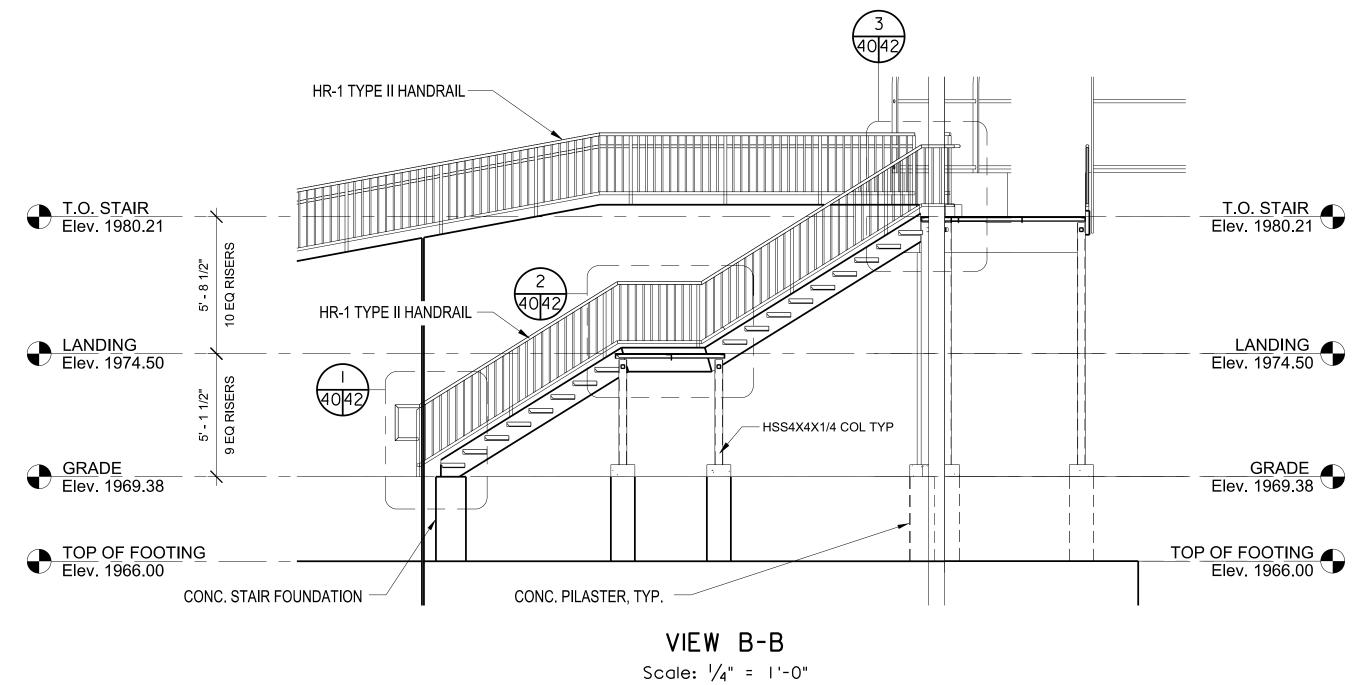
Not to scale

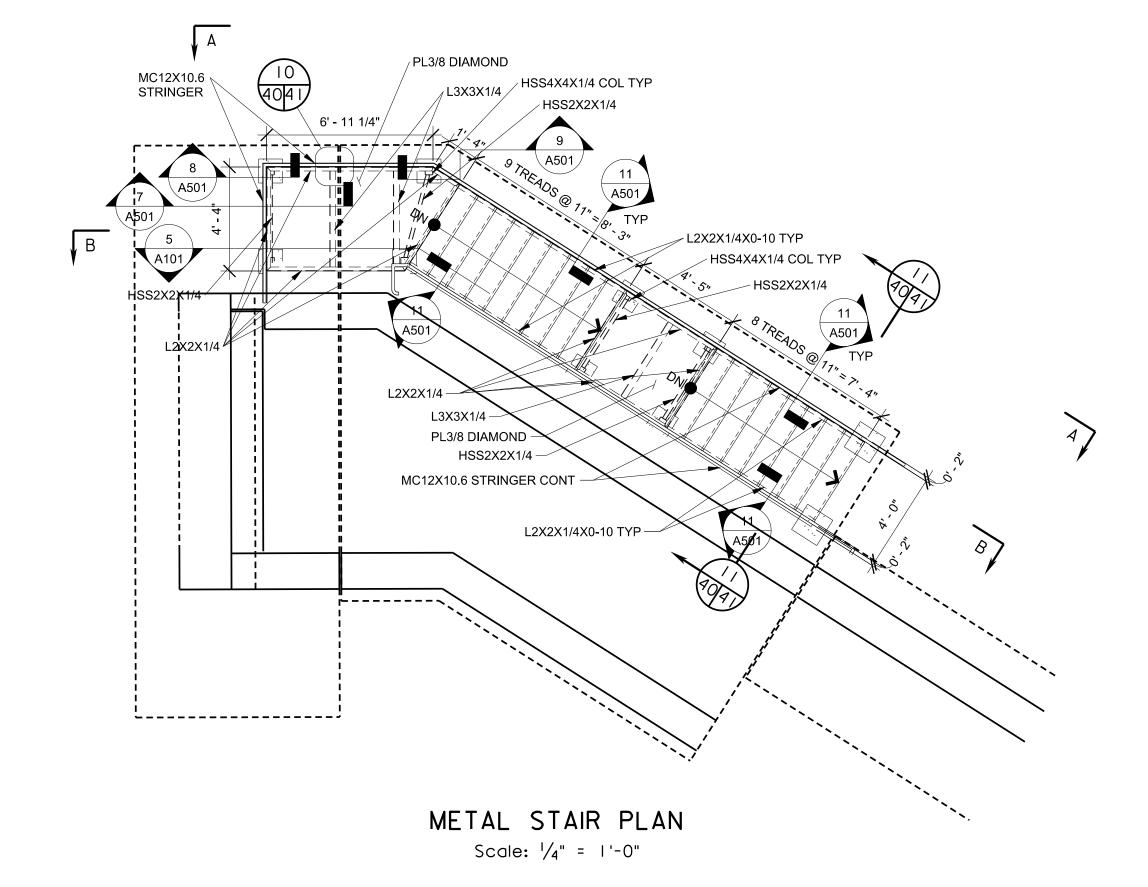
			COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION
			STRUCTURE AND BRIDGE DIVISION
			ABUTMENT A RETAINING WALLS ARCHITECTURAL TREATMENT
No.	Description	Date	Designed: S.N. Date Plan No. Sheet No. Drawn:V.A.U Apr. 2023 300-16 38 of 42
	Revisions		Drawn:V.A.U Checked: .M.W.R Apr. 2023 300-46 38 of 42



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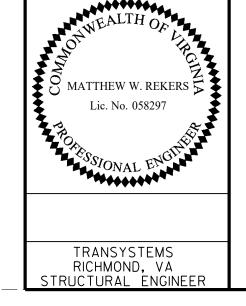
All handrails and fencing to be grounded in accordance with VDOT Road and Bridge Standards FE-6 (Page 503.07).

See VDOT Road and Bridge Standard HR-I (Page 601.05) for HR-I Type I and Type II Handrail details. Handrails shall be painted brown.

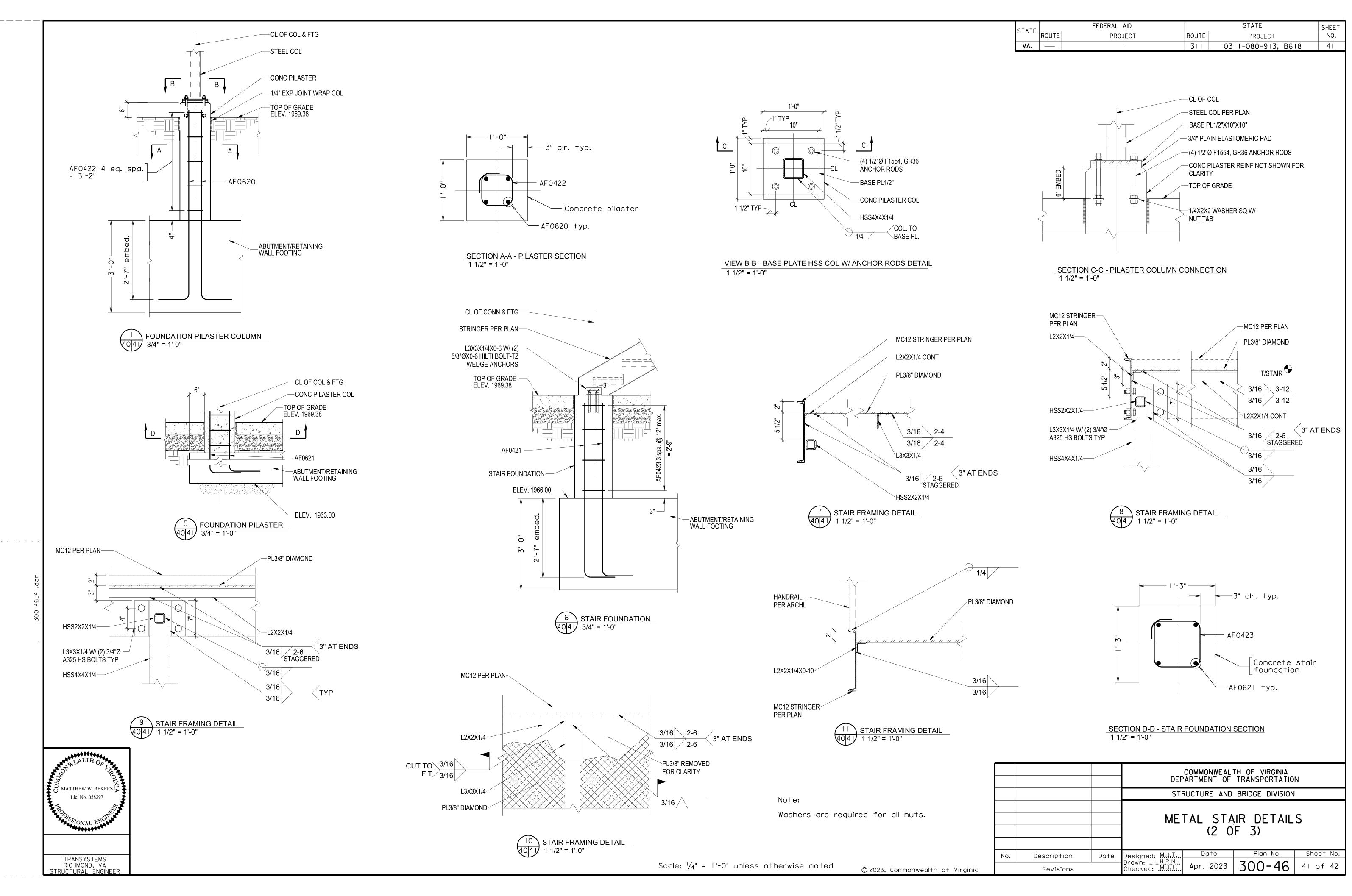
			COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION			
			STRUCTURE AND BRIDGE DIVISION			
			METAL STAIR DETAILS (I OF 3)			
No.	Description	Date	Designed: N.M.A	Date	Plan No.	Sheet No.
	Revisions		Designed	Apr. 2023	300-46	40 of 42

Scale: $\frac{1}{4}$ " = 1'-0" unless otherwise noted

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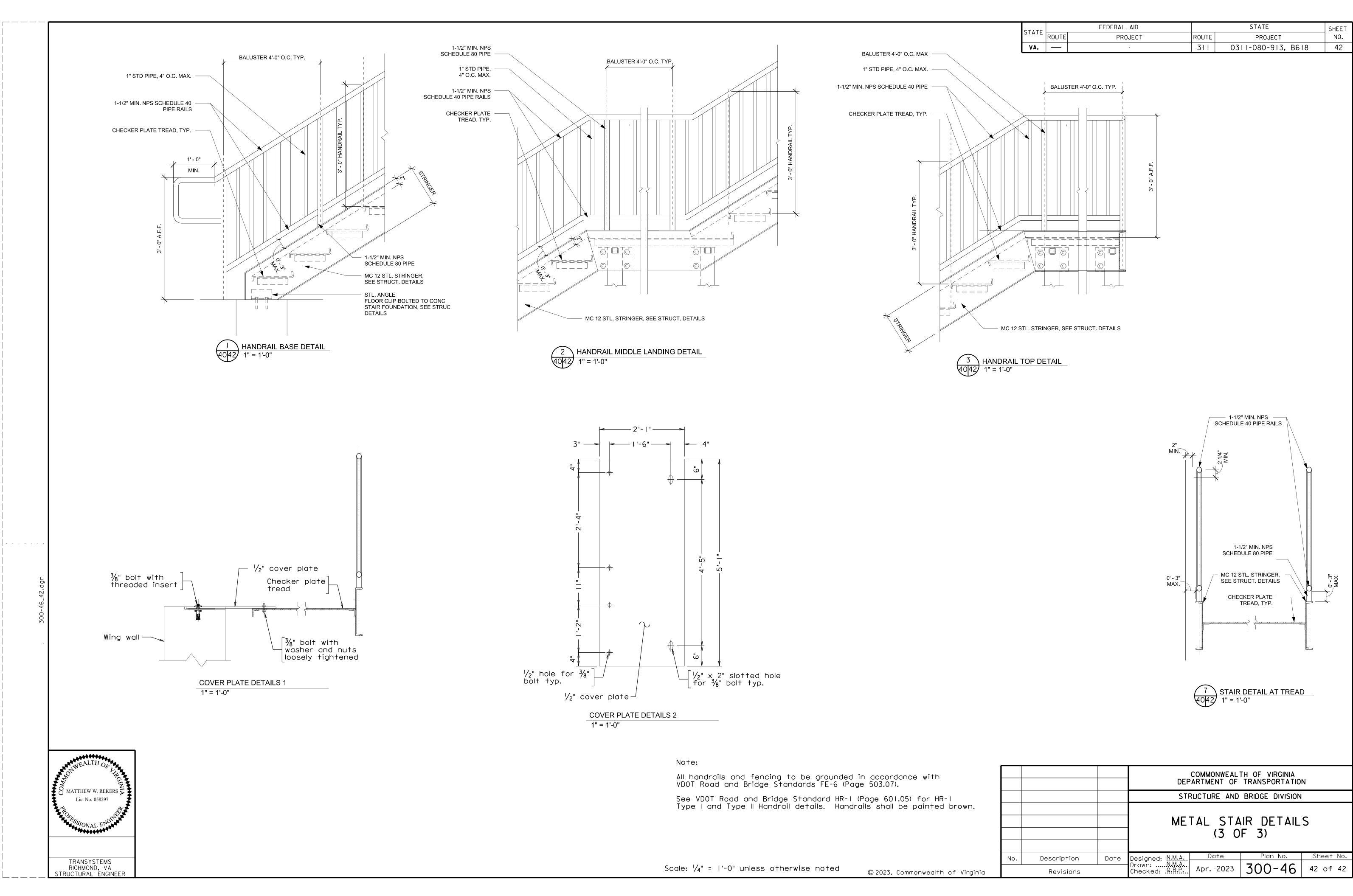
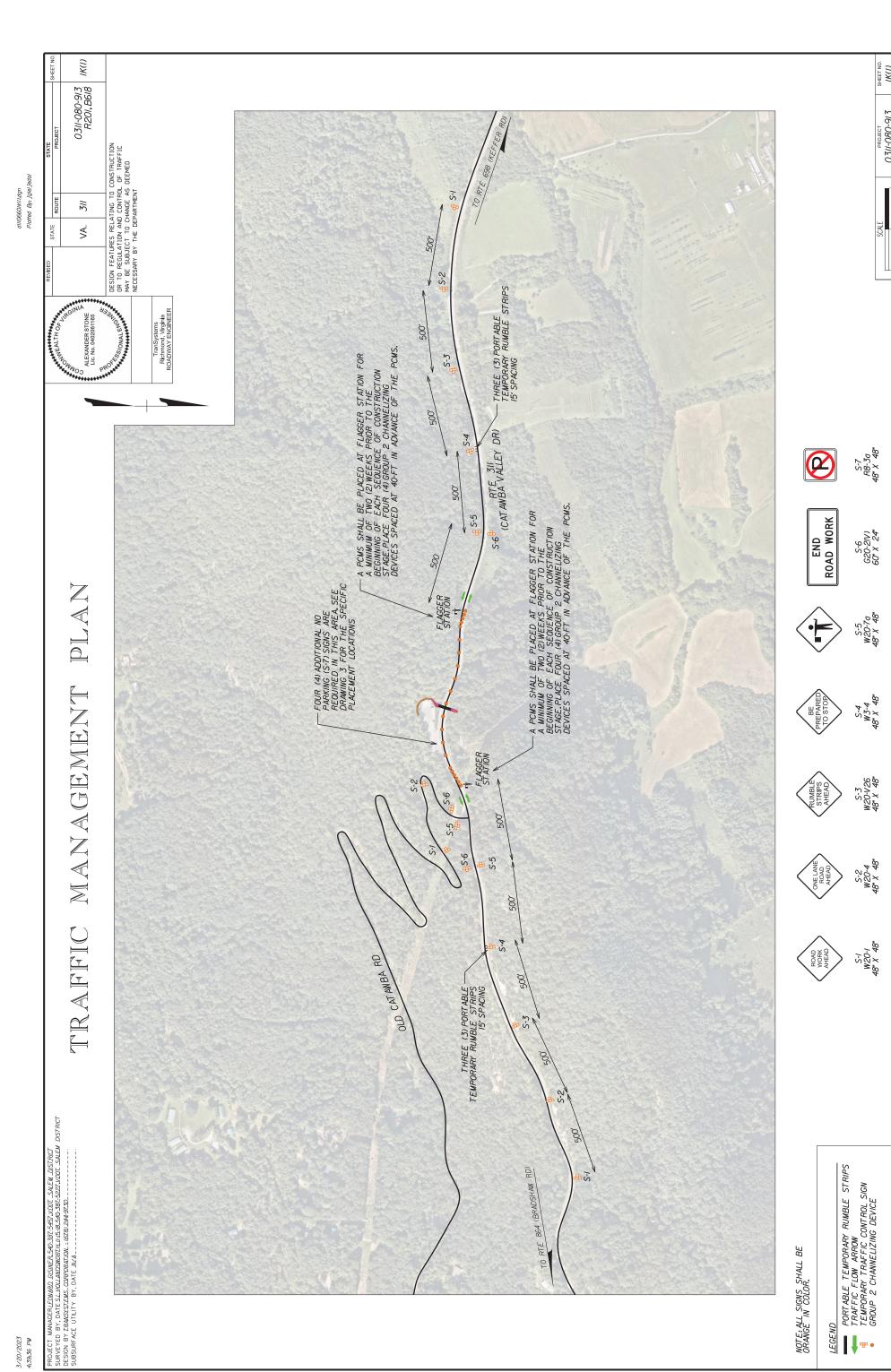


Exhibit B

Construction Plans



52

SHEET NO.

03//-080-9/3

ROJECT MANAGER*LEONARD GISINER*,540-387-5457,VDOT_SALEM_DIST.RICI SURVEYED BY, DATE S.L.HOLLANDSWOBTH,II-15-18,540-387-5227,VDOT. SALEM DISTRICT DESIGN BY *TRANSYSTEMS_CORPORATION. - (678) 244-9730* SUBSURFACE UTILITY BY, DATE *NZA*______

TRANSPORTATION MANAGEMENT PLAN

ALEXANDER STONE Lic. No. 0402061165

Richmond, Virginia ROADWAY ENGINEER STATE 0311-080-913 .3// V/A R201, B618

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

INTRODUCTION

PROJECT: PEDESTRIAN BRIDGE OVER ROUTE 311.TYPE B (CATEGORY III) EXISTING CORRIDOR SPEED LIMIT IS 55 MPH.WINDING ROAD SIGNS AT PROJECT LOCATION HAVE A 35 MPH POSTED WORK ZONE(S) LENGTH: WORK ZONE LENGTH IS VARIABLE AS REFLECTED BELOW.

WORK ZONE(S) WIDTH: VARIABLE WIDTH (DUE TO EXISTING ROADWAY)

- ROUTE 311: STATION 43:40JO TO STATION 44:67.05 (0.024 MILES/127 FEET)

IMPACT ON TRAFFIC: ROUTE 311 ONE TRAVEL LANE SHALL REMAIN OPEN EXCEPT DURING THE INSTALLATION

MATERIAL AND EQUIPMENT STORAGE:THE CONTRACTOR SHALL STORE ALL CONSTRUCTION EQUIPMENT AND MATERIALS IN THE DESIGNATED AREA OF THE PARKING LOT REFLECTED IN THE PLANS BEYOND THE CLEAR ZONE AND/OR DYNAMIC DEFLECTION AREA OF PHYSICAL BARRIERS AT ALL LOCATIONS.

ALLOWABLE WORK HOURS: 7AM-6PM MONDAY-FRIDAY UNLESS OTHERWISE APPROVED BY THE ENGINEER

TEMPORARY TRAFFIC CONTROL (TTC) PLAN

TEMPORARY TRAFFIC CONTROL REFERENCE;THE WORK ZONE SHALL BE MAINTAINED IN ACCORDANCE WITH AN APPROVED MAINTENANCE OF TRAFFIC (MOT)/TEMPORARY TRAFFIC CONTROL (TTC) PLAN, 2011 VIRGINIA WORK AREA PROTECTION MANUAL (WWAPM) REVISION 2.1-NOVEMBER, 2020, 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), INCLUDING ALL CURRENT REVISIONS OF THE MUTCD, VDOT 2020 ROAD AND BRIDGE SPECIFICATIONS, AND VDOT 2016 ROAD AND BRIDGE STANDARDS.

SPECIFIC APPLICABLE TYPICAL TEMPORARY TRAFFIC CONTROL FIGURES AND NOTES FROM CHAPTER 6H. TYPICAL APPLICATIONS, OF THE 2011 VWAPM INCLUDE:

FIG.TTC-23.2,LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS FIG.TTC-53.0,SIGNING FOR PROJECT LIMITS

THE CONTRACTOR MAY USE OTHER TYPICAL APPLICATIONS OR COMBINATIONS THEREOF AS DEEMED NECESSARY AND/OR APPROVED BY THE ENGINEER.

ENTRANCES AND INTERSECTIONS AFFECTED: ENTRANCES (MCAFEE KNOB'S TRAIL), APPALACHIAN TRAIL, AND AEP

THE CONTRACTOR IS TO ENSURE ALL PRIVATE ENTRANCES SHALL REMAIN ACCESSIBLE DURING CONSTRUCTION.

TYPICAL SECTIONS: REFER TO THIS SHEET

GENERAL NOTES

I. UNLESS OTHERWISE APPROVED OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL PLAN AND PROSECUTE SEQUENCE OF CONSTRUCTION WORK ACTIVITIES IN ACCORDANCE WITH THE APPROVED TRANSPORTATION MANAGEMENT PLAN (TMP).

2.IT IS NOT THE INTENT OF THE TRANSPORTATION MANAGEMENT PLAN TO ENUMERATE EVERY DETAIL WHICH MUST BE CONSIDERED IN THE CONSTRUCTION OF EACH SEQUENCE OF CONSTRUCTION STAGE BUT ONLY TO SHOW THE GENERAL FEATURES NECESSARY IN PROVIDING FOR THE PROPER AND SAFE HANDLING OF TRAFFIC THROUGH THE WORK ZONE(S). CONSTRUCTION METHODS USED BY THE CONTRACTOR SHALL BE REVIEWED AND APPROVED BY THE ENGINEER.

3.THE CONTRACTOR MAY SUBMIT AN ALTERNATE TEMPORARY TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL AT LEAST THIRTY (30) DAYS PRIOR TO PERFORMING THE WORK, AS NO DEVIATIONS FROM THE APPROVED PLAN WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL ALLOW THE ENGINEER A MINIMUM OF TWO (2) WEEKS FOR REVIEW AND APPROVAL.

4.THE CONTRACTOR SHALL DESIGNATE A WORK SITE TRAFFIC CONTROL SUPERVISOR (WTCS) WHO SHALL BE 4.1 HE CONTRACTOR SHALL DESIGNATE A WORK SITE TRAFFIC CONTROL SUPERVISOR (WICS) WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF TEMPORARY TRAFFIC CONTROL DEVICES AND BE AVAILABLE TWENTY-FOUR (24) HOURS-PER-DAY, SEVEN (7) DAYS A WEEK IN THE EVENT OF AN EMERGENCY, FURTHERMORE, THE CONTRACTOR SHALL HAVE AT LEAST ONE PERSON CERTIFIED IN INTERMEDIATE WORK ZONE TRAFFIC CONTROL TO SUPERVISE, INSTALL REMOVE AND/OR MAINTAIN TEMPORARY TRAFFIC CONTROL, AND ONE PERSON CERTIFIED IN BASIC WORK ZONE TRAFFIC CONTROL TO ADEQUATELY MAINTAIN THE WORK ZONE(S).

5. MEASURES SHALL BE TAKEN TO ENSURE THAT ADEQUATE SIGHT DISTANCE DURING CONSTRUCTION 5. MEASURES SHALL BE TAKEN TO ENSURE ITHAI AUGUSTE SIGHT DISTANCE DURING CONSTRUCTION OPERATIONS IS MAINTAINED, TRAFFIC CONTROL DEVICES, CONSTRUCTION EQUIPMENT, STORED MATERIALS AND SUPPLIES OR ANY OTHER OBSTACLE SHALL NOT INTERFERE WITH SIGHT DISTANCES IN PROXIMITY OF INTERSECTIONS, INTERSECTING OR CROSSING ROUTES, AND ENTRANCES, EQUIPMENT AND / OR MATERIALS SHALL NOT BE STORED WITHIN THE ESTABLISHED CLEAR ZONE OF THE ROADWAYS LANES AND/OR DYNAMIC DEFLECTION AREA OF PHYSICAL BARRIERS.

6. SIGNS NO LONGER APPLICABLE AND/OR IN CONFLICT WITH OTHER TRAFFIC CONTROL DEVICES SHALL BE REMOVED AND/OR COVERED WHEN NO LONGER NECESSARY. ALL OTHER SIGNS SHALL BE PROPERLY ALIGNED/ORIENTED AND MAINTAINED.

7. PROPOSED TEMPORARY TRAFFIC CONTROL PLANS DEPICT TEMPORARY TRAFFIC CONTROL THE DAILY TOTAL THE DUTTER OF THE TEMPORARY TRAINING WHITE THE TEMPORARY TRAINING WHITE CONTROL OF TRAINING WAS THE PLACEMENT, INSTALLATION, MAINTENANCE AND REMOVAL OF TEMPORARY TRAFFIC CONTROL DEVICES, SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY, THE DAILY EFFORTS REQUIRED TO MANIPULATE TRAFFIC PATTERNS TO CONNECT NEW TO EXISTING ROADS BY CONSTRUCTING PAVEMENT OVERLAYS ARE THE RESPONSIBILITY OF THE CONTRACTOR THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFE INGRESS / EGRESS FROM CONSTRUCTION ACCESS POINTS.

8. ALL TEMPORARY TRAFFIC CONTROL (SIGNS AND PAVEMENT MARKINGS) SHOWN IN THE PLANS ARE APPROXIMATE, ADJUSTMENTS MAY BE MADE BASED ON FIELD CONDITIONS WITH PRIOR APPROVAL AND/OR DISCRETION OF THE ENGINEER.

9. MINIMUM ALLOWABLE THROUGH LANE WIDTH THAT SHALL BE MAINTAINED IS ELEVEN (II) FEET ON ROUTE 311.

IO. AT THE CONCLUSION OF EACH WORK SHIFT, ALL AREAS WITHIN THE CLEAR ZONE NOT ADEQUATELY PROTECTED SHALL BE BACKFILLED WITH AGGREGATE BASE MATERIAL OR OTHER APPROVED MATERIAL SOURCE TO FORM A 64 DESIRED (44 MINIMUM) SAFETY WEDGE AGAINST THE EXISTING PAVEMENT SURFACE. ALL ASSOCIATED COSTS FOR TRANSPORTING, FURNISHING, PLAICING, MAINTAING AND REMOVING THE SAFETY WEDGE SHALL BE INCLUDED IN COSTS FOR OTHER CONTRACTUAL PAY ITEMS AS NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

II. LANE CLOSURE REQUESTS SHALL BE SUBMITTED TO THE VDOT TRAFFIC OPERATIONS CENTER (TOC) AND VDOT PROJECT MANAGER FOR COORDINATION PURPOSES, AT LEAST SEVEN (7) DAYS IN ADVANCE OF THE PROPOSED LANE CLOSURE AND NO LATER THAN CLOSE OF BUSINESS WEDNESDAY THE WEEK PRIOR TO CLOSURE. THE CONTRACTOR SHALL CONFIRM AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO ANY SCHEDULED LANE CLOSURE IN ORDER FOR THE TOC TO POST LANE CLOSURE INFORMATION ON THE VDOT WEBSITE AND VA 51 SYSTEM.THIS PROJECT CONTAINS WORK WHICH WILL REQUIRE LANE CLOSURES ON THE TITLE CONTRACTOR SHALL COORDINATE ALL LANE CLOSURES IN ACCORDANCE WITH LCAMS SPECIFICATIONS AND SPECIAL PROVISIONS. LANE CLOSURES SHALL OCCUR OUTSIDE OF PEAK COMMUTER TRAVEL HOURS.

12.THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE.TEMPORARY DRAINAGE SHALL BE PROVIDED AS REQUIRED AND/OR AS SHOWN ON THE PLANS TO PREVENT PONDING OF WATER ON THE ROADWAY AND RUNOFF OF WATER OFF SITE AND ONTO ADJACENT PROPERTIES.

I3. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE INSTALLED A MINIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING OF EACH SEQUENCE OF CONSTRUCTION STAGE TO ALERT MOTORISTS OF AN UPCOMING WORK ZONE, A NEW CONSTRUCTION STAGE OR TRAFFIC PATTERN, AND/OR ROAD CLOSURE.

I4.THE CONTRACTOR SHALL PERFORM TEST PIT EXCAVATIONS IN ADVANCE TO VERIFY THE EXAC. LOCATIONS AND ELEVATIONS OF THE EXISTING UTILITIES IN ORDER TO DETERMINE IF ANY OF THESE UTILITIES WILL BE IN CONFLICT WITH THE PROPOSED WORK, ALL TEST PIT EXCAVATIONS SHALL BE IN ACCORDANCE WITH THE APPLICABLE MISS UTILITY LAW OR AS DIRECTED BY THE ENGINEER.

15. NATIONAL PARK SERVICE IS TO BE NOTIFIED 30 DAYS BEFORE THE PARKING LOT IS CLOSED TO THE PUBLIC:

CONTACT: KEITH STEGALL
CHIEF OF FACILITIES MAINTENANCE
APPALACHIAN NATIONAL SCENIC TRAIL CELL: 301-712-6729 EMAIL: Keith.stegall@nps.gov

IG. ROANOKE COUNTY IS TO BE NOTIFIED WHEN AND BEFORE PARKING LOT IS TO BE CLOSED TO THE PUBLIC. ALSO WHEN NIGHT WORK IS TO BE DONE. CONTACT: AMY T. WHITTAKER PUBLIC INFORMATION OFFICER

OFFICE: 540-772-2010 CELL: 540-589-3089

IT. THE CONTRACTOR SHALL INSTALL HIGH VISIBILITY TEMPORARY CONSTRUCTION FENCING AND ADDITIONAL "NO PARKING" SIGNS IN THE LOCATION SHOWN ON SHEET NO.3 IN THE PLANS.

IB. PRIOR TO COMMENCING WORK,THE CONTRACTOR SHALL CONTACT ROANOKE COUNTY EMS,ROANOKE COUNTY POLICE, AND CATAWBA FIRE DEPARTMENT TO PROVIDE ACCESS TO THE LOCKED GATED AREA FOR EMERGENCY ACCESS.

19. ALL TRAIL ENTRANCES AND PRIVATE ENTRANCES SHALL REMAIN ACCESSIBLE DURING CONSTRUCTION.

PUBLIC COMMUNICATION STRATEGIES

PROJECT DESCRIPTION:

• THE PROJECT WILL INCLUDE THE CONSTRUCTION OF A PEDESTRIAN BRIDGE OVER ROUTE 311 AND A RAMP AND STAIRWAY FROM THE PARKING LOT TO THE BRIDGE.

TRAFFIC IMPACTS

- THERE WILL BE ONE SHORT CLOSURE OF ROUTE 311 IN ORDER TO INSTALL THE STEEL BEAMS ACROSS THE ROAD.
- THERE WILL BE LANE SHIFTS, BUT ONE LANE IN EACH DIRECTION WILL BE MAINTAINED.

- TO INFORM THE PUBLIC ABOUT THE PROJECT
 TO MINIMIZE DISRUPTION THROUGH PROACTIVE INFORMATION DISSEMINATION EFFORTS
 TO GATHER PUBLIC SUPPORT FOR THE PROJECT
- TO ESTABLISH A CRISIS COMMUNICATION PLAN

- BENEFITS AND PURPOSE OF THE PROJECT
 TRAFFIC IMPACTS AND INFORMATION ON ALTERNATE ROUTES
 CONTACTS FOR MORE INFORMATION

CRISIS COMMINICATIONS PLAN-

- ISIS CUMMUNICATIONS FLAM:
 AS WITH AMY CRISIS,EMERGENCY RESPONDERS (9II) SHOULD BE NOTIFIED IMMEDIATELY IF NECESSARY.
 THE AREA CONSTRUCTION ENGINEER (ACE) OR HIS DESIGNEE SHOULD BE NOTIFIED IMMEDIATELY.
 IF THE EMERGENCY IS TRAFFIC RELATED.THE ACE OR HIS DESIGNEE SHOULD IMMEDIATELY NOTIFY
 THE TRAFFIC OPERATIONS CENTER AT 540-375-0770.
 THE TRAFFIC OPERATIONS CENTER SHOULD IMMEDIATELY NOTIFY THE DISTRICT COMMUNICATIONS
- THE TRAFT TO FERMINIS CENTER SHOULD IMMEDIALED NOTITY THE DISTRICT COMMONICATIONS OFFICE: 540-387-5493.

 THE ACE, DISTRICT COMMUNICATION, AND TRAFFIC OPERATIONS CENTER (TOC) WILL WORK TOGETHER TO INFORM THE TRAVELING PUBLIC, EMERGENCY RESPONDERS, AND THE MEDIA ABOUT DELAYS AND UNEXPECTED CHANGES IN TRAFFIC PATTERNS USING THE CONTACT LIST AND OTHER RESOURCES IF

SEQUENCE OF CONSTRUCTION

PHASE 0

SETUP LAYDOWN AREA IN PARKING LOT.

- CLEAR AND GRUB AREAS NECESSARY TO INSTALL PERIMETER CONTROLS AND CONSTRUCTION ENTRANCES.

 3. INSTALL PERIMETER SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCES.

CONSTRUCT THE BRIDGE ABUTMENTS ONE SIDE AT A TIME.UTILIZE TTC-23.2 (LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS) FOR ANY WORK THAT MAY IMPEDE TRAFFIC FLOW OR ROUTE 311.

CONSTRUCT THE BRIDGE ACROSS ROUTE 311.UTILIZE TTC-23.2 (LANE CLOSURE ON A TWO-LANE ROADWAY USING FLAGGERS) TO CLOSE THE ROAD FOR A SHORT DURATION TO INSTALL STEEL BEAMS ACROSS ROUTE 311.

I. CONSTRUCT THE TRAIL FROM THE PARKING LOT TO THE BRIDGE.

EMERGENCY RESPONSE CONTACTS

Contacts	Phone Number
Roanoke County Police	911 (EMERGENCY)
Roanoke County EMS	(540) 777-8701
Catawba Fire Department	(540) 777-8701
Area Construction Engineer Tony Handy, PE, LS, CCM	(540) 375-3595
District Communications Manager Jason Bond	(540) 387-5493
VDOT Traffic Operations Center	(540) 375-0170

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3.A 3.A 0311-080-913 R201, B618 0311-080-913 DESIGN FEATURES RELATING TO CONSTRUCTION ON TO RECULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARMENT Rock Outcrop AMERICA 3// STATE Š REFERENCES (PROFILES, DET ALL & DRAINAGE DESCRIPTION SHEETS, ETC.) 3B 5 2A-2A(2) ESC Plan Roadway Typicals Profile UNITED STATES OF AMERICA DB 1278 FG 440 1869 AC. TAX MAP® 008.00-01-35.02-0000 A49 PLAN Ŕ GRADING UNITED STATES OF DB 1187 PG 369 RTE 311 (Catawba Valley Dr.) 107 003 1.32 A TAX MAP* 008.00 BOR - DENOTES BOTTOM OF RAMP TOR - DENOTES TOP OF RAMP EQL - DENOTES EDGE OF LANDING FEOR - DENOTES EDGE OF TRENCH INV - DENOTES PIPE INVERT | 1969.35' 06.42' RT | 1970.49' 07.83' RT | 1970.49' 06.00' RT | 1970.52' 06.00' RT | 1970.55' 06.00' RT | 1972.69' 06.00' RT | 1973.55' 06.00' RT | 1973.59' 06.00' RT | 1973.59' 06.00' RT | 1973.59' 06.00' RT | 1969.50' 06.42' RT | 1965.00' 37.94' RT | 1965.00 | FLEV | OF FSET | 1966.666 | 03.000 RT | 1966.544 | 03.000 LT | 1966.544 | 03.000 LT | 1967.444 | 03.000 LT | 1967.566 | 03.000 RT | 1972.566 | 03.000 RT | 197 ELEVATION POINT 23.4984
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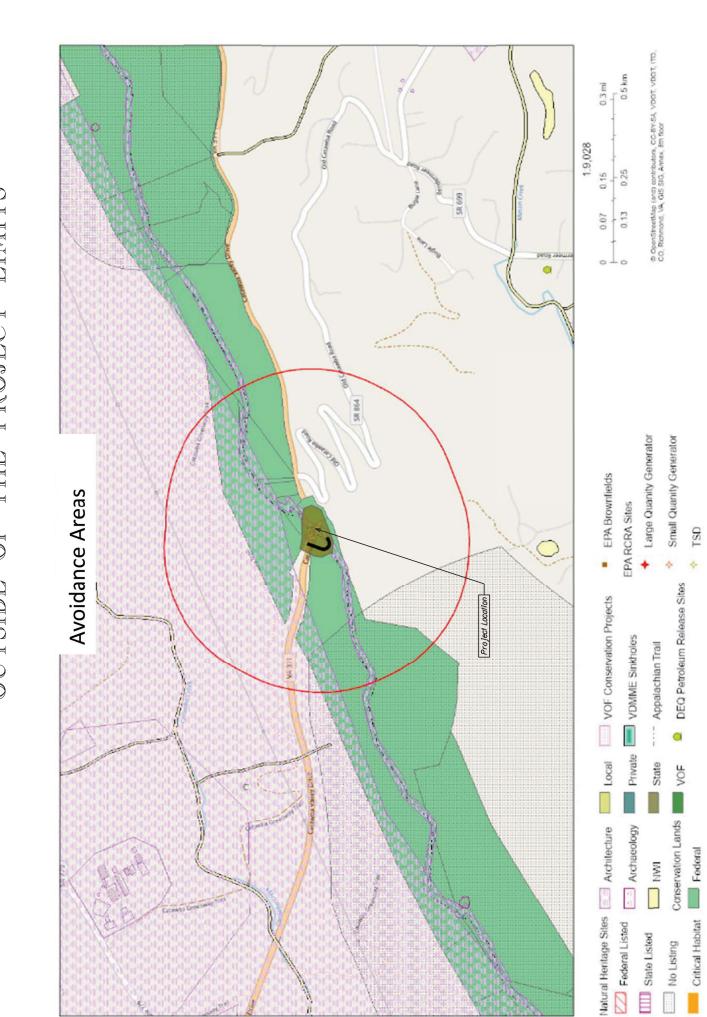
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PROJECT MANAGER*LEDNARD GISNNER, 540-387-545T, UDDT. SALEN. DISTRUT*SINVEYED BY, DATE SL. HOLLANDSWORTH, 195-85-567-5272, UDDT. SALEN. DISTRICT
DE SION BY IRANISYZIEZE, CORPOBATION: (672) 244-9720.
SUBSUOR AC UTILITY BY, DATE A/VA.

AREA OUTSIDE OF THE PROJECT LIMITS ENVIRONMENTAL AVOIDANCE

3E(I) 0311-080-913 R201, B618 dIII06603e(I).dgn Plotted By: jgleljedal 3// STATE ₹

DESIGN FEATURES RELATING TO CONSTRUCTION ON TO RECULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARMENT



Abbreviations:

ACM - Asbestos Containing Materials BMP - Best Management Practice

CR-Cultural Resources
DEM - District Environmental Wanager
ECI - Environmental Commitment inspector
VDGIF - Department of Game and Inland Fisherles
FHWA - Federal Highway Administration
WOA - Memorandum of Agreement
WOU - Memorandum of Understanding
NEPA - National Environmental Policy Act
NOI- Notice of Intent
NOI- Notice of Intent
NOI- Notice of Intent
NOI- Notice of Intent
VOR - Time of Year Restriction
T&E - Threatened and Endangered Species
PCN - Pre-Construction Notification
VDEC - Virginia Marine Resources Commission
USEC - Virginia Marine Resources Commission
USACE/COE - U.S. Army Corps of Engineers
USFWS - U.S. Fish and Willutire Service
WOTUS - Waters of the United States

Information on this sheet is a reference document related to the Environmental Commitments, Conditions and Clearances applicable to this project. Refer to the controlling documents (BId/Proposal/Contract Special Procisions, Final Construction Plans, etc.)

Notes:

Environmental shall be contacted regarding any field ad justments, construction Plan revisions, etc. prior to work proceeding to allow review to verify environmental compliance.

SHEET NO. 3E(1)

3E(2) SHEET NO. 3E(2) 0311-080-913 R201, B618 TO RTE 698 (KEFFER RD) 0311-080-913 51.26+84JJA DESIGN FEATURES RELATING TO CONSTRUCTION ON TO RECOLATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARMENT 3// End Project/Construction 03II-080-913,PE-101 STA 45-16.19 95 2A-2A(2) 3A 3B 3RW 5AW 5 REFERENCES (PROFILES, DET ALL & DRAINAGE DESCRIPTION SHEETS, ETC.) OF AMERICA UNITED STATES OF AMERI DB 1178 PG 214 65.05 AC. End ROW 0311-080-913, RW-201 STA 44-66.70 Prop.Temp.Const. Easement Ø 405-88#,00M TOQV Typicals Grading Plan Profile Right of Way ESC Plan Woods TE-1, TE-2 SHEET EX.ROW DB 1278 PG 440 1869 AC. WAP* 008.00-01-35.02-0000 TE-1, TE-2 WQ-2, 3, & 4 005 PLAN ŝ 40 Rock Outcrop& \(\times\) APPALACHIAN TRAIL CONSTR. BASELINE Rock Outcrop COMMITMENTS (V-)W 50S-88*.noM TOQV Prop.Temp.Const... Easement - Add parking lot gra $\left(\text{CR-2} \right)$ (CR-2)RTE 311 (Catawba Valley Dr.) Rock Outcrop Maintenance of gravel parking lot and any additional gravel required to widen the entrance to this parking lot will not be paid separately and shall be Included in the cost of other pay items. NVIRONMENTAL EX.ROW. Begin Project/Construction 03II-080-913, PE-IÕI STA 42-50.8I Emergency Vehicle Entrance Gate UNITED STATES OF AMERICA
DB 1187 PG 369
1.32 AC.
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STATES OF AMERICA. * q9A 21-021 PCC41-04-82-13 sənid ətiriW \w tlodqsA Begin ROW 0311-080-913, RW-201 STA 41-48.58 ib Note: The Environmental information on this sheet is a reference; refer to the controlling documents for project-specific details. PROJECT MANAGER*LEDNARD GISNNER, 540-387-545T, UDDT. SALEN. DISTRUT*SINVEYED BY, DATE SL. HOLLANDSWORTH, 195-85-567-5272, UDDT. SALEN. DISTRICT
DE SION BY IRANISYZIEZE, CORPOBATION: (672) 244-9720.
SUBSUOR AC UTILITY BY, DATE A/VA. NOTE: CONTROLLING AGENCY FOR ALL UNITED STATES OF AMERICA PARCELS SHALL BE THE NATIONAL PARK SERVICE. TIE 864 IBRADSHAW ROUTGO TO THE BEAT STOUTGO TO THE BEAT STOUTG TO (NZ613.27-W) ZOZ-88#*UOW 1001V Woods PC39* S 62 36 025 W

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SUMMARY ENVIRONMENTAL COMMITMENTS

3E 03//-080-9/3 R20/, B6/8 3// STATE ⋚

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

CATAWBA QUADRANGLE VIBGINA 7.5-MINJTE SERES

(3)

US Topo

USGS U.S. DEPARTMENT OF THE INTERIOR U.S. GEOLOGICAL SURVEY

In accordance with the Special Provision for Tree Ramoval Time of Year Restriction for Roossing Bat Habbit, 0.3 acres of trees greater than yr equal to 3 inch DBH and located within the project limits to disturbanch as easements) shall be immed or removed ouiside of the time of year restriction of 41 - 11/14. Kernwal of brush and trees less than 3:00h located within the project limits (Limits of Disturbance and essements) shall take place outside of the time-of-year restriction of 4/1 - 7/31 of any year. All parsonnel involved in construction activities shall read and understand the SPGPWP3 permit requirements; and all permit conditions (project appendix, agonal and general) shall be complied with outing construction. If there are any proposed revisions in the permitted activities or plan of operations affecting the stream then the Environmental Section shall be contacted to determine them modification is necessary prior to the revised instream activities taking place. avoidance to document that only permited activities are taking place. The checklist shall be competed in its entirety for each monthy inspection and shall be kept on site and available for review by VDEQ. Protection of Loggerhead Shrike - brush and tree removal limitations <TE1> Protection of bat species - Tree trimming and removal limitations <TE2> nce with water quality permits <WQ3> Seed Mix Limitations <WQ4> Submittal of ten Commitment Name: Description: Commitment Name: Description: Commitment An archaeological site (Native American Rocksrelter) is located near the north abunment at approximate light of STA 43-25 to 43-75. The site was determined to be not eligible for the National Register of Historic Places (NRHP) presumt to Sec. 106 of the NHPA: Innewer, it is still an NPS-connect instour resource for which all impacts (direct and indirect - vibratory/precussive) should be avoided. The Permittee (Area Construction Engineer) in coordination with the District Environmental Manage shall ensure that the following schulders are accomplished prior to commencement of construction: notification to VDE0 that construction is planned to commence in permit authorized areas; flagging of surface waters in the project area where construction activities are permitted and not permitted to cocur, and pre-construction photographs taken of all permitted impact sites. Description: The Appalachian Trail (AT) is eligible for the NRH-P and is considered a Sec.-4(i) property. Design considerations twee been coordinated with appropriate regulatory and sponsoring agencies and should be considered design constraints. Any construction revisions or contractor use of the active Refer to Page. 3 The Permitte (Area Construction Engineer) or his designee shall complete VDEO's Monthly WNP Permit Inspection Checklist once every calender month during activities within permitted impact areas. Inspections shall include all permitted impact sites and adjacent waters previously flagged fit Completion of VDEQs monthly VWP Permit Inspection Checklist <WQ2> **Environmental Commitments** Commitment Flagging of Waters of the US (WOTUS) <WQI>Name:
Description: The Permittes (Area Construction Engineer) in cool Commitment Avoidance othistoric property <CR1>
Name:
Description: An archaeotogical site (Native American P. Avoidance of historic property <CR2> Project Number: 0311-080-913 UPC:111066 111066 AssocProjects(UPC): 00311-080-24725160 Water Quality Permits Refer to Page: Refer to Page:

In accordance with the State Programmatic General Permit special conditions, seed mixes used on disturbed areas which result from the execution of jurisdicional impacts authorized by a Army Corps of physics in Salcowide Permit shall not include invasive species (i.e. crown vetch). notice to VDEC for WP3 permit

The Permittee [Area Construction Engineer (ACE] shall advise the Environmental Section upon completion of the permit authorized activities. The Environmental Section will compete the following completies: everlve the project, prompt the ACE to sgn the termination notice, and subsequently submit the termination notice to VDEQ on behalf of the ACE within 30 days of competion of the permit authorized activities.

Water Quality Permits Infornation Pemit #: 22-4101 22-SPGP-LT VWP General Permit No. WP3 11/14/2022

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Abbreviations:

State Control Section (1997) (2) The Section

ACM - Asbestos Containing Materials BMP - Best Management Practice

ECI - Environmental Commitment Inspector VDGIF - Department of Game and Inland Fisherles FHWA - Federal Highway Administration CR- Cultural Resources DEM - District Environmental Manager

MOA - Memorandum of Agreement MOU - Memorandum of Understanding NEPA - National Environmental Policy A

Environmental Contacts

District Environmental Manager:

NOT-Notice of Intent
NWP - Nationalde Permit
TOYR - Time of Year Restriction
T&E - Threatened and Endangered Species
PRN - Pre-Construction Notification
VDEO - Virginia Department of Environmental Quality
VWRC - Virginia Marine Resources Commission
USACE/COE - U.S. Army Corps of Engineers
USFWS - U.S. Fish and Wildlife Service
WOTUS - Waters of the United States

Robin,Simpson@vdot.virginia.gov

(540) 312-3604 Robin Simpson

Environmental Commitments Inspector:

Isaac.Jones@vdot.virginia.gov

(540) 580-0549

Isaac Jones

Environmental shall be contacted regarding any field ad justments, construction Plan revisions, etc. prior to work proceeding to allow review to verify environmental compilance.

Information on this sheet is a reference document related to the Environmental Commitments, Conditions and Clearances applicable to this project. Refer to the controlling documents (BId/Proposal/Contract Special Procisions, Final Construction Plans, etc.)

Page 3 of 3

WO - Water Quality

знеет но. 3E PROJECT 03//-080-9/3

PROJECT MANAGER*LEDNARD GISINER*, 540-387-5457, VDDT. SALEN. DISTRUT SHOWYYED BY, DATE SLL. MOLLANDSWORTH, U15-18-540-387-5227, VDDT. SALEN. DISTRUT DE SION BY TEMMSYSTELEZ CRREVORTION: (GZR) 244-9730. SUBSURR ACE UTILITY BY, DATE NAS.

SHOWING TEMPROARY EASEMENTS COMMONWEALTH OF VIRGINIA PROPERTY OF U.S.A SHEET Conveyed by Deed to The PLAN WAY PROPOSED RIGHT

3RW-0311-080-913 PE-101, C-501, RW-201 DESIGN FEATURES RELATING TO CONSTRUCTION ON TO RECULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARMENT 3// STATE Ż.

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Proposed Temporary Easement for Parcel 001 (25961 Sq.Ft.)

Metes and Bounds:

Beginning at a point on the south right of way of Route 311, being a point at Station 42+35.74 and Offset 82.60 feet left from Route 311 Construction Baseline; thence leaving Route 311 S35°50.29°E, a distance of 19.54 feet to a point; thence \$73°58.26°W, a distance of 2.59 feet to a point; thence N59°08'28"W, a distance of 33.43 feet to a point; thence \$22°00'53"W, a distance of 41.06 feet to a point; thence \$81°25.57"W, a distance of 39.98 feet to a point; thence \$30°00'25"E, a distance of 41.35 feet to a point; thence \$80°00'29"W, a distance of 41.73 feet to a point; thence N89°15'35"W, a distance of 41.73 feet to a point; thence N89°15'35"W, a distance of 41.73 feet to a point; thence N80°15'35"W, a distance of 41.3 feet to a point; thence N80°15'35"W, a distance of 43.34 feet to a point; thence N34°52'34"E, a distance of 68.52 feet to a point; thence N20°10'0"W, a distance of 43.34 feet to a point; thence N34°52'34"E, a distance of 68.52 feet to a point; thence S17.13 feet to a point; thence S17.35 feet, an Arc Length of 64.52 feet, an Arc Length of 64.52 feet, a chord Beaning of \$73°24'03"E, and a Chord Length of 64.48 feet to a point; thence \$772 feet. a distance of 178.60 feet to the Point of Beginning, containing 25961 Square Feet.

Proposed Temporary Easement for Parcel 002 (3030 Sq.Ft.)

Metes and Bounds:

Beginning at a point on the north right of way of Route 311, being a point at Station 43+96.31 and Offset 49.42 feet right from Route 311 Construction Baseline; thence along the right of way of Route 311 N33°47'33"W, a distance of 20.81 feet to a point; thence N68°45'20"W, a distance of 35.84 feet to a point; thence leaving the right of way of Route 311 N21°41.40"C, a distance of 40.99 feet to a point; thence S71°53'12"E, a distance of 68.87 feet to a point; thence S3°3'3'42"W, a distance of 12.76 feet to a point; thence S36°50'29"E, a distance of 19.50 feet to a point; thence S58°50'29"E, a distance of 19.50 feet to a point; thence S58°50'29"E, a distance of 19.50 feet to a point; thence S58°50'29"E, a distance of 19.50 feet to a point; thence

Proposed Temporary Easement for Parcel 003 (124 Sq.Ft.)

Metes and Bounds:

Commencing at a point on the north right of way of Route 311, being a point at Station 43+96.31 and Offset 49.42 feet right from Route 311 Construction Baseline; thence leaving the north right of way of Route 311 N545905°E, a distance of 42.28 feet to the Point of Beginning; thence N35° 50′29°W, a distance of 19.50 feet to a point; thence N53°13'44°E, a distance of 12.76 feet to a point; thence S02°55'40°E, a distance of 23.47 feet to the Point of Beginning, containing 124 Square Feet.

Proposed Temporary Easement for Parcel 004 (5591 Sq.Ft.)

Metes and Bounds:

Beginning at a point on the south right of way of Route 311, being a point at Station 41+48.58 and Offset 37.25 feet left from Route 311 Construction Baseline; thence leaving the right of way of Route 311 S00°34.38°E, a distance of 54.12 feet to a point; thence 873°58′26°W, a distance of 80.58 feet to a point; thence N35°50′29°W, a distance of 70.37 feet to a point in the south right of way of Route 311; thence along the south right of way of Route 311 a curve to the left with a Radius of 517.41 feet, an Arc Length of 119.94 feet, a Chord Bearing of N80°42′26°E, and a Chord Length of 119.67 feet to the Point of Beginning, containing 5591 Square Feet.

SHEET NO.

0311-080-913

4(3) 4(·3) PT50+73,60 0311-080-913 R201, B618 PROJECT 03/1-080-9/3 DESIGN FEATURES RELATING TO CONSTRUCTION ON TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT TO ATE 698 (KEFFER AD) 09 3// STATE \$ RETAIN EXISTING RUMBLE STRIPS PCC49+24**.**41 6t RTE 311 (Catawba Valley Dr.) RETAIN EXISTING RUMBLE STRIPS PRC48+03**.**92 MARKING PLANS 84 (00)
UNITED STATES OF AMERICA
DB 1178 PG 214
55.55 AMERICA
74X MAP* 00803-01-07.00-0000 24 S1°96+97212 (002)
UNITED STATES OF AMERICA
DB 1278 PC 440
1858 PC
TAX MAP* 008.00-01-35.02-0000 \otimes SIGNING 4(2) MATCH LINE STA, 46*00 SHEET TO RTE 655 (OAKEY DOLIN RD)

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S SHEET NO. 3A 3B REFERENCES (PROFILES, DETAL & DRANAGE DESCRIPTION SHEETS, ETC.) 2A-2A(2) 0311-080-913 R201, B618 0311-080-913 Grading/Drainage General Notes DESIGN FEATURES RELATING TO CONSTRUCTION ON TO RECULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARMENT Typicals Roadway Profile ENCE TO BE INSTALLED A MINIMUM OF 6 INCHES OUTSIDE EDGE OF PROPSED STONE TRENCH 20. 3// Rock Outcrop 95 STATE Š 8 TranSystems Richmond, Virginia HYDRAULIC ENGINEER UNITED "STIATES OF AMERICA: 33. DB 1278 PG/AMG 935 18.69 AC. TAX MAP* 008.00-01-35.02-0000 PLAN 000 CONTROL Rock Outerop -INSTALL CORI AS NEEDED Rock Outerop STAGING ARE, CONSTRUCTION Add parking lof grave SEDIMENT RTE 311 (Catawba Valley Dr.) (STE21'00'N 1068.25') Temporary Fencing —
PARKING AREA
MO DISTURBANCE
PERMITTED AND mergency Vehicle ntrance Gate UNITED STATES OF AMERICA DB 1187 PG 369 1.32 AC. 7AX 11AP* 008.00-01-32.00-0000 SA * qəA TOS EROSION (8) THE POST OF MILE OF STATES OF MILE RICK OF THE POST OF 1. THE CONTRACTOR SHALL LIMIT ALL DISTURBANCES TO WITHIN THE PROJECT LIMITS. THIS PROJECT IS UNDER 1 ACRE OF DISTURBANCE AND DOES NOT REQUIRE A VPDES PERMIT. WINTER STATES OF AMERICAN BE APPROVED BY AND SEDIMENT RUCTION 2. CLEAR AND GRUB ONLY AREAS NECESSARY FOR PERIMETER EROSION CONTROL SILT FENCE, TOE DITCHES AND STABILIZED CONSTRUCTIVE 4. INSTALL STABILIZED CONSTRUCTION ENTRANCES AT LOCATIONS TO THE ENGINEER. CONSTRUCT NEW BRIDGE AND APPROACHES PER THE STAGED CONST SEQUENCE SHOWN ON THE TRANSPORTATION MANAGEMENT PLAN. 3. CONSTRUCT AND INSTALL PERIMETER SILT FENCE CONTROLS. PROJECT MANAGER*LEDMARD GISINER,* 540-387-5457.WDD. SALEW DISTRUT SINVEYED BY, DATE SLLHOLMDSWORTH, 145-185-5027.WDDL SALEM DISTRUT DESIGN BY TRANSYSTER CORP. (1843) 266-930. SUBSURR AC UTILITY BY, DATE M.X. EROSION AND SEDIMENT CONTROL PLAN NOTES: S 62 36 025 W 477-VA-24

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PROJECT MANAGER*LEDNARD GISINER*, 540-387-5457-VDDT. SALEW. DISTRUT SURVEYED BY, DATE SLLHOLLANDSWORTH.J95-86-540-387-5227-VDDT. SALEW. DISTRICT DE SION BY LEWAISYSTEMS. CORP. 1843. P86-3300. SUBSIONER AD. UTILITY BY, DATE W.24.

INFORMATION SHEET (SWPPP) GENERAL POLLUTION PREVENTION PLAN TORMWATER

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance activities that disturbance activities that disturb an area equal to or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD (as defined in the latest IIM 242) will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect tonges that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

closertify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete, lam aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. XI certify

XI further certify that this document and all other documents related to the SWPPP, as identified on the SWPPP General Information Sheets, are maintained at the activity site, or at a location convenient to the activity site where no on-site facilities are available, and such documents will be made available for review upon request in accordance with the provisions of the General VPDFS Permit for Discharges of Starmwater from Construction Activities (VARIO) when applicable. Where the SWPPP documents are not stored on-site, a copy of such documents shallbe in the possession of those with day to day operational control over the implementation of the SWPPP whenever they are on site.

* or ** Delegated Authority Signature"

Signature: ____ Printed Name: . Date: ______

LD-445H (Delegation of Authority). (1) See Section 1, Item 11 relating to delegation of authority, and form

ACRONYMS

CBPA - Chesopeake Bay Preservation Act BMP - Best Management Practice DEQ - Department of Environmental Quality EPA - U.S. Environmental Protection Agency ESC - Erosion and Sediment Control IIM - Instructional and Informational Memorandum R&B - Road and Bridge RLD - Responsible Land Disturber

SWPPP - Stormwater Pollution Prevention Plan
TMDL - Total Maximum Daily Load
VD07 - Virginia Department of Transportation
VPDES - Virginia Pollutant Discharge Elimination System
VSMP - Virginia Stormwater Management Program
VESCP - Virginia Erosion and Sediment Control Program
WLA - Waste Load Allocation
SWM - Stormwater Management

SECTION I GENERAL INFORMATION

1. Activity Description - This project consists of the construction of a pedestrian bridge over SR 311 and associated construction of approaches, walls, and pedestrian access points.

2. This land disturbance (construction) activity site is located in Roanoke County and approximately 0.90 acres will be disturbed by excavation, grading or other construction activities.

3. This proposed activity disturbs less than one acre and is exempt from coverage under the VPDES General Permit for Discharges Of Stormwater from Construction Activities (the VPDES Construction Permit) as issued by the DEQ.

4. The location of on-site support facilities that will be covered under the VPDES Construction Permit coverage for this land disturbance (construction) activity shall be provided by the contractor and identified on the record set of plans or in other appropriate contract documents. Support facilities shallinclude, but not be limited to borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, their may generate a stormwater or non-stormwater discharge directly related to the construction site. ×

of the 5. Written Evidence of permit coverage shall be provided by the contractor for all support activities located outside of VDOT right of way or easement in the form o Construction General Permit coverage letter. ×

6. List the surface waters that have been identified as impaired in the DEQ 2020 305(b)/303(d) Water Quality Assessment Integrated Report for sediment, total suspended solids, turbidity, Nitrogen or Phosphorus. These pollutants are considered benthic impairments:

7. Identify the TMDL's where stormwater from construction activities discharges into a watershed with a TMDL waste load allocation established and approved by the State Water Control Board prior to July 1, 2016 for sediment, total suspended solids, turbidity, nitrogen or phosphorus: NA $^{\prime}$

8. This land disturbance activity discharges stormwater to the following surface waters that have been identified as exceptional in Section 9VAC25-260-30 A 3 c of the Virginia Administrative Code:

9. Locations of surface waters and locations where concentrated stormwater is discharged from this land disturbance (construction) activity are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

10. The ESC and SWM plans (where applicable) for this land disturbance (construction) activity have been developed in accordance with VDOT's Approved Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications as approved by the DEQ.

11. List the RLD and other responsible parties for the land disturbance activity: (required for erosion and sediment control). The following individual(s) have "delegated authority" to sign all reports required by the construction permit including the SWPPP GeneralInformation Sheets and Inspection Reports (C-107). Reference form LD-445H for delegation of authority (form 445H for the project is hereby incorporated by reference into this SWPPP). These individual(s) has/have overall responsibility or the environmental matters for the project: (required only for permitted projects):

Position Name

Responsibility

5	Part	Part		
כבונוו לווב אוווו ויוווו ממנב מי או	Certified Inspector Sign (C-107) Inspection Form Part	Certified Inspector Sign (C-107) Inspection Form Part		
7.0	Certified Inspector	Certified Inspector		

X 12. The name of the VDOT individual(s) responsible for the oversight inspection in accordance with IIM-LD-256 on these land disturbance construction activities os identified on these SWPPP GeneralInformation Sheets. The names willbe updated and maintained with the other SWPPP documents for this land disturbance activity.

NPDES coordinator responsible for the oversight inspection in accordance with IIM-LD-256 District Hydroulic Engineer or designee(s) responsible for the review & the coordination approval of ESC SWM plan modification(s). Responsibility Dist. Hyd. Engineer Position NPDES Jay Crumpacker, PE VDOT Individuals Jeff Ferguson

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

13. The ESC and P2 inspections for this land disturbing (construction) activity shall follow Schedule 1 as defined in 2020 R&B Specifications except for Section 107.16(e)4. an Inspection Requirements Rain gauge notes apply only to Inspection Schedule 1.

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14. The location of the on-site rain guage that will be used to determine the occurrence of measurable storm event for the purposes of ESC and Pollution Prevention inspections will be provided by the contractor and identified on the record set of plans or in other appropriate SWPPP documents for this land disturbance activity:

(List location of rain gage). ×

15. The following VDOT documents are applicable to a) permitted projects b) non-permitted projects in Chesapeake Bay Preservation Areas (CBPA) with 2,500 to 1.0 acre of land disturbance c) non-permitted projects requiring a SWPPP and d) Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP:

VDOT LD-445: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP and ESC projects > 10,000 s.f. but <1 acre.
VDOT LD-445A: Permitted projects only.
VDOT LD-445C: Projects that require a permit, ESC Plan, or SWPPP.
VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.

Water Quality Requirement (when applicable)

VDOT LD-445H: Permitted projects only.

VDOT C-107 Part Land Part II. All projects that require a permit or SWPPP.

VDOT LD-445I: AS&S Approval Form (when applicable)

16. If there is an excessive loading of sediment from the project (i.e. more than to be expected from the project with an implemented ESC plan) that is discovered within a local watershed with a sediment TMDL that allocates a WLA to VDOT's MS4, (see note *7) the contractor shallinvestigate the area of concern at the site within 24 hours of discovery and ensure allerosion and sediment controlbest management practices are being implemented in accordance with the permits approved standards and specifications required by Part I.B of the current Construction General Permit. If corrective action is necessary, the contractor shall initiate corrective actions no later than 5 business days after the initial investigation.

17. If excessive loading of sediment from a land disturbing activity that is not the responsibility of the contractor is discovered discharging into a MS-4, the contractor shall notify the municipality with jurisdiction over erosion and sediment control activities.

X Denotes information that is to be provided/completed by the RLD.

XX Denotes information that is to be provided/completed by the contractor.

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DE SICN BY TRANSYSTENS, CORP. (243.) 266-3300.
SUBSURRAGE UTILITY BY, DATE MA.

DIMENT CONTROL SEI SECTION II EROSION AND

- XX 1. The intended sequence and timing of activities that disturb soils at the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation, etc.) shallbe provided by the contractor in accordance with the current edition of Section 108.03 of the VDOT R&B Specifications and shall be included with the other SWPPP documents for this land disturbance (construction) activity.
- plan set (or other such documents) slopes anticipated after major 2. Directions of stormwater flow and approximate grading activities are identified in the construction for this land disturbance (construction) activity.
- 3. Areas of soil disturbance and areas of the site which will not be disturbed are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.
- ESC measures intended to filter, in the construction plan set construction) activity. 4. Locations of major structural and nonstructural ESC settle or similarly remove sediment are identified i (or other such documents) for this land disturbanc
- 5. Locations where stabilization practices are expected to occur are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.
- $6.\,A$ description of interim and permanent stabilization practices for the site are identified in the applicable sections of the documents identified in the Note 1 of Section IV.
- measures XX 7. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measure, are initiated will be provided by the contractor and maintained with the record set of plans or other SWPPA documents for this land disturbance (construction) activity: (List how this will be tracked and the location)
- 8. A description and schedule of procedures to maintain vegetation, erosion and sediment control measures and other protective measures in good and effective operating conditions are identified in the current edition of Sections 107.16 and 303.03 of the VDOT R&B Specifications.
- and 9. Nutrients shall be applied in accordance with the current edition of Sections 603 and 604 of the VDOT Road and Bridge Specifications. Nutrients shall not be applied during rainfall events. Top soil shall be applied in accordance with the current edition of section 602 of the latest Road and Bridge Specifications.

10. All engineering calculations supporting the design of erosion and sediment control measures proposed for this land disturbance (construction) activity are contained in the project drainage file located in the VDOT Salem District Hydraulics Section and will be made available for review upon request during normal business hours.

- 11. The temporary erosion and siltation controlitems shown on the ESC Plan for this land disturbing (construction) activity are intended to provide a general plan for controlling erosion and sediment within the project limits. The ESC Plan is based on field conditions at the time of plan development and an assumed sequence of construction for the project. The contractor, in conjunction with the VDOT Project Engineer and/or ESC Inspector, shall adjust the location, quantity and type of erosion and sediment controlitems required based on the actual field conditions encountered at the time of construction and the actual scheduling and sequencing of the construction activities. Significant changes to the proposed ESC Plan (e.g., those that require an engineering analysis, elimination of a perimeter control, change to ESC concept that would affect the quantity or direction of flow of water) shall be submitted to the applicable District Hydraulics Engineer for review and approval. Any changes to the proposed ESC Plan must be noted on the designated record set of plans which shallbe retained on the project site and made available upon request during normalbusiness hours.
- 12. The areas beyond the project's construction limits are to be protected from siltation. Perimeter controls such as silt fence, diversion dikes, turbidity curtains, etc. shall be earth moving activities. rerimeter controls such as silt fence, diversion diktinstalled prior to any grubbing operations or other
- 13. Temporary earthen structures such as dikes and berms are to be stabilized immediately upon installation. Stabilization may include temporary or permanent seeding, riprap, aggregate, y or permanent seeding, riprap, aggr matting in conjunction with seeding. sod, mulching, and/or soil stabilization blankets and
- 14. All channel relocations are to be constructed during the earliest stage of construction and shall be constructed in accordance with all applicable permit requirements and shall be constructed in the dry wherever possible. Stabilization or vegetation shall be established before flow is redirected through the constructed area as directed by the Engineer.
- 15. The contractor shall plan and implement his land disturbance operations in order to: a. Control the volume and velocity of stormwater runoff within the site
 - flow rates, volume and velocity of stormwater discharges Control the peak flo to minimize erosion Ъ.
 - at outlets and in downstream channels.
- c. Minimize the amount of soil exposed.
 d. Minimize the disturbance of steep slopes.
 e. Minimize sediment discharge from the site.
 f. Provide and maintain naturalbuffers around surface waters, direct stormwater runoff to vegetated areas and maximize stormwater infiltration, unless infeasible.
 g. Minimize soil compaction (except in those areas where compaction is required by the contract documents) and preserve topsoil where feasible.

- XX 16. The name of the individual(s) or contractor(s) responsible for the installation and maintenance of the erosion and sediment control measures shall be supplied by the contractor and maintained with the other SWPPP documents for this land disturbance (construction) activity.
- 17. Soil stockpiles temporarily placed within the project area or on VDOT right of way or easement shall be identified, stabilized, and protected with sediment trapping measures.
- 18. A construction entrance or other approved measure shall be installed at allocations where construction vehicular traffic access routes intersect a paved or a public road in order to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or a public road surface, the road shall be cleaned thoroughly at the end of each work day by shoveling or sweeping. Removed sediment shall be disposed of in accordance with Section 106.04 of the R&B Specifications.
- 19. Any variance, exception or deviation approved by DEQ must be listed below and supporting documentation (exception/variance/deviation request and DEQ approval) must be maintained with the SWPPP.
- The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance (construction) activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office)

Description of Variance		
Approval Date(3)		
Regulation Modified(2) Approval Date(3)		
Type(1)		

- (1) Type of modification (Variance from ESC regulations, or Deviation from published guidance)
 (2) Section of Regulation or Guidance Document Modified (e.g. ESC Min. Std. 15)
 (3) Date that variance-exception/deviation was approved by DEQ.

SECTION III POST CONSTRUCTION STORMWATER MANAGEMENT

This section is not applicable. See Section 1, note

X.1. This land disturbance activity utilizes the Part IIIB technical criteria (i.e., Runoff Reduction Method, Energy Balance Equation, etc.) in Section 9VACS5-870-62 et seq. of the VSMP Regulations.

3. Any variance, exception or deviation approved by DEQ must be listed below and supportion documentation Nexception/variance/deviation request and DEQ approval) must be maintained documentation to with the SWPPP.

The following exceptions to the Water Quantity criteria of the VSMP Regulation have been approved by the DEQ for this land disturbance activity: (list all approved exceptions and include a brief description of the exception, the date approved and the approving DEQ Office)

Description of Waiver	/	/
Approval Date(3)		
pe(1) Regulation Modified(2) Approval Date(3)		\
/pe(1)		

- (1) Type of modification (Variance, or Exception from SWM Regulations or Deviation from published guidance)
 (2) Section of Regulation or Guidance Document Modified (e.g. ESC Min. Std. 15)
 (3) Date/finat variance/exception/deviation was approved by DEQ.
- 4. The permanent onsite SWM facilities or offsite strategies proposed to meet the water quality/quantity requirements for this land disturbance (construction) activity are listed in Section VI.

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

3.A description of all post-construction stormwater management measures, that will be installed during the construction process to control pollutants in eformwater discharges after-construction operations have been completed-is included in the construction plan set fec other such documents) for this fand disturbance (construction) activity. 6. All engineering calculations supporting the design of the post-construction stormwater management medsures for this land disturbance (construction) activity, including on explanation of the technicalbasis used to select the practices, are contained in-the project drainage file located in the VDOT Salem-District Hydraufics Section and will be made available for review upon request abride moremal working business hours.

ACRONYMS

CBPA - Chesapeake Bay Preservation Act
BMP - Best Management Practice
DEQ - Department of Environmental Quality
EPA - U.S. Environmental Protection Agency
ESC - Erosion and Sediment Control
IM - Instructional and Informational Memorandum
R&B - Road and Bridge
RLD - Responsible Land Disturber

SWPPP - Stormwater Pollution Prevention Plan
TMDL. - Total Moximum Daily Load
VD0T - Virginia Department of Trom Emoratorian
VPDES. - Virginia Department of Trom Emoratorian
VSMP - Virginia Stormwater Management Program
VSMP - Virginia Erosion and Sediment Control Program
WLA - Waste Load Allocation
SWM - Stormwater Management

** Denotes information that is to be provided/ completed by the RLD.

XX Denotes information that is to be provided/completed by the contractor

Revised 5/1/19

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PROJECT MANAGER*LEDMARD GISINER*, 540-387.5457.VDDT. SALEM. DISTRICT
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STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEE"

The information contained in the SWPPP General Information sheets is intended to comply with the requirements of the VPDES General Permit For Discharges Of Stormwater From Construction Activities (the VPDES Construction Permit) issued July 1, 2019 and VDOT's approved Annual ESC and SWM Standards and Specifications.

The SWPPP General Information sheets are to be completed and included in the construction plan set (or other such documents) for land disturbance (construction) activities that disturb an area equal to or greater than 10,000 square feet outside the Chesapeake Bay Preservation Area, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.

The VDOT RLD will ensure that the information shown on the SWPPP Ceneral Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

SECTION IV SWPPP

1. All documents related to the SWPPP for this land disturbance (construction) activity shall be maintained at the activity site and shall be readily available for review upon request during normal business hours. Such documents include, but are not limited to, the construction plans for other such documents, the ESC Plan, the Pollution Pervention Plan, the post construction SWM Plan (if applicable), the VDOT R&B Standards and Specifications, Supplemental Specifications, Special Provisions and Special Provision Copied Notes. Documents related to stormwater pollution prevention which are not a part of those documents referenced above, such as copies of the VPDES General Permit For Discharges Of Stormwater From Construction Activities when applicable) and those required to be developed by the contractor for pollution prevention associated with any on-site support facilities being included in the VPDES Construction Permit coverage for this land disturbance (construction) activity are to be maintained at the activity site with the other SWPPP documents, they are to be kept by or with the designated RLD at a location convenient to the activity site where they would be made available for review upon request during normal business hours.

2. The SWPPP and any subsequent amendments, modifications and updates shall be implemented from commencement of land disturbance until termination of VPDES Construction Permit coverage or completion of land disturbance (construction) activities where no VPDES Construction Permit coverage is required.

the on-site support facilities shall be maintained with and become a component of the SWPPP for this land disturbance (construction) activity. Support facilities shall include, but not be limited to, borrow and disposal areas, construction and waste material storage areas, equipment and vehicle washing, maintenance, storage and fueling areas, storage areas for fertilizers, fuels or chemicals, concrete wash out areas, sonitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site. XX 3. For all on-site support facilities that will be included in the VPDES Construction Permit coverage for this land disturbance (construction) activity, the contractor shall develop a SWPPP in accordance with, but not limited to, Section 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications. The SWPPP for

4. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the SWPPP shallbe made available for review upon the request of the DEQ, the EPA, the VSMP Authority, the VESCP Authority, local government officials or the operator of a municipal separate storm sewer system (MS4) receiving discharge from the construction site.

* 5. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the VDOT RLD shall post, or have posted, a copy of the Ceneral Permit coverage letter and a copy of a completed LLD-445A form, noting the name and contact information for the VDOT person responsible for the land disturbing (construction) activity and its SWPPP, outside the project's construction office along with other Federal and State mandated information. Where there is no construction office (e.g., a maintenance activity), the permit coverage letter and the LD-445A form are to be maintained with the other SWPPP documents for the land disturbing (construction) activity.

6. The SWPPP shall be made available for review by the public upon request. Such reviews shall be at a time and publicly accessible location convenient to the VDOT and shall be scheduled during normal business hours and no less than once

SECTION V - POLLUTION PREVENTION PLAN

The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are prohibited:
 Wastewater from concrete washouts.
 Wastewater from the washout and cleanout of stucco, paint, from release oils, curing compounds and other construction materials.
 C. Fuels, oils or other pollutants used in vehicle and equipment operation and

maintenance. Oils, toxic substances or hazardous substances from spills or other releases. Soaps, solvents or detergents used in equipment and vehicle washing. There shallbe no discharge of floating solids or visible foam in other than trace amounts

The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are allowed when discharged in compliance with the VPDES Construction Permit:

a. Discharges from firefighting activities.

b. Fire hydrant flushings. 2. The

Waters used to wash vehicles or equipment where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.

d. Water used to controlladust that has been filtered, settled or similarly treated prior to discharge.

e. Potable water sources including uncontaminated waterline flushings managed in a manner to avoid stream impacts.

f. Routine external building wash down where soaps, solvents or detergents have not been used and the wash water has been filtered, settled or similarly treated prior to discharge.

g. Povement wash waters where spills or leaks of toxic or hazardous materials have not occurred for where all spilled or leaked material has been removed prior to washing), where soaps, solvents or detergents have not been used and where the wash water has been filtered, settled or similarly treated prior to discharge.

Uncontaminated air conditioning or compressor condensate.
Uncontaminated ground water or spring water.
Foundation or footing drains where flows are not contaminated with process materials such as solvents.

Uncontaminated excavation dewatering, including dewatering trenches and excavations that have been filtered, settled or similarly treated prior to discharge.

Landscape irrigation.

X.X. 3. The contractor shall develop a Pollution Prevention Plan to address any of his onsite operations that have a potential to generate a pollutant that may reasonably be expected to affect the quality of stormwater discharges from this land disturbance (construction) activity. The Pollution Prevention Palon shall be developed in accordance with, but not limited to, Sections 106.08, 107.02 and 107.16 of the VDOT Road and Bridge Specifications and shall include a narrative with appropriate plan detail and shall be provided on standard 8.5 x 11 inch paper or larger and shall: a larger ted to be exposed to stormwater.
b. Describe the location where the potential pollutant-generating activities will occur, or if identified on the record set of plans, reference the record

dentify all non-stormwater discharges, as described in note two of this section, that are or will be comminged with stormwater discharges from the construction activity, including any on-site support activities.

d. Identify the person(s) or contractor(s) responsible for implementing and maintaining the pollution prevention practice or practices for each pollutant-generating activity.

e. Describe the pollution prevention practices and procedures that will be implemented to:

1) Prevent and respond to leaks, spills, and other releases, including procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases, and procedures for reporting leaks, spills, leaks, and other releases in accordance with Section 107.16 of the VDOT Road and Bridge Specifications and the requirements within the VPDES Construction Permit.

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DESIGN FEATURES RELATING TO CONSTRUCTION ON TO RECULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARMENT

- Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities. 5)
- Prevent the discharge of soaps, solvents, detergents, and wash water from construction materials, including procedures for the clean-up of stucco, paint, form release oils, and curing compounds. 3)
- vehicle and equipment Minimize the discharge of pollutants from vehicle and washing, wheel wash water, and other types of washing. 4
- Direct concrete wash water into a leak-proof container or leak-proof settling basin. The container or basin shall be designed so that no overflows can occur due to inadequate sizing or precipitation. Hardened concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wastes. Liquid concrete wastes shall be removed and disposed of in a manner consistent with the handling of other construction wash waters and shall not be discharged to surface waters. 2
- Minimize the discharge of pollutants from storage, handling, and disposal of construction products, materials, and wastes including building products (such as asphalt sealants, copper flashing, roofing materials, adhesives, and concrete admixtures), pesticides, herbicides, insecticides, fertilizers, landscape materials, construction and domestic wastes (such as packaging materials), scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials. (9
- Prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, waste concrete and sanitary wastes. 7
- Address any other discharge from any potential pollutant-generating activity not listed herein. 8
- Minimize the exposure of waste materials to precipitation by closing or covering waste containers during precipitation events and at the end of the business day, or implementing other similarly effective practices. Minimization of exposure is not required in case where the exposure to precipitation will not result in a discharge of pollutants.
- Describe and implement procedures for providing pollution prevention awareness (including but not limited to prevention practices, disposal practices and appropriate disposal locations) for all applicable wastes (including any wash water), to appropriate personnel. 0

X Denotes information that is to be provided/completed by the RLD.

XX Denotes information that is to be provided/completed by the contractor.

Revised 5/1/19

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

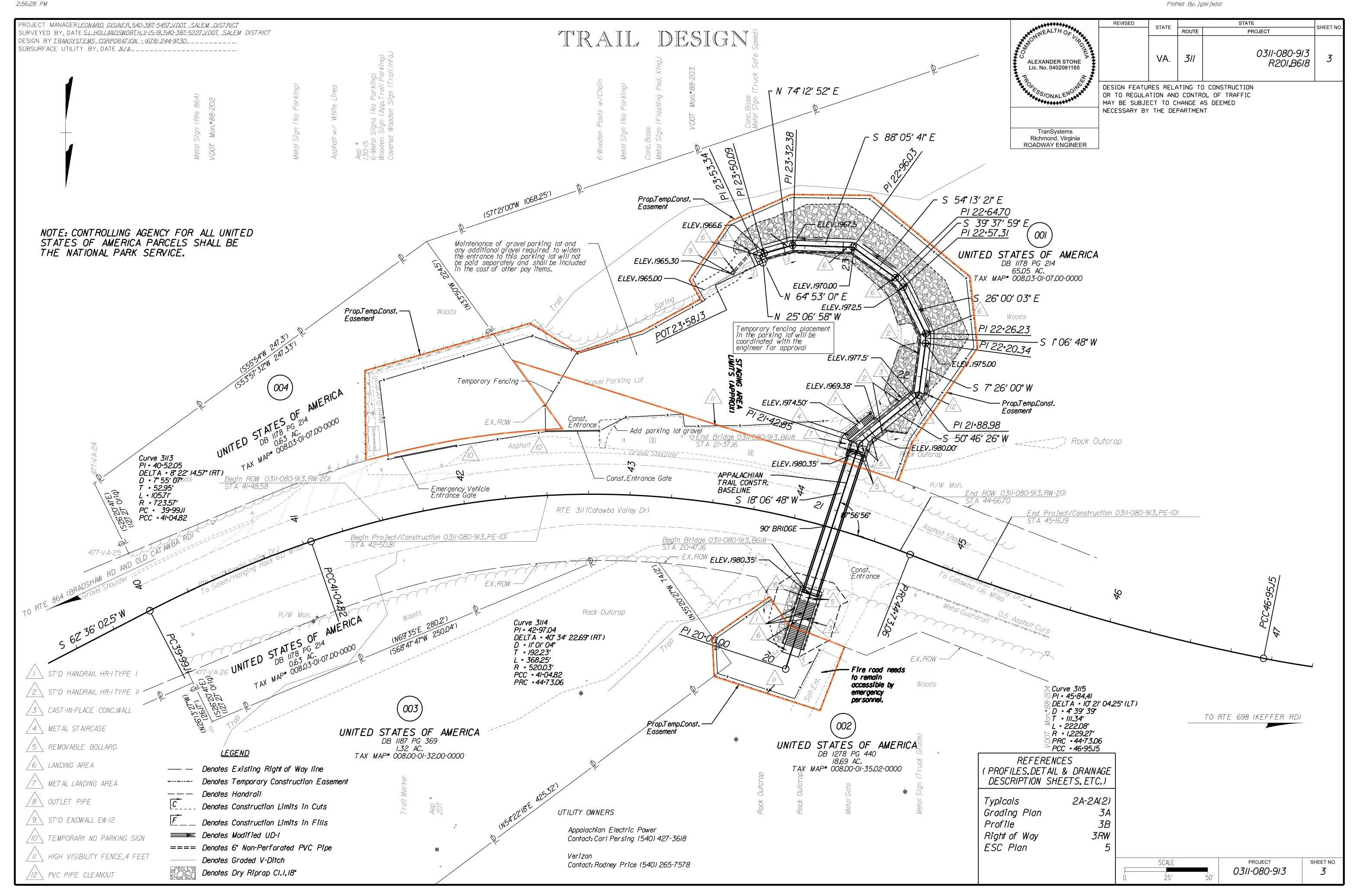
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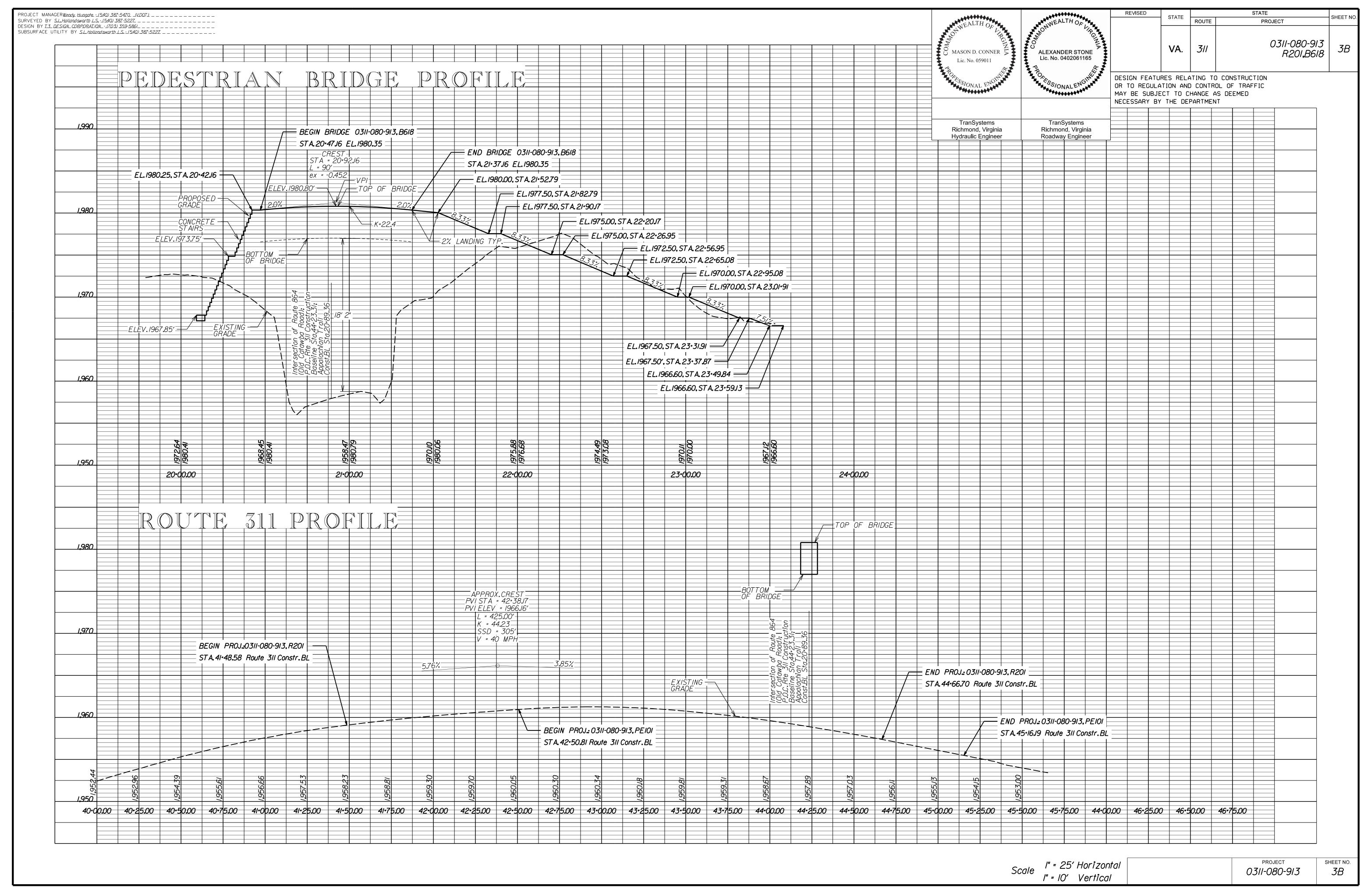
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STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

The VDOT RLD will ensure that the information shown on the SWPPP General Information sheets is updated/revised as necessary in order to reflect changes that may occur during the construction phase of the land disturbing (construction) activity. The updated/revised sheets shall be maintained with the designated record set of plans (or other such documents) for the land disturbance (construction) activity.

		X BMP Maintenance BMP Inspection ID Number Manual Manual (10) SECTION			y changes to the proposed SWM Plan or BMPs cessitated during the construction phase of the	project that affects the proposed construction details or potentially affects the informationshown in the BMP Tables A and/or B Halbe coordinated by the VDOT RLD with the appropriate VDOT District Hydraulics. Engineer. The construction plans and the BMP Tables A and/or B are to be formally revised to reflect any authorized/ approved changes to the proposed SWM Plan and/or the proposed BMP construction details. All plan revisions shall	completed in accordance with the Koad Design Manual of the Construction Division IM-CD-2013-12.01, signed a selded in accordance with Department's sealing and pring policy IM-LD-243 and filed with the construction	cord drawings maintained in the VDD1 Central Office man File Room (ProjectWise). Prior to submitting for miniation of coverage under the VPDES General Permit The Discharge Of Stormwater From Construction	tuvites, the KLD stall move the District Mantenance Division view the BMPs installed with the project (BMP Table A) for ceptance of maintenance responsibility and to obtain a	Maintenance ID number for each BMP. listed in BMP. Table A. The RLD shall use the informationin BMP. Tables A and B along with the assigned Maintenance ID number and the date that the RMD hazame functional as a permanent positrol measure.	or BMPs in Table A only) to complete the LD-445D form en certifying the construction of the BMPs and submitting for	termination of coverage under theVPDES GeneralPermit For The Discharge Of Stormwater From Construction Activities.		nce manual that pertains to additional at www.vdat.virginia.gov/	or both the maintenance tion I infiltration BMP.	irest one hundredth pound.						Kevised 5/1/19	PROJECT SHEFING. 03/1-080-9/3 5D
		Acres Treated Per BMP (3) X BM Impervious Pervious TOTAL				Credits Acquired for Project of Nutrient Credits credit (lbs./TP./year) Entity Acquired (6) (12)	N/A	9 A B D C	8 2 8 3	MC Wisi.	tie (for			(11) Provide the section of each Maintenance manual that pertains to the type of BMP. Both manuals can be found at www.vdot.virginia.gov/		(12) Nutrient credits purchased to the nearest one hundredth pound.		to be					
INFORMATION $ riangle$ by the RLD.		Name of Impaired Water (9)				P Name of Impaired Water (9)					st one ten-thousandth of a degree.	to do	rest one hundreths acre.	BMP owners.	(3) Information persons to the attendative billing option, where applicable, Exception - Not required for nutrient credit purchase option.	ient credits only.		Manufactured Treatment Devices (MTDs) are to be on submitted with the LD-445D form.	vater to which the BMP discharges.	listed as implaned in the Law 2012 JOSON, JOSON Water Walling Assessment Integrated Report and shall be the first named waterbody to which the BMP discharges. The impaired waters are those impaired to which the IND condages. The impaired waters are those impaired to which the IND condages. The impaired waters are those impaired to which the IND condages. The impaired waters are those impaired to which the IND condages with the IND conda	ids, writingly, mit agen or prospriorus. to be assigned by the District	Maintenance Division at permit termination or project completion. This ID number shall be assigned prior to the permit close out process	ruction engineer under this column, per
ICTION VI - PERMANENT BMP INFORN X Denotes information that is to be completed by the RLD () See note referenced by number in parentheses.		VA 6th Receiving Water Order (2) HUC (7)				Receiving Water (2)					NOTES: (1) In decimal degrees to the nearest one ten-thousandth	(2) For streams with no names, list "(Unnamed Tributary	(3) Show acres treated to the nearest one hundreths acre.	(4) Include agreements with off-site BMP owners.	(3) information pertains to the after Exception - Not required for nu	(6) Applies to the purchase of nutrient credits only.	(7) Virginia 6th Order HUC (VAHU6) Example - YO3O.	(S) Final approved shop drawings of Manufactured Treatment included with the BMP information submitted with the LD	(9) List the name of any impaired v The determination of impaired v	Assessment Integrated Report of to which the BMP discharges. The body of the b	(10) BMP Maintenance ID Number is	Maintenance Division at permit t This ID number shallbe assigned	and entered by the area const IIM-LD-95
S		Geographic Location Latitude/Longitude (County or City) LAT LONG				Geographic Location VA 6th (County or City) Latitude/Longitude Order (5) (1) (5) (5) (5) LAT LONG					Table C: Permanent BMP Types (BMP Clearing House) Sheet Flow to Vegetated Filter Strip	Grass Channel	Soil Compost Arrendinent Permedale Povement (Level.)	remeade rovemen (Levelz) Inflitation Practice (Level 1)	Biorefertion (Level 1)	Dry Swale (Level 1)	Ury Swale (Level.2) Wet Swale (Level.1)	Wet Swale (Level 2) Filtering Practice (Level 1)	Filtering Practice (Level 2) Constructed Wetlands (Level 1)	Constructed Wetlands (Level 2) Extended Detention Pond (Level 1) Extended Detention Pond (Level 1)	Extended Determine Form (Level 2) Wet Bond (Level 1)	Wet Poild Level Z.) Manufactured Treatment Device (MTD)(8)	Other Approved Types (List Type)
construction plan set for other such abcuments) for land disturbance (construction) activities that disturb an area equal to a greater than 10,000 square feet, or equal to or greater than 2,500 square feet in the area defined as Tidewater, Virginia in the Virginia Chesapeake Bay Preservation Act.	INSTALLED BMP_INFORMATION (VDOT_Owned/Operated).	Plan Sheet(s) Date BMP Type of BMP Installed Made Functional (See Table A and C)	N/A		A TERNATIVE RMP INFORMATION	Plan Sheet(s) Date Type of BMP Installed (See Table B)	N/A				Table A: Permanent BMP Types (1999 Va. SWM Handbook) Biocestantion Bosio	Bio-retention Filter	Constructed Stormwater Wetlands Extended Detention Basin	Extended Detention Basin Enhanced Cassed Swale Cassed Swale	Inititation Teach Infiltration Trench	Manufactured Treatment Device (MTD) (8)	Retention Basin I Retention Basin II	Retention Basin III Sand Filter	Vegetated Filter Strip Other Approved Types (List Type)	Detention Basin	Table B: Alternative BMP Types Comprehensive SWM Plan (Regional) Facility	Pollutant Loading Pro Rata Share Program Other Approved Options (List Type) (4)	





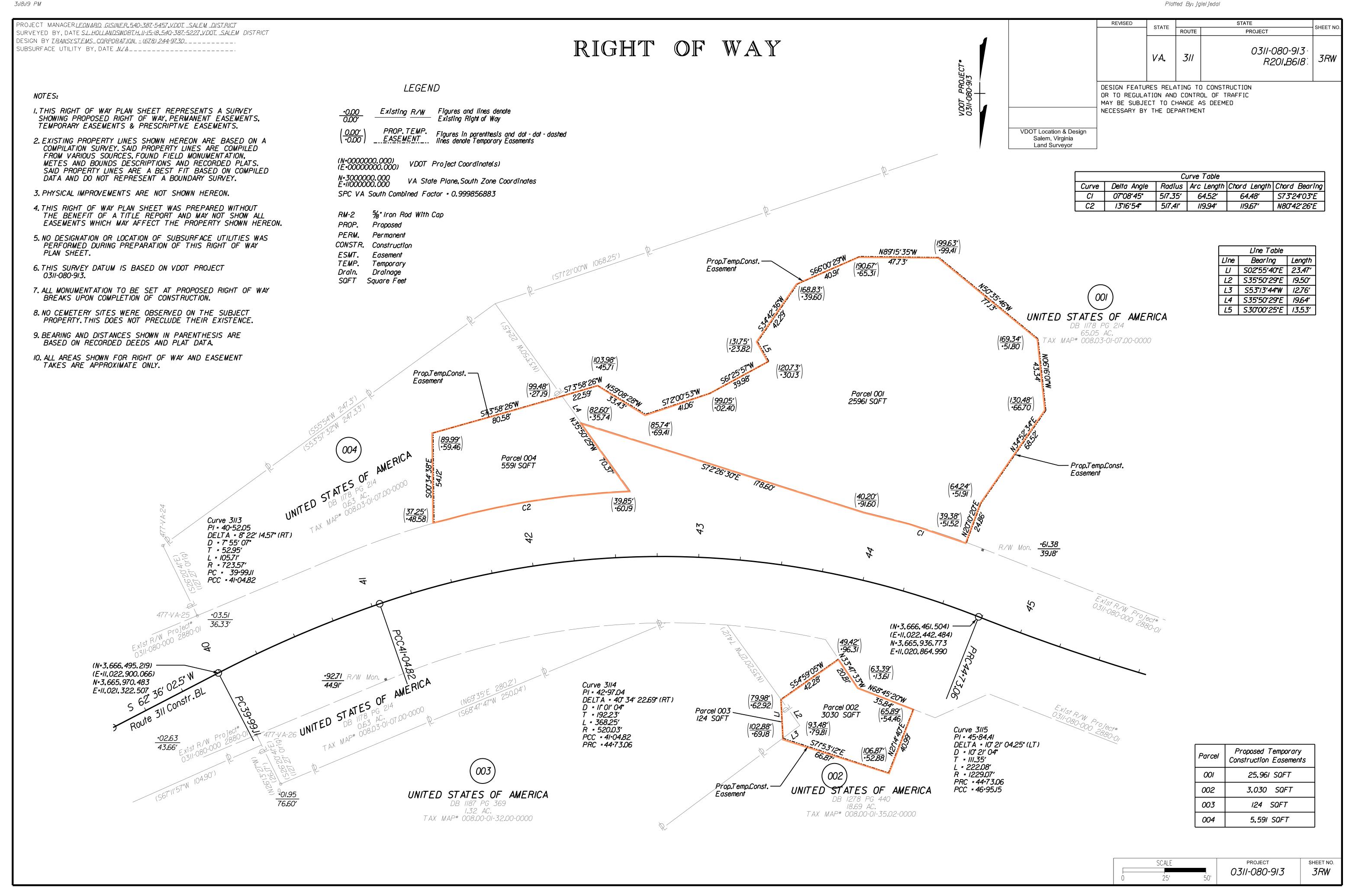


Exhibit C

ANST Plan for Inadvertent Discoveries

Exhibit C Appalachian National Scenic Trail Plan for Inadvertent Discoveries

The following plan outlines procedures to follow if archaeological materials or human remains are discovered while working on NPS lands.

What are cultural resources?

A cultural resource discovery could be prehistoric or historic. Examples include:

- An accumulation of shell, burned rocks, or other food related materials
- Bones or small pieces of bone,
- An area of charcoal or very dark stained soil with artifacts,
- Stone tools or waste flakes (i.e. an arrowhead, or stone chips),
- Clusters of glass, pottery, tin cans or bottles, logging or agricultural equipment
- Buried railroad tracks, decking, or other industrial materials
- Building foundations

When in doubt, assume the material is a cultural resource.

What do you do if you uncover a Cultural Resource?

Step 1: Stop work. If any employee, contractor or subcontractor believes that he or she has uncovered a cultural resource at any point in the project, all work adjacent to the discovery must stop. The discovery location should be secured at all times.

The area of work stoppage will be adequate to provide for the security, protection, and integrity of the cultural resource. The contractor or project leader will be responsible for taking appropriate steps to protect the discovery. At a minimum, the immediate area will be secured to a distance of fifty (50) feet from the discovery. Vehicles, equipment, and unauthorized personnel will not be permitted to traverse the discovery site.

All artifacts are property of the USA and should not be collected. Leave all cultural resources in place unless directed otherwise.

Step 2: Notify Park Staff. Immediately contact the Appalachian National Scenic Trail Superintendent at (304-535-6279), and Archaeologist Joel Dukes (office 978-970-5143; cell 617-429-4468). If they cannot be reached, contact Jim Von Haden, Integrated Resource Manager, at 304-535-4009. Then contact Park Law Enforcement Dispatch at 1-866-677-6677.

If the inadvertent discovery is made during projects without an Archaeological Monitor on site, notify the Park Staff listed above. They will then notify the Northeast Region Archaeology Program (NRAP) for guidance.

If the inadvertent discovery is made during a project with an Archaeological Monitor on site, the Monitor will notify Park Staff and NRAP. The monitor should then begin the documentation process so that consultation can begin.

Step 3: Follow Park Guidance. Park Staff will visit the site as soon as possible to evaluate the site and consult with NRAP to determine if work can resume or if the project must be halted until further notice. If an NPS approved Archeological Monitor is on site, they must be notified of any discoveries and can determine if a work stoppage is required and any other appropriate actions to take.

If human remains are found, all work in the area shall stop. Park Law Enforcement shall be notified to begin the determination if the remains are from a crime scene or are archaeological in nature. If archaeological in nature Park Staff shall notify the State Archaeologist and NRAP immediately so that consultation can begin.

Exhibit D

Fire Road Closure

