PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

GENERAL NOTES

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	2

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

GRADING

G-1 The grade line denotes top of finished pavement unless shown otherwise on typical sections or plans.

G-4 The cost of removal of all existing concrete items located in the area to be graded, including, but not limited to the following, shall be included in the price bid for regular excavation: curb and curb and gutter, sidewalk, existing drainage pipes and structures and miscellaneous concrete items.

G-5 The excavation of unsuitable material as specified on these plans is based on previously conducted subsurface soil investigation. If, during construction, it is deemed necessary to change the depth more than one foot, or the limits of such excavation, such change is to be made at the direction of the Engineer and measurement and payment shall be made in accordance with Section 303 of the applicable VDOT Road and Bridge Specifications.

G-6 The borrow material for this project shall be a minimum CBR 15 or as approved by the Materials Engineer.

DRAINAGE

D-1 The horizontal location of all drainage structures shown on these plans is approximate only, with the exception of structures showing specific stations, special design bridges and storm sewer systems.

D-2 The horizontal location and invert elevations shown for proposed culverts and storm sewer outfall pipes are based on existing survey data and required design criteria. If during construction, it is found that the horizontal location or invert elevations shown on the plans differ significantly from the horizontal location or elevations of the stream or swale in which the culvert or storm sewer outfall pipe is to be placed, the Engineer shall confer with, and get approval from, the applicable District Drainage Engineer before installing the culvert or storm sewer outfall pipe.

D-3 The "H" dimensions shown on plans for drop inlets and junction boxes and the "L.F." dimensions shown for manholes are for estimating purposes and are based on the proposed invert elevations shown for the structure and the anticipated top (rim) elevation based on existing or proposed finished grade. The actual "H" or "L.F." dimensions are to be determined by the contractor from field conditions.

D-6 Pipes shall conform to any of the allowable types shown on sheet number 1(12), within the applicable height of cover limitations. For strength, sheet thickness, or class designation available sizes: height of cover limitations and other restrictions for a particular pipe type or height of cover, see the VDOT Road and Bridge Standard PC-1. Structural plate pipe may be substituted for corrugated pipe of the same size, provided the substitution complies with the applicable sections of the VDOT Road and Bridge Standards PC-1.

D-13 Existing drainage facilities being utilized as a part of the drainage system, and designated on the plans "To Be Cleaned Out" shall be cleaned as directed by the Engineer. The cost incidental to this shall be included in the contract price for other items.

D-14 Proposed drop inlets with a height (H) less than the standard minimum shown in the VDOT Road and Bridge Standards shall be considered and paid for as Standard Drop Inlets for the type specified. Pipes with less than standard minimum finished height of cover shall be noted as such in the drainage description for the pipe. Specific pipe bedding and cover requirements are provided in the applicable PB-1 and PC-1 standard drawings of the VDOT Road and Bridge Standards.

D-16 When CG-6 or CG-7 is specified on a radius (such as at a street intersection), the Engineer may approve a decrease in the cross slope of the gutter to facilitate proper drainage.

PAVEMENT

P-2 The pavement materials on this project will be paid for on a tonnage basis. The weight will vary in accordance with the specific gravity of the aggregates and the asphaltic content of the mix actually used to secure the design depth. The weight of the asphalt concrete is based on 95% of the theoretical maximum density.

INCIDENTALS

I-4 All trees located within the US 17 Clear Zone or within a minimum of 30 feet of the edge of pavement, within the limits of the right of way or construction easement, unless otherwise noted on plans or directed by the Engineer, shall be removed, as provided for a Section 301 of the applicable VDOT Road and Bridge Specifications.

I-5 That portion of the right of way lying within the Reynolds Drive Clear Zone or within a minimum of 10 feet from the edge of pavement or surfacing or within the limits of the construction slopes beyond 10 feet, shall be cleared and grubbed in accordance with the applicable VDOT Road and Bridge Specifications, Section 301, where sufficient right of way or construction easement is provided.

I-9 When no centerline alignment is shown for a proposed entrance, the entrance shall be constructed in the same location as the existing entrance.

I-16 The "underground utilities" survey data on this project has been provided by consultant and copies are available from the Department.

I-17 For method of constructing Straight-Line Taper Lanes in curb and/or curb and gutter sections, see typical details on Sheet 2B.

I-18 All pavement markings and traffic flow arrows shown on the roadway construction plans are schematic only. The actual location and application of pavement markings shall be in accordance with Section 704 of the applicable VDOT Road and Bridge Specifications, MUTCD, sequence of construction/traffic control plans, pavement marking plan series 14 sheets and as directed by the Engineer.

I-19 The following outside sources, under contract with VDOT, have provided information on this project.

Utility Design	-	Michael Baker, Intl.
Utility Designation	-	Rice and Associates
Utility Location	-	Rice and Associates
Survey	-	Rice and Associates

If questions or problems arise during construction, please contact the Area Construction Engineer. DO NOT CONTACT THE OUTSIDE SOURCES.

I-20 The Official Electronic PDF Version of the plans will override the paper copies or prints of specific layers.

Portions of this plan assembly have been CADD generated. To assist in the preparation of the bid and construction of the project, Microstation format (.dgn) files will be made available to the prime contractor during bids and after award of the contract.

I-21 All electronic plan assemblies will include the construction plans in two formats: PDF files and MicroStation format (.dgn) files. Only the PDF files will be considered as part of the official plan assembly.

The MicroStation format (.dgn) files are furnished only as information for the contractor. These plans are developed in layers (levels) to aid in readability. (See the VDOT CADD Manual for CADD Level Structure). However, the construction items may or may not be in the proper layering scheme as described in the VDOT CADD Manual. The Microstation files will only match the scanned files if all required levels are turned on. A Microstation Software license is required to be able to read these files.

EROSION AND SEDIMENT CONTROL (ESC)

E-1 If the removal of Brush Silt Barrier is specified by the plans or required by the Engineer, the cost of removal and disposal of brush shall be in accordance with Section 109 of the applicable VDOT Road and Bridge Specifications.

E-2 Rock for Check Dams, Inlet Protection, Erosion Control Stone and Riprap shall be in accordance with Section 203 and Section 414 of the applicable VDOT Road and Bridge Specifications.

E-3 The following symbols are used to depict Erosion Control items in the plan assembly:

EC-2, Ty. 1 / EC-2, Ty. 2 / EC-2, Ty. 3 / EC-2, Ty. 4	Denotes Rolled Erosion Control Product, Temporary, St'd. EC-2 Type 1, 2, 3 or 4
EC-3, Ty. 1 / EC-3, Ty. 2 / EC-3, Ty. 3	Denotes Rolled Erosion Control Product, Permanent, St'd. EC-3 Type 1, 2 or 3
TSF-A / TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
TCD	Denotes Temporary Check Dam, St'd EC-16
TDC	Denotes Temporary Diversion Channel, St'd EC-12
DD	Denotes Temporary Diversion Dike, St'd EC-9
TC-I	Denotes Turbidity Curtain, Type - Impervious
TC-P	Denotes Turbidity Curtain, Type - Pervious
RCD-1	Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2	Denotes Rock Check Dam, Type II: St'd EC-4
IP-A	Denotes Inlet Protection, Type A: St'd EC-6
IP-B	Denotes Inlet Protection, Type B: St'd EC-6
IP-C	Denotes Inlet Protection, Type C: St'd EC-6
TSI	Denotes Slope Interrupter: St'd EC-15
LOD	Denotes Limit of Disturbance

E-4 Permanent vegetation shall be established on all denuded areas not otherwise stabilized with non-erodible materials. See the Roadside Development sheet for details on permanent vegetation establishment.

PROJECT	SHEET NO.
0669-046-682	2

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

REVISED	STATE	ROUTE	PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	2(A)1

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

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 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 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.

I certify 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I 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 VPDES Permit for Discharges of Stormwater from Construction Activities (VAR10) when applicable. Where the SWPPP documents are not stored on-site, a copy of such documents shall be 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:_____

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

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
IIM - Instructional and Informational Memorandum
R&B - Road and Bridge
RLD - Responsible Land Disturber
AS&S - Annual Standards and Specifications
ACE - Area Construction Engineer
DHE - District Hydralic Engineer
SWPPP - Stormwater Pollution Prevention Plan
TMDL - Total Maximum Daily Load
VDOT - 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
CGP - Construction General Permit
NPDES - National Pollutant Discharge Elimination System

SECTION I GENERAL INFORMATION

1. Activity Description - The proposed Nike Park Road Extension project will consist of constructing the first phase of a new approximately one-mile, two-lane collector roadway that will also include the construction of a multi-use path that will run parallel to the new facility.

2. This land disturbance (construction) activity site is located in Isle of Wight and approximately 12.19 acres will be disturbed by excavation, grading or other construction activities.

3. (Include one of the following notes as appropriate)

A. This proposed activity disturbs one acre or greater and requires coverage under the VPDES General Permit for Discharges Of Stormwater from Construction Activities (the VPDES Construction Permit) as issued by the DEQ. A copy of the VPDES Construction Permit (VAR10), the registration information (LD-445 & LD-445C forms) and the permit coverage letter received from DEQ shall be maintained with other SWPPP documents for this land disturbing activity.

** 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 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, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

** 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 of the Construction General Permit coverage letter: (List VPDES Permit * or Letter from VSMP Authority stating coverage not needed)

6. List the surface waters that have been identified as Impaired in the DEQ 2016 305(b)/303(d) Water Quality Assessment Integrated Report. These pollutants are considered benthic impairments: None
https://vadeq.maps.arcgis.com/apps/webappviewer/index.html?id=227927eefaf64c47853c081760077216
*** These surface waters have been identified as impaired in the DEQ 2016 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:None
https://vadeq.maps.arcgis.com/apps/webappviewer/index.html?id=227927eefaf64c47853c081760077216

Does this proposed land-disturbing activity discharge to a surface water identified as impaired or for which a TMDL wasteload allocation has been established and approved prior to the term of the general permit for (i) sediment or a sediment-related parameter or (ii) nutrients? Yes, Chesapeake Bay TMDL (nitrogen, phosphorous, and total suspended solids) If YES, then the following general permit (Part I B 4 a) and SWPPP requirements (Part II B 5) must be implemented for the land-disturbing activity:
1) Permanent or temporary soil stabilization shall be applied to denuded areas within seven (7) days after final grade is reached on any portion of the site.
2) Temporary and permanent stabilization will be applied as noted and in accordance with ESC Minimum Standards 1 and 3.
3) Nutrients (e.g., fertilizers) shall be applied in accordance with manufacturers recommendations or an approved nutrient management plan and shall not be applied during rainfall events: Nutrients are being applied per the projects Roadside Development sheet (2P).
4) Inspections shall be conducted at a frequency of (i) at least once every four (4) business days or (ii) at least once every (5) business days and no later than 24 hours following a measurable storm event. In the event that a measurable storm event occurs when there are more than 24 hours between business days, the inspection shall be conducted on the next business day; and Inspections are being completed at least every four (4) business days (C-107s are completed on Mondays and Thursdays) Representative inspections used by utility line installation, pipeline construction, or other similar linear construction activities shall inspect all outfalls. N/A Representative inspections are not conducted.

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: N/A
For statewide listings, go to VA Code here:
https://law.lis.virginia.gov/admincode/title9/agency25/chapter260/section30/

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. Unnamed tributaties to Titus Creek and Ragged Island Creek

10. The ESC and SWM plans (where applicable) for this land disturbance (construction) activity have been developed in accordance with VDOT's 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 General Information 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):

Name	Position	Responsibility
	RLD	Certify the SWPPP (with date & sig.)
	Certified Inspector	Sign (C-107) Inspection Form Part 1
	Certified Inspector	Sign (C-107) Inspection Form Part 2

* 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 as identified on these SWPPP General Information Sheets. The names will be updated and maintained with the other SWPPP documents for this land disturbance activity.

VDOT Individuals	Position	Responsibility
Jennifer Dail	NPDES	NPDES coordinator responsible for the oversight inspection in accordance with IIM-LD-256
Mesfin Alesa	Dist. Hyd. Engineer	District Hydraulic Engineer or designee(s) responsible for the review & the coordination approval of ESC SWM plan modification(s).

* 13. The ESC and P2 inspections for this land disturbing (construction) activity shall follow (Select Schedule 1 or 2, if schedule *2 is used, void note *14) 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.

** 14. The location of the on-site rain gage that will be used to determine the occurrence of a 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).

The rain gage shall be observed daily at "_____" to determine the occurrence of a measurable storm event (i.e., 0.25 inches of rainfall or greater in a 24 hour period). A log book shall be maintained to record observation information which shall include (1) the date, (2) the time, (3) whether or not rainfall is occurring at the time of the observation, (4) the amount of accumulated rainfall in the gage, if any, and (5) whether or not an inspection is required based on the amount of accumulated rainfall in the gage.
If there is no rainfall occurring at the time of the observation, the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the rain gage.
If there is rainfall occurring at the time of the observation, the observation information is to be noted in the log book. The rain gage is not to be emptied but left to accumulate additional rainfall until the conclusion of the rainfall event. At the conclusion of the rainfall event, an observation of the rain gage shall be made and the observation information shall be noted in the log book and the rain gage emptied and replaced. An inspection is required if there is 0.25 inches or more accumulation noted in the 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 S.F. 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, SWM, or SWPPP.
VDOT LD-445D: Permitted projects, CBPA projects and Non-permitted, Non-CBPA with BMP projects that have a water quantity BMP.
VDOT LD-445F: Emergency work projects (when applicable)
VDOT LD-445H: Permitted projects only.
VDOT C-107 Part I and Part II (Only for Permitted Projects). All projects that require a permit or SWPPP.
VDOT LD-445I: AS&S Approval Form (when applicable)

16. If there is an excessive discharge 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 shall investigate the area of concern at the site within 24 hours of discovery and ensure all erosion and sediment control best management practices are being implemented in accordance with the permits and 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.

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

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

Revised 7/1/23
SWPPP Sheet 1 of 4

	PROJECT	SHEET NO.
	0669-046-682	2A(1)

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates, (757) 306-4260 1/1/17 _ _

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	2(A)2

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

SECTION II EROSION AND SEDIMENT CONTROL

✻✻ 1. The intended sequence and timing of activities that disturb soils at the site (e.g., grubbing, excavation, grading, utilities and infrastructure installation, etc.) shall be provided by the contractor in accordance with the current edition of Section 108.03 of the 2020 VDOT R&B Specifications and shall be included with the other SWPPP documents for this land disturbance (construction) activity.

2. Directions of stormwater flow and approximate slopes anticipated after major grading activities are identified in the construction plan set (or other such documents) 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.

4. Locations of major structural and nonstructural ESC measures intended to filter, settle or similarly remove sediment are identified in the construction plan set (or other such documents) for this land disturbance (construction) activity.

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.

✻✻ 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 measures are initiated will be provided by the contractor and maintained with the record set of plans or other SWPPP 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, 303.02 and 303.03 of the 2020 VDOT R&B Specifications.

9. Nutrients shall be applied in accordance with the current edition of Sections 603, 604 and 605 of the 2020 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 2020 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 Central Office Hydraulics Section and will be made available for review upon request during normal business hours.

11. The temporary erosion and siltation control items 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 control items 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 shall be retained on the project site and made available upon request during normal business 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 installed prior to any grubbing operations or other earth moving activities.

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, sod, mulching, and/or soil stabilization blankets and matting in conjunction with seeding.

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 to minimize erosion.
- b. Control the peak flow rates, volume and velocity of stormwater discharges to minimize erosion 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 natural buffers 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.

✻✻ 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 all locations 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 variances, exceptions, deviations and include a brief description of the variance, the date approved and the approving DEQ Office).

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

(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.
(4) Description and request

SECTION III POST CONSTRUCTION STORMWATER MANAGEMENT

Choose the appropriate note 1A or 1B that is applicable to the proposed post construction SWM Plan for this land disturbance (construction) activity. (Delete, strikethrough or mark as NA those notes not applicable.)

1. (Include one of the following notes as appropriate)

✻ B. This land disturbance activity utilizes the Part IIB technical criteria (i.e., Runoff Reduction Method, Energy Balance Equation, etc.) in Section 9VAC25-870-65 et seq. of the VSMP Regulations.

2. An exception for (number) pounds of phosphorus removal has been granted for this land disturbance activity by the DEQ in its letter dated (date).

3. 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 activity: (list all approved variances, exceptions/deviations and include a brief description, the date approved and the approving DEQ Office)

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

(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 that variance/exception/deviation was approved by DEQ.
(4) Description of request

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.

5. A description of all post-construction stormwater management measures that will be installed during the construction process to control pollutants in stormwater discharges after construction operations have been completed is included in the construction plan set (or other such documents) for this land disturbance (construction) activity.

6. All engineering calculations supporting the design of the post-construction stormwater management measures for this land disturbance (construction) activity, including an explanation of the technical basis used to select the practices, are contained in the project drainage file located in the VDOT Central Office Hydraulics Section and will be made available for review upon request during normal 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
IIM - Instructional and Informational Memorandum
R&B - Road and Bridge
RLD - Responsible Land Disturber
AS&S - Annual Standards and Specifications
ACE - Area onstruction Engineer
DHE - District Hydralic Engineer
SWPPP - Stormwater Pollution Prevention Plan
TMDL - Total Maximum Daily Load
VDOT - 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
CGP - Construction General Permit
NPDES - National Pollutant Discharge Elimination System

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

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

Revised 7/1/23
SWPPP Sheet 2 of 4

PROJECT	SHEET NO.
0669-046-682	2A(2)

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	2(A)3

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

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 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.

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 (or other such documents), the ESC Plan, the Pollution Prevention 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 Construction Permit coverage letter (when applicable) and 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 for this land disturbance (construction) activity. Where no facilities are available at the activity site to maintain the 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.

** 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 2020 VDOT Road and Bridge Specifications. The SWPPP for 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, sanitary waste facilities and any other areas that may generate a stormwater or non-stormwater discharge directly related to the construction site.

4. For those land disturbing (construction) activities requiring coverage under the VPDES Construction Permit, the SWPPP shall be 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 General Permit coverage letter and a copy of a completed LD-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 public and shall be scheduled during normal business hours and no less than once per month.

SECTION V - POLLUTION PREVENTION PLAN

1. The following non-stormwater discharges from this land disturbing (construction) activity and any on-site support facilities are prohibited:
   a. Wastewater from concrete washouts.
   b. 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.
   d. Oils, toxic substances or hazardous substances from spills or other releases.
   e. Soaps, solvents or detergents used in equipment and vehicle washing.
   f. There shall be no discharge of floating solids or visible foam in other than trace amounts

2. 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.
   c. 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 control dust 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. Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (or 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.
   h. Uncontaminated air conditioning or compressor condensate.
   i. Uncontaminated ground water or spring water.
   j. Foundation or footing drains where flows are not contaminated with process materials such as solvents.
   k. Uncontaminated excavation dewatering, including dewatering trenches and excavations that have been filtered, settled or similarly treated prior to discharge.
   l. Landscape irrigation.

** 3. The contractor shall develop a Pollution Prevention Plan to address any of his on-site 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 Plan shall be developed in accordance with, but not limited to, Sections 106.08, 107.02 and 107.16 of the 2020 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. Identify the potential pollutant-generating activities and the pollutant that is expected 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 set of plans.
   c. Identify all non-stormwater discharges, as described in note two of this section, that are or will be commingled 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, and other releases in accordance with Section 107.16 of the 2020 VDOT Road and Bridge Specifications and the requirements within the VPDES Construction Permit.
      2) Prevent the discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities.
      3) 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.
      4) Minimize the discharge of pollutants from vehicle and equipment washing, wheel wash water, and other types of washing.
      5) 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.
      6) 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.
      7) Prevent the discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, waste concrete and sanitary wastes.
      8) Address any other discharge from any potential pollutant-generating activity not listed herein.
      9) 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.
      10) 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.

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

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

Revised 7/1/23
SWPPP Sheet 3 of 4

PROJECT	SHEET NO.
0669-046-682	2A(3)

11/6/2023
10:53:07 PM

d1093142o4.dgn
Plotted By: vdotpwiics01#

PROJECT MANAGER _Wail Zamou, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _____
DESIGN BY _Jason, Henry, P.E. (804) 786-5975 (Central Office)_ _____
SUBSURFACE UTILITY BY, DATE _ Rice Associates, (757) 306-4260 1/1/17 _

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	2(A)4

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

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL INFORMATION SHEET

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, 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 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.

SECTION VI - PERMANENT BMP INFORMATION △

✱ Denotes information that is to be completed by the RLD.
( ) See note referenced by number in parentheses.

INSTALLED BMP INFORMATION
(VDOT Owned/Operated)

Plan Sheet(s)	Date BMP Made Functional	Type of BMP Installed (See Table A and C)	Geographic Location (County or City)	Latitude/Longitude (1) LAT	Latitude/Longitude (1) LONG	VA 6th Order HUC (7)	Receiving Water (2)	Name of Impaired Water (9)	Acres Treated Per BMP (3) Impervious	Acres Treated Per BMP (3) Pervious	Acres Treated Per BMP (3) TOTAL	✱ BMP Maintenance ID Number (10)	BMP Maintenance Manual (11) SECTION	BMP Inspection Manual (11) SECTION
Sheet 4E		Water Quantity Check Dam	Isle of Wight	36° 57'1.66"N	76° 33'2.31"W	JL41	Pagan River- Jones Creek	N/A	0.20	0.30	0.50		6.1.2	IV. E.
Sheet 4 (2 structures, North of Nike)		Section D Level Spreader	Isle of Wight	36° 57'1.88"N	76° 32'56.54"W	JL41	Pagan River- Jones Creek	N/A	0.21	0.0	0.21		6.1.2	IV. E.
Sheet 6 (3 structures, North of Nike)		Section D Level Spreader	Isle of Wight	36° 56'55.96"N	76° 32'47.35"W	JL41	Pagan River- Jones Creek	N/A	0.56	0.0	0.56		6.1.2	IV. E.
Sheet 7 (2 structures, North and South of Nike)		Section D Level Spreader	Isle of Wight	36° 56'55.00"N	76° 32'38.38"W	JL41	Pagan River- Jones Creek	N/A	0.18	0.0	0.18		6.1.2	IV. E.
Sheet 7 (1 structure)		Section D Level Spreader	Isle of Wight	36° 56'54.40"N	76° 32'34.69"W	JL41	Pagan River- Jones Creek	N/A	0.14	0.0	0.14		6.1.2	IV. E.
Sheet 8 & 9 (7 structures North & South of Nike)		Section D Level Spreader	Isle of Wight	36° 56'49.11"N	76° 32'28.03"W	JL43	James River- Cooper Creek	N/A	0.56	0.0	0.56		6.1.2	IV. E.
Sheet 9 (1 structure)		Section D Level Spreader	Isle of Wight	36° 56'54.40"N	76° 32'34.69"W	JL43	James River- Cooper Creek	N/A	0.03	0.0	0.03		6.1.2	IV. E.
Sheet 10 (2 structures, North of Nike)		Section D Level Spreader	Isle of Wight	36° 56'40.79"N	76° 32'23.06"W	JL43	Pagan River- Jones Creek	N/A	0.38	0.0	0.38		6.1.2	IV. E.

ALTERNATIVE BMP INFORMATION

Plan Sheet(s)	Date	Type of BMP Installed (See Table B)	Geographic Location (County or City) (5)	Latitude/Longitude (1) (5) LAT	Latitude/Longitude (1) (5) LONG	VA 6th Order HUC (5) (7)	Receiving Water (2)	Name of Impaired Water (9)	Perpetual Nutrient Credits Acquired for Project: Name of Nutrient Credit Generating Entity (6)	Perpetual Nutrient Credits Acquired for Project: Nutrient Credits (lbs./TP./year) Acquired (6) (12)
N/A	N/A	Purchase of Nutrient Credits	Isle of Wight	N/A	N/A	JL41 and JL43	Pagan River- Jones Creek Ragged Island Creek/ James River	N/A		9.31

△ Any changes to the proposed SWM Plan or BMPs necessitated during the construction phase of the project that affects the proposed construction details or potentially affects the information shown in the BMP Tables A and/or B shall be 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 be completed in accordance with the Road Design Manual and the Construction Division IIM-CD-2013-12.01, signed and sealed in accordance with Department's sealing and signing policy IIM-LD-243 and filed with the construction record drawings maintained in the VDOT Central Office Plan File Room (ProjectWise). Prior to submitting for termination of coverage under the VPDES General Permit for the Discharge of Stormwater from Construction activities, the RLD shall have the District Maintenance Division (Infrastrcture Manager) along with the ACE, DHE, and the NPDES coordinator review the BMPs installed with the project for acceptance 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 BMP became functional as a permanent control measure (for BMPs in Table A only) to complete the LD-445D form when certifying the construction of the BMPs and submitting for termination of coverage under the VPDES General Permit For The Discharge Of Stormwater From Construction Activities.

Table A: Permanent BMP Types (1999 Va. SWM Handbook)
Bio-retention Basin
Bio-retention Filter
Constructed Stormwater Wetlands
Extended Detention Basin
Extended Detention Basin Enhanced
Grassed Swale
Infiltration Basin
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)

Table C: Permanent BMP Types (BMP Clearing House)
Sheet Flow to Vegetated Filter Strip (Level Spreader)
Grass Channel
Soil Compost Amendment
Permeable Pavement (Level 1)
Permeable Pavement (Level 2)
Infiltration Practice (Level 1)
Infiltration Practice (Level 2)
Bioretention (Level 1)
Bioretention (Level 2)
Dry Swale (Level 1)
Dry 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 2)
Wet Pond (Level 1)
Wet Pond (Level 2)
Manufactured Treatment Device (MTD)(8)
Other Approved Types (List Type)

NOTES:
(1) In decimal degrees to the nearest one ten-thousandth of a degree.

(2) For streams with no names, list "(Unnamed Tributary to downstream name)".

(3) Show acres treated to the nearest one hundreths acre.

(4) Include agreements with off-site BMP owners.

(5) Information pertains to the alternative BMP option location, where applicable. Exception - Not required for nutrient credit purchase option.

(6) Applies to the purchase of nutrient credits only.

(7) Virginia 6th Order HUC (VAHU6) Example - YO30.

(8) Final approved shop drawings of Manufactured Treatment Devices (MTDs) are to be included with the BMP information submitted with the LD-445D form.

(9) List the name of any impaired water to which the BMP discharges. The determination of impaired water shall be based on those streams listed as impaired in the DEQ 2016 305(b)/303(d) Water Quality Assessment Integrated Report and shall be the first named waterbody to which the BMP discharges. The impaired waters are those impaired by sediment, total suspended solids, turbidity, nitrogen or phosphorus.

(10) BMP Maintenance ID Number is 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 and entered by the area construction engineer under this column, per IIM-LD-195.

(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/ business/manuals in the Maintenance selections. Example: Section 4 would be noted for both the maintenance and inspection manuals for a Bioretention I nfiltration BMP.

(12) Nutrient credits purchased to the nearest one hundredth pound.

(13) If levelspreader is utilized as part of sheetflow to vegetative filter strip, report under that BMP type Table C.

(14) If several level spreaders are in close proximity, they may be combined for recording purposes; however each level spreader shall have individual lat/longs reported.

Revised 7/1/23
SWPPP Sheet 4 of 4

	PROJECT	SHEET NO.
	0669-046-682	2A(4)

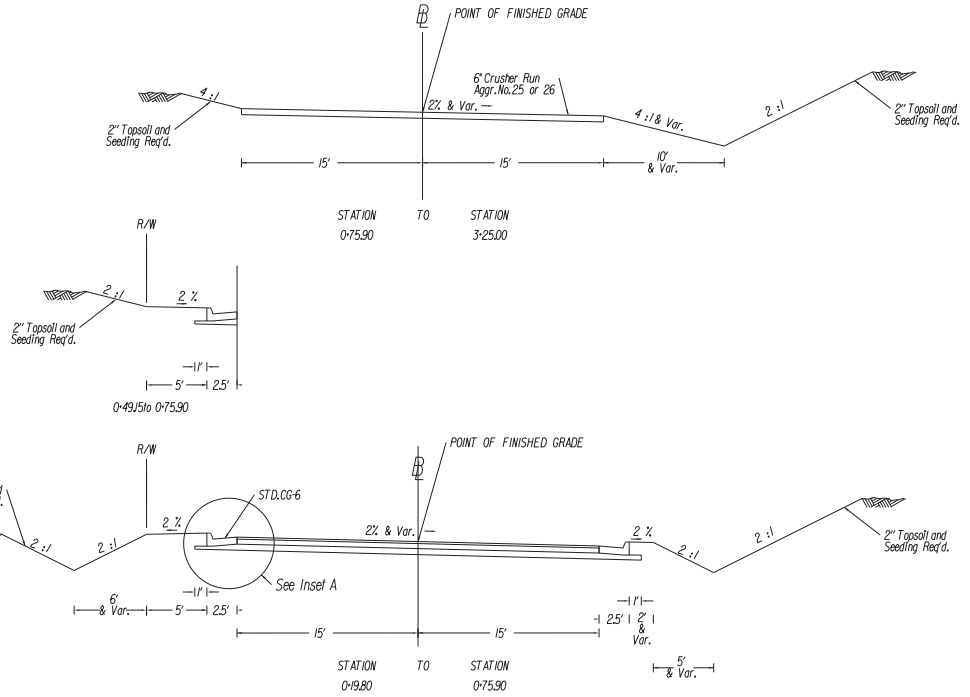
10/27/2023
5:41:33 PM

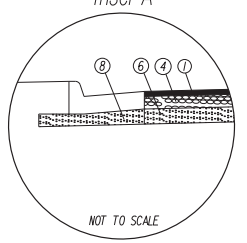
d1093402b.dgn
Plotted By: vdotpwilcs01#

PROJECT MANAGER _Wail Zamzam, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

TYPICAL SECTIONS

59+50 LEFT ENTRANCE





(1) Asphalt Concrete Type SM-12.5A @ 220 Lbs. per Sq.Yd.

(4) 5" Asphalt Concrete Type BM-25.0A

(6) 6" Aggregate Base Material, Type I, No. 21B

(8) Var. Aggregate Base Material, Type I, No. 21B

JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA
Jason L Henry
2023.10.27 13:48:30-04'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

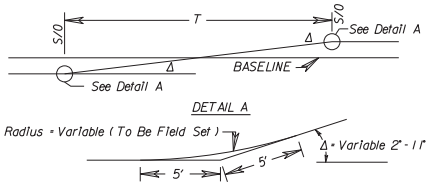
MD MOSTAQUR RAHMAN
Lic. No. 064612
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA
Md Mostaqur Rahman
2023.10.30 11:31:23-04'00'
VDOT Materials
Suffolk, Virginia
MATERIALS ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	2B

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

TYPICAL STRAIGHT - LINE TAPER LANE

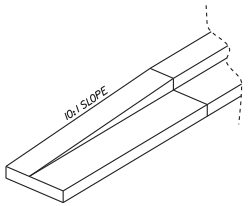
(Use with Curbs and/or Curb & Gutters)



T - See plans for Length of T.

S/O - See plans for Stations and Offsets.

Curb & Gutter Taper & Transitions



Note: To be used right of traffic.

Pay Items: To be paid for in L.F. of curb and gutter.

Curb and gutter type (CG-6 to CG-7) transition to occur over a minimum of 10' and at the discretion of the Engineer.

PRIVATE AND COMMERCIAL ENTRANCES

TYPE I
Crusher Run Aggr.

6" Crusher Run Aggr. No. 25 or 26

TYPE II
Concrete

Concrete Entrance Pavement
7" HES
4" Aggr. Base Mat'l. Ty. I No. 21B

NOT TO SCALE

TYPE III
Asphalt

Asphalt Conc. Type SM-9.5D @ 220 Lbs. per S.Y.
6" Aggr. Base Mat'l. Ty. I No. 21B

TYPE IV
Asphalt Commercial

Asphalt Conc. Type SM-9.5D @ 165 Lbs. per S.Y.
4" Asphalt Conc. Base Course BM-25.0A
6" Aggr. Base Mat'l. Ty. I No. 21B

The type of entrance (I, II, III, IV) to be constructed will be determined by the existing condition at the time of construction.

PROJECT	SHEET NO.
0669-046-682	2B

12/26/2023
7:40:07 PM

d1093402c.dgn
Plotted By:vdotpwillcs01#

PROJECT MANAGER _Wail Zamzam, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

TYPICAL SECTIONS

NIKE PARK ROAD (Rte. 669)

JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

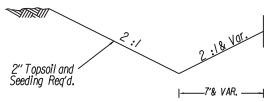
Jason L Henry
2023.12.26 14:50:43-05'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

MD MOSTAQUR RAHMAN
Lic. No. 064612
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

Md Mostaqur Rahman
2024.01.03 09:50:56-05'00'
VDOT Materials
Suffolk, Virginia
MATERIALS ENGINEER

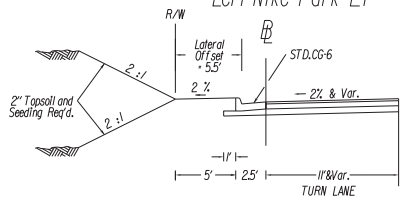
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201,C-501	2C

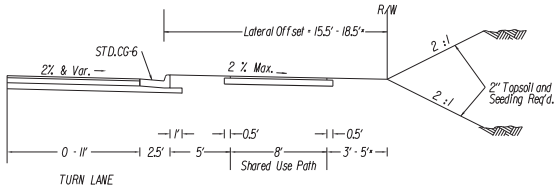
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

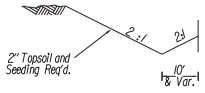


57+25.00 to 62+78.00

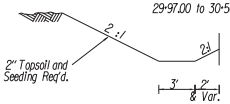
Left Nike Park EP



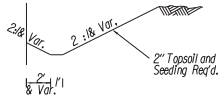




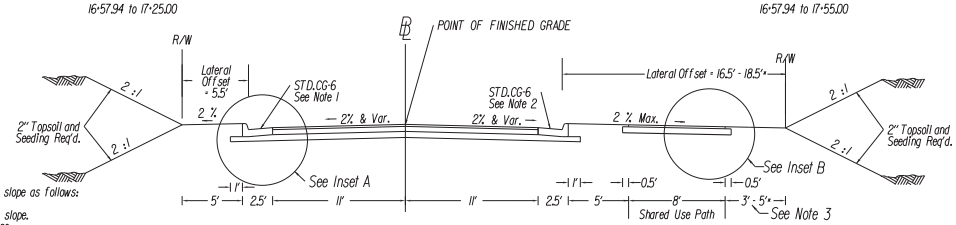
29+97.00 to 30+50.00



16+57.94 to 17+25.00



16+57.94 to 17+55.00



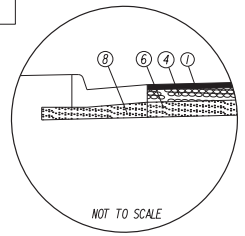
STATION 16+57.94 TO STATION 62+94.83

Note 1:
Gutter pan to be transition to match mainline cross slope as follows:
37+33.21 to 37+58.21 transition to 4%.
37+58.21 to 46+37.12 gutter to match mainline cross slope.
46+37.12 to 46+62.12 transition to typical gutter slope.

Note 2:
Gutter pan to be transition to match mainline cross slope as follows:
18+74.46 to 18+99.49 transition to 4%.
18+99.49 to 27+46.76 gutter to match mainline cross slope.
27+46.76 to 27+71.76 transition to typical gutter slope.

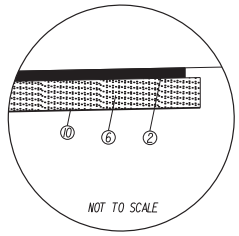
51+76.52 to 52+01.52 transition to 4%.
52+01.52 to 60+40.00 gutter to match mainline cross slope.
60+40.00 to 60+65.00 transition to typical gutter slope.

Inset A

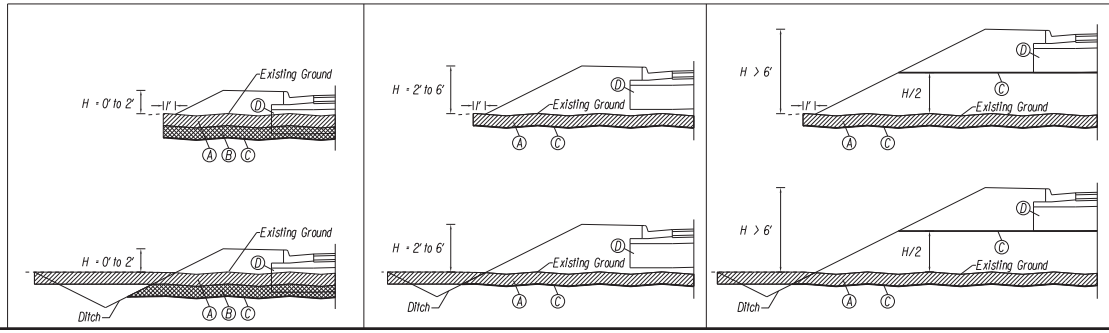


(1) Asphalt Concrete Type SM-12.5A @ 220 Lbs.per Sq.Yd.
(4) 5" Asphalt Concrete Type BM-25.0A
(6) 6" Aggregate Base Material,Type I,No.21B
(8) Var.Aggregate Base Material,Type I,No.21B

Inset B



(2) Asphalt Concrete Type SM-9.5A @ 220 Lbs.per Sq.Yd.
(6) 6" Aggregate Base Material,Type I,No.21B
(10) Geotextile Subgrade Stabilization Fabric



Nike Park Road Stabilization

Detail applies to full width of Nike Park typical section Sta.16+72.00 to Sta.62+19.21

(A) 12" Topsoil/Rootmat Removal. Approved Borrow minimum CBR 15 Req'd.
(B) 12" Excavation. Approved Borrow min.CBR 15 Req'd.
(C) Geotextile Embankment Stabilization
(D) 24" Approved Borrow minimum CBR 15.

H = Height of fill to existing ground. Not to scale.

Note 3 Shared Use Path Transition Table			
Begin Width	End Width	Begin Station	End Station
3'	5'	28+75	28+85
5'	5'	28+85	29+45
5'	3'	29+45	29+55
3'	5'	29+60	29+70
5'	5'	29+70	32+05
5'	3'	32+05	32+15
3'	5'	39+10	39+20
5'	5'	39+20	41+20
5'	3'	41+20	41+30

PROJECT	SHEET NO.
0669-046-682	2C

10/27/2023
5:41:31 PM

d1093402d.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

TYPICAL SECTIONS

REYNOLDS DRIVE (Rte. 665)

JASON L. HENRY
Lic. No. 040658
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:47:03-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

MD MOSTAQUR RAHMAN
Lic. No. 064612
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Md Mostaqur Rahman
2023.10.30 11:34:16-04'00'

VDOT Materials
Suffolk, Virginia
MATERIALS ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	2D

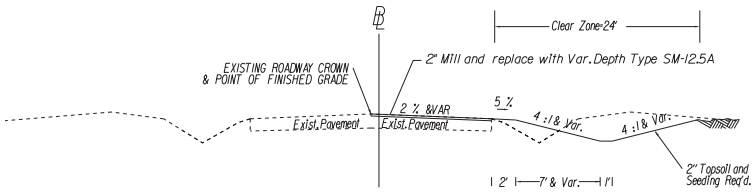
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

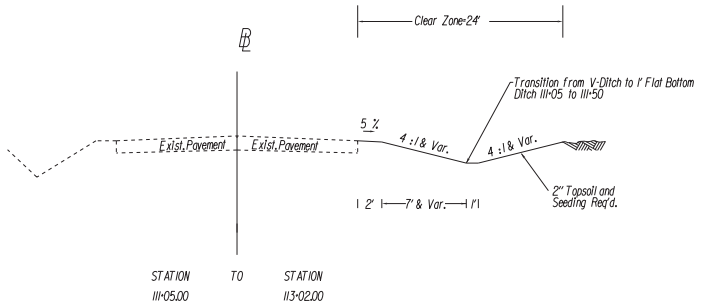


116+73.32 to 117+70.00

SEE NIKE PARK ROAD (Rte. 669) TYPICAL SECTIONS

114+71.23 to 116+73.32





	PROJECT	SHEET NO.
	0669-046-682	2D

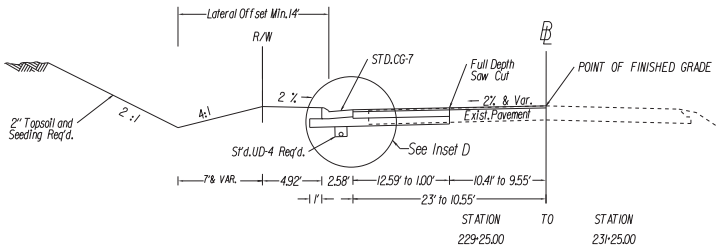
10/27/2023
5:41:34 PM

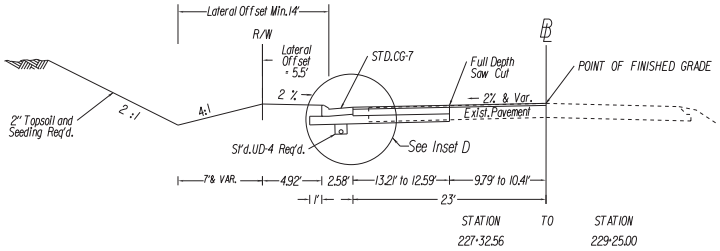
d1093402el.dgn
Plotted By: vdotpwilliamsj01

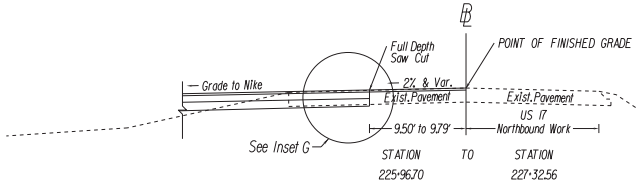
PROJECT MANAGER _Wail Zamzam, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _____
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _____
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _

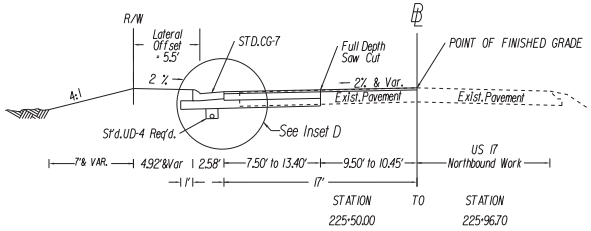
TYPICAL SECTIONS

ROUTE 17 SOUTHBOUND









REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	2E(1)

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

COMMONWEALTH OF VIRGINIA — JASON L. HENRY, Lic. No. 040658 — PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:48:14-04'00'

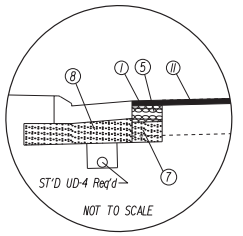
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA — MD MOSTAQUR RAHMAN, Lic. No. 064612 — PROFESSIONAL ENGINEER

Md Mostaqur Rahman
2023.10.30 11:35:23-04'00'

VDOT Materials
Suffolk, Virginia
MATERIALS ENGINEER

Inset D



(I) Asphalt Concrete Type SM-12.5A @ 220 Lbs. per Sq. Yd.

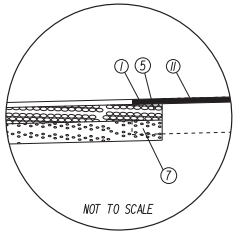
(II) 2" Mill and replace with Asphalt Concrete Type SM-12.5A @ 220 Lbs per Sq. Syd.

(5) 6.5" Asphalt Concrete Type BM-25.0A

(7) 8" Aggregate Base Material, Type I, No. 21B

(8) Var. Aggregate Base Material, Type I, No. 21B

Inset G



(I) Asphalt Concrete Type SM-12.5A @ 220 Lbs. per Sq. Yd.

(II) 2" Mill and replace with Asphalt Concrete Type SM-12.5A @ 220 Lbs per Sq. Syd.

(5) 6.5" Asphalt Concrete Type BM-25.0A

(7) 8" Aggregate Base Material, Type I, No. 21B

	PROJECT	SHEET NO.
	0669-046-682	2E(1)

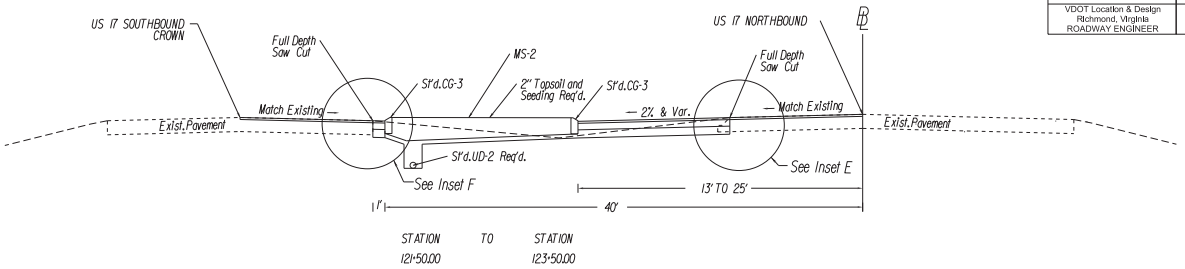
10/27/2023
5:41:16 PM

d1093402e2.dgn
Plotted By: vdotpwilcs01#

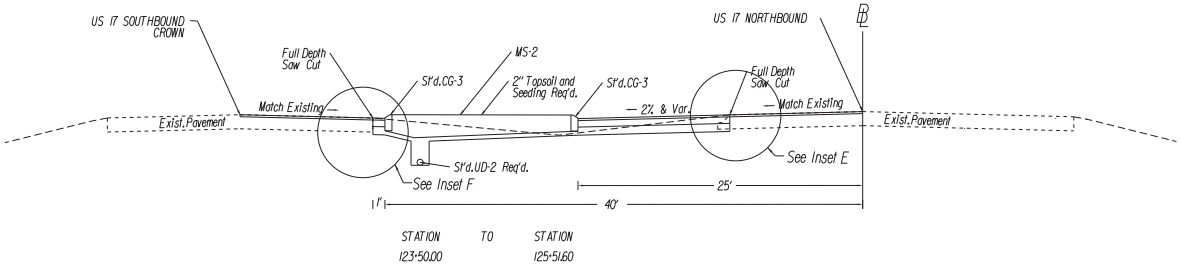
PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 10/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 10/17 _ _

TYPICAL SECTIONS

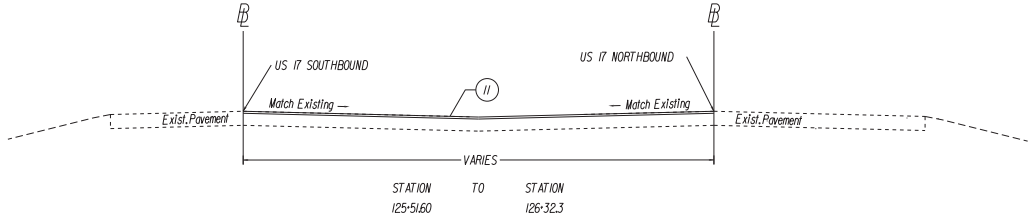
ROUTE 17 NORTHBOUND



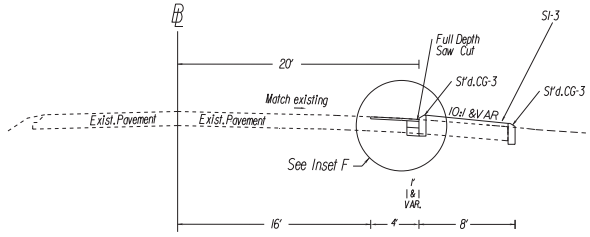
STATION	TO	STATION
121+50.00		123+50.00



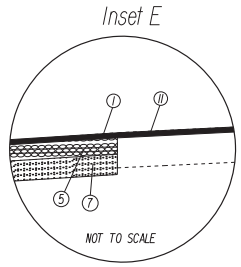
STATION	TO	STATION
123+50.00		125+51.60



STATION	TO	STATION
125+51.60		126+32.3



126+00.00 to 126+61.69

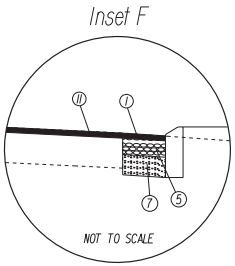


(I) Asphalt Concrete Type SM-12.5A @ 220 Lbs.per Sq.Yd.

(II) 2" Mill and replace with Asphalt Concrete Type SM-12.5A @ 220 Lbs per Sq.Syd.

(5) 6.5" Asphalt Concrete Type BM-25.0A

(7) 8" Aggregate Base Material,Type I, No. 21B



(I) Asphalt Concrete Type SM-12.5A @ 220 Lbs.per Sq.Yd.

(II) 2" Mill and replace with Asphalt Concrete Type SM-12.5A @ 220 Lbs per Sq.Syd.

(5) 6.5" Asphalt Concrete Type BM-25.0A

(7) 8" Aggregate Base Material,Type I, No. 21B

COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:47:17-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA
MD MOSTAQUR RAHMAN
Lic. No. 064612
PROFESSIONAL ENGINEER

Md Mostaqur Rahman
2023.10.30 11:36:42-04'00'

VDOT Materials
Suffolk, Virginia
MATERIALS ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	2E(2)

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

	PROJECT	SHEET NO.
	0669-046-682	2E(2)

9/29/2023
4:51:09 PM

d1093140201.dgn
Plotted By: vdotpwillcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

DRAINAGE DETAIL SHEET 1

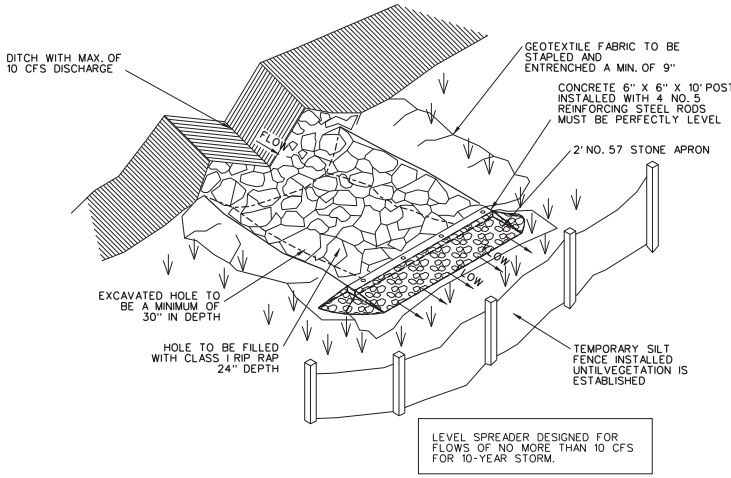
COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 12:39:40-04'00'

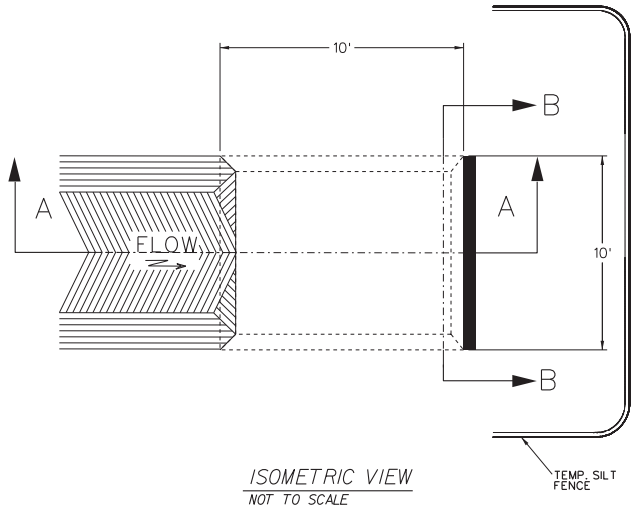
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	2F(1)

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



LEVEL SPREADER ISOMETRIC VIEW
NOT TO SCALE

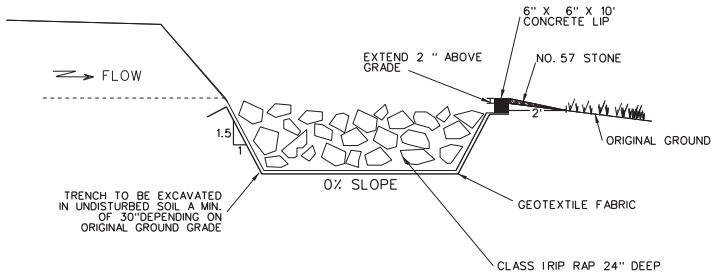


ISOMETRIC VIEW
NOT TO SCALE

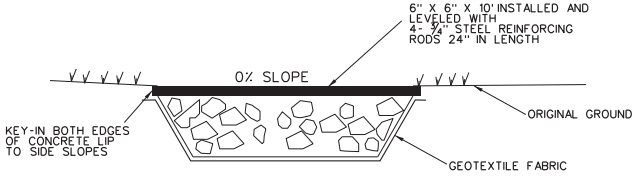
LEVEL SPREADER SUMMARY (FOR INFORMATION ONLY. ALL ITEMS INCLUDED UNDER NS DRAINAGE FEATURE -LEVEL SPREADER WITH UNIT OF EACH IN DRAINAGE SUMMARY)

	*SWM Basin Excavation	*EROSION CONTROL STONE STD EC-CLASS I	*STD CURB CG-2	*GEOTEXTILE DRAINAGE FABRIC	BEDDING MAT'L AGGR. NO. 57	
	CY	TON	LF	SF	TON	
Total per EACH	8	5	10	20	1	

* NOT A PAY ITEM, INCLUDED IN THE LUMP SUM COST OF NS DRAINAGE LEVEL SPREADER



SECTION A
NOT TO SCALE



SECTION B
NOT TO SCALE

PROJECT	SHEET NO.
0669-046-682	2F(1)

9/19/2023
3:09:36 PM

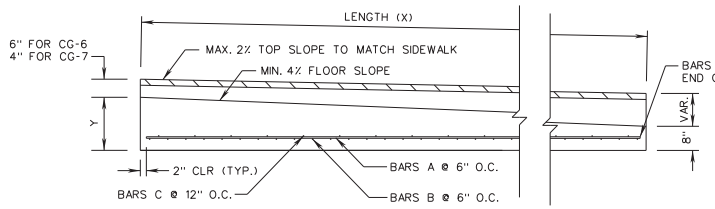
3539.dgn
Plotted By: bryant.lowery

PROJECT MANAGER: Wolf Zaman P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE: Rice Associates (757) 306-4260 1/1/17
DESIGN BY: Jason Henry, P.E. (804) 786-5975
SUBSURFACE UTILITY BY, DATE: Rice Associates (757) 306-4260 1/1/17

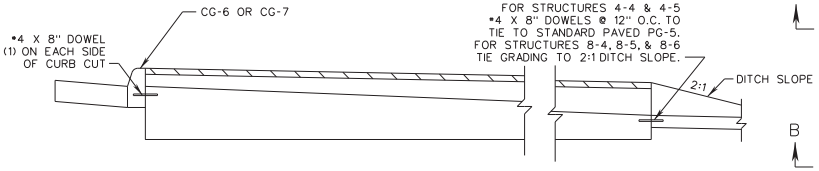
BRYANT LEE LOWERY
Lic. No. 0402041930
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA
Bryant L. Lowery
VDOT Location & Design
Richmond, Virginia
Standards & Special Design

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	0669	0669-046-682, C501	02F2

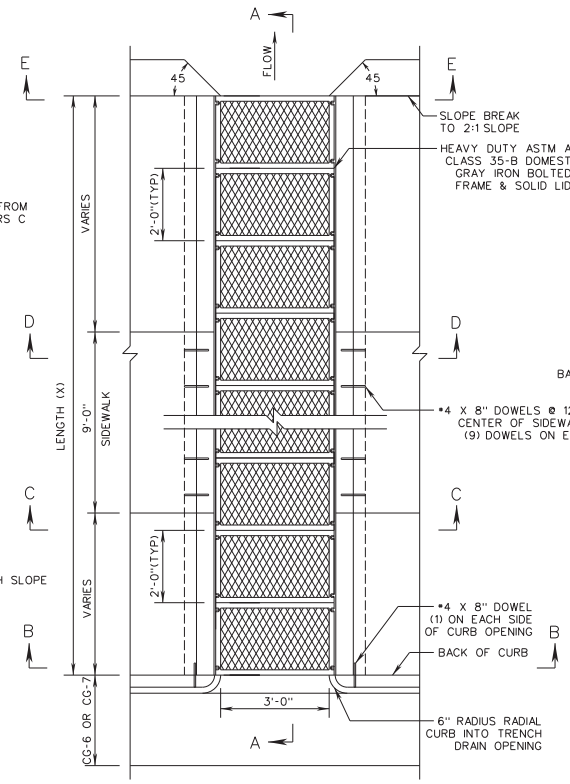
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT



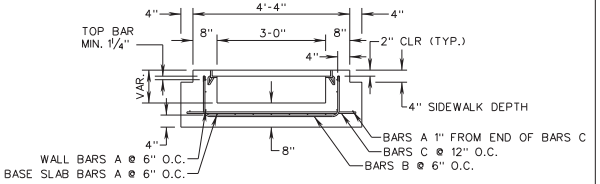
SECTION A-A



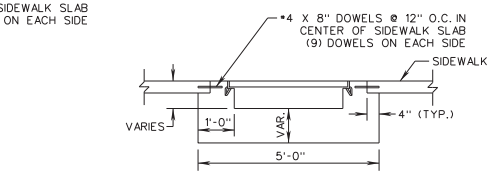
INSTALLED ELEVATION VIEW



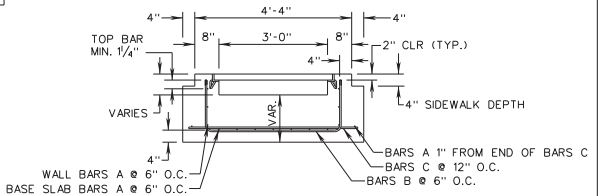
INSTALLED PLAN



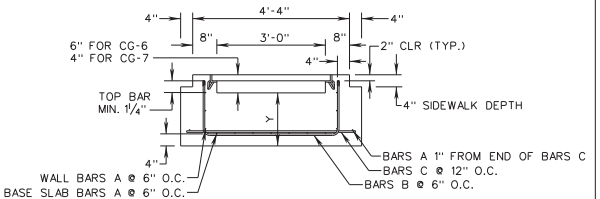
SECTION E-E



SECTION D-D
(REINFORCEMENT NOT SHOWN)



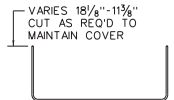
SECTION C-C



SECTION B-B

STRUCTURE	LENGTH (X)	BASE SLAB AT (Y)	CONCRETE (EACH)	REINFORCING STEEL (EACH) ALL REINFORCING BARS SHALL BE #4. * DENOTES LENGTH OF ONE (1) BAR.										DOMESTIC GRAY IRON BOLTED FRAME & SOLID LID HEAVY DUTY ASTM A48 CLASS 35-B	
				BARS A		BARS B		BARS C		*4 DOWELS		TOTAL WGT (EA.)			
				No.	Lin. Ft.*	No.	Lin. Ft.*	No.	Lin. Ft.*	No.	Lin. Ft.*			LENGTH	NUMBER (EA.)
4-4, 4-5, 8-6	20'-0"	17⅝"	Cu. Yds.									500 LBS		2'-0"	10
			5.00	15	19'-8"	40	6'-7½"	20	4'-8"	22	0'-8"				
8-4, 8-5	18'-0"	16⅝"	Cu. Yds.									425 LBS		2'-0"	9
			4.35	15	17'-8"	36	5'-9⅜"	18	4'-8"	22	0'-8"				

REINFORCING STEEL BENDING DIAGRAM



90° BENDS

STRUCTURES	No.	Size	Bend dia.	Length
4-4, 4-5, 8-6	40	*4	3"	79¾"
8-4, 8-5	36	*4	3"	69⅜"

NOTES:

1. A PRECAST STRUCTURE CAN BE USED IN LIEU OF A CAST-IN-PLACE STRUCUTRE. SEALED PRECAST DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE STANDARDS & SPECIAL DESIGN SECTION FOR APPROVAL.
2. GRATES SHALL BE HEAVY DUTY GRAY IRON BOLTED SOLID TRENCH LIDS MEETING ASTM-A48 CLASS 35-B. THE SOLID TRENCH LIDS SHALL BE ITEM NUMBER R-4999-MX TYPE D AS MANUFACTURED BY NEENAH FOUNDRY COMPANY OR APPROVED EQUAL.
3. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM-A615 GRADE 60.
4. LOADING: AASHTO HS-20 LOADING
5. ALL CONCRETE SHALL BE CLASS A4.
6. ANY REINFORCING BARS IN CONFLICT WITH PIPE OPENING ARE TO BE CUT A MINIMUM OF 2" FROM OPENING.
7. FOR PLACEMENT OF SPECIAL DESIGN TRENCH INLETS, SEE PLAN SHEETS 4 AND 8.
8. FOR MEASUREMENT AND PAYMENT, SEE SPECIAL PROVISION.

SPECIAL DESIGN CAST-IN-PLACE TRENCH DRAIN

(UPC • 109314)

NOT TO SCALE

SPECIAL DESIGN SECTION
DRAWING NO. 3539

PROJECT	SHEET NO.
0669-046-682	02F2

PROJECT MANAGER _Wail Zamzam, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

DRAINAGE DETAILS SHEET 3

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	2F(3)

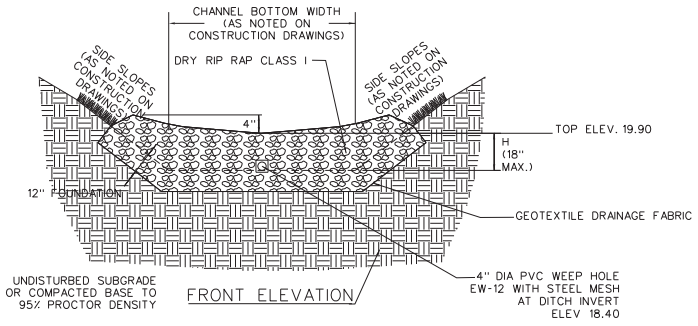
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

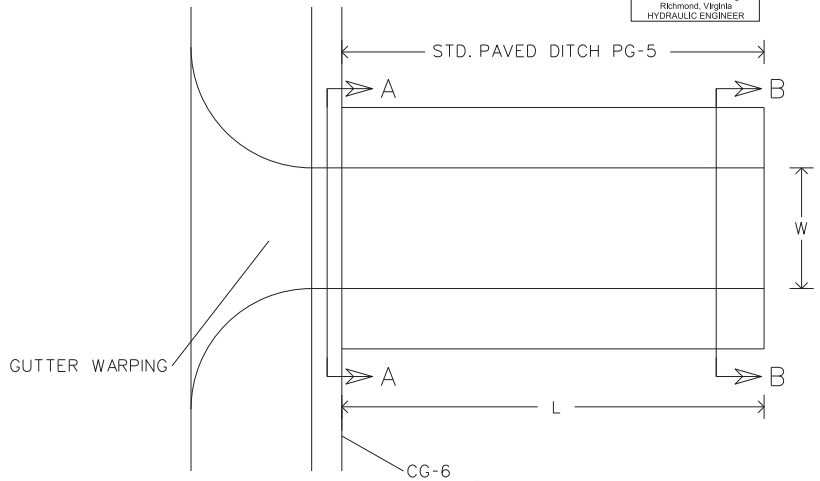
Shannon Kerrigan
2023.10.17 16:14:00-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

NOTES

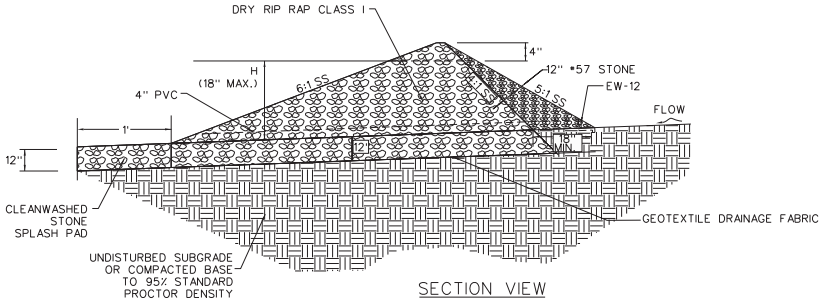
1.) IF CHECK DAM IS LOCATED INSIDE CLEAR ZONE AND ADJACENT TO A TRAVELWAY, SLOPE FACING ON COMING TRAFFIC SHALL BE 6:1 AND MAXIMUM H IS TO BE 18".



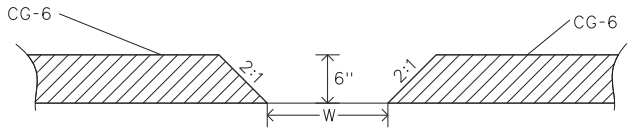
FRONT ELEVATION



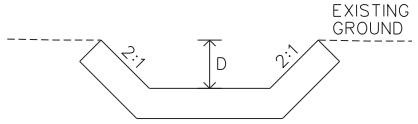
PLAN



SECTION VIEW



SECTION A-A



SECTION B-B

TYPE 2 CHECK DAM (STONE)

NTS

CURB CUT TO PG-5

NTS

PROJECT	SHEET NO.
0669-046-682	2F(3)

12/27/2023
9:37:34 PM

d1093402g.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

DRAINAGE SUMMARY & EROSION AND SEDIMENT CONTROL SUMMARY

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	2G

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

Structure	Cover	Storm Sewer Pipe 15" LF	18" LF	24" LF	30" LF	36" LF	Pipe 15" LF	24" LF	Post Installation Pipe Inspection** LF	Height of Drop Inlet FT	End Sections 15" ES-1; DR-2 EA	Drop Inlets DI-5 EA	DI-3 SERIES DI-3A EA	DI-3B, Ls 6' EA	DI-3C, Ls 6' EA	DI-4 DI-4AA EA	DI-4C, Ls 10' EA	Adjust Existing Drop Inlet Connect Pipe EA	PG-2A SY	PG-5 SY	Concrete Class A3 Misc. EW-1 CY	EW-6 CY	EW-6S CY	Ents. Contr. Cl. A1, EC-1 TONS	Ents. Contr. Cl. I, EC-1 TONS	Minor Structure Excavation Pipe Culvert CY	Bedding Material Aggregate No. 57 TONS	NS Aggr. Material Item (Self Compacting Fill Material) TONS	Temp. Veh. Watercourse Crossing EA	NS Permanent Rock Check Dam EA	NS Special Design Trench Drain L= 18' EA	NS Special Design Trench Drain L= 20' EA	Level Spreader EA	Remarks
4-1																				4.0														
4-2																				3.7													1	
4-3																				3.5													1	
4-4																																1		
4-5																																1		
4-6																															1			
6b-1	2																												1					
6-1																				5.8													1	
6-2										3.7				1																				Less than minimum depth
6-2 to 6-3	2	6							6																									
6-3											1																						1	
6-4	2						176	176															3.6	13		29	57							Type A Installation
6-5																																	1	
6-6										3.4				1																				Less than minimum depth
6-6 to 6-7	1	7							7																									
6-7											1													2										Type A Installation
6-8										4.9					1																			
6-8 to 6-9	4	22							22																									
6-9											1													2										Type A Installation
6-10										2.8				1																				Less than minimum depth
6-10 to 6-6	1	27							27																									
7-1										2.5				1																				Less than minimum depth
7-1 to 7-2	1	4							4																									
7-2											1																						1	
7-3										2.5				1																				
7-3 to 7-4	1	13							13																									
7-4											1																						1	
7-5										2.5				1																				Less than minimum depth
7-5 to 7-6	2	17							17																									
7-6											1																						1	
8-1																				4.2													1	
8-2										2.5				1																				Less than minimum depth
8-2 to 8-3	1	14							14																									
8-3											1																						1	
8-4																															1		1	
8-5																															1		1	
8-6																																1	1	
9-1																				5.3													1	
9-2										2.5				1																				Less than minimum depth
9-2 to 9-3	1	15							15																									
9-3											1																						1	
9-4										2.5				1																				Less than minimum depth
9-4 to 9-5	1	15							15																									
9-5											1																						1	
10b-1	2																												1					
10-1	2						126	126														3.5		8		20	41							
10-2																				4.4													1	PG-5, W=7', 2:1 SIDE SLOPES
10-3																				3.2													1	PG-5, W=4', 2:1 SIDE SLOPES
10-4																			10	8.7														PG-5 W=4' 2:1 SIDE SLOPES, PG-2A TYPE E 2:1 SIDE SLOPES
10-5	1						85		85		2													2										
10-6																				5.5														PG-5, W=5', 2:1 SIDE SLOPES
10-7																				4.3														PG-5, W=3', 2:1 SIDE SLOPES
11-1										6.3			1																					Connect UD-2 to DI
11-1 to 11-2	5	31							31																			75						
11-2										9.1						1																		Connect UD-2 to DI
11-5 to 11-2	5					37			37																			89						
11-3										10.1						1																		Remove Existing DI and Pipe Structure, Connect proposed DI to existing 15" pipe
11-3 to 11-13	7					80			80																			252						
11-2 to 11-3	6					5			5																			14						
11-4										4.2			1																					
11-4 to 11-2	3	14							14																									
11-5										7.8							1																	Connect UD-4 to DI
Ex-1 to 11-5	4				8				8																									
11-6										6.9					1																			
11-6 to 11-5	4			59					59																									
11-7										6.6					1																			
11-7 to 11-6	5			61					61																									
11-8										3.4			1																					Type 3 Grate Req'd., Std. PG-2A Type E Cover
11-8 to 11-7	4		7						7																									
11-9										2.5				1																				Connect UD-4 to DI, Less than minimum depth
11-9 to 11-10	1	7							7																									
11-10											1													2										Type A Installation
11-11										2.5				1																				Connect UD-4 to DI, Less than minimum depth
11-11 to 11-12	1	12							12																									
11-12											1													2										Type A Installation
11-13																					3.0					15								EW-1 (36") Req'd.
12-1										3.0			1																					Type 1 Grate Req'd., Std. PG-2A Type E Cover
12-1 to 12-2	3	105							105																									
12-2										5.3			1																					Connect UD-2 to DI
12-2 to 12-3	4	50							50																			102						
12-3										5.7			1																					Connect UD-2 to DI
12-3 to 12-4	4	80							80																			163						
12-4										6.0			1																					Connect UD-2 to DI
12-4 to 12-5	5	97							97																			234						
12-5										6.2			1																					Connect UD-2 to DI
12-5 to 11-1	4	48							48																			98						
12-6										3.7			1																					Less than minimum depth
12-6 to 12-5	2	8							8																									
EX-1																		1																Adjust to accept proposed 15" storm sewer pipe, Std. IS-1 Req'd.
Total		592	7	120	8	122	85	302			13	2	7	10	4	2	1	1	10.0	46.6		10.1		31	15	49	98	1026	2	1	2	3	18	

**Cost of post installation inspection is included in the contract price per linear foot of pipe.
*Not a pay item

EROSION AND SEDIMENT CONTROL SUMMARY

Sheet Number	TEMPORARY SILT FENCE TYPE A	TEMPORARY SILT FENCE TYPE B	SEDIMENT RETENTION ROLL 18" MIN	INLET PROTECTION TYPE A	INLET PROTECTION TYPE B	ROCK CHECK DAM TYPE I	ROCK CHECK DAM TYPE II	DEWATERING BASIN EC-8	SILTATION CONTROL EXCAVATION	TDC TEMP. DIVE. CHANNEL EXCAVATION	TDC TEMP. DIVE. CHANNEL LINING CLASS A	ROLLED EROSION CTRL PRODUCT EC-2 TYPE 1	ROLLED EROSION CTRL PRODUCT EC-2 TYPE 2	Construction Entrances*	Remarks
	LF	LF	LF	EA	EA	EA	EA	EA	CY	CY	SY	SY	SY		
4C	462	56[illegible]	1141	0	0	0	5	0	177	0	0	0	0		
4D	462	56[illegible]	1141	0	6	2	1	4	238	0	0	348	0		
4G	252	0	0	0	0	0	0	0	43	0	0	0	0		
4H	252	0	0	0	0	1	4	1	53	0	0	242	0		
5B	0	115[illegible]	2317	0	0	0	0	0	198	0	0	0	0		
5C	0	115[illegible]	2317	0	0	0	0	0	198	0	0	0	0		
6B (1&2)	203	198[illegible]	3074	0	0	0	2	1	377	55.9	240	0	0		
6C	206	178[illegible]	3074	0	7	0	7	6	411	0	0	0	43		
7B	0	148[illegible]	2977	0	0	0	0	0	253	0	0	0	0		
7C	0	148[illegible]	2977	0	3	0	2	1	284	0	0	0	0		
8B	0	151[illegible]	3020	0	0	0	0	0	259	0	0	0	0		
8C	0	151[illegible]	3030	0	5	0	4	1	307	0	0	0	0		
9B	0	144[illegible]	2892	0	0	0	0	0	246	0	0	0	0		
9C	0	144[illegible]	2892	0	3	0	3	0	273	0	0	0	0		
10B (1&2)	777	125[illegible]	1942	0	0	0	2	0	214	34	120	0	0		
10C	777	105[illegible]	1960	0	7	1	9	4	378	0	0	385	0		
11C	793	26	0	2	0	0	6	1	175	0	0	0	0		
11D	470	68	0	2	10	1	9	2	188	0	0	156	0		
12B	0	0	0	0	0	0	3	0	1	0	0	0	0		
12C	0	0	0	1	5	0	0	0	40	0	0	0	0		
Total	4654	1851[illegible]	34764	5	46	5	57	21	4312	90	360	1131	43		

*Construction entrances are to be provided incidental to other items and are not a pay item

Proj Sheet No.	LOCATION	STATION TO STATION		UNDERDRAIN UD-2 PERFORATED 6" PIPE LF	UNDERDRAIN UD-2 NON-PERFORATED 6" PIPE LF	UNDERDRAIN UD-4 PERFORATED 4" PIPE LF	UNDERDRAIN UD-4 NON-PERFORATED 4" PIPE LF	OUTLET PIPE LF	OUTFALL STRUCTURE
12	Route 17 NB (L.T)	121+50	122+12	64					12-2
12	Route 17 NB (L.T)	122+16	122+64	49					12-3
12	Route 17 NB (L.T)	122+18	123+47	79					12-4
12	Route 17 NB (L.T)	123+51	124+46	96					12-5
11, 12	Route 17 NB (L.T)	124+50	124+97	47					11-1
11	Route 17 NB (L.T)	125+01	125+25	25					11-2
11	Route 17 NB (L.T)	125+48	125+29	19					11-2
11	Route 17 SB (L.T)	225+50	225+92			42		2	11-5
11	Route 17 SB (L.T)	228+23	227+57			66		2	11-9
11	Route 17 SB (L.T)	228+28	231+07			279		2	11-11
Totals				379	0	387	0	6	.

Note: Cost of UD connections to be included in cost of drainage structure

PROJECT	SHEET NO.
0669-046-682	2G

12/26/2023
7:58:38 PM

d1093402hdgn
Plotted By: vdotpwilkcs01$

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

INCIDENTAL & MOT SUMMARY

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	2H

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

Structure Demolition Summary

Parcel	Demolition Number	Station	Parcel Owner	Description	Pay Item
008	D-1	61+55 RT Nike Park CL	Padeway, LLC	Removal of existing 1 story frame building along US 17. Building number 14168	L.S.
008	D-900	61+16 RT Nike Park CL	Padeway, LLC	Removal of existing propane tank.	L.S.

Incidental Summary

Sheet No.	Mobilization	BaselineProgress Schedule	Progress Schedule Update	Construction Surveying	Clearing & Grubbing ⊗	Obscuring Roadway	Demolition of Pavement (Flexible)	Demolition of Pavement (Combination)	CG-12 Detectable Warning Surface	Hydraulic Cement Concrete Sidewalk 4"	Directional Island SI-3	Median Strip MS-2	Standard Curb CG-3	Radial Curb CG-3	Radial Combination Curb & Gutter CG-7	Standard Combination Curb & Gutter CG-7	Standard Combination Curb & Gutter CG-6	Radial Combination Curb & Gutter CG-6	Saw-Cut Asphalt Concrete Average Depth 7"	Sawcut Combination Average Depth 21"	Entrance Gutter CG-9D	Remove Existing Fence	Selective Tree Removal Trimming & Cleanup	Nontidal Wetland Temporary Wetland Seeding
	L.S.	L.S.	EA	L.S.	L.S.	UNIT	SY	SY	SY	SY	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SY	LF	ACRE	L.S.
3																								
4							22		1	16			22	13	269		522		204				0.05	
5																	1,150							
6																	1,378				66			
7																	1,400							
8																	1,450							
9																	1,350							
10																	1,180	169			66	180		
11						15.0	615	502	2	15	137	228	35		164	418	277			909		355		
12								67				604								607				
Total	L.S.	L.S.	24	L.S.	L.S.	15.0	637	569	3	31	137	832	57	13	433	418	8,707	169	204	1,516	132	535	0.05	L.S.

Field Office Type I
25 Months

⊗ Denotes items to be paid for on the basis of plan quantities in accordance with the applicable provisions of the current Road and Bridge Specifications.

Note: RM-2 monumentation to be completed by others.

Maintenance of Traffic Summary

	Allaying Dust	Mowing	Type 3 Barricade 4'	Type 3 Barricade 8'	Temporary Signs	Portable Temporary Rumble Strip Array	Truck Mounted Attenuator	Group 2 Channelizing Devices	Electronic Arrow Board	Flagger Service	TEMPORARY PAVEMENT MESSAGE ARROW TYPE D, CLASS III	Type D, Class III Temp. Pavement Marking 4"	Type D, Class III Temp. Pavement Marking 24"	Traffic Barrier Service Concrete
	HOUR	HOUR	EA	EA	SF	DAY	HOUR	DAY	HOUR	HOUR	EA	LF	LF	LF
Total	250	200	3	7	1,503	242	5,933	81,921	4,484	1,449	32	12,976	552	80

PROJECT	SHEET NO.
0669-046-682	2H

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

PAVEMENT SUMMARY

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682, RW-201	21

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

LOCATION	STATION TO STATION		AREA	PLANING	SURFACE COURSE			BASE COURSE		SUBGRADE					
				FLEXIBLE PAVEMENT PLANING 0-2"	ASPHALT CONCRETE SURFACE COURSE, TYPE SM 9.5A @ 220LBS. PER SQ. YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE SM 12.5A @ 220LBS. PER SQ. YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE SM 12.5A VARIABLE DEPTH	ASPHALT CONCRETE TYPE BM-25.0A 5" DEPTH	ASPHALT CONCRETE TYPE BM-25.0A 6.5" DEPTH	AGGREGATE BASE MATERIAL, TYPE I, NO. 21B 6" DEPTH	AGGREGATE BASE MATERIAL, TYPE I, NO. 21B 6" DEPTH & VARIABLE	AGGREGATE BASE MATERIAL, TYPE I, NO. 21B 8" DEPTH	AGGREGATE BASE MATERIAL, TYPE I, NO. 21B 8" DEPTH & VARIABLE	GEOTEXTILE SUBGRADE STABILIZATION	GEOTEXTILE EMBANKMENT STABILIZATION
	FROM	TO	SY	SY	TON	TON	TON	TON	TON	TON	TON	TON	TON	SY	SY
Nike Park	16+57.94	62+87.36	12,511			1,376		3,441		4,170	938				32,435
Shared Use Pathway	16+88.21	62+55.35	4,101		451					1,537				4,610	
US 17 SB	225+50.00	231+25.00	628			69			225			279	79		
US 17 SB: Mill & Replace	121+50.00*	231+25.00	634	634		70									
US 17 NB	121+50.00	126+61.56	450			50			161			200			
US 17 NB: Mill & Replace	121+50.00	126+61.56	1,658	1,658		182									
Reynolds Drive	113+02.00	117+70.00	506	506			105								
TOTAL				2,798	451	1,747	105	3,441	386	5,707	938	479	79	4,610	32,435

*US 17 NB Alignment Stationing

Entrances						
			Type I	SURFACE COURSE	BASE COURSE	SUBGRADE
	LOCATION	AREA	CRUSHER RUN AGGREGATE NO. 25 or 26 6" DEPTH	ASPHALT CONCRETE SURFACE COURSE, TYPE SM 12.5A @ 220 LBS. PER SQ. YD.	ASPHALT CONCRETE TYPE BM-25.0A 5" DEPTH	AGGREGATE BASE MATERIAL, TYPE I, NO. 21B 6" DEPTH
	SHEET	SY	TON	TON	TON	TON
Entrance 28+00 LT	6	106	36			
Entrance 28+00 RT	6	68	23			
Entrance 56+00 LT	10	71	24			
Entrance 56+00 RT	10	74	25			
Entrance 59+50 LT: Aggregate	10	830	279			
Entrance 59+50 LT: Pavement	10	339		37	93	151
TOTAL			387	37	93	151

PROJECT	SHEET NO.
0669-046-682	21

PROJECT MANAGER Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE Rice Associates (757) 306-4260, 1/1/17 - - -
DESIGN BY Jason Henry, P.E. (804) 786-5975 (Central Office) - - -
SUBSURFACE UTILITY BY, DATE Rice Associates (757) 306-4260, 1/1/17

ROADSIDE DEVELOPMENT

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682, C-501	2J

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

CORE SEEDS

MIX	LBS./ ACRES	DESCRIPTION
2	120	100 % CERTIFIED TALL FESCUE
T1	100	50 % CERTIFIED TALL FESCUE/ 50 % BARELY, WINTER RYE, OR WINTER WHEAT
T2	100	50 % CERTIFIED FOXTAIL MILLET/ 50 % CERTIFIED TALL FESCUE

ADDITIVES

TYPE	LBS./ ACRES	DESCRIPTION
C	20	100% FOXTAIL MILLET
D	20	100% ANNUAL RYEGRASS

SEEDING SCHEDULE

CODES LISTED IN TABLE REFER TO THE LISTS OF CORE MIXES & ADDITIVES, WHICH SHOW SEED NAMES & APPLICATION RATES FOR THIS PROJECT.	SLOPES SEED MIX WITH ADDITIVE	MOWED SEED MIX WITH ADDITIVE	SLOPES SEED MIX WITH ADDITIVE	MOWED SEED MIX WITH ADDITIVE	SLOPES SEED MIX WITH ADDITIVE	MOWED SEED MIX WITH ADDITIVE	SLOPES SEED MIX WITH ADDITIVE	MOWED SEED MIX WITH ADDITIVE
	SPRING MONTH & DATE		SUMMER MONTH & DATE		FALL MONTH & DATE		WINTER/DORMANT MONTH & DATE	
	3/1 TO 5/15		5/16 TO 9/15		9/16 TO 11/15		11/16 TO 2/29	
0669-046-682,C501	(2)D	(2)D	(2)C	(2)C	(2)D	(2)D	(T1)	(T1)

FERTILIZER AND LIME APPLIATION RATES

	AREA (ACRE)	FERTILIZER GRADE (N-P-K)	FERTILIZER APPLICATION RATE	NITROGEN (N) (LBS/ACRE)	PHOSPORIC ACID (P) (LBS/ACRE)	POTASH (K) (LBS/ACRE)	LIME RATE (TONS/ACRE)
REGULAR SEED	3.36	15-30-15	250	37.5	75	37.5	2.0
INCREMENTAL ADJUSTMENT	0.84	15-30-15	250	37.5	75	37.5	2.0
TEMPORARY SEED	8.21	15-30-15	125	18.75	37.5	18.75	1.0
OVERSEEDING	3.36	46-0-0	65	30	0	0	1.0

ROADSIDE DEVELOPMENT SUMMARY

PROJECT NUMBERS AND/OR LOCATION DESC.	REGULAR SEED	OVER SEEDING	LEGUME SEED	LEGUME OVER SEEDING	TEMPORARY SEED	⊗ 2" TOPSOIL CLASS B	LIME	FERTILIZER N NITROGEN	FERTILIZER P PHOSPHORUS	FERTILIZER K POTASSIUM
	LBS.	LBS.	LBS.	LBS.	LBS.	ACRES	TONS	LBS.	LBS.	LBS.
0669-046-682, C-501	588	470	-	-	821	3.36	19.97	412	623	311
TOTAL	588	470	-	-	821	3.36	19.97	412	623	311

⊗ DENOTES ITEM(S) TO BE PAID FOR ON THE BASIS OF PLAN QUANTITIES IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CURRENT ROAD AND BRIDGE SPECIFICATIONS.

ROADSIDE DEVELOPMENT NOTES

1. RECOMMENDATIONS FOR THE APPLICATION OF SEED MIXTURES (CORE MIX AND ADDITIVES), FERTILIZER, LIME, ETC. SHALL BE OBTAINED FROM THE DISTRICT ROADSIDE MANAGER.

2. ALL SEED, FERTILIZER, LIME, MULCH, ETC. MUST BE IN CONFORMANCE WITH VDOT ROAD AND BRIDGE SPECIFICATIONS AND ANY APPLICABLE INFORMATIONAL & INSTRUCTIONAL MEMORANDA.

3. APPROXIMATELY 3.36 ACRES WILL BE DISTURBED ON THIS PROJECT AND WILL REQUIRE THE ESTABLISHMENT OF GRASSES AND/OR LEGUMES.

4. REGULAR SEED SHALL BE APPLIED AT THE RATES SHOWN IN THE CORE MIX, ADDITIVES, AND WHERE APPLICABLE, CUSTOM SEED MIX TABLES. SEEDING QUANTITIES SHOWN IN THE ROADSIDE DEVELOPMENT SUMMARY TABLE ARE BASED ON THE HIGHEST "NORMAL" SEEDING RATE FOR EACH CORE MIX (BY SEASON FOR BOTH MOWED AREAS AND NON-MOWED SLOPES), WITH A 25% INCREMENTAL ADJUSTMENT TO ACCOUNT FOR SEEDING PROGRESSION. SEEDING AFTER SIGN OR GUARDRAIL INSTALLATION, AND OTHER MINOR UNPLANNED DISTURBANCES.

5. REGULAR SEED SHALL BE FERTILIZED AT THE RATES SHOWN IN THE FERTILIZER SUMMARY TABLE. THE TOTAL FERTILIZER QUANTITIES SHOWN IN THE TABLES INCLUDES THE 25% INCREMENTAL ADJUSTMENT DESCRIBED ABOVE.

6. OVERSEEDING RATES SHALL BE 100% OF THE REGULAR SEED RATE WITHOUT THE INCREMENTAL ADJUSTMENT.

7. OVERSEEDING SHALL ONLY INCLUDE FERTILIZER ONCE, AT THE RATE SHOWN IN THE FERTILIZER SUMMARY TABLE. ADDITIONAL OVERSEEDING MAY BE DONE WITH NO FERTILIZER APPLIED, OR A SOIL TEST MAY BE PERFORMED TO DETERMINE THE SPECIFIC NUTRIENTS NECESSARY TO ESTABLISH THE GRASSES AND/OR LEGUMES.

8. THE ENGINEER WILL REQUIRE THE CONTRACTOR TO PERFORM SUPPLEMENTAL SEEDING WHEN LESS THAN 75% UNIFORM STAND OF THE PERMANENT GRASS (AND LEGUMES) SPECIFIED IN THE MIXTURES IS OBTAINED. (ANNUAL SPECIES SUCH AS RYE AND MILLET ARE TEMPORARY VARIETIES AND REQUIRE SUPPLEMENTAL SEEDING.)

9. LEGUME SEED SHALL BE INOCULATED WITH THE APPROPRIATE STRAIN AND RATE OF BACTERIA. FOR HYDROSEEDING, USE FIVE TIMES (5X) THE AMOUNT OF INOCULANT RECOMMENDED BY THE MANUFACTURER.

10. THE DATE SEED IS APPLIED SHALL BE USED TO DETERMINE WHETHER TO USE HULLED OR UNHULLED SEED FOR BERMUDAGRASS AND SERICEA LESPEDEZA.
SPRING & SUMMER (3/1 TO 9/15): USE HULLED SEED
FALL & WINTER (9/16 TO 2/29): USE UNHULLED SEED.

11. EROSION CONTROL MULCH, AS DIRECTED BY THE ENGINEER, IS TO BE USED ON AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN 14 DAYS DURING THE DORMANT PERIOD (11/16 TO 2/29).

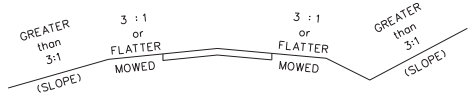
12. WHEN EROSION CONTROL MULCH IS USED, IT SHALL PROVIDE 100% COVERAGE OF ALL DENUDED AREAS.

13. HECP SHALL BE APPLIED ACCORDING TO THE MANUFACTERUER'S SPECIFICATIONS (OR RECOMMENDATIONS).

MULCH SUMMARY

HECP TYPE	REGULAR SEED MOW (ACRES)	REGULAR SEED SLOPES (ACRES)	TEMPORARY SEED (ACRES)	OVERSEEDING (ACRES)	TOTAL (ACRES)	TOTAL (SY)
TYPE 1	-	-	-	-	-	-
TYPE 2	2.76	-	-	-	2.76	13,371
TYPE 3	-	1.44	8.21	-	9.65	46,694
TYPE 4	-	-	-	-	-	-

SECTION OF SEED AND MULCH TYPE LOCATIONS



PROJECT	SHEET NO.
0669-046-682	2J

9/22/2023
4:18:02 PM

d1093140.2k.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

RADIAL OFFSETS & BULLET NOSE DATA

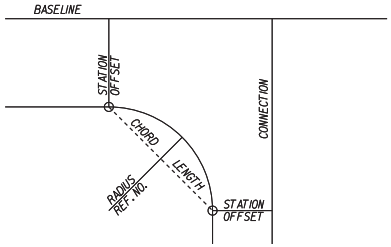
COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

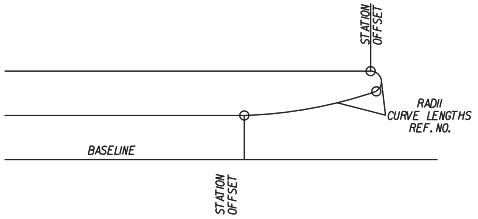
Jason L Henry
2023.09.22 13:06:12-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682, RW-201	2K

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





LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH	LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH	LOCATION (REF. NO.)	BASELINE		CONNECTION		RADIUS LENGTH	CHORD LENGTH	CURVE LENGTH
SHEET - ITEM	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET	SHEET - ITEM	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET	SHEET - ITEM	STATION	OFFSET	STATION	OFFSET	FEET	FEET	FEET
4-1	114+71.21	11.33 RT			118.00	45.30	45.58	11-6	126+00.00	20.00 RT			4.00	8.00	12.57								
	115+15.61	20.32 RT							126+00.00	28.00 RT													
4-2	115+15.61	20.32 RT	16+92.94	23.72 RT	48.00	33.66	34.40	11-7	126+40.35	20.00 RT			25.00	10.08	10.15								
									126+50.23	22.03 RT													
4-3	16+92.94	25.29 RT			118.00	53.82	54.30																
	17+45.34	13.00 RT						12-1	121+50.00	13.00 LT			2,089.00	201.40	201.48								
									123+50.00	25.00 LT													
4-4	17+32.17	13.00 LT			75.00	49.69	50.65																
	16+85.29	29.46 LT																					
4-5	16+85.29	29.46 LT	116+20.98	18.40 RT	50.00	31.60	32.15																
4-6	116+21.48	18.40 RT			200.00	42.42	42.50																
	116+63.44	12.18 RT																					
10-1	58+77.73	20.30 LT	0+74.06	16.99 LT	50.00	73.52	82.60																
10-2	0+74.06	16.99 LT			67.00	2.14	2.14																
	0+75.90	17.00 LT																					
10-3	0+75.90	17.00 RT			33.00	5.72	5.72																
	0+69.89	17.40 RT																					
10-4	0+69.89	17.40 RT	60+26.15	23.63 LT	51.00	70.76	78.20																
10-5	60+42.89	13.00 RT			802.00	101.21	101.28																
	61+41.92	24.00 RT																					
11-1	227+32.47	25.00 LT			118.00	26.39	26.44																
	227+06.25	27.95 LT																					
11-2	227+06.25	27.95 LT	62+47.84	26.95 LT	38.00	40.44	42.65																
11-3	62+47.84	26.95 LT			118.00	26.39	26.44																
	62+21.62	24.00 LT																					
11-4	62+55.35	24.00 RT	225+96.70	19.00 LT	30.00	42.43	47.13																
11-5	226+04.62	13.05 RT			7.50	15.00	23.56																
	125+52.00	25.00 LT																					

PROJECT	SHEET NO.
0669-046-682	2K

9/22/2023
4:59:38 PM

d1093402111.dgn
Plotted By: vdotpwilcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _____
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _____
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

GRADING DIAGRAM AND SUMMARY PHASE 1 & 3

JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

Jason L Henry
2023.09.22 13:05:47-04'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	2L(1)

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

⊢130⊣ Fill — Denotes fill quantity from computer listings and/or manual cross-sections.

⊢130⊣ Cut — Denotes cut quantity from computer listings and/or manual cross-sections. Quantity adjusted for demolition of pavement.

* Denotes C. Y. unsuitable material in cut areas which is included in Regular Excavation quantities.

* Denotes C. Y. unsuitable material removed from fill sections and backfilled with Min. CBR 15 (Backfill with Borrow Excavation)

Denotes C. Y. Minor Structure Excavation.

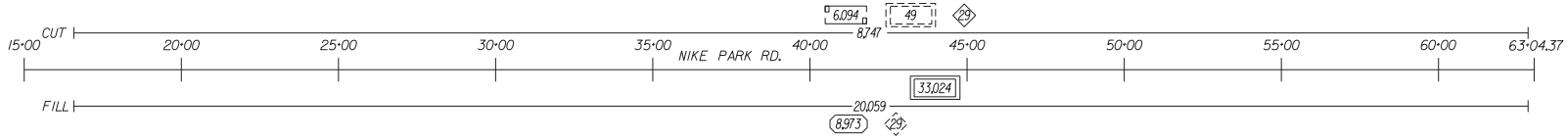
Denotes C. Y. existing pavement to be removed as "Demolition of Pavement" from fill sections and backfilled with Min. CBR 15

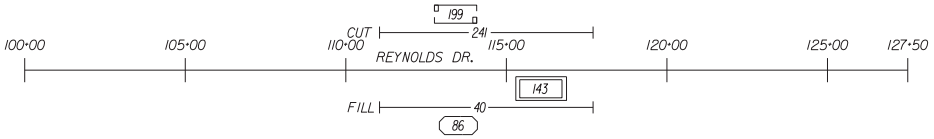
Denotes C. Y. existing pavement to be removed as Demolition of Pavement in cut sections within construction limits and is not included in the Regular Excavation quantities.

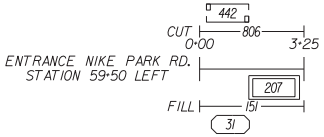
Denotes C. Y. Regular Excavation from private entrances.

Denotes C. Y. fill for private entrances.

Denotes Borrow Material (Min. CBR, 15)







⊗ Denotes Item(s) to be paid for on the basis of plan quantities in accordance with the applicable provisions of the current VDOT Road and Bridge Specifications.

(1) Cut quantity shown does not include the material removed as Demolition of Pavement.

(2) Quantity shown for use in Grading Diagram only. See other Summaries for pay item(s).

(3) Included in Total Regular Excavation.

(4) Included in Roadway Cut quantity.

(5) Quantities for Temporary Sediment Basins and Temporary Sediment Traps are included with the Stormwater Management Basin quantities.

(6) Denotes pay item.

(7) Included in total fill quantity.

(8) This quantity comes from the computer listings and/or manual cross-sections and may be adjusted for other quantities.

(10) Includes settlement of in-place soil.

Location	⊗ Roadway Cut (1) (8)	* Unsuitable Material In Cut	* Unsuitable Material In Fill	(10) Roadway Fill (8)	Entrances Cut	Entrances Fill	Total Regular Excavation (6)	Total Fill	Demolition of Pavement (2) Cut	Demolition of Pavement (2) Fill	Minor Structure Excavation (2)	SWM Basins (5) Cut	SWM Basins (2) Fill	Borrow (6)
	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY
Nike Park Road	8,747	6,094	8,973	20,059	29	29	17,749	29,061	0	0	49	0	0	33,024
Reynolds Drive	241	199	86	40	0	0	327	126	0	0	0	0	0	143
Entrance Nike Park Road Sta. 59+50 Left	806	442	31	151	0	0	837	182	0	0	0	0	0	207
FORMULAS	C	D	E	J	K	L	M	N	T	O	P	Q	R	S
TOTALS	9,794	6,735	9,090	20,250	29	29	18,913	29,369	0	0	49	0	0	33,374
	(3)	(4)	(3) (7)	(7)	(3)	(7)							(7)	

* Unsuitable material includes areas of root mat and Nike Park Road stabilization.

FORMULAS

Roadway Cut (C) = Unadjusted Cut from Computer Listings or Manual Cross-Sections minus (-) Demolition of Pavement.

Roadway Fill (J) = Fill Required plus (+) Material for Backfill of Demolition of Pavement Areas in Fill (for heights of fill < 3 feet below subgrade)

Total Reg. Excav. (M) = C + E + K

Total Fill (N) = J + E + L + R

Borrow (S) = [N] ÷ Compaction Factor for Borrow Site

Note:

All excavated material is unsuitable. Removing & disposing of excavated material outside of state right of way in contractor selected waste sites is incidental to and included in Regular Excavation. Borrow material to meet requirements set forth on Sheet 2 Note G6.

The borrow quantity shown was computed on the basis of the average shrinkage or swell factor for the general vicinity of the project. The contractor will be responsible for determining the actual factor for the site(s) from which he proposes to secure borrow material needed to complete this project. Borrow to be paid as Borrow Excavation CBR 15 Min.

PROJECT	SHEET NO.
0669-046-682	2L(1)

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

GRADING DIAGRAM AND SUMMARY PHASE 2

JASON L. HENRY
Lic. No. 040658
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Jason L Henry
2023.09.22 13:05:32-04'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	2L(2)

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

⊢130⊣ Fill — Denotes fill quantity from computer listings and/or manual cross-sections.

⊢130⊣ Cut — Denotes cut quantity from computer listings and/or manual cross-sections. Quantity adjusted for demolition of pavement.

* Denotes C. Y. unsuitable material in cut areas which is included in Regular Excavation quantities.

* Denotes C. Y. unsuitable material removed from fill sections and backfilled with Min. CBR 15 (Backfill with Borrow Excavation)

Denotes C. Y. Minor Structure Excavation.

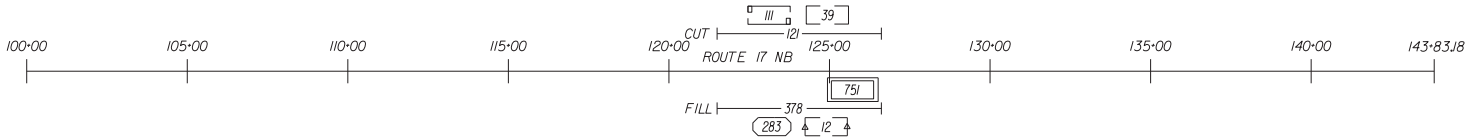
Denotes C. Y. existing pavement to be removed as "Demolition of Pavement" from fill sections and backfilled with Min. CBR 15

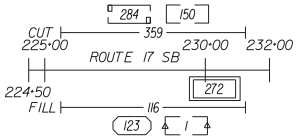
Denotes C. Y. existing pavement to be removed as Demolition of Pavement in cut sections within construction limits and is not included in the Regular Excavation quantities.

Denotes C. Y. Regular Excavation from private entrances.

Denotes C. Y. fill for private entrances.

Denotes Borrow Material (Min. CBR, 15)





1. Denotes Item(s) to be paid for on the basis of plan quantities in accordance with the applicable provisions of the current VDOT Road and Bridge Specifications.
2. Cut quantity shown does not include the material removed as Demolition of Pavement.
3. Quantity shown for use in Grading Diagram only. See other Summaries for pay item(s).
4. Included in Total Regular Excavation.
5. Included in Roadway Cut quantity.
6. Quantities for Temporary Sediment Basins and Temporary Sediment Traps are included with the Stormwater Management Basin quantities.
7. Denotes pay item.
8. Included in total fill quantity.
9. This quantity comes from the computer listings and/or manual cross-sections and may be adjusted for other quantities.
10. Includes settlement of in-place soil.

Location	⊗ Roadway Cut (1) (8)	* Unsuitable Material		(10) Roadway Fill (8)	Entrances		Total Regular Excavation (6)	Total Fill	Demolition of Pavement (2)		Minor Structure Excavation (2)	SWM Basins (5)	(2)	Borrow (6)
		In Cut	In Fill		Cut	Fill			Cut	Fill		Cut	Fill	
	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY	CY
U.S. Route 17 Northbound	121	111	283	378	0	0	404	661	39	12	0	0	0	751
U.S. Route 17 Southbound	359	284	123	116	0	0	482	239	150	1	0	0	0	272
FORMULAS	C	D	E	J	K	L	M	N	T	O	P	Q	R	S
TOTALS	480	395	406	494	0	0	886	900	189	13	0	0	0	1,023
	(3)	(4)	(3) (7)	(7)	(3)	(7)							(7)	

* Unsuitable material includes areas of root mat.

FORMULAS

Roadway Cut (C) = Unadjusted Cut from Computer Listings or Manual Cross-Sections minus (-) Demolition of Pavement.

Roadway Fill (J) = Fill Required plus (+) Material for Backfill of Demolition of Pavement Areas in Fill (for heights of fill < 3 feet below subgrade)

Total Reg. Excav. (M) = C + E + K

Total Fill (N) = J + E + L + R

Borrow (S) = [N] ÷ Compaction Factor for Borrow Site

Note:

All excavated material is unsuitable. Removing & disposing of excavated material outside of state right of way in contractor selected waste sites is incidental to and included in Regular Excavation. Borrow material to meet requirements set forth on Sheet 2 Note G6.

The borrow quantity shown was computed on the basis of the average shrinkage or swell factor for the general vicinity of the project. The contractor will be responsible for determining the actual factor for the site(s) from which he proposes to secure borrow material needed to complete this project. Borrow to be paid as Borrow Excavation CBR 15 Min.

PROJECT	SHEET NO.
0669-046-682	2L(2)

10/27/2023
5:10:39 PM

d1093l404.dgn
Plotted By:vdotpwillcs01#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260, 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260, 1/1/17_

UTILITY CONTACTS

Verizon South
Mr. Toney Hunt
52 Richneck Rd.
Newport News, VA 23608
(757) 875-2260 (Office)
(757) 805-5388 (Cell)
toney.hunt@verizon.com

Hampton Roads Sanitation Department
Mr. Gary Hart
Chief of Design & Construction
1436 Air Rail Ave.
Virginia Beach, VA 23455
(757) 460-4227 (Office)
(757) 374-9233 (Cell)
ghart@hrsd.com

Columbia Gas
Mr. Jamie Mucalo
Associate, Field Engineer
7001 Harbour View Blvd.
Suffolk, VA 23435
(757) 638-2455 (Office)
(757) 334-4017 (Cell)
jmucalo@nisource.com

Mid-Atlantic Broadband
Mr. Chris Coleman
1100 Confroy Drive, Suite 4
South Boston, VA 24592
(434) 570-1306 (Office)
(434) 572-2357 (Fax)
(276) 340-6813 (Cell)
chris@mbc-va.com

Dominion Energy
Mr. Lucian L. Gregory
1707 W, Ehringhaus Street
Elizabeth City, NC 27909
(252) 331-6111 (Office)
(252) 619-3017 (Cell)
lucian.l.gregory@dominionenergy.com

AT&T
Mr. Pat Sutton
SR TECH NETWORK SERVICES DE, MD, PA, VA
National Construction and Engineering Team
4800 Winchester Blvd
Frederick, MD 21703
(814) 321-6470 (Office)
(512) 646-3139 (Fax)
ps4364@att.com

Isle of Wight County Public Utilities
Mr. Don Jennings
Director
Isle of Wight Public Utilities
17090 Monument Circle
Isle of Wight, VA 23397
(757) 365-1655 (Office)
(757) 604-3155 (Cell)
djennings@isleofwightus.net

Spectrum / Charter Communications
Mr. Kirk Combs
216 Moore Avenue
Suffolk, VA 23434
(757) 374-5092 (Office)
kirk.combs@charter.com

Curve REYNOLDB_10
PI = 119+65.46
DELTA = 4°07'06.36" (RT)
D = 0°57'34"
T = 214.69'
L = 429.20'
R = 5,971.00'
PC = 117+50.77
PT = 121+79.97

JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
Jason L Henry
2023.10.27 13:47:55-04'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER
Shannon Kerrigan
2023.10.31 08:38:48-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
05/19/2023	VA.	669	0669-046-682 PE-101, RW-201 & C-501	4

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

CALVIN B. LANGHORN
VALERIE S. LANGHORN
Inst.# 130005561
PC 1-390-18
5.00 AC.
TAX PARCEL# 33-15-001

BEGIN PROJECT 0669-046-682 RW-201
ROUTE 669 STA. 16+13.93

BEGIN CONSTRUCTION /
BEGIN PROJECT 0669-046-682 PE-101
ROUTE 669 STA. 13+75.00

INT N 351563.1429 E 12052904.9600
Intersection Angle = 89°56'47"
Nike Park Constr. Baseline Sta. 16+49.58
Reynolds Drive Constr. Baseline Sta 115+65.45

(N 12°24'48" W 509.10')
N 20°15'17" W 509.20'

ROUTE 669 CONSTRUCTION ℄ S 20° 15' 58" E

Selective Tree Trimming and Clean up to existing right of way line from 13+75 to Reynolds Drive Intersection

END CONSTRUCTION
ROUTE 665 STA. 117+70.00
(N 09°17'43" W 246.57')

ROUTE 665 CONSTRUCTION ℄

PC 117+50.77

Proposed Permanent VDOT Utility Easement Variable Width

CLEANOUT EXISTING DITCH

CLEAR AND GRUB EXISTING DITCH

Prop. Temp. Constr. Easement

Curb Cut to PG-5,W-3' (typ.) On Grade See Sheet 2F(2)

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.36 AC.
TAX PARCEL# 33-14-004

BEGIN PROJECT 0669-046-682 C-501
ROUTE 669 STA. 16+57.94

Curve NIKE_6
PI = 23+78.80
DELTA = 64°55'52.33" (LT)
D = 7°09'43"
T = 508.98'
L = 906.61'
R = 800.00'
PC = 18+69.82
PT = 27+76.43
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

Level Spreader (typ.) See Sheet 2F(1)

Curb Cut to PG-5,W-3' (typ.) to Sump See Sheet 2F(2)

Prop. Permanent Slope and Drainage Easement.

Prop. R/W

Nike Park

Shared Use Path

Prop. Permanent Slope and Drainage Easement

Prop. Permanent VDOT Utility Easement

Matchline Sta. 20+00.00 See Sheet 5

Matchline Sta. 113+50.00 See Sheet 4E

003
PEYTON P. NOTTINGHAM, III
WB Inst.# 030000013
DB 182 PG 519
PB 1 PG 14A
118.00 AC.
TAX PARCEL# 33-01-156

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.00 AC.
TAX PARCEL# 33-14-003

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.00 AC.
TAX PARCEL# 33-14-002

Prop. Permanent Slope and Drainage Easement Variable Width Prop. Permanent VDOT Utility Easement

Mixed Hardwoods & Pines

Grass Area

30' Prescriptive Easement

Possible Fig-Marker Point

Wooden Sign

Existing R/W

Ex. R/W

Asphalt Pavement

Gravel Road

Swivel Road

Nike Park

Reynolds Drive

Rod (Bent)

N 69° 47' 15" E

CONSTRUCTION LEGEND

- Denotes Demolition of Pavement
- Denotes Mill and Overlay 2" & Variable
- Denotes Proposed Pavement Full Depth
- Denotes Proposed Shared Use Path
- C ..... Denotes Construction Limits in Cuts
- F ____ Denotes Construction Limits in Fills

ENVIRONMENTAL LEGEND

- Denotes PFO Wetland
- Denotes Jurisdictional Ditch
- --WL-- Wetland

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

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

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	4A
Route 665 Profile	4B
Drainage Descriptions	15(1)-15(2)
E&S	4C-4D

DRAINAGE STRUCTURE LEGEND

- Curb Cut to Mod. PG-5,W-2' (Typ.) w/ Steel Plate Crossing See Detail Sheet 2F(2)
- Level Spreader (Typ.) See Sheet 2F(1)

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	4

10/27/2023
5:40:51 PM

d1093404a.dgn
Plotted By:vdotpwiiics01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

COMMONWEALTH OF VIRGINIA
JASON L HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
Jason L Henry
2023.10.27 13:48:49-04'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER
Shannon Kerrigan
2023.10.31 08:40:23-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 PE-101, RW-201, C-501	4A

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

ROUTE 669 (NIKE PARK)
VERT. DATUM NAVD 88(2012B)

BEGIN CONSTRUCTION /
BEGIN PROJECT 0669-046-682 PE-101
ROUTE 669 STA. 13+75.00

BEGIN PROJECT 0669-046-682 RW-201
ROUTE 669 STA. 16+13.93

BEGIN PROJECT 0669-046-682 C-501
ROUTE 669 STA. 16+57.94

Route 665
(Peninsula Drive)
STA. 15+65.48

2.14

STA = 21+40.84
EL = 23.01'
V = 75 MPH
SSD = 17.49'
ex = -0.80'
K = 1000
L = 800.00

Existing Ground

Proposed Grade

-3.40%

-2.0%

-4.0%

| | | |

10/27/2023
5:40:52 PM

d1093404b.dgn
Plotted By: vdotpwiiicsOl#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

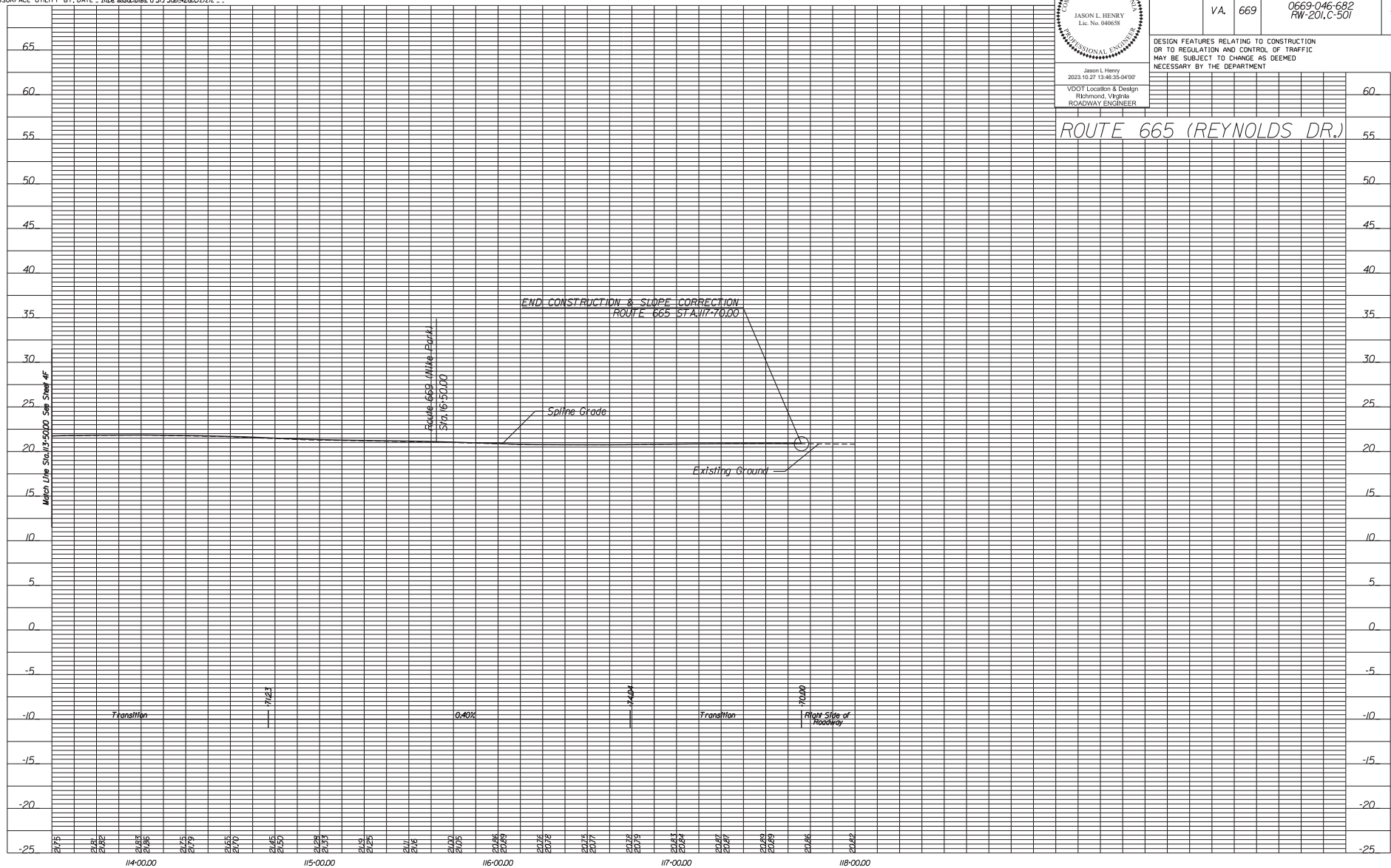
Jason L Henry
2023.10.27 13:46:35-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	4B

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

ROUTE 665 (REYNOLDS DR.)



VERTICAL SCALE	HORIZONTAL SCALE	PROJECT	SHEET NO.
0 5' 10'	0 25' 50'	0669-046-682	4B

9/29/2023
4:50:04 PM

d1093404c.dgn
Plotted By: vdotpwilcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

EROSION & SEDIMENT CONTROL PLAN PHASE I

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	4C

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:09:43-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

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

See Sheet 4 for Utility Owner Information

Curve REYNOLDS 10
PI = 119+65.46
DELTA = 4°07' 06.36" (RT)
D = 0°57' 34"
T = 214.69'
L = 429.20'
R = 5,971.00'
PC = 117+50.77
PT = 121+79.97

END CONSTRUCTION
ROUTE 665 STA.117+70.00

PC117+50.77

ROUTE 665 CONSTRUCTION @

BEGIN PROJECT 0669-046-682 RW-201
ROUTE 669 STA.16+13.93

BEGIN CONSTRUCTION /
BEGIN PROJECT 0669-046-682 PE-101
ROUTE 669 STA.13+75.00

ROUTE 669 CONSTRUCTION @ S 20° 15' 58" E

BEGIN PROJECT 0669-046-682 C-501
ROUTE 669 STA.16+57.94

Curve NIKE 6
PI = 23+78.80
DELTA = 64° 55' 52.33" (LT)
D = 7°09' 43"
T = 508.98'
L = 906.61'
R = 800.00'
PC = 18+69.82
PT = 27+76.43
V = 45 MPH
eE = 4.0%
Li = 45'
Lr = 89'

PC18+69.82

Matchline Sta.20+00.00 See Sheet 5B

Matchline Sta.113+50.00 See Sheet 4G

Existing R/W

Mixed Hardwoods & Pines

Grass Area

Possible Pipe Under Pond

30' Prescriptive Easement

Wooden Sign

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type B and a double line of compost filter sock retention rolls (used as perimeter control, not on fill slopes). Compost filter socks shall be biodegradable.
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Install stabilized construction entrances where required.

LEGEND:

TSF-A	TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD	LOD	Denotes Limits of Disturbance
WL		Denotes Wetland

C ..... Denotes Construction Limits in Cuts
F ____ Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	4A
Route 665 Profile	4B
Drainage Descriptions	15(1)-15(2)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	4C

9/29/2023
4:50:04 PM

d1093140.4d.dgn
Plotted By: vdotpwillcs01

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _

EROSION & SEDIMENT CONTROL PLAN PHASE II

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

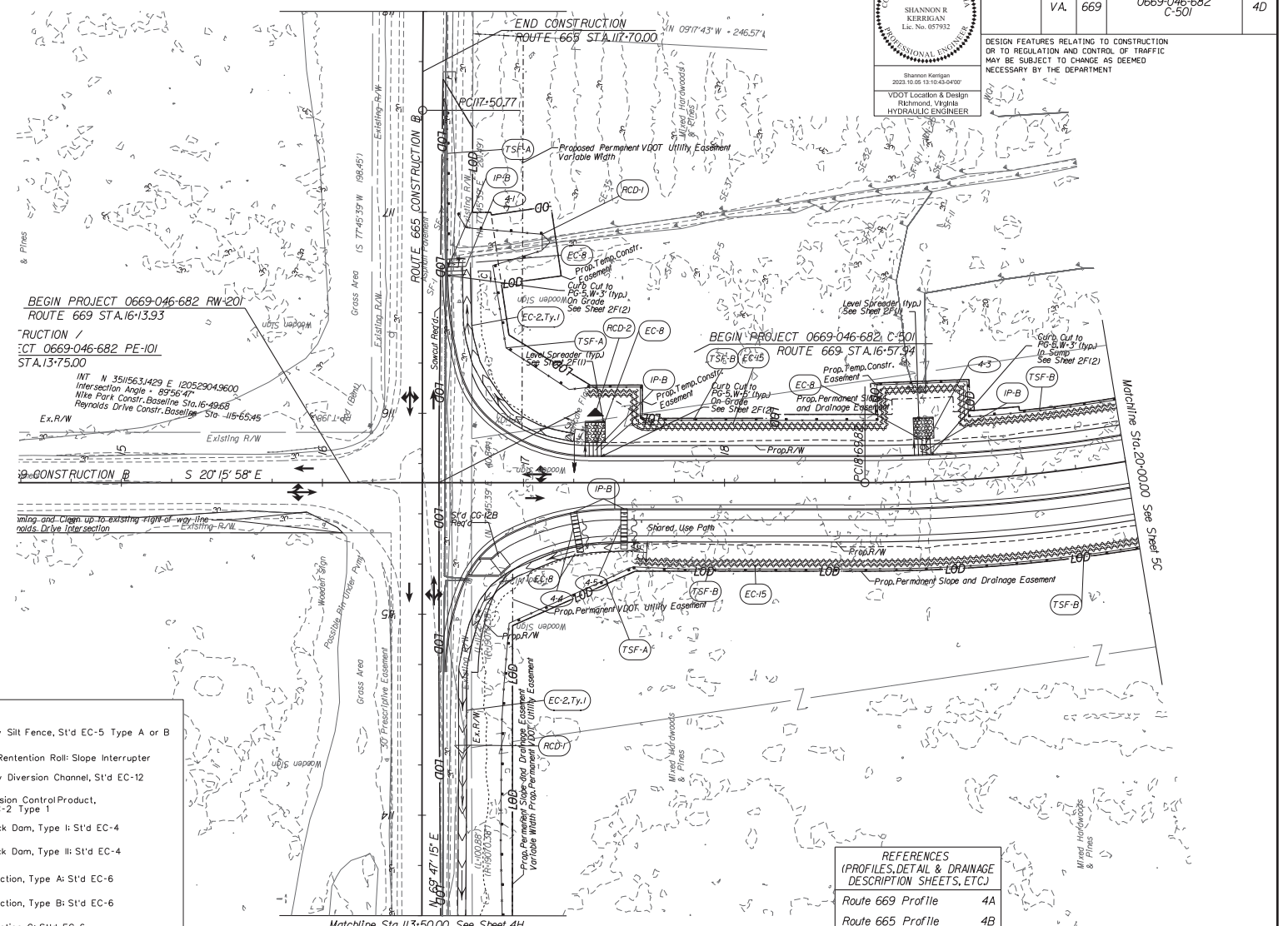
Shannon Kerrigan
2023.10.05 13:10:43-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	4D

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

Notes:
1. Install Phase II E&S measures as shown.
2. Level Spreaders shall not be installed until upstream denuded areas are stabilized and shall be installed in the dry. If clogging occurs to level spreader before the end of construction, level spreader shall be re-constructed.
3. Temporary silt fence shall be left in place until ground is stabilized.
4. Upon completion of grading, permanent seeding should be installed.
5. Remove E&S measures as directed by VDOT RLD.


END CONSTRUCTION
ROUTE 665 STA.117+70.00
PC117+50.77
ROUTE 665 CONSTRUCTION @
BEGIN PROJECT 0669-046-682 RW-201
ROUTE 669 STA.16+13.93
CONSTRUCTION /
CT 0669-046-682 PE-101
STA.13+75.00
INT N 351563.1429 E 1205290.4.9600
Intersection Angle = 89°56'47"
Nike Park Constr. Baseline Sta.16+49.58
Reynolds Drive Constr. Baseline Sta. 115+65.45
CONSTRUCTION @ S 20° 15' 58" E
BEGIN PROJECT 0669-046-682, C-501
ROUTE 669 STA.16+57.94
PC118+68.82
Matchline Sta.20+00.00 See Sheet 5C
Matchline Sta.113+50.00 See Sheet 4H
Proposed Permanent VDOT Utility Easement Variable Width
Prop. Temp. Constr. Easement
Curb Cut to PG-5, W=3' (typ.) On Grade See Sheet 2F(2)
Curb Cut to PG-5, W=3' (typ.) In Comp See Sheet 2F(2)
Level Spreader (typ.) See Sheet 2F(1)
Level Spreader (typ.) See Sheet 2F(2)
Prop. Permanent Slope and Drainage Easement
Shared Use Path
Prop. R/W
Existing R/W
Ex. R/W
Prop. Permanent VDOT Utility Easement
Prop. Permanent Slope and Drainage Easement Variable Width Prop. Permanent VDOT Utility Easement
Mixed Hardwoods & Pines
Grass Area
Wooden Sign
Possible Box Culvert Pipe
30' Prescriptive Easement
Saw cut Pavement
Ashton Pavement
Sawcut Pavement
Existing R/W
Existing Road (Bent)
Std. CG-12B
Ramp
Driveway
Entrance
Intersection
Tie-in
Transition
Begin Curb
End Curb
Begin Gutter
End Gutter
Begin Sidewalk
End Sidewalk
Begin Shoulder
End Shoulder
Begin Ditch
End Ditch
Begin Slope
End Slope
Begin Berm
End Berm
Begin Curb Ramp
End Curb Ramp
Begin Curb & Gutter
End Curb & Gutter
Begin Curb & Sidewalk
End Curb & Sidewalk
Begin Shoulder & Ditch
End Shoulder & Ditch
Begin Slope & Ditch
End Slope & Ditch
Begin Berm & Ditch
End Berm & Ditch
Begin Curb Ramp & Gutter
End Curb Ramp & Gutter
Begin Curb Ramp & Sidewalk
End Curb Ramp

10/27/2023
5:41:22 PM

d1093140e.dgn
Plotted By: vdotpwillcs01#

PROJECT MANAGER _Wail Zamzam, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

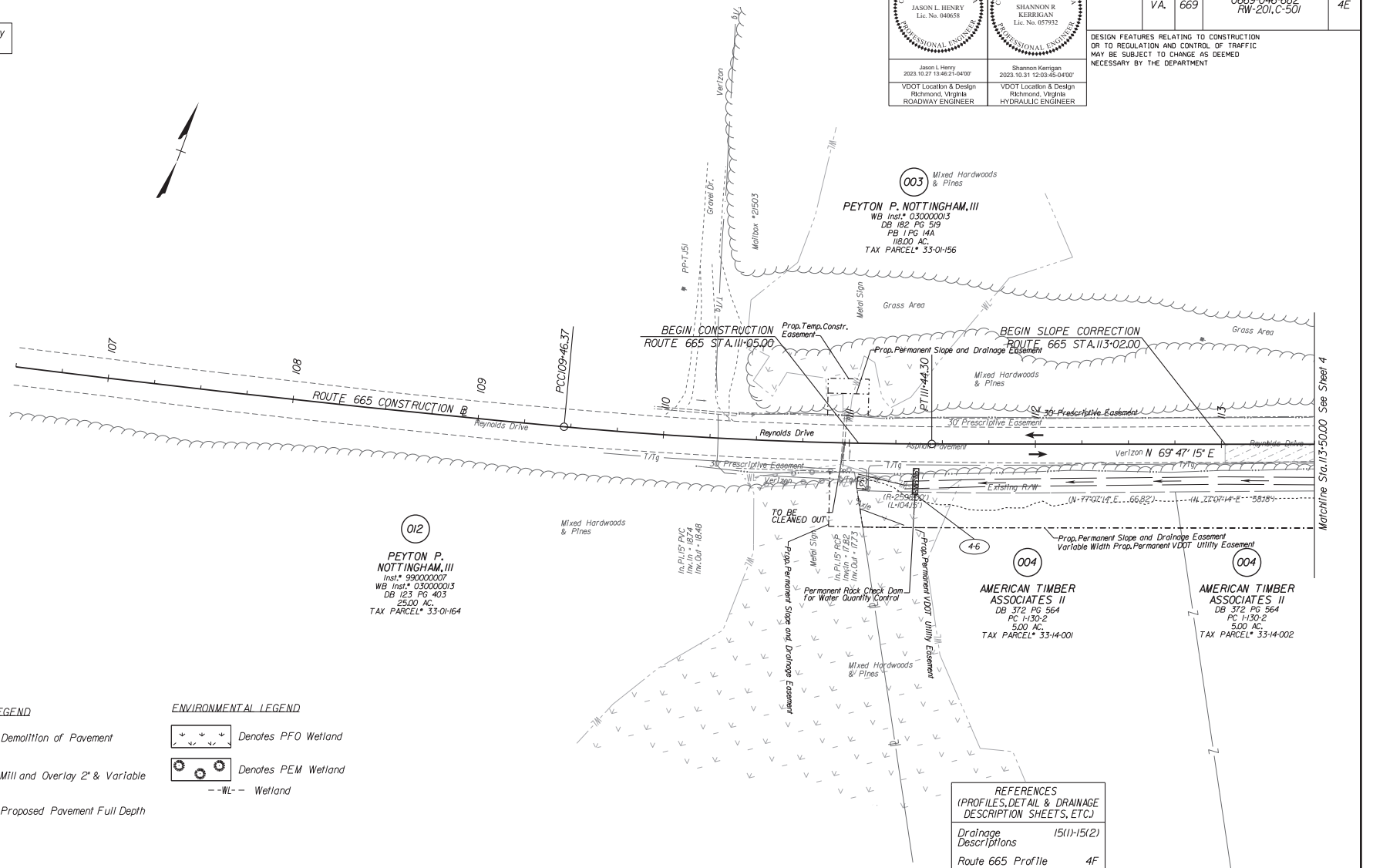
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
02/03/2023	VA.	669	0669-046-682 RW-201, C-501	4E

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

COMMONWEALTH OF VIRGINIA — JASON L. HENRY, Lic. No. 040658 — PROFESSIONAL ENGINEER
Jason L Henry, 2023.10.27 13:48:21-04'00'
VDOT Location & Design, Richmond, Virginia, ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA — SHANNON R KERRIGAN, Lic. No. 057932 — PROFESSIONAL ENGINEER
Shannon Kerrigan, 2023.10.31 12:03:45-04'00'
VDOT Location & Design, Richmond, Virginia, HYDRAULIC ENGINEER

See Sheet 4 for Utility Owner Information



CONSTRUCTION LEGEND

- Denotes Demolition of Pavement
- Denotes Mill and Overlay 2" & Variable
- Denotes Proposed Pavement Full Depth

ENVIRONMENTAL LEGEND

- Denotes PFO Wetland
- Denotes PEM Wetland
- --WL-- Wetland

C _____ Denotes Construction Limits In Cuts

F _ _ _ _ Denotes Construction Limits In Fills

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

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

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Drainage Descriptions	15(1)-15(2)
Route 665 Profile	4F
E&S	4G-4H

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	4E

RIGHT OF WAY PLAN SHEET SHOWING PROPOSED RIGHT OF WAY & EASEMENTS

Conveyed By Deed To The

COMMONWEALTH OF VIRGINIA

Newport Magisterial District
Isle Of Wight County, Virginia
Scale 1" = 25'
Plat By Michael L. Williams, L. S.
September 21, 2022

GENERAL NOTES:

1. Plat Is Intended For Acquisition Only And Does Not Constitute A Boundary Survey.
2. Property Line Information Is Based on Plats And Deeds Of Record. Limited Field Work Was Performed In The Creation Of This Plat.
3. Plat Was Prepared Without The Benefit Of A Title Report. Consequently Not All Encumbrances May Be Depicted.
4. All Property And/Or Easements Described Hereon Are Hereby Acquired By Correlated Deed.
5. This Plat Was Forwarded Electronically In "Read Only" Format. Any Attempt At Alteration Invalidates The Seal And Signature. An Original Hard Copy Remains On File At The Virginia Department Of Transportation, Hampton Roads District Office.
6. The Property's Physical Improvements Are Not Shown Hereon.
7. This Survey Datum Is Based On NAD 83 (2011) State Plane Grid Virginia South Zone.
8. Station And Offsets Are Based On The Construction Baseline.
9. Bearings And Distances In Parenthesis Are From Record Data.
10. Right Of Way Monumentation To Be Set Upon Completion Of Construction.

COMMONWEALTH OF VIRGINIA
MICHAEL L. WILLIAMS
Lic. No. 2076
LAND SURVEYOR
Michael L. Williams — Digitally signed by Michael L. Williams Date: 2023.02.16 11:11:05-05'00'
VDOT Location & Design
Suffolk, Virginia
LAND SURVEYOR

REVISED	STATE	STATE		SHEET NO.
02-03-2023 02-16-2023	ROUTE	PROJECT		
	VA.	669	0669-046-682 RW-201, C-501	4ERW

NAD 83 (11) Virginia South Zone

Curve REYNOLDB_6
PI = 107+66.06
DELTA = 2° 17' 00.38" (LT)
D = 0° 37' 59"
T = 180.36'
L = 360.67'
R = 9,050.00'
PC = 105+85.69
PCC = 109+46.37

Curve REYNOLDB_7
PI = 110+45.40
DELTA = 5° 15' 00.58" (LT)
D = 2° 39' 09"
T = 99.03'
L = 197.93'
R = 2,160.00'
PCC = 109+46.37
PT = 111+44.30

THE EXISTING PRESCRIPTIVE EASEMENT AREA FOR PARCEL 003 CONTAINS 325 SF

003
PEYTON P. NOTTINGHAM, III
WB Inst.# 030000013
DB 182 PG 519
PB 1 PG 14A
118.00 AC.
TAX PARCEL# 33-01-156

Route 665 (Reynolds Drive)
Route 665 Construction Baseline
PCC109+46.37
N= 3,511,357.8439
E= 12,052,321.1197
PT111+44.30
N= 3,511,417.6284
E= 12,052,509.7285
N 69° 47' 15" E
Match line Sta. 113+50.00 See Sheet 4RW

Proposed Temporary Construction Easement
Proposed Permanent Slope and Drainage Easement
30' Prescriptive Easement
Proposed Variable Width Permanent Standard VDOT Utility Easement
Proposed Permanent Slope and Drainage Easement & Variable Width Permanent Standard VDOT Utility Easement
Axle +05.29 30.33'
(R= 2598.00' L= 104.15') Existing Right Of Way (N77°07'14"E 66.82') (N77°07'14"E 58.18')

AREA TABLE				
PARCEL #	R/W TAKE	PERMANENT SLOPE & DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT	PERMANENT STANDARD VDOT UTILITY EASEMENT
003	NA	262 SF	176 SF	NA
004	112,119 SF	93,232 SF	12,811 SF	12,416 SF
012	NA	465 SF	NA	NA

012
PEYTON P. NOTTINGHAM, III
Inst.# 990000007
WB Inst.# 030000013
DB 123 PG 403
25.00 AC.
TAX PARCEL# 33-01-164

THE EXISTING PRESCRIPTIVE EASEMENT AREA FOR PARCEL 012 CONTAINS 177 SF

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.00 AC.
TAX PARCEL# 33-14-001

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.00 AC.
TAX PARCEL# 33-14-002

LEGEND
- Computed Point
- Found Point (As Noted)
- Indicates Existing Right Of Way
- Indicates Proposed Temporary Easement
- Indicates Proposed Prescriptive Easement
- Indicates Proposed Permanent Easement

+00.00 / 00.00' — Station And Offset Denotes Found Point As Noted
(00.00' / +00.00) — Station And Offset In Parenthesis Denotes Proposed Temporary Easement
[00.00' / +00.00] — Station And Offset In Brackets Denotes Proposed Permanent Standard VDOT Utility Easement
[[00.00' / +00.00]] — Station And Offset In Double Brackets Denotes Proposed Permanent Slope And Drainage Easement

SCALE 0 12.5' 25' 50'

PROJECT	SHEET NO.
0669-046-682	4ERW

10/27/2023
5:41:23 PM

d1093140f.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER: Wail Zamzam, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE: Rice Associates (757) 306-4260 1/1/17
DESIGN BY: Jason Henry, P.E. (804) 786-5975 (Central Office)
SUBSURFACE UTILITY BY, DATE: Rice Associates, (757) 306-4260 1/1/17

COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:46:07-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	4F

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

ROUTE 665 (REYNOLDS DR.)

BEGIN CONSTRUCTION
ROUTE 665 STA. 111+05.00

BEGIN SLOPE CORRECTION
ROUTE 665 STA. 113+02.00

Spline Grade

Existing Ground

Match Line Sta. 113+50.00 See Sheet 4E

Right Side of Roadway

Transition

65 60 55 50 45 40 35 30 25 20 15 10 5 0 -5 -10 -15 -20 -25

22.17 22.29 22.29 22.17 22.44 22.56 22.47 22.29 22.08 21.85 21.63 21.4 21.22 21.01 20.82 20.71 20.72 20.76 20.84 20.91 20.96 21.03 21.22 21.38 21.5 21.55 21.52 21.52 21.74

107+00.00 108+00.00 109+00.00 110+00.00 111+00.00 112+00.00 113+00.00

VERTICAL SCALE	HORIZONTAL SCALE	PROJECT	SHEET NO.
0 5' 10'	0 25' 50'	0669-046-682	4F

9/29/2023
4:50:59 PM

d1093404g.dgn
Plotted By:vdotpwiilcs01#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

EROSION & SEDIMENT CONTROL PLAN PHASE I

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:11:42-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	4G

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

BEGIN CONSTRUCTION
ROUTE 665 STA. 111+05.00

BEGIN SLOPE CORRECTION
ROUTE 665 STA. 113+02.00

PCC 109+46.37

PT 111+44.30

ROUTE 665 CONSTRUCTION @

Reynolds Drive

30' Prescriptive Easement

Asphalt Pavement

Verizon N 69° 47' 15" E

Existing R/W

(N 27° 07' 14" E 66.82')

(N 22° 07' 14" E 58.18')

Matchline Sta. 113+50.00 See Sheet 4C

Verizon

Gravel Dr.

Mailbox #2503

PP-T-151

Metal Sign

Grass Area

Mixed Hardwoods & Pines

In. Pl. 15" PVC
Inv. In = 18.74
Inv. Out = 18.48

In. Pl. 15" RCP
Inv. In = 17.42
Inv. Out = 17.23

LOD

TSF-A

IP-C

OP

107 108 109 110

LEGEND:

TSF-A / TSF-B		Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD		Denotes Limits of Disturbance
WL		Denotes Wetland

See Sheet 4 for Utility Owner Information

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type A.
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Install stabilized construction entrances where required.

C _____ Denotes Construction Limits in Cuts

F _____ Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 665 Profile	4F
Drainage Descriptions	15(1)-15(2)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	4G

9/29/2023
4:52:39 PM

d1093404hdgn
Plotted By: vdotpwillcs01#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

EROSION & SEDIMENT CONTROL PLAN PHASE II

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:12:50-04'00'

VDOT Location & Design
Richmond, Virginia
(Hydraulics)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	4H

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

BEGIN CONSTRUCTION
ROUTE 665 STA. 111+05.00

BEGIN SLOPE CORRECTION
ROUTE 665 STA. 113+02.00

PCC 109+46.37

PT 111+44.30

ROUTE 665 CONSTRUCTION @

Reynolds Drive

30' Prescriptive Easement

Asphalt Pavement

Verizon N 69° 47' 15" E

Existing R/W

(N 22° 07' 14" E 66.82')

(N 22° 07' 14" E 58.18')

Matchline Sta. 113+50.00 See Sheet 4D

Verizon

Gravel Dr.

Mailbox #21503

PP-T-151

Metal Sign

Grass Area

Mixed Hardwoods & Pines

In. Pl. 15" PVC
Inv. In = 18.74
Inv. Out = 18.48

In. Pl. 15" RCP
Inv. In = 17.42
Inv. Out = 17.23

Permanent Rock Check Dam For Water Quantity Control

RCD-2

RCD-1

EC-8

IP-C

EC-2, Ty.1

A-6

TSF-A

LOD

LEGEND:

TSF-A / TSF-B		Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
EC-2, Ty.1		Denotes Rolled Erosion Control Product, Temporary, St'd EC-2 Type 1
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD	LOD	Denotes Limits of Disturbance
WL		Denotes Wetland

Notes:
1. Install Phase II E&S measures as shown.
2. Permanent check dam shall not be installed until upstream denuded areas are stabilized. If clogging occurs to orifice or check dam before the end of construction, check dam shall be re-constructed.
3. Pipe cleanout shall not be performed until upstream denuded areas are stabilized.
4. Temporary silt fence shall be left in place until ground is stabilized.
5. Upon completion of grading, permanent seeding should be installed.
6. Remove E&S measures as directed by VDOT RLD.

See Sheet 4 for Utility Owner Information

C _____ Denotes Construction Limits in Cuts

F _____ Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 665 Profile	4F
Drainage Descriptions	15(1)-15(2)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	4H

RIGHT OF WAY PLAN SHEET SHOWING PROPOSED RIGHT OF WAY & EASEMENTS

Conveyed By Deed To The COMMONWEALTH OF VIRGINIA

Newport Magisterial District
Isle Of Wight County, Virginia
Scale 1" = 25'
Plat By Michael L. Williams, L. S.
September 21, 2022

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
02-03-2023	VA.	669	0669-046-682, RW-201, C-501	4RW

COMMONWEALTH OF VIRGINIA
MICHAEL L. WILLIAMS
Lic. No. 2076
LAND SURVEYOR

Michael L. Williams — Digitally signed by Michael L. Williams Date: 2023.02.03 11:34:47-05'00'

VDOT Location & Design
Suffolk, Virginia
LAND SURVEYOR

NAD 83 (11) Virginia South Zone

Curve REYNOLDB_10
PI = 119+65.46
DELTA = 4° 07' 06.36" (RT)
D = 0° 57' 34"
T = 214.69'
L = 429.20'
R = 5,971.00'
PC = 117+50.77
PT = 121+79.97

NOW OR FORMERLY
CALVIN B. LANGHORN
VALERIE S. LANGHORN
Inst.# 130005561
PC 1-390-18
5.00 AC.
TAX PARCEL# 33-15-001

BEGIN PROJECT 0669-046-682 RW-201
ROUTE 669 STA. 16+13.93

Intersection Angle = 89°56'47"
Nike Park Constr. Baseline Sta. 16+49.68
Reynolds Drive Constr. Baseline Sta 115+65.45

Rod (Bent)
+24.34
25.06'

N20°15'17"W 509.20'
Existing Right Of Way
(N12°24'48"W 509.19')

Route 669 (Nike Park Road)
Route 669 Construction Baseline
S 20° 15' 58" E

N= 3,511,563.1429
E= 12,052,904.9600

Route 665 Construction Baseline
Existing Right Of Way
(S77°45'39"W 198.45')
(N77°45'39"E 201.49')

PC117+50.77

(N09°17'43"W 246.57')
N17°07'57"W
+90.21

223.38'
+74.91
222.01'
+99.91

Proposed 25' Wide Permanent Standard VDOT Utility Easement

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.36 AC.
TAX PARCEL# 33-14-004

134.51'
+74.62
134.51'
+83.80
133.20'
+84.00
137.58'
+13.67
98.87'
+89.03
102.90'
+18.76

Proposed Temporary Construction Easement

49.57'
+74.94
49.57'
+25.06
33.98'
+75.45
34.00'
+24.55

48.49'
+33.28
48.59'
+59.06
32.54'
+59.12

73.50'
+92.75
54.35'
+74.35
33.75'
+88.72
26.79'
+99.26
32.00'
+60.00
18.50'
+32.17

Proposed Temporary Construction Easement

34.00'
+25.00
32.00'
+25.00

Proposed Permanent Slope and Drainage Easement

PC18+69.82
18.50'
+69.82

41.50'
+84.00
41.50'
+16.00
33.88'
+84.04
34.00'
+16.00
34.00'
+50.00
32.00'
+50.00

Proposed Temporary Construction Easement

(N 20°48'52" W 1473.26')
N28°39'06"W
+83.73

Curve NIKE_6
PI = 23+78.80
DELTA = 64° 55' 52.33" (LT)
D = 7° 09' 43"
T = 508.98'
L = 906.61'
R = 800.00'
PC = 18+69.82
PT = 27+76.43

Proposed Right Of Way
S20°15'58"E 137.65'
Ch= S52°43'54E 839.01' Arc= 885.65' Rad= 781.50'

Route 669 (Nike Park Road Extension)
N= 3,511,356.6259
E= 12,052,981.2138

Matchline Sta. 20+00.00 See Sheet 5RW

N69°55'25"E
73.29'

Existing Right Of Way

N 69° 47' 15" E

N20°15'58"W 124.44'
Proposed Right Of Way
Ch= N52°43'54"W 890.54' Arc= 940.04' Rad= 829.50'

Proposed Permanent Slope and Drainage Easement

29.50'
+45.38
29.50'
+69.82
40.07'
+00.28
56.21'
+85.18
43.66'
+94.64
44.00'
+55.65
44.00'
+69.82
71.13'
+94.61

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.00 AC.
TAX PARCEL# 33-14-003

94.36'
+74.15
94.39'
+77.42

(N 20°48'52" W 1408.99')
N28°39'06"W
+30.00

Prescriptive Easement
Route 665 (Reynolds Drive)
(R= 19,070.38')
(L= 100.88')

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.00 AC.
TAX PARCEL# 33-14-002

Proposed Permanent Slope and Drainage Easement & Variable Width Permanent Standard VDOT Utility Easement

Matchline Sta. 113+50.00 See Sheet 4ERW

003
PEYTON P. NOTTINGHAM, III
WB Inst.# 030000013
DB 182 PG 519
PB 1 PG 14A
118.00 AC.
TAX PARCEL# 33-01-156

AREA TABLE				
PARCEL #	R/W TAKE	PERMANENT SLOPE & DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT	PERMANENT STANDARD VDOT UTILITY EASEMENT
003	NA	262 SF	176 SF	NA
004	112,119 SF	93,232 SF	12,811 SF	12,416 SF

LINE TABLE

LINE	BEARING	DISTANCE
L1	N20°12'45"W	3.27'

CURVE TABLE

CURVE	BEARING	CHORD	ARC	RADIUS
C1	N69°41'58"E	75.42'	75.42'	19,070.38'
C2	S34°48'58"W	25.11'	25.46'	44.50'
C3	S00°55'10"E	46.05'	46.94'	69.50'
C4	N33°27'27"W	46.33'	46.74'	101.50'
C5	N67°10'37"W	22.09'	22.57'	31.50'
C6	S81°14'07"W	38.94'	39.20'	101.50'

GENERAL NOTES:

1. Plat Is Intended For Acquisition Only And Does Not Constitute A Boundary Survey.
2. Property Line Information Is Based on Plats And Deeds Of Record. Limited Field Work Was Performed In The Creation Of This Plat.
3. Plat Was Prepared Without The Benefit Of A Title Report. Consequently Not All Encumbrances May Be Depicted.
4. All Property And/Or Easements Described Hereon Are Hereby Acquired By Correlated Deed.
5. This Plat Was Forwarded Electronically In "Read Only" Format. Any Attempt At Alteration Invalidates The Seal And Signature. An Original Hard Copy Remains On File At The Virginia Department Of Transportation, Hampton Roads District Office.
6. The Property's Physical Improvements Are Not Shown Hereon.
7. This Survey Datum Is Based On NAD 83 (2011) State Plane Grid Virginia South Zone.
8. Station And Offsets Are Based On The Construction Baseline.
9. Bearings And Distances In Parenthesis Are From Record Data.
10. Right Of Way Monumentation To Be Set Upon Completion Of Construction.

+00.00 / 00.00' — Station And Offset Denotes Found Point As Noted
00.00' / +00.00 — Station And Offset Denotes Proposed RIght Of Way
(00.00' / +00.00) — Station And Offset In Parenthesis Denotes Proposed Temporary Easement
[00.00' / +00.00] — Station And Offset In Brackets Denotes Proposed Permanent Standard VDOT Utility Easement
[[00.00' / +00.00]] — Station And Offset In Double Brackets Denotes Proposed Permanent Slope And Drainage Easement

LEGEND
- Computed Point
- Found Point (As Noted)
- RM-2 (5/8" Rebar w/Cap)
- Indicates Existing Right Of Way
- Indicates Proposed Temporary Easement
- Indicates Proposed Prescriptive Easement
- Indicates Proposed Permanent Easement

SCALE	PROJECT	SHEET NO.
0 12.5' 25' 50'	0669-046-682	4RW

10/27/2023
5:10:33 PM

d1093405.dgn
Plotted By:vdotpwilliCS01#

PROJECT MANAGER _Wail Zamzam, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

Jason L Henry
2023.10.27 13:45:51-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

Shannon Kerrigan
2023.10.31 08:51:15-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	5

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

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.09 AC.
TAX PARCEL* 33-14-005

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.36 AC.
TAX PARCEL* 33-14-004

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.00 AC.
TAX PARCEL* 33-14-003

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.00 AC.
TAX PARCEL* 33-14-002

Matchline Sta. 25+75.00 See Sheet 6

Matchline Sta. 20+00.00 See Sheet 4

Curve NIKE_6
PI = 23+78.80
DELTA = 64° 55' 52.33" (LT)
D = 7° 09' 43"
T = 508.98'
L = 906.61'
R = 800.00'
PC = 18+69.82
PT = 27+76.43
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

ROUTE 669 CONSTRUCTION -B-

57+00.66 Rec'd.

Prop. Permanent Slope and Drainage Easement

Prop R/W

Shared Use Path

Nike Park

Mixed Hardwoods & Pines

(N 20°48'52" W 1473.26')

(N 20°48'52" W 1408.99')

CONSTRUCTION LEGEND

- Denotes Demolition of Pavement
- Denotes Mill and Overlay 2"
- Denotes Proposed Pavement Full Depth
- Denotes Proposed Shared Use Path

ENVIRONMENTAL LEGEND

- Denotes PFO Wetland
- Denotes Jurisdictional Ditch
- --WL-- Wetland

See Sheet 4 for Utility Owner Information

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

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

C ..... Denotes Construction Limits in Cuts

F ____ Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Route 669 Profile	5A
Drainage Descriptions	15(1)-15(2)
E&S	5B-5C

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	5

10/27/2023
5:40:54 PM

d1093405a.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:45:32-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.31 08:52:31-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	5A

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

ROUTE 669 (NIKE PARK)

STA = 21+40.84
EL = 23.07'
V = 75 MPH
SSD = 1749'
ex = -0.80"
K = 1000
L = 800.00

Proposed Grade

-0.40%

-0.40%

Existing Ground

Left

Full Super -4.0%

Left

Right

Full Super -4.0%

Right

65 60 55 50 45 40 35 30 25 20 15 10 5 0 -5 -10 -15 -20 -25

20+00.00 21+00.00 22+00.00 23+00.00 24+00.00 25+00.00

VERTICAL SCALE	HORIZONTAL SCALE	PROJECT	SHEET NO.
0 5' 10'	0 25' 50'	0669-046-682	5A

9/29/2023
4:49:54 PM

d1093405a.dgn
Plotted By: vdotpwillcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

EROSION & SEDIMENT CONTROL PLAN PHASE I

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:13:43-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	5B

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

Matchline Sta. 25+75.00 See Sheet 6B

Matchline Sta. 20+00.00 See Sheet 4C

ROUTE 669 CONSTRUCTION ℄

Curve NIKE_6
PI = 23+78.80
DELTA = 64° 55' 52.33" (LT)
D = 7° 09' 43"
T = 508.98'
L = 906.61'
R = 800.00'
PC = 18+69.82
PT = 27+76.43
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

S 25° 52' W 1473.26'

Duplicate Flow SE-22 (1)

Mixed Hardwoods & Pines

TSF-B
EC-15
LOD
SF-15
SF-21
SF-26
WP-2
WP-5
WP-10
WP-11
WP-13
WR-1
WR-2
WR-5
WO-3
WO-7
WO-8
WO-11
SE-20
SE-21
SE-22 (1)
WL

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type B and a double line of compost filter sock retention rolls (used as perimeter control, not on fill slopes). Compost filter socks shall be biodegradable.
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Install two (2) stabilized construction entrances.

LEGEND:

TSF-A	TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD		Denotes Limits of Disturbance
WL		Denotes Wetland

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

See Sheet 4 for Utility Owner Information

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	5A
Drainage Descriptions	15(1)-15(2)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	5B

9/29/2023
4:50:34 PM

d1093405c.dgn
Plotted By: vdotpwillcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

EROSION & SEDIMENT CONTROL PLAN PHASE II

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:14:40-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	5C

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

Matchline Sta. 25+75.00 See Sheet 6C

Matchline Sta. 20+00.00 See Sheet 4D

ROUTE 669 CONSTRUCTION ℄

Curve NIKE_6
PI = 23+78.80
DELTA = 64° 55' 52.33" (LT)
D = 7° 09' 43"
T = 508.98'
L = 906.61'
R = 800.00'
PC = 18+69.82
PT = 27+76.43
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

Prop. Permanent Slope and Drainage Easement

Shared Use Path

Prop. Permanent Slope and Drainage Easement

Prop. R/W

Srd. CG-6 Req'd.

Srd. CG-6 Req'd.

Duplicate Flow SE-22 (1)

Mixed Hardwoods & Pines

Notes:
1. Install Phase II E&S measures as shown.
2. Temporary silt fence shall be left in place until ground is stabilized.
3. Upon completion of grading, permanent seeding shall be installed.
4. Remove E&S measures as directed by VDOT RLD.

LEGEND:

TSF-A / TSF-B		Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
EC-2, Ty.1		Denotes Rolled Erosion Control Product, Temporary, St'd EC-2 Type 1
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD	LOD	Denotes Limits of Disturbance
-WL-		Denotes Wetland

C ..... Denotes Construction Limits in Cuts
F ____ Denotes Construction Limits in Fills

See Sheet 4 for Utility Owner Information

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	5A
Drainage Descriptions	15(1)-15(2)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	5C

RIGHT OF WAY PLAN SHEET SHOWING
PROPOSED RIGHT OF WAY & EASEMENTS
Conveyed By Deed To The
COMMONWEALTH OF VIRGINIA

Newport Magisterial District
Isle Of Wight County, Virginia
Scale 1" = 25'
Plat By Michael L. Williams, L. S.
September 21, 2022

GENERAL NOTES:

1. Plat Is Intended For Acquisition Only And Does Not Constitute A Boundary Survey.
2. Property LIne Information Is Based on Plats And Deeds Of Record. Limited Field Work Was Performed In The Creation Of This Plat.
3. Plat Was Prepared Without The Benefit Of A Title Report, Consequently Not All Encumbrances May Be Depicted.
4. All Property And/Or Easements Described Hereon Are Hereby Acquired By Correlated Deed.
5. This Plat Was Forwarded Electronically In "Read Only" Format. Any Attempt At Alteration Invalidates The Seal And Signature. An Original Hard Copy Remains On File At The Virginia Department Of Transportation, Hampton Roads District Office.
6. The Property's Physical Improvements Are Not Shown Hereon.
7. This Survey Datum Is Based On NAD 83 (2011) State Plane Grid Virginia South Zone.
8. Station And Offsets Are Based On The Construction Baseline.
9. Bearings And Distances In Parenthesis Are From Record Data.
10. Right Of Way Monumentation To Be Set Upon Completion Of Construction.

COMMONWEALTH OF VIRGINIA
MICHAEL L. WILLIAMS
Lic. No. 2076
LAND SURVEYOR

Michael L. Williams — Digitally signed by Michael L. Williams Date: 2022.11.03 12:38:56-04'00'

VDOT Location & Design
Suffolk, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	5RW

NAD 83 (11) Virginia South Zone

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.09 AC.
TAX PARCEL# 33-14-005

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.36 AC.
TAX PARCEL# 33-14-004

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.00 AC.
TAX PARCEL# 33-14-003

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.00 AC.
TAX PARCEL# 33-14-002

Matchline Sta. 25+75.00 See Sheet 6RW

Matchline Sta. 20+00.00 See Sheet 4RW

(N20°48'52"W 1244.44')
N28°39'06"W

(N20°48'52"W 1473.26')
N28°39'06"W +95.36

(N20°48'52"W 1408.99')
N28°39'06"W +30.00

Proposed Permanent Slope and Drainage Easement

Proposed Right Of Way

Route 669 (Nike Park Road Extension)

Route 669 Construction baseline

Ch= S52°43'54"E 839.01' Arc= 865.65' Rad= 761.50'

Ch= N52°43'54"W 890.54' Arc= 940.04' Rad= 829.50'

N= 3,510,906.3458
E= 12,053,398.8593

N= 3,511,155.0562
E= 12,053,090.6964

Curve NIKE_6
PI = 23+78.80
DELTA = 64° 55' 52.33" (LT)
D = 7° 09' 43"
T = 508.98'
L = 906.61'
R = 800.00'
PC = 18+69.82
PT = 27+76.43

AREA TABLE				
PARCEL #	R/W TAKE	PERMANENT SLOPE & DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT	PERMANENT STANDARD VDOT UTILITY EASEMENT
004	112,119 SF	93,232 SF	12,811 SF	12,416 SF

LEGEND
Indicates Existing Tract Line
Indicates Proposed Permanent Easement

SCALE	PROJECT	SHEET NO.
0 12.5' 25' 50'	0669-046-682	5RW

10/27/2023
5:10:39 PM

d1093406.dgn
Plotted By: vdotpwillcs01#

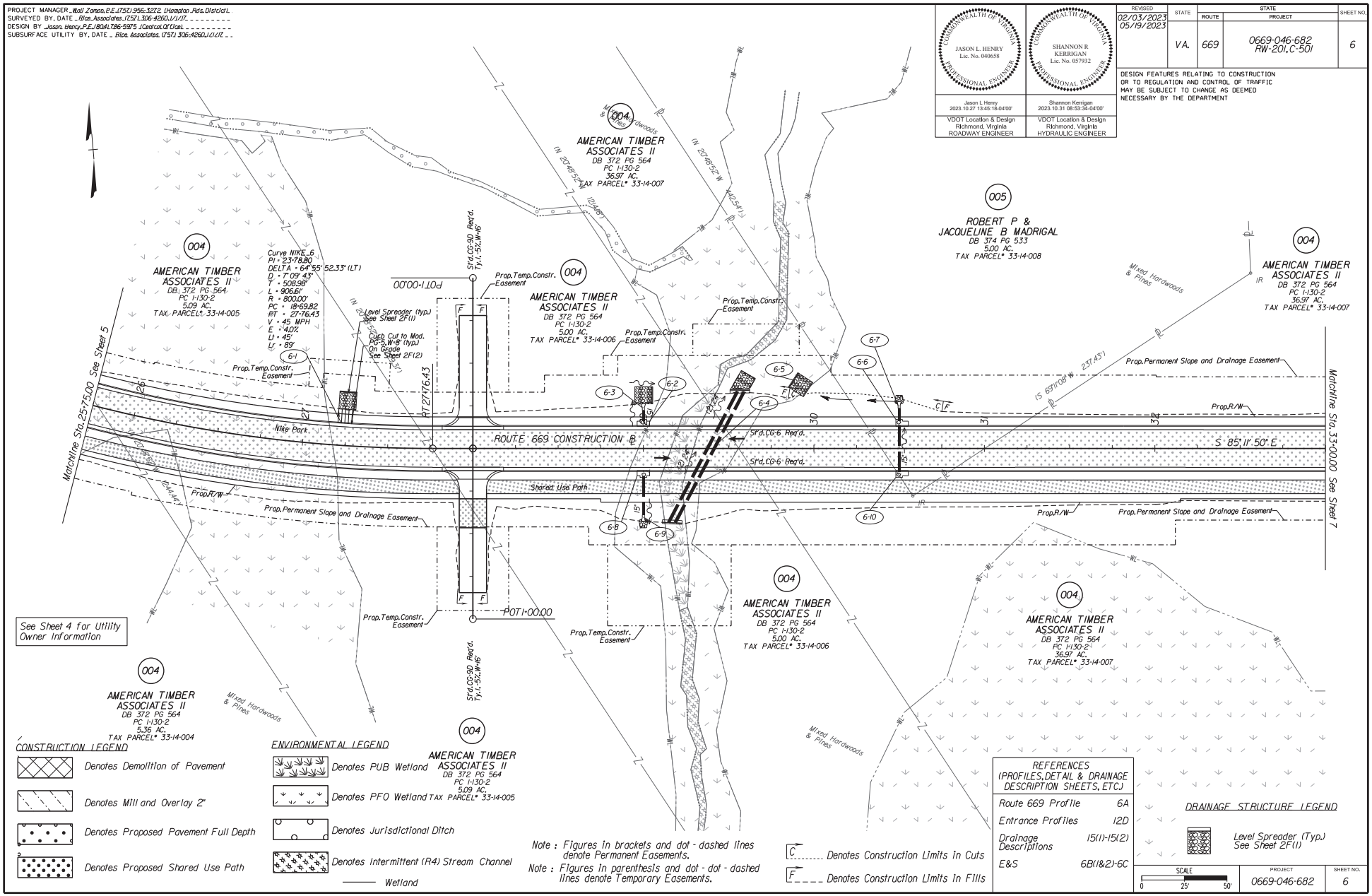
PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _

JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA
Jason L Henry
2023.10.27 13:45:18-04'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA
Shannon Kerrigan
2023.10.31 08:53:34-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
02/03/2023 05/19/2023	VA.	669	0669-046-682 RW-201, C-501	6

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



CONSTRUCTION LEGEND

- Denotes Demolition of Pavement
- Denotes Mill and Overlay 2"
- Denotes Proposed Pavement Full Depth
- Denotes Proposed Shared Use Path

ENVIRONMENTAL LEGEND

- Denotes PUB Wetland
- Denotes PFO Wetland
- Denotes Jurisdictional Ditch
- Denotes Intermittent (R4) Stream Channel
- Wetland

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

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

C ..... Denotes Construction Limits in Cuts

F ____ Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Route 669 Profile	6A
Entrance Profiles	12D
Drainage Descriptions	15(1)-15(2)
E&S	6B(1&2)-6C

DRAINAGE STRUCTURE LEGEND

Level Spreader (Typ.) See Sheet 2F(1)

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	6

10/27/2023
5:40:36 PM

d1093406a.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

COMMONWEALTH OF VIRGINIA
JASON L HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:45:03-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.31 08:54:17-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	6A

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

ROUTE 669 (NIKE PARK)

Proposed Grade
-0.40%
-0.40%
Existing Ground
STA = 29+08.6
EL = 20.00
V = 65 MPH
e = 0.03
R = 1169
L = 135.00

Left
Full Super -4.0%
+46.76
Transition
9.26
Normal Crown -2.0%
Left

Right
Full Super -4.0%
+46.76
Transition
-80.76
Normal Crown -2.0%
Right

-46.76
-35.76
-80.76
LT=89°
LT=45°

65 60 55 50 45 40 35 30 25 20 15 10 5 0 -5 -10 -15 -20 -25

2134 1948 2244 2126 2142 2127 2094 2142 2034 2142 2024 2142 2074 2142 2064 2142 2054 2142 2044 2142 2034 2142 2024 2142 2017 2143 2014 2145 2015 2139 2019 2136 2027 2130 2037 2143 2047 2146 2057 2127 2067 2155 2077 2140 2087 2125 2097 2126 2107 2153 2117 2170 2127 2158 2137 2169 2147 2162

26+00.00 27+00.00 28+00.00 29+00.00 30+00.00 31+00.00 32+00.00 33+00.00

VERTICAL SCALE	HORIZONTAL SCALE	PROJECT	SHEET NO.
0 5' 10'	0 25' 50'	0669-046-682	6A

10/17/2023
7:21:29 PM

d1093406b1.dgn
Plotted By: vdotpwillcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

EROSION & SEDIMENT CONTROL PLAN PHASE I PART 1

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.17 15:37:49-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	6B(1)

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

Curve NIKE_6
PI = 23+78.80
DELTA = 64° 55' 52.33" (LT)
D = 7° 09' 43"
T = 508.98'
L = 906.61'
R = 800.00'
PC = 18+69.82
PT = 27+76.43
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 69'

POT1+00.00

ROUTE 669 CONSTRUCTION ℄

S 85° 11' 50" E

Matchline Sta. 25+75.00 See Sheet 5B

Matchline Sta. 33+00.00 See Sheet 7B

Mixed Hardwoods & Pines

IR

(N 20° 48' 52" W) (226.37')

(N 20° 48' 52" W) (1246.61')

(N 23° 48' 32" W) (442.54')

(S 69° 03' 23" E) (237.43')

TSF-A TSF-B RCD-2 EC-15 EC-8 EC-14 6b-1 IP-A IP-B IP-C OP LOD

LEGEND:

TSF-A / TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15	Denotes Sediment Rentention Roll: Slope Interrupter
TDC	Denotes Temporary Diversion Channel, St'd EC-12
RCD-1	Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2	Denotes Rock Check Dam, Type II: St'd EC-4
IP-A	Denotes Inlet Protection, Type A: St'd EC-6
IP-B	Denotes Inlet Protection, Type B: St'd EC-6
IP-C	Denotes Inlet Protection C: St'd EC-6
OP	Denotes Outlet Protection: St'd EC-1
LOD	Denotes Limits of Disturbance
--WL--	Denotes Wetland

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type B and a double line of compost filter sock retention rolls (used as perimeter control, not on fill slopes). Compost filter socks shall be biodegradable.
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Temporary culvert crossing shall be installed before installation of diversion dike and shall be removed within 14 days.
4. Install two (2) stabilized construction entrances.
5. Contractor to ensure only clean water, with no turbidity, leaves site and drains to stream.

C ____ Denotes Construction Limits in Cuts

F ____ Denotes Construction Limits in Fills

See Sheet 4 for Utility Owner Information

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	6A
Entrance Profiles	12
Drainage Descriptions	15(1)-15(2)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	6B(1)

10/17/2023
7:21:34 PM

d1093140682.dgn
Plotted By: vdotpwillcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 10/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 10/17_

EROSION & SEDIMENT CONTROL PLAN PHASE I PART 2

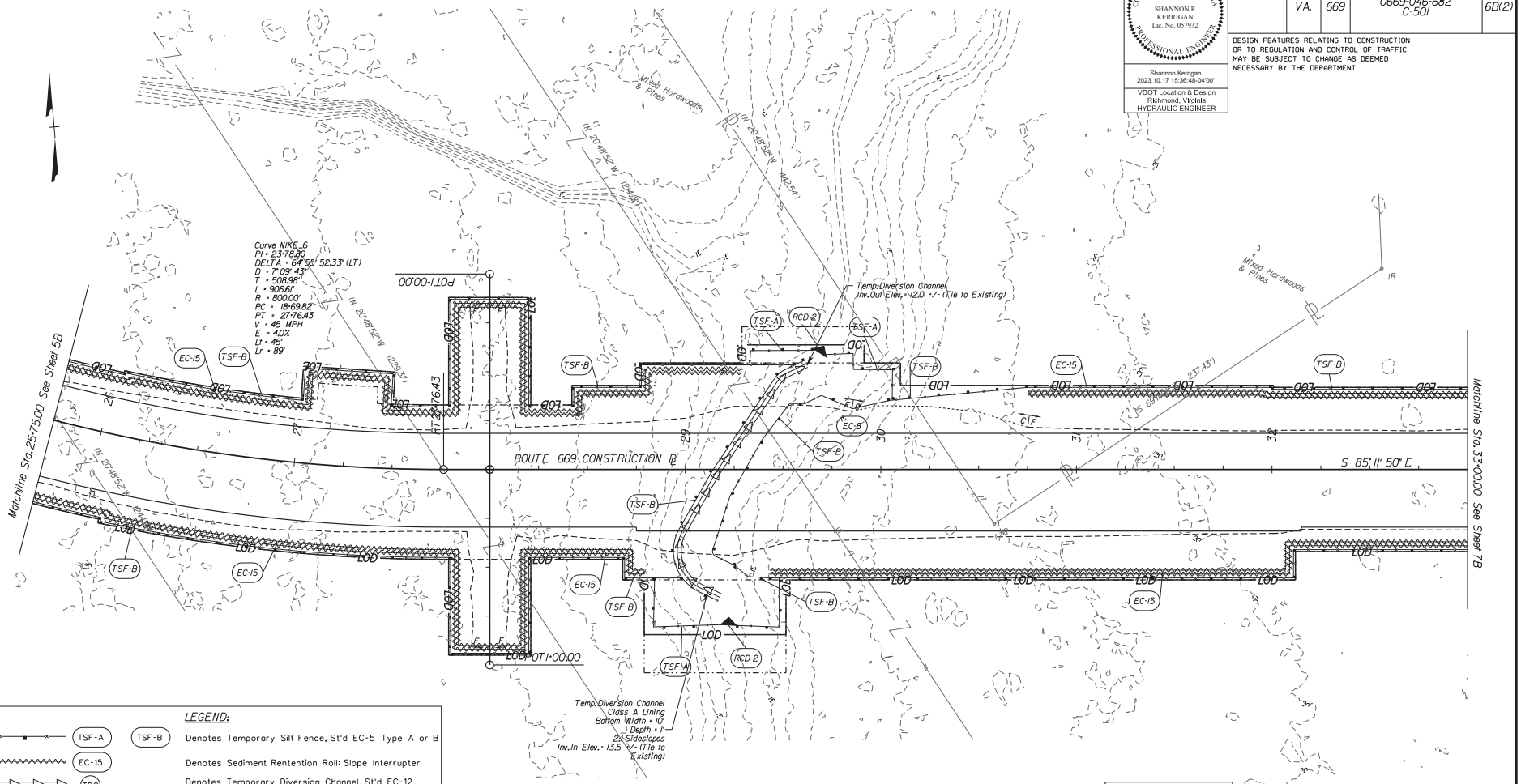
COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.17 15:36:48-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	6B(2)

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



LEGEND:

TSF-A / TSF-B		Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
RCD-1	△	Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2	▲	Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD	LOD	Denotes Limits of Disturbance
-WL-		Denotes Wetland

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type B and a double line of compost filter sock retention rolls (used as perimeter control, not on fill slopes). Compost filter socks shall be biodegradable.
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Temporary culvert crossing shall be installed before installation of diversion dike and shall be removed within 14 days.
4. Install two (2) stabilized construction entrances.
5. Contractor to ensure only clean water, with no turbidity, leaves site and drains to stream.

C _____ Denotes Construction Limits in Cuts
F _____ Denotes Construction Limits in Fills

See Sheet 4 for Utility Owner Information

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	6A
Entrance Profiles	12
Drainage Descriptions	15(1)-15(2)

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	6B(2)

10/17/2023
7:21:30 PM

d1093406c.dgn
Plotted By: vdotpwillcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 10/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 10/17 _

EROSION & SEDIMENT CONTROL PLAN PHASE II

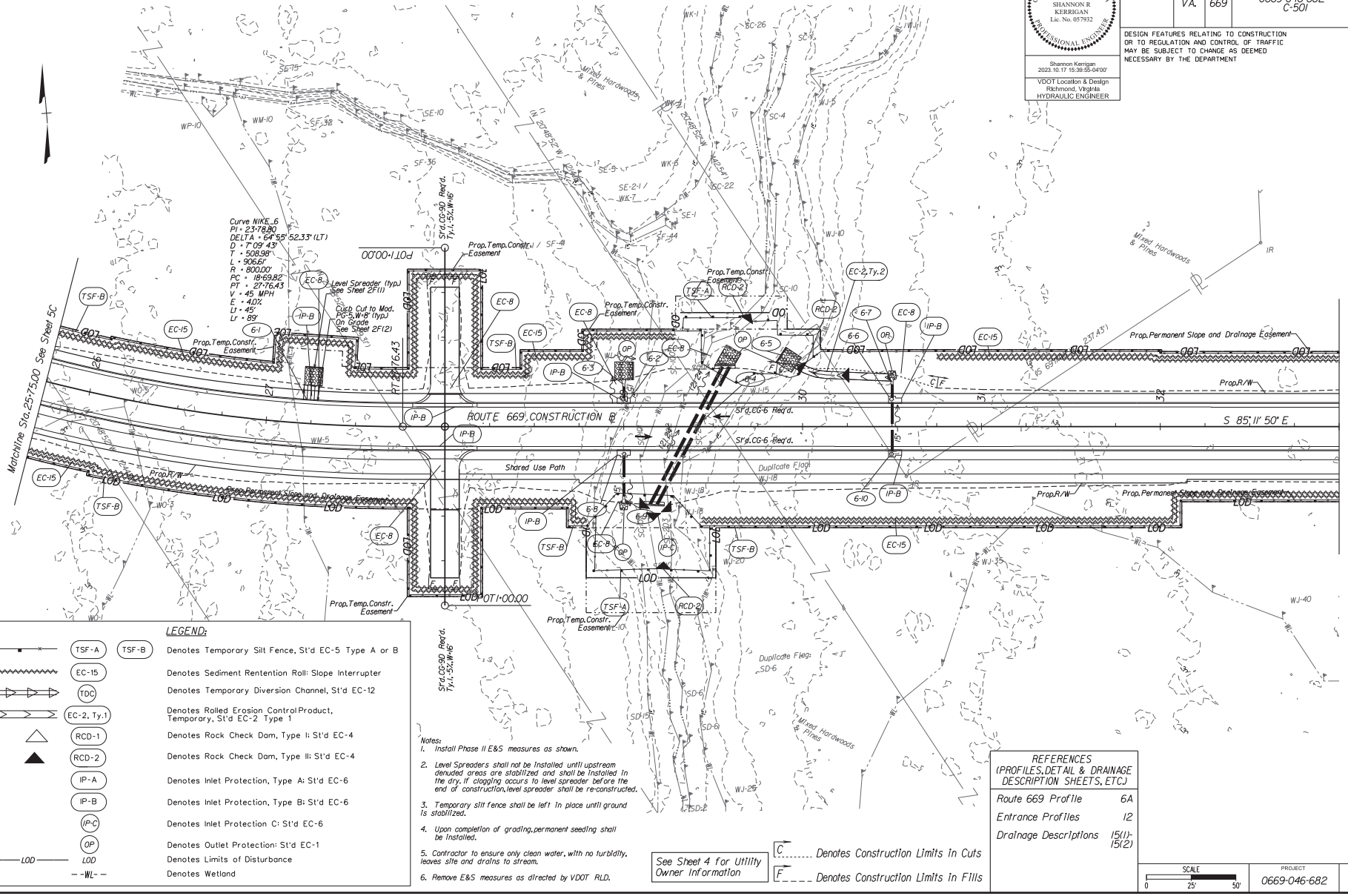
COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.17 15:39:55-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	6C

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



LEGEND:

TSF-A / TSF-B		Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
EC-2, Ty.1		Denotes Rolled Erosion Control Product, Temporary, St'd EC-2 Type 1
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD	LOD	Denotes Limits of Disturbance
-WL-		Denotes Wetland

Notes:
1. Install Phase II E&S measures as shown.
2. Level Spreaders shall not be installed until upstream denuded areas are stabilized and shall be installed in the dry. If clogging occurs to level spreader before the end of construction, level spreader shall be re-constructed.
3. Temporary silt fence shall be left in place until ground is stabilized.
4. Upon completion of grading, permanent seeding shall be installed.
5. Contractor to ensure only clean water, with no turbidity, leaves site and drains to stream.
6. Remove E&S measures as directed by VDOT RLD.

See Sheet 4 for Utility Owner Information

C ..... Denotes Construction Limits in Cuts
F ..... Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	6A
Entrance Profiles	12
Drainage Descriptions	15(1)-15(2)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	6C

RIGHT OF WAY PLAN SHEET SHOWING PROPOSED RIGHT OF WAY & EASEMENTS

Conveyed By Deed To The COMMONWEALTH OF VIRGINIA

Newport Magisterial District
Isle Of Wight County, Virginia
Scale 1" = 25'
Plat By Michael L. Williams, L. S.
September 21, 2022

COMMONWEALTH OF VIRGINIA
MICHAEL L. WILLIAMS
Lic. No. 2076
LAND SURVEYOR

Michael L. Williams — Digitally signed by Michael L. Williams Date: 2023.02.03 11:36:25-05'00'

VDOT Location & Design
Suffolk, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
02-03-2023	VA.	669	0669-046-682 RW-201, C-501	6RW

GENERAL NOTES:

1. Plat Is Intended For Acquisition Only And Does Not Constitute A Boundary Survey.
2. Property Line Information Is Based on Plats And Deeds Of Record. Limited Field Work Was Performed In The Creation Of This Plat.
3. Plat Was Prepared Without The Benefit Of A Title Report, Consequently Not All Encumbrances May Be Depicted.
4. All Property And/Or Easements Described Hereon Are Hereby Acquired By Correlated Deed.
5. This Plat Was Forwarded Electronically In "Read Only" Format. Any Attempt At Alteration Invalidates The Seal And Signature. An Original Hard Copy Remains On File At The Virginia Department Of Transportation, Hampton Roads District Office.
6. The Property's Physical Improvements Are Not Shown Hereon.
7. This Survey Datum Is Based On NAD 83 (2011) State Plane Grid Virginia South Zone.
8. Station And Offsets Are Based On The Construction Baseline.
9. Bearings And Distances In Parenthesis Are From Record Data.
10. Right Of Way Monumentation To Be Set Upon Completion Of Construction.

Curve NIKE_6
PI = 23+78.80
DELTA = 64° 55' 52.33" (LT)
D = 7° 09' 43"
T = 508.98'
L = 906.61'
R = 800.00'
PC = 18+69.82
PT = 27+76.43

004 AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.09 AC.
TAX PARCEL# 33-14-005

004 AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5,00 AC.
TAX PARCEL# 33-14-006

004 AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
36,97 AC.
TAX PARCEL# 33-14-007

005 ROBERT P & JACQUELINE B. MADRIGAL
DB 374 PG 533
5,00 AC.
TAX PARCEL# 33-14-008

004 AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5,09 AC.
TAX PARCEL# 33-14-005

004 AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5,36 AC.
TAX PARCEL# 33-14-004

004 AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
5.00 AC.
TAX PARCEL# 33-14-006

004 AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
36,97 AC.
TAX PARCEL# 33-14-007

Matchline Sta. 25+75.00 See Sheet 5RW

Matchline Sta. 33+00.00 See Sheet 7RW

Route 669 Construction Baseline

N= 3,510,836.5383
E= 12,053,664.7085

Route 669 (Nike Park Road Extension)

N= 3,510,801.0748
E= 12,054,086.7873

PT 27+76.43

Proposed Right Of Way
Ch= S52°43'54E 839.01' Arc= 885.65' Rad= 781.50'

Ch= N52°43'54"W 890.54' Arc= 940.04' Rad= 829.50'
Proposed Right Of Way

Proposed Temporary Construction Easement

Proposed Permanent Slope and Drainage Easement

Prop. Permanent Slope and Drainage Easement

S85°11'50"E 250.99'
S85°11'50"E 100.83'
S85°11'50"E 600.29'
S 85° 11' 50" E

N85°11'50"W 98.57'
N85°11'50"W 340.00'
N85°11'50"W 513.54'

(N20°48'52"W 1229.31')
(N20°48'52"W 1214.18')
(N20°48'52"W 1244.44')
(N20°48'52"W 442.54')
N28°39'06"W +76.18
N28°39'06"W +76.14
N28°39'06"W +55.93
N28°39'01"W 442.45'

S26°39'01"E 55.50'
N61°24'13"E 84.12'
(S69°11'08"W 237.43')
S61°24'13"W 237.33'
(S10°14'17"E 295.69')
S62°24'01"E 295.83

IR +56.15 102.83'
IR +58.02 27.81'

L1 S04°48'10"W 2.00'
L2 N04°48'10"E 2.00'

LINE TABLE

LINE	BEARING	DISTANCE
L1	S04°48'10"W	2.00'
L2	N04°48'10"E	2.00'

AREA TABLE

PARCEL #	R/W TAKE	PERMANENT SLOPE & DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT	PERMANENT STANDARD VDOT UTILITY EASEMENT
004	112,119 SF	93,232 SF	12,811 SF	12,416 SF
005	2,334 SF	3,154 SF	NA	NA

+00.00 / 00.00' Station And Offset Denotes Found Point As Noted

00.00' / +00.00 Station And Offset Denotes Proposed Right Of Way

(00.00' / +00.00) Station And Offset In Parenthesis Denotes Proposed Temporary Easement

[00.00' / +00.00] Station And Offset In Double Brackets Denotes Proposed Permanent Slope And Drainage Easement

LEGEND
- Computed Point
- Found Point (As Noted)
- RM-2 (5/8" Rebar w/Cap)
- Indicates Proposed Temporary Easement
- Indicates Existing Tract Line
- Indicates Proposed Permanent Easement

NAD 83 (11) Virginia South Zone

SCALE 0 12.5' 25' 50'

PROJECT	SHEET NO.
0669-046-682	6RW

10/27/2023
5:41:00 PM

d1093407.dgn
Plotted By: vdotpwillcs01#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

Jason L Henry
2023.10.27 13:44:47 -04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

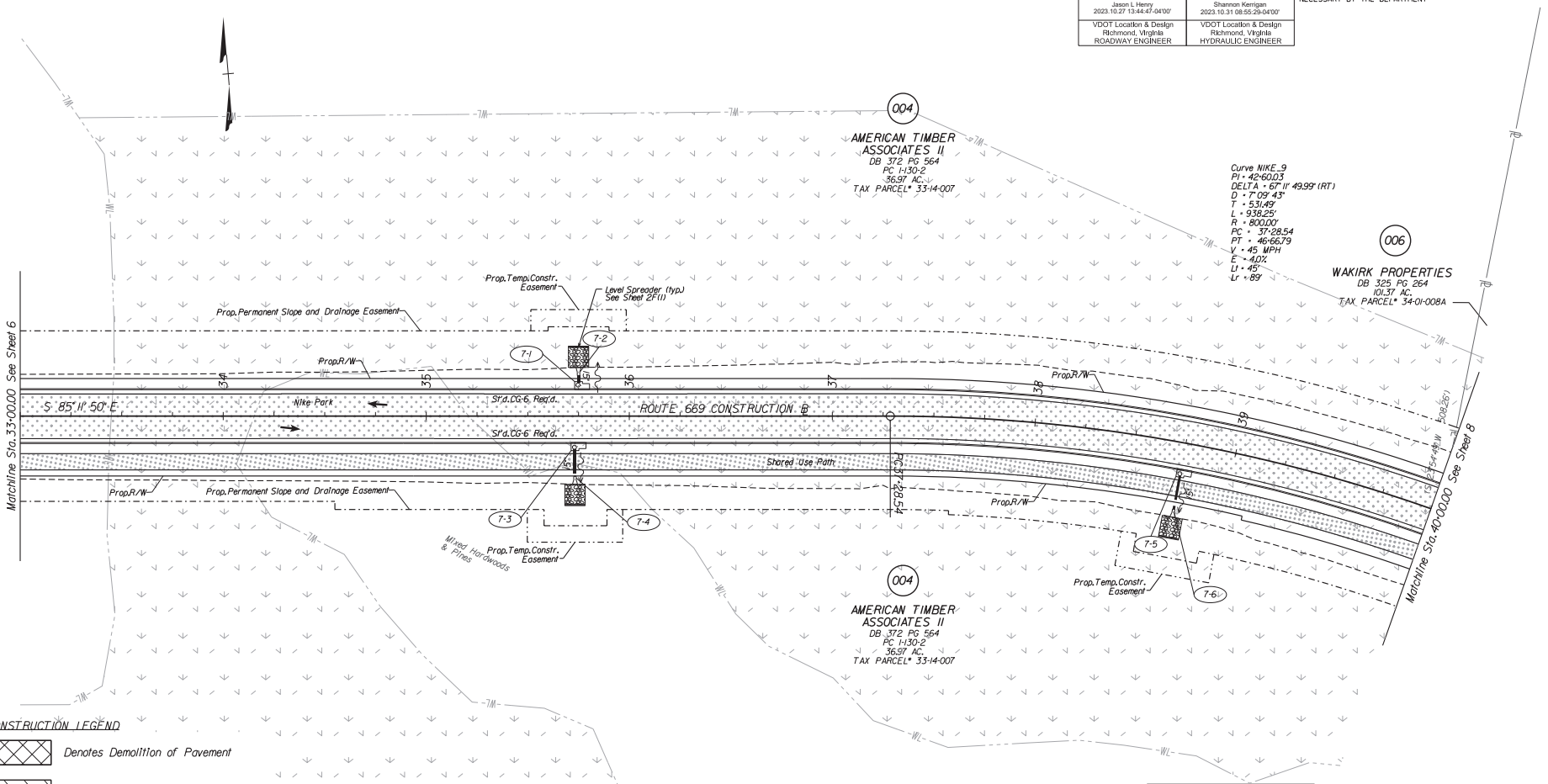
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

Shannon Kerrigan
2023.10.31 08:55:29 -04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
02/03/2023	VA.	669	0669-046-682 RW-201, C-501	7

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



CONSTRUCTION LEGEND

- Denotes Demolition of Pavement
- Denotes Mill and Overlay 2"
- Denotes Proposed Pavement Full Depth
- Denotes Proposed Shared Use Path
- C ..... Denotes Construction Limits in Cuts
- F ____ Denotes Construction Limits in Fills

See Sheet 4 for Utility Owner Information

ENVIRONMENTAL LEGEND

- Denotes PFO Wetland
- --WL-- Wetland

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

DRAINAGE STRUCTURE LEGEND

- Level Spreader (Typ.) See Sheet 2F(1)

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	7A
Drainage Descriptions	15(1)-15(2)
E&S	7B-7C

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	7

10/27/2023
5:40:53 PM

d1093407a.dgn
Plotted By:vdotpwiilcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

JASON L. HENRY
Lic. No. 040658
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
Jason L Henry
2023.10.27 13:44:31-04'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

SHANNON R KERRIGAN
Lic. No. 057932
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER
Shannon Kerrigan
2023.10.31 08:56:25-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	7A

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

ROUTE 669 (NIKE PARK)

STA = 42+23.46
EL = 25.26
V = 75 MPH
SSD = 917'
ex = -1.0%
K = 309
L = 500.00

Proposed Grade
-0.40%
Existing Ground
-24.2'
-59.2'
L1=45'
Lr=89'
Left
Normal Crown -2.0%
Transition
Full Super -4.0%
Right
-157.1'

33+00.00	34+00.00	35+00.00	36+00.00	37+00.00	38+00.00	39+00.00	40+00.00
21.57	21.67	21.80	21.73	21.70	21.64	21.74	21.81
20.57	20.87	20.77	20.89	20.91	20.07	20.17	22.57
22.52	22.13	20.46	20.46	20.78	22.57	20.16	22.65
20.24	22.77	19.92	20.06	19.59	22.91	19.62	23.07
19.73	23.17	19.58	23.27	19.90	23.37	19.87	23.47
19.57	23.57	19.56	23.67	20.14	23.77	19.84	23.87
19.84	23.97	19.97	24.07	19.92	24.17	19.56	24.27
19.59							

VERTICAL SCALE	HORIZONTAL SCALE	PROJECT	SHEET NO.
0 5' 10'	0 25' 50'	0669-046-682	7A

9/29/2023
4:50:08 PM

d1093140Tbdgn
Plotted By:vdotpwilcs01#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

EROSION & SEDIMENT CONTROL PLAN PHASE I

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:18:34-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	7B

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

Matchline Sta. 33+00.00 See Sheet 6B

Matchline Sta. 40+00.00 See Sheet 8B

ROUTE 669 CONSTRUCTION ℄

Curve NIKE_9
PI = 42+60.03
DELTA = 67° 11' 49.99" (RT)
D = 7° 09' 43"
T = 531.49'
L = 938.25'
R = 800.00'
PC = 37+28.54
PT = 46+66.79
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

TSF-B, EC-15, LOD, WH-35, WH-30, WH-29, WH-28, WH-27, WH-26, WH-25, WH-24, WH-23, WH-22, WH-21, WH-20, WH-19, WH-17, WH-45, WH-40, WJ-51, WJ-50, WJ-45, Mixed Hardwoods & Pines

LEGEND:

TSF-A	TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD		Denotes Limits of Disturbance
WL		Denotes Wetland

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type B and a double line of compost filter sock retention rolls (used as perimeter control, not on fill slopes). Compost filter socks shall be biodegradable.
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Install two (2) stabilized construction entrances.

See Sheet 4 for Utility Owner Information

C ____ Denotes Construction Limits in Cuts
F ____ Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	7A
Drainage Descriptions	15(1)-15(2)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	7B

9/29/2023
4:50:21 PM

d1093407.dgn
Plotted By: vdotpwillcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

EROSION & SEDIMENT CONTROL PLAN PHASE II

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:19:31-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	7C

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

Curve NIKE_9
PI = 42+60.03
DELTA = 67° 11' 49.99" (RT)
D = 7° 09' 43"
T = 531.49'
L = 938.25'
R = 800.00'
PC = 37+28.54
PT = 46+66.79
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

Matchline Sta. 33+00.00 See Sheet 6C

Matchline Sta. 40+00.00 See Sheet 8C

ROUTE 669 CONSTRUCTION B

Prop. Temp. Constr. Easement
Level Spreader (typ.) See Sheet 2F(1)
Prop. Permanent Slope and Drainage Easement
Prop. R/W
St'd. CG-6 Req'd.
Shared Use Path
Mixed Hardwoods & Pines
WJ-51
WJ-50
WJ-45
WH-40
WH-30
WH-29
WH-28
WH-27
WH-26
WH-25
WH-24
WH-23
WH-22
WH-21
WH-20
WH-19
WH-17
WH-45
7-1
7-2
7-3
7-4
7-5
7-6
TSF-B
EC-15
EC-8
IP-B
RCD-2
LOD
C
F

LEGEND:

TSF-A	TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
EC-2, Ty.1		Denotes Rolled Erosion Control Product, Temporary, St'd EC-2 Type 1
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD		Denotes Limits of Disturbance
-WL-		Denotes Wetland

Notes:
1. Install Phase II E&S measures as shown.
2. Level Spreaders shall not be installed until upstream denuded areas are stabilized and shall be installed in the dry. If clogging occurs to level spreader before the end of construction, level spreader shall be re-constructed.
3. Temporary silt fence shall be left in place until ground is stabilized.
4. Upon completion of grading, permanent seeding shall be installed.
5. Remove E&S measures as directed by VDOT RLD.

See Sheet 4 for Utility Owner Information

C ..... Denotes Construction Limits in Cuts
F ____ Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	7A
Drainage Descriptions	15(1)-15(2)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	7C

GENERAL NOTES:

1. Plat Is Intended For Acquisition Only And Does Not Constitute A Boundary Survey.
2. Property Line Information Is Based on Plats And Deeds Of Record. Limited Field Work Was Performed In The Creation Of This Plat.
3. Plat Was Prepared Without The Benefit Of A Title Report. Consequently Not All Encumbrances May Be Depicted.
4. All Property And/Or Easements Described Hereon Are Hereby Acquired By Correlated Deed.
5. This Plat Was Forwarded Electronically In "Read Only" Format. Any Attempt At Alteration Invalidates The Seal And Signature. An Original Hard Copy Remains On File At The Virginia Department Of Transportation, Hampton Roads District Office.
6. The Property's Physical Improvements Are Not Shown Hereon.
7. This Survey Datum Is Based On NAD 83 (2011) State Plane Grid Virginia South Zone.
8. Station And Offsets Are Based On The Construction Baseline.
9. Bearings And Distances In Parenthesis Are From Record Data.
10. Right Of Way Monumentation To Be Set Upon Completion Of Construction.

RIGHT OF WAY PLAN SHEET SHOWING PROPOSED RIGHT OF WAY & EASEMENTS

Conveyed By Deed To The COMMONWEALTH OF VIRGINIA

Newport Magisterial District
Isle Of Wight County, Virginia
Scale 1" = 25'
Plat By Michael L. Williams, L. S.
September 21, 2022

COMMONWEALTH OF VIRGINIA
MICHAEL L. WILLIAMS
Lic. No. 2076
LAND SURVEYOR

Michael L Williams — Digitally signed by Michael L. Williams Date: 2022.11.03 12:42:17-04'00'

VDOT Location & Design
Suffolk, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	7RW

NAD 83 (11) Virginia South Zone

Curve NIKE_9
PI = 42+60.03
DELTA = 67° 11' 49.99" (RT)
D = 7° 09' 43"
T = 531.49'
L = 938.25'
R = 800.00'
PC = 37+28.54
PT = 46+66.79

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
36.97 AC.
TAX PARCEL# 33-14-007

006
WAKIRK PROPERTIES
DB 325 PG 264
101.37 AC.
TAX PARCEL# 34-01-008A

Matchline Sta. 33+00.00 See Sheet 6RW

Matchline Sta. 40+00.00 See Sheet 8RW

Proposed Permanent Slope and Drainage Easement

Proposed Temporary Construction Easement

Proposed RIght Of Way
S85°11'50"E — 600.29'

Route 669 (Nike Park Road Extension) S 85° 11' 50" E — Route 669 Construction Baseline

N= 3,510,784.3295
E= 12,054,286.0850

N= 3,510,756.8224
E= 12,054,613.4683

Proposed Right Of Way
Ch= S75°24'30"E 278.32' Arc= 279.68' Rad= 818.50'

Ch= N78°41'56"W 174.40 Arc= 174.78' Rad= 770.50'

Ch= N68°38'16"W 95.51' Arc= 95.57' Rad= 768.50'

L1

N85°11'50"W 513.54'
Proposed RIght Of Way

PC37+28.54

(S23°54'49"W 508.26')
S16°04'35"W +04.59

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N17°47'58"E	2.00'

AREA TABLE				
PARCEL #	R/W TAKE	PERMANENT SLOPE & DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT	PERMANENT STANDARD VDOT UTILITY EASEMENT
004	112,119 SF	93,232 SF	12,811 SF	12,416 SF
006	96,127 SF	76,667 SF	9,391 SF	6,770 SF

00.00' +00.00 — Station And Offset Denotes Proposed RIght Of Way

(00.00' +00.00) — Station And Offset In Parenthesis Denotes Proposed Temporary Easement

[00.00' +00.00] — Station And Offset In Double Brackets Denotes Proposed Permanent Slope And Drainage Easement

LEGEND
- Computed Point
- RM-2 (5/8" Rebar w/Cap)
- Indicates Proposed Temporary Easement
- Indicates Proposed Permanent Easement

SCALE 0 12.5' 25' 50'

PROJECT	SHEET NO.
0669-046-682	7RW

10/27/2023
5:10:45 PM

d1093408.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA
Jason L Henry
2023.10.27 13:44:15-04'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA
Shannon Kerrigan
2023.10.31 08:57:27-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
05/19/2023	VA.	669	0669-046-682 RW-201, C-501	8

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

Curve NIKE_9
PI = 42+60.03
DELTA = 67° 11' 49.99" (RT)
D = 7°09' 43"
T = 531.49'
L = 938.25'
R = 800.00'
PC = 37+28.54
PT = 46+66.79
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

006
WAKIRK PROPERTIES
DB 325 PG 264
101.37 AC.
TAX PARCEL* 34-01-008A

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
36.97 AC.
TAX PARCEL* 33-14-007

ROUTE 669 CONSTRUCTION ℄
Prop.R/W
Prop.Permanent Slope and Drainage Easement
Std.CG-6 Reqd.
Shared Use Path
Nike Path
130' VEPCO Easement
30' VEPCO Easement
Matchline Sta.40+00.00 See Sheet 7
Matchline Sta.47+25.00 See Sheet 9
S 18° 00' 00" E
Prop.Temp.Constr. Easement
Level Spreader (typ.) See Sheet 2F(1)
Curb Cut to Mod. PG-5, W=3' (typ.) In Sump See Sheet 2F(2)
8-1
8-2
8-3
8-4
8-5
8-6
Mixed Hardwoods & Pines
Open Field
Gravel Rd
Dirt Road
Overhead Power Line
Underground Gas Line
Underground Telephone Line
Underground Water Line
Overhead Telephone Line
Overhead Power Line
Drainage Ditch
Edge of Pavement
Utility Pole
Guy Wire
Fence
Tree Line
Existing Building
Existing Shed
Existing Trailer
Existing Garage
Existing Pool
Existing Tank
Existing Gazebo
Existing Deck
Existing Pavilion
Existing Barn
Existing Silo
Existing Greenhouse
Existing Stable
Existing Tennis Court
Existing Basketball Court
Existing Swimming Pool
Existing Horse Ring
Existing Horse Barn
Existing Horse Shelter
Existing Horse Stable
Existing Horse Trailer
Existing Horse Trailer Shelter
Existing Horse Trailer Garage
Existing Horse Trailer Storage
Existing Horse Trailer Office
Existing Horse Trailer Restroom
Existing Horse Trailer Kitchen
Existing Horse Trailer Laundry
Existing Horse Trailer Bathroom
Existing Horse Trailer Shower
Existing Horse Trailer Sink
Existing Horse Trailer Toilet
Existing Horse Trailer Refrigerator
Existing Horse Trailer Stove
Existing Horse Trailer Oven
Existing Horse Trailer Microwave
Existing Horse Trailer Dishwasher
Existing Horse Trailer Washer
Existing Horse Trailer Dryer
Existing Horse Trailer Water Heater
Existing Horse Trailer Furnace
Existing Horse Trailer Air Conditioner
Existing Horse Trailer Heat Pump
Existing Horse Trailer Solar Panel
Existing Horse Trailer Wind Turbine
Existing Horse Trailer Generator
Existing Horse Trailer Propane Tank
Existing Horse Trailer Fuel Tank
Existing Horse Trailer Water Tank
Existing Horse Trailer Septic Tank
Existing Horse Trailer Well
Existing Horse Trailer Cistern
Existing Horse Trailer Rain Barrel
Existing Horse Trailer Compost Bin
Existing Horse Trailer Manure Spreader
Existing Horse Trailer Hay Rack
Existing Horse Trailer Feed Trough
Existing Horse Trailer Water Trough
Existing Horse Trailer Salt Block
Existing Horse Trailer Mineral Block
Existing Horse Trailer Hay Feeder
Existing Horse Trailer Grain Feeder
Existing Horse Trailer Water Feeder
Existing Horse Trailer Salt Feeder
Existing Horse Trailer Mineral Feeder
Existing Horse Trailer Hay Net
Existing Horse Trailer Grain Net
Existing Horse Trailer Water Net
Existing Horse Trailer Salt Net
Existing Horse Trailer Mineral Net
Existing Horse Trailer Hay Bag
Existing Horse Trailer Grain Bag
Existing Horse Trailer Water Bag
Existing Horse Trailer Salt Bag
Existing Horse Trailer Mineral Bag
Existing Horse Trailer Hay Bale
Existing Horse Trailer Grain Bale
Existing Horse Trailer Water Bale
Existing Horse Trailer Salt Bale
Existing Horse Trailer Mineral Bale
Existing Horse Trailer Hay Cube
Existing Horse Trailer Grain Cube
Existing Horse Trailer Water Cube
Existing Horse Trailer Salt Cube
Existing Horse Trailer Mineral Cube
Existing Horse Trailer Hay Pellet
Existing Horse Trailer Grain Pellet
Existing Horse Trailer Water Pellet
Existing Horse Trailer Salt Pellet
Existing Horse Trailer Mineral Pellet
Existing Horse Trailer Hay Chop
Existing Horse Trailer Grain Chop
Existing Horse Trailer Water Chop
Existing Horse Trailer Salt Chop
Existing Horse Trailer Mineral Chop
Existing Horse Trailer Hay Silage
Existing Horse Trailer Grain Silage
Existing Horse Trailer Water Silage
Existing Horse Trailer Salt Silage
Existing Horse Trailer Mineral Silage
Existing Horse Trailer Hay Haylage
Existing Horse Trailer Grain Haylage
Existing Horse Trailer Water Haylage
Existing Horse Trailer Salt Haylage
Existing Horse Trailer Mineral Haylage
Existing Horse Trailer Hay Baleage
Existing Horse Trailer Grain Baleage
Existing Horse Trailer Water Baleage
Existing Horse Trailer Salt Baleage
Existing Horse Trailer Mineral Baleage
Existing Horse Trailer Hay Cubeage
Existing Horse Trailer Grain Cubeage
Existing Horse Trailer Water Cubeage
Existing Horse Trailer Salt Cubeage
Existing Horse Trailer Mineral Cubeage
Existing Horse Trailer Hay Pelletage
Existing Horse Trailer Grain Pelletage
Existing Horse Trailer Water Pelletage
Existing Horse Trailer Salt Pelletage
Existing Horse Trailer Mineral Pelletage
Existing Horse Trailer Hay Chopage
Existing Horse Trailer Grain Chopage
Existing Horse Trailer Water Chopage
Existing Horse Trailer Salt Chopage
Existing Horse Trailer Mineral Chopage
Existing Horse Trailer Hay Silageage
Existing Horse Trailer Grain Silageage
Existing Horse Trailer Water Silageage
Existing Horse Trailer Salt Silageage
Existing Horse Trailer Mineral Silageage
Existing Horse Trailer Hay Haylageage
Existing Horse Trailer Grain Haylageage
Existing Horse Trailer Water Haylageage
Existing Horse Trailer Salt Haylageage
Existing Horse Trailer Mineral Haylageage
Existing Horse Trailer Hay Baleageage
Existing Horse Trailer Grain Baleageage
Existing Horse Trailer Water Baleageage
Existing Horse Trailer Salt Baleageage
Existing Horse Trailer Mineral Baleageage
Existing Horse Trailer Hay Cubeageage
Existing Horse Trailer Grain Cubeageage
Existing Horse Trailer Water Cubeageage
Existing Horse Trailer Salt Cubeageage
Existing Horse Trailer Mineral Cubeageage
Existing Horse Trailer Hay Pelletageage
Existing Horse Trailer Grain Pelletageage
Existing Horse Trailer Water Pelletageage
Existing Horse Trailer Salt Pelletageage
Existing Horse Trailer Mineral Pelletageage
Existing Horse Trailer Hay Chopageage
Existing Horse Trailer Grain Chopageage
Existing Horse Trailer Water Chopageage
Existing Horse Trailer Salt Chopageage
Existing Horse Trailer Mineral Chopageage
Existing Horse Trailer Hay Silageageage
Existing Horse Trailer Grain Silageageage
Existing Horse Trailer Water Silageageage
Existing Horse Trailer Salt Silageageage
Existing Horse Trailer Mineral Silageageage
Existing Horse Trailer Hay Haylageageage
Existing Horse Trailer Grain Haylageageage
Existing Horse Trailer Water Haylageageage
Existing Horse Trailer Salt Haylageageage
Existing Horse Trailer Mineral Haylageageage
Existing Horse Trailer Hay Baleageageage
Existing Horse Trailer Grain Baleageageage
Existing Horse Trailer Water Baleageageage
Existing Horse Trailer Salt Baleageageage
Existing Horse Trailer Mineral Baleageageage
Existing Horse Trailer Hay Cubeageageage
Existing Horse Trailer Grain Cubeageageage
Existing Horse Trailer Water Cubeageageage
Existing Horse Trailer Salt Cubeageageage
Existing Horse Trailer Mineral Cubeageageage
Existing Horse Trailer Hay Pelletageageage
Existing Horse Trailer Grain Pelletageageage
Existing Horse Trailer Water Pelletageageage
Existing Horse Trailer Salt Pelletageageage
Existing Horse Trailer Mineral Pelletageageage
Existing Horse Trailer Hay Chopageageage
Existing Horse Trailer Grain Chopageageage
Existing Horse Trailer Water Chopageageage
Existing Horse Trailer Salt Chopageageage
Existing Horse Trailer Mineral Chopageageage
Existing Horse Trailer Hay Silageageageage
Existing Horse Trailer Grain Silageageageage
Existing Horse Trailer Water Silageageageage
Existing Horse Trailer Salt Silageageageage
Existing Horse Trailer Mineral Silageageageage
Existing Horse Trailer Hay Haylageageageage
Existing Horse Trailer Grain Haylageageageage
Existing Horse Trailer Water Haylageageageage
Existing Horse Trailer Salt Haylageageageage
Existing Horse Trailer Mineral Haylageageageage
Existing Horse Trailer Hay Baleageageageage
Existing Horse Trailer Grain Baleageageageage
Existing Horse Trailer Water Baleageageageage
Existing Horse Trailer Salt Baleageageageage
Existing Horse Trailer Mineral Baleageageageage
Existing Horse Trailer Hay Cubeageageageage
Existing Horse Trailer Grain Cubeageageageage
Existing Horse Trailer Water Cubeageageageage
Existing Horse Trailer Salt Cubeageageageage
Existing Horse Trailer Mineral Cubeageageageage
Existing Horse Trailer Hay Pelletageageageage
Existing Horse Trailer Grain Pelletageageageage
Existing Horse Trailer Water Pelletageageageage
Existing Horse Trailer Salt Pelletageageageage
Existing Horse Trailer Mineral Pelletageageageage
Existing Horse Trailer Hay Chopageageageage
Existing Horse Trailer Grain Chopageageageage
Existing Horse Trailer Water Chopageageageage
Existing Horse Trailer Salt Chopageageageage
Existing Horse Trailer Mineral Chopageageageage
Existing Horse Trailer Hay Silageageageageage
Existing Horse Trailer Grain Silageageageageage
Existing Horse Trailer Water Silageageageageage
Existing Horse Trailer Salt Silageageageageage
Existing Horse Trailer Mineral Silageageageageage
Existing Horse Trailer Hay Haylageageageageage
Existing Horse Trailer Grain Haylageageageageage
Existing Horse Trailer Water Haylageageageageage
Existing Horse Trailer Salt Haylageageageageage
Existing Horse Trailer Mineral Haylageageageageage
Existing Horse Trailer Hay Baleageageageageage
Existing Horse Trailer Grain Baleageageageageage
Existing Horse Trailer Water Baleageageageageage
Existing Horse Trailer Salt Baleageageageageage
Existing Horse Trailer Mineral Baleageageageageage
Existing Horse Trailer Hay Cubeageageageageage
Existing Horse Trailer Grain Cubeageageageageage
Existing Horse Trailer Water Cubeageageageageage
Existing Horse Trailer Salt Cubeageageageageage
Existing Horse Trailer Mineral Cubeageageageageage
Existing Horse Trailer Hay Pelletageageageageage
Existing Horse Trailer Grain Pelletageageageageage
Existing Horse Trailer Water Pelletageageageageage
Existing Horse Trailer Salt Pelletageageageageage
Existing Horse Trailer Mineral Pelletageageageageage
Existing Horse Trailer Hay Chopageageageageage
Existing Horse Trailer Grain Chopageageageageage
Existing Horse Trailer Water Chopageageageageage
Existing Horse Trailer Salt Chopageageageageage
Existing Horse Trailer Mineral Chopageageageageage
Existing Horse Trailer Hay Silageageageageageage
Existing Horse Trailer Grain Silageageageageageage
Existing Horse Trailer Water Silageageageageageage
Existing Horse Trailer Salt Silageageageageageage
Existing Horse Trailer Mineral Silageageageageageage
Existing Horse Trailer Hay Haylageageageageageage
Existing Horse Trailer Grain Haylageageageageageage
Existing Horse Trailer Water Haylageageageageageage
Existing Horse Trailer Salt Haylageageageageageage
Existing Horse Trailer Mineral Haylageageageageageage
Existing Horse Trailer Hay Baleageageageageageage
Existing Horse Trailer Grain Baleageageageageageage
Existing Horse Trailer Water Baleageageageageageage
Existing Horse Trailer Salt Baleageageageageageage
Existing Horse Trailer Mineral Baleageageageageageage
Existing Horse Trailer Hay Cubeageageageageageage
Existing Horse Trailer Grain Cubeageageageageageage
Existing Horse Trailer Water Cubeageageageageageage
Existing Horse Trailer Salt Cubeageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageage
Existing Horse Trailer Hay Pelletageageageageageage
Existing Horse Trailer Grain Pelletageageageageageage
Existing Horse Trailer Water Pelletageageageageageage
Existing Horse Trailer Salt Pelletageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageage
Existing Horse Trailer Hay Chopageageageageageage
Existing Horse Trailer Grain Chopageageageageageage
Existing Horse Trailer Water Chopageageageageageage
Existing Horse Trailer Salt Chopageageageageageage
Existing Horse Trailer Mineral Chopageageageageageage
Existing Horse Trailer Hay Silageageageageageageage
Existing Horse Trailer Grain Silageageageageageageage
Existing Horse Trailer Water Silageageageageageageage
Existing Horse Trailer Salt Silageageageageageageage
Existing Horse Trailer Mineral Silageageageageageageage
Existing Horse Trailer Hay Haylageageageageageageage
Existing Horse Trailer Grain Haylageageageageageageage
Existing Horse Trailer Water Haylageageageageageageage
Existing Horse Trailer Salt Haylageageageageageageage
Existing Horse Trailer Mineral Haylageageageageageageage
Existing Horse Trailer Hay Baleageageageageageageage
Existing Horse Trailer Grain Baleageageageageageageage
Existing Horse Trailer Water Baleageageageageageageage
Existing Horse Trailer Salt Baleageageageageageageage
Existing Horse Trailer Mineral Baleageageageageageageage
Existing Horse Trailer Hay Cubeageageageageageageage
Existing Horse Trailer Grain Cubeageageageageageageage
Existing Horse Trailer Water Cubeageageageageageageage
Existing Horse Trailer Salt Cubeageageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageageage
Existing Horse Trailer Hay Pelletageageageageageageage
Existing Horse Trailer Grain Pelletageageageageageageage
Existing Horse Trailer Water Pelletageageageageageageage
Existing Horse Trailer Salt Pelletageageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageageage
Existing Horse Trailer Hay Chopageageageageageageage
Existing Horse Trailer Grain Chopageageageageageageage
Existing Horse Trailer Water Chopageageageageageageage
Existing Horse Trailer Salt Chopageageageageageageage
Existing Horse Trailer Mineral Chopageageageageageageage
Existing Horse Trailer Hay Silageageageageageageageage
Existing Horse Trailer Grain Silageageageageageageageage
Existing Horse Trailer Water Silageageageageageageageage
Existing Horse Trailer Salt Silageageageageageageageage
Existing Horse Trailer Mineral Silageageageageageageageage
Existing Horse Trailer Hay Haylageageageageageageageage
Existing Horse Trailer Grain Haylageageageageageageageage
Existing Horse Trailer Water Haylageageageageageageageage
Existing Horse Trailer Salt Haylageageageageageageageage
Existing Horse Trailer Mineral Haylageageageageageageageage
Existing Horse Trailer Hay Baleageageageageageageageage
Existing Horse Trailer Grain Baleageageageageageageageage
Existing Horse Trailer Water Baleageageageageageageageage
Existing Horse Trailer Salt Baleageageageageageageageage
Existing Horse Trailer Mineral Baleageageageageageageageage
Existing Horse Trailer Hay Cubeageageageageageageageage
Existing Horse Trailer Grain Cubeageageageageageageageage
Existing Horse Trailer Water Cubeageageageageageageageage
Existing Horse Trailer Salt Cubeageageageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageageageage
Existing Horse Trailer Hay Pelletageageageageageageageage
Existing Horse Trailer Grain Pelletageageageageageageageage
Existing Horse Trailer Water Pelletageageageageageageageage
Existing Horse Trailer Salt Pelletageageageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageageageage
Existing Horse Trailer Hay Chopageageageageageageageage
Existing Horse Trailer Grain Chopageageageageageageageage
Existing Horse Trailer Water Chopageageageageageageageage
Existing Horse Trailer Salt Chopageageageageageageageage
Existing Horse Trailer Mineral Chopageageageageageageageage
Existing Horse Trailer Hay Silageageageageageageageageage
Existing Horse Trailer Grain Silageageageageageageageageage
Existing Horse Trailer Water Silageageageageageageageageage
Existing Horse Trailer Salt Silageageageageageageageageage
Existing Horse Trailer Mineral Silageageageageageageageageage
Existing Horse Trailer Hay Haylageageageageageageageageage
Existing Horse Trailer Grain Haylageageageageageageageageage
Existing Horse Trailer Water Haylageageageageageageageageage
Existing Horse Trailer Salt Haylageageageageageageageageage
Existing Horse Trailer Mineral Haylageageageageageageageageage
Existing Horse Trailer Hay Baleageageageageageageageageage
Existing Horse Trailer Grain Baleageageageageageageageageage
Existing Horse Trailer Water Baleageageageageageageageageage
Existing Horse Trailer Salt Baleageageageageageageageageage
Existing Horse Trailer Mineral Baleageageageageageageageageage
Existing Horse Trailer Hay Cubeageageageageageageageageage
Existing Horse Trailer Grain Cubeageageageageageageageageage
Existing Horse Trailer Water Cubeageageageageageageageageage
Existing Horse Trailer Salt Cubeageageageageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageageageageage
Existing Horse Trailer Hay Pelletageageageageageageageageage
Existing Horse Trailer Grain Pelletageageageageageageageageage
Existing Horse Trailer Water Pelletageageageageageageageageage
Existing Horse Trailer Salt Pelletageageageageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageageageageage
Existing Horse Trailer Hay Chopageageageageageageageageage
Existing Horse Trailer Grain Chopageageageageageageageageage
Existing Horse Trailer Water Chopageageageageageageageageage
Existing Horse Trailer Salt Chopageageageageageageageageage
Existing Horse Trailer Mineral Chopageageageageageageageageage
Existing Horse Trailer Hay Silageageageageageageageageageage
Existing Horse Trailer Grain Silageageageageageageageageageage
Existing Horse Trailer Water Silageageageageageageageageageage
Existing Horse Trailer Salt Silageageageageageageageageageage
Existing Horse Trailer Mineral Silageageageageageageageageageage
Existing Horse Trailer Hay Haylageageageageageageageageageage
Existing Horse Trailer Grain Haylageageageageageageageageageage
Existing Horse Trailer Water Haylageageageageageageageageageage
Existing Horse Trailer Salt Haylageageageageageageageageageage
Existing Horse Trailer Mineral Haylageageageageageageageageageage
Existing Horse Trailer Hay Baleageageageageageageageageageage
Existing Horse Trailer Grain Baleageageageageageageageageageage
Existing Horse Trailer Water Baleageageageageageageageageageage
Existing Horse Trailer Salt Baleageageageageageageageageageage
Existing Horse Trailer Mineral Baleageageageageageageageageageage
Existing Horse Trailer Hay Cubeageageageageageageageageageage
Existing Horse Trailer Grain Cubeageageageageageageageageageage
Existing Horse Trailer Water Cubeageageageageageageageageageage
Existing Horse Trailer Salt Cubeageageageageageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageageageageageage
Existing Horse Trailer Hay Pelletageageageageageageageageageage
Existing Horse Trailer Grain Pelletageageageageageageageageageage
Existing Horse Trailer Water Pelletageageageageageageageageageage
Existing Horse Trailer Salt Pelletageageageageageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageageageageageage
Existing Horse Trailer Hay Chopageageageageageageageageageage
Existing Horse Trailer Grain Chopageageageageageageageageageage
Existing Horse Trailer Water Chopageageageageageageageageageage
Existing Horse Trailer Salt Chopageageageageageageageageageage
Existing Horse Trailer Mineral Chopageageageageageageageageageage
Existing Horse Trailer Hay Silageageageageageageageageageageage
Existing Horse Trailer Grain Silageageageageageageageageageageage
Existing Horse Trailer Water Silageageageageageageageageageageage
Existing Horse Trailer Salt Silageageageageageageageageageageage
Existing Horse Trailer Mineral Silageageageageageageageageageageage
Existing Horse Trailer Hay Haylageageageageageageageageageageage
Existing Horse Trailer Grain Haylageageageageageageageageageageage
Existing Horse Trailer Water Haylageageageageageageageageageageage
Existing Horse Trailer Salt Haylageageageageageageageageageageage
Existing Horse Trailer Mineral Haylageageageageageageageageageageage
Existing Horse Trailer Hay Baleageageageageageageageageageageage
Existing Horse Trailer Grain Baleageageageageageageageageageageage
Existing Horse Trailer Water Baleageageageageageageageageageageage
Existing Horse Trailer Salt Baleageageageageageageageageageageage
Existing Horse Trailer Mineral Baleageageageageageageageageageageage
Existing Horse Trailer Hay Cubeageageageageageageageageageageage
Existing Horse Trailer Grain Cubeageageageageageageageageageageage
Existing Horse Trailer Water Cubeageageageageageageageageageageage
Existing Horse Trailer Salt Cubeageageageageageageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageageageageageageage
Existing Horse Trailer Hay Pelletageageageageageageageageageageage
Existing Horse Trailer Grain Pelletageageageageageageageageageageage
Existing Horse Trailer Water Pelletageageageageageageageageageageage
Existing Horse Trailer Salt Pelletageageageageageageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageageageageageageage
Existing Horse Trailer Hay Chopageageageageageageageageageageage
Existing Horse Trailer Grain Chopageageageageageageageageageageage
Existing Horse Trailer Water Chopageageageageageageageageageageage
Existing Horse Trailer Salt Chopageageageageageageageageageageage
Existing Horse Trailer Mineral Chopageageageageageageageageageageage
Existing Horse Trailer Hay Silageageageageageageageageageageageage
Existing Horse Trailer Grain Silageageageageageageageageageageageage
Existing Horse Trailer Water Silageageageageageageageageageageageage
Existing Horse Trailer Salt Silageageageageageageageageageageageage
Existing Horse Trailer Mineral Silageageageageageageageageageageageage
Existing Horse Trailer Hay Haylageageageageageageageageageageageage
Existing Horse Trailer Grain Haylageageageageageageageageageageageage
Existing Horse Trailer Water Haylageageageageageageageageageageageage
Existing Horse Trailer Salt Haylageageageageageageageageageageageage
Existing Horse Trailer Mineral Haylageageageageageageageageageageageage
Existing Horse Trailer Hay Baleageageageageageageageageageageageage
Existing Horse Trailer Grain Baleageageageageageageageageageageageage
Existing Horse Trailer Water Baleageageageageageageageageageageageage
Existing Horse Trailer Salt Baleageageageageageageageageageageageage
Existing Horse Trailer Mineral Baleageageageageageageageageageageageage
Existing Horse Trailer Hay Cubeageageageageageageageageageageageage
Existing Horse Trailer Grain Cubeageageageageageageageageageageageage
Existing Horse Trailer Water Cubeageageageageageageageageageageageage
Existing Horse Trailer Salt Cubeageageageageageageageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageageageageageageageage
Existing Horse Trailer Hay Pelletageageageageageageageageageageageage
Existing Horse Trailer Grain Pelletageageageageageageageageageageageage
Existing Horse Trailer Water Pelletageageageageageageageageageageageage
Existing Horse Trailer Salt Pelletageageageageageageageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageageageageageageageage
Existing Horse Trailer Hay Chopageageageageageageageageageageageage
Existing Horse Trailer Grain Chopageageageageageageageageageageageage
Existing Horse Trailer Water Chopageageageageageageageageageageageage
Existing Horse Trailer Salt Chopageageageageageageageageageageageage
Existing Horse Trailer Mineral Chopageageageageageageageageageageageage
Existing Horse Trailer Hay Silageageageageageageageageageageageageage
Existing Horse Trailer Grain Silageageageageageageageageageageageageage
Existing Horse Trailer Water Silageageageageageageageageageageageageage
Existing Horse Trailer Salt Silageageageageageageageageageageageageage
Existing Horse Trailer Mineral Silageageageageageageageageageageageageage
Existing Horse Trailer Hay Haylageageageageageageageageageageageageage
Existing Horse Trailer Grain Haylageageageageageageageageageageageageage
Existing Horse Trailer Water Haylageageageageageageageageageageageageage
Existing Horse Trailer Salt Haylageageageageageageageageageageageageage
Existing Horse Trailer Mineral Haylageageageageageageageageageageageageage
Existing Horse Trailer Hay Baleageageageageageageageageageageageageage
Existing Horse Trailer Grain Baleageageageageageageageageageageageageage
Existing Horse Trailer Water Baleageageageageageageageageageageageageage
Existing Horse Trailer Salt Baleageageageageageageageageageageageageage
Existing Horse Trailer Mineral Baleageageageageageageageageageageageageage
Existing Horse Trailer Hay Cubeageageageageageageageageageageageageage
Existing Horse Trailer Grain Cubeageageageageageageageageageageageageage
Existing Horse Trailer Water Cubeageageageageageageageageageageageageage
Existing Horse Trailer Salt Cubeageageageageageageageageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageageageageageageageageage
Existing Horse Trailer Hay Pelletageageageageageageageageageageageageage
Existing Horse Trailer Grain Pelletageageageageageageageageageageageageage
Existing Horse Trailer Water Pelletageageageageageageageageageageageageage
Existing Horse Trailer Salt Pelletageageageageageageageageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageageageageageageageageage
Existing Horse Trailer Hay Chopageageageageageageageageageageageageage
Existing Horse Trailer Grain Chopageageageageageageageageageageageageage
Existing Horse Trailer Water Chopageageageageageageageageageageageageage
Existing Horse Trailer Salt Chopageageageageageageageageageageageageage
Existing Horse Trailer Mineral Chopageageageageageageageageageageageageage
Existing Horse Trailer Hay Silageageageageageageageageageageageageageage
Existing Horse Trailer Grain Silageageageageageageageageageageageageageage
Existing Horse Trailer Water Silageageageageageageageageageageageageageage
Existing Horse Trailer Salt Silageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Silageageageageageageageageageageageageageage
Existing Horse Trailer Hay Haylageageageageageageageageageageageageageage
Existing Horse Trailer Grain Haylageageageageageageageageageageageageageage
Existing Horse Trailer Water Haylageageageageageageageageageageageageageage
Existing Horse Trailer Salt Haylageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Haylageageageageageageageageageageageageageage
Existing Horse Trailer Hay Baleageageageageageageageageageageageageageage
Existing Horse Trailer Grain Baleageageageageageageageageageageageageageage
Existing Horse Trailer Water Baleageageageageageageageageageageageageageage
Existing Horse Trailer Salt Baleageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Baleageageageageageageageageageageageageageage
Existing Horse Trailer Hay Cubeageageageageageageageageageageageageageage
Existing Horse Trailer Grain Cubeageageageageageageageageageageageageageage
Existing Horse Trailer Water Cubeageageageageageageageageageageageageageage
Existing Horse Trailer Salt Cubeageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageageageageageageageageageage
Existing Horse Trailer Hay Pelletageageageageageageageageageageageageageage
Existing Horse Trailer Grain Pelletageageageageageageageageageageageageageage
Existing Horse Trailer Water Pelletageageageageageageageageageageageageageage
Existing Horse Trailer Salt Pelletageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageageageageageageageageageage
Existing Horse Trailer Hay Chopageageageageageageageageageageageageageage
Existing Horse Trailer Grain Chopageageageageageageageageageageageageageage
Existing Horse Trailer Water Chopageageageageageageageageageageageageageage
Existing Horse Trailer Salt Chopageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Chopageageageageageageageageageageageageageage
Existing Horse Trailer Hay Silageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Silageageageageageageageageageageageageageageage
Existing Horse Trailer Water Silageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Silageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Silageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Haylageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Haylageageageageageageageageageageageageageageage
Existing Horse Trailer Water Haylageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Haylageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Haylageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Baleageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Baleageageageageageageageageageageageageageageage
Existing Horse Trailer Water Baleageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Baleageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Baleageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Cubeageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Cubeageageageageageageageageageageageageageageage
Existing Horse Trailer Water Cubeageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Cubeageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Pelletageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Pelletageageageageageageageageageageageageageageage
Existing Horse Trailer Water Pelletageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Pelletageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Chopageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Chopageageageageageageageageageageageageageageage
Existing Horse Trailer Water Chopageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Chopageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Chopageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Silageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Silageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Silageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Silageageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Silageageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Haylageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Haylageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Haylageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Haylageageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Haylageageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Baleageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Baleageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Baleageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Baleageageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Baleageageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Cubeageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Cubeageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Cubeageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Cubeageageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Pelletageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Pelletageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Pelletageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Pelletageageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Chopageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Chopageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Chopageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Chopageageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Chopageageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Silageageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Silageageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Silageageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Silageageageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Silageageageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Haylageageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Haylageageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Haylageageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Haylageageageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Haylageageageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Baleageageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Baleageageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Baleageageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Baleageageageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Baleageageageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Cubeageageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Cubeageageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Cubeageageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Cubeageageageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Cubeageageageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Pelletageageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Pelletageageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Pelletageageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Pelletageageageageageageageageageageageageageageageageage
Existing Horse Trailer Mineral Pelletageageageageageageageageageageageageageageageageage
Existing Horse Trailer Hay Chopageageageageageageageageageageageageageageageageage
Existing Horse Trailer Grain Chopageageageageageageageageageageageageageageageageage
Existing Horse Trailer Water Chopageageageageageageageageageageageageageageageageage
Existing Horse Trailer Salt Chopageageageageage

10/27/2023
5:41:20 PM

d1093408a.dgn
Plotted By:vdotpwiiics01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

Jason L Henry
2023.10.27 13:44:00-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

Shannon Kerrigan
2023.10.31 08:58:19-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	8A

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

ROUTE 669 (NIKE PARK)

Existing Overhead Transmission
Station 41+99.00

Line Elev. 65.73 @ 75 degrees
Minimum Clearance 25.5'
Proposed Clearance 41.39'

Existing Overhead Transmission
Station 42+37.39

Line Elev. 64.00' @ 75 degrees
Minimum Clearance 25.5'
Proposed Clearance 39.81'

STA = 42+23.46
EL = 25.26
V = 75 MPH
SSD = 917'
ex = 1.01'
K = 309
L = 500.00

-0.40%

Existing Ground

Proposed Grade

-1.22%

-1.22%

-0.55%

STA = 45+83.48
EL = 20.87
V = 50 MPH
ex = 0.38'
K = 96
L = 170.00

Left

Full Super
4.0%

Transition

Left

Right

Full Super
4.0%

Transition

Normal Crown Right
-2.0%

-37.42

-37.42

-37.42

-0.162

Lc=89'

40+00.00	41+00.00	42+00.00	43+00.00	44+00.00	45+00.00	46+00.00	47+00.00

VERTICAL SCALE	HORIZONTAL SCALE	PROJECT	SHEET NO.
0 5' 10'	0 25' 50'	0669-046-682	8A

9/29/2023
4:50:21 PM

d1093408b.dgn
Plotted By:vdotpwillcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

EROSION & SEDIMENT CONTROL PLAN PHASE I

SHANNON R KERRIGAN
Lic. No. 057932
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:20:18-04'00'

VDOT Location & Design
Richmond, Virginia
(Hydraulics)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	8B

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

Curve NIKE_9
PI = 42+60.03
DELTA = 67° 11' 49.99" (RT)
D = 7°09' 43"
T = 531.49'
L = 938.25'
R = 800.00'
PC = 37+28.54
PT = 46+66.79
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

ROUTE 669 CONSTRUCTION ℄

Matchline Sta. 40+00.00 See Sheet 7B

Matchline Sta. 47+25.00 See Sheet 9B

PT 46+66.79

Mixed Hardwoods & Pines

OHV High Tension Line

Gross Area

See Sheet 4 for Utility Owner Information

C ..... Denotes Construction Limits in Cuts

F ____ Denotes Construction Limits in Fills

LEGEND:

TSF-A / TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15	Denotes Sediment Rentention Roll: Slope Interrupter
TDC	Denotes Temporary Diversion Channel, St'd EC-12
RCD-1	Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2	Denotes Rock Check Dam, Type II: St'd EC-4
IP-A	Denotes Inlet Protection, Type A: St'd EC-6
IP-B	Denotes Inlet Protection, Type B: St'd EC-6
IP-C	Denotes Inlet Protection C: St'd EC-6
OP	Denotes Outlet Protection: St'd EC-1
LOD	Denotes Limits of Disturbance
WL	Denotes Wetland

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	8A
Drainage Descriptions	15(1)-15(2)

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type B and a double line of compost filter sock retention rolls (used as perimeter control, not on fill slopes). Compost filter socks shall be biodegradable.
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Install two (2) stabilized construction entrances.

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	8B

9/29/2023
4:50:50 PM

d1093408c.dgn
Plotted By:vdotpwillcs01#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

EROSION & SEDIMENT CONTROL PLAN PHASE II

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:21:15-04'00'

VDOT Location & Design
Richmond, Virginia
(Hydraulics)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	8C

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

Curve NIKE_9
PI = 42+60.03
DELTA = 67° 11' 49.99" (RT)
D = 7°09' 43"
T = 531.49'
L = 938.25'
R = 800.00'
PC = 37+28.54
PT = 46+66.79
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

ROUTE 669 CONSTRUCTION ℄

Matchline Sta. 40+00.00 See Sheet 7C

Matchline Sta. 47+25.00 See Sheet 9C

Prop. Permanent Slope and Drainage Easement
Prop. R/W
Std. CG-6 Reqd.
Shared Use Path
Prop. Temp. Constr. Easement
Level Spreader (typ.) See Sheet 2F(1)
Curb Cut to PC-3, W-3' (typ.) In Sump See Sheet 2F
OHP Transmission Line
OHP Transmission Line
Mixed Hardwoods & Pines
Mixed Hardwoods & Pines
Open Field
Wetland Edge
Wetland Edge
Wetland Edge

RIGHT OF WAY PLAN SHEET SHOWING PROPOSED RIGHT OF WAY & EASEMENTS Conveyed By Deed To The COMMONWEALTH OF VIRGINIA

Newport Magisterial District
Isle Of Wight County, Virginia
Scale 1" = 25'
Plat By Michael L. Williams, L. S.
September 21, 2022

GENERAL NOTES:

1. Plat Is Intended For Acquisition Only And Does Not Constitute A Boundary Survey.
2. Property Line Information Is Based on Plats And Deeds Of Record. Limited Field Work Was Performed In The Creation Of This Plat.
3. Plat Was Prepared Without The Benefit Of A Title Report. Consequently Not All Encumbrances May Be Depicted.
4. All Property And/Or Easements Described Hereon Are Hereby Acquired By Correlated Deed.
5. This Plat Was Forwarded Electronically In "Read Only" Format. Any Attempt At Alteration Invalidates The Seal And Signature. An Original Hard Copy Remains On File At The Virginia Department Of Transportation, Hampton Roads District Office.
6. The Property's Physical Improvements Are Not Shown Hereon.
7. This Survey Datum Is Based On NAD 83 (2011) State Plane Grid Virginia South Zone.
8. Station And Offsets Are Based On The Construction Baseline.
9. Bearings And Distances In Parenthesis Are From Record Data.
10. Right Of Way Monumentation To Be Set Upon Completion Of Construction.

NAD 83 (11) Virginia South Zone

COMMONWEALTH OF VIRGINIA — MICHAEL L. WILLIAMS Lic. No. 2076 — LAND SURVEYOR
Michael L. Williams — Digitally signed by Michael L.Williams Date: 2022.11.03 12:48:12-04'00'
VDOT Location & Design Suffolk, Virginia LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	8RW

006
WAKIRK PROPERTIES
DB 325 PG 264
101.37 AC.
TAX PARCEL# 34-01-008A

Proposed Temporary Construction Easement
18.50' +66.79
Proposed Permanent Slope and Drainage Easement
Proposed Right Of Way
Ch= S41°48'35"E 660.86' Arc= 680.27' Rad= 818.50'
Route 669 Construction Baseline
Ch= N37°11'11"W 506.44' Arc= 516.03' Rad= 770.50'
S18°00'00"E — 505.06'
S 18° 00' 00" E
N= 3,510,206.8450
E= 12,055,307.3326
—N18°00'00"W 505.06'
Matchline Sta. 47+25.00 See Sheet 9RW
PT 46+66.79
130' VEPCO Easement
N= 3,510,685.1191
E= 12,055,045.2509
Curve NIKE_9
PI = 42+60.03
DELTA = 67° 11' 49.99" (RT)
D = 7° 09' 43"
T = 531.49'
L = 938.25'
R = 800.00'
PC = 37+28.54
PT = 46+66.79
Route 669 (Nike Park Road Extension)
Ch= N69°43'26"W 116.61' Arc= 116.72' Rad= 768.50'
N16°04'35"E 50.56'
S16°04'35"W (S23°54'49"W) 104.59' 508.26'
Matchline Sta. 40+00.00 See Sheet 7RW

004
AMERICAN TIMBER ASSOCIATES II
DB 372 PG 564
PC 1-130-2
36.97 AC.
TAX PARCEL# 33-14-007

LINE TABLE

LINE	BEARING	DISTANCE
L1	S33°37'37"W	2.00'

CURVE TABLE

CURVE	BEARING	CHORD	ARC	RADIUS
C1	N68°38'16"W	95.51'	95.57'	768.50'
C2	S75°24'30"E	278.32'	279.68'	818.50'

AREA TABLE

PARCEL #	R/W TAKE	PERMANENT SLOPE & DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT	PERMANENT STANDARD VDOT UTILITY EASEMENT
004	112,119 SF	93,232 SF	12,811 SF	12,416 SF
006	96,127 SF	76,667 SF	9,391 SF	6,770 SF

00.00' +00.00 — Station And Offset Denotes Proposed Right Of Way
(00.00' +00.00) — Station And Offset In Parenthesis Denotes Proposed Temporary Easement
[00.00' +00.00] — Station And Offset In Double Brackets Denotes Proposed Permanent Slope And Drainage Easement

LEGEND
- Computed Point
- RM-2 (5/8" Rebar w/Cap)
- Indicates Proposed Temporary Easement
- Indicates Proposed Permanent Easement

SCALE 0 12.5' 25' 50'

PROJECT	SHEET NO.
0669-046-682	8RW

10/27/2023
5:10:39 PM

d1093409.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
05/19/2023	VA.	669	0669-046-682 RW-201, C-501	9

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

COMMONWEALTH OF VIRGINIA — JASON L. HENRY, Lic. No. 040658 — PROFESSIONAL ENGINEER
Jason L Henry, 2023.10.27 13:43:46-04'00'
VDOT Location & Design, Richmond, Virginia, ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA — SHANNON R KERRIGAN, Lic. No. 057932 — PROFESSIONAL ENGINEER
Shannon Kerrigan, 2023.10.31 09:00:31-04'00'
VDOT Location & Design, Richmond, Virginia, HYDRAULIC ENGINEER

006
WAKIRK PROPERTIES
DB 325 PG 264
101.37 AC.
TAX PARCEL# 34-01-008A

Curve NIKE_12
PI = 57+08.53
DELTA = 67° 42' 41.36" (LT)
D = 7° 09' 43"
T = 536.68'
L = 945.43'
R = 800.00'
PC = 51+71.85
PT = 61+17.28
V = 45 MPH
E = 4.0%
LT = 45'
LT = 89'

Mixed Hardwoods & Pines
Grass Area
TO COMPONENT Natural Gas Easement
Matchline Sta. 54+00.00 See Sheet 10
Matchline Sta. 47+25.00 See Sheet 8
Prop. Temp. Constr. Easement
Curb Cut to PG-5, W=5' (typ.) On Grade See Sheet 2F(2)
9-1
Prop. Permanent Slope and Drainage Easement
Prop. R/W
PC 51+71.85
Nike Park
Std. CG-6 Reqd.
S 18° 00' 00" E
ROUTE 669 CONSTRUCTION B
Std. CG-6 Reqd.
Shared Use Path
Prop. R/W
9-3
9-2
Prop. Permanent Slope and Drainage Easement
Prop. Temp. Constr. Easement
9-4
9-5
Prop. Temp. Constr. Easement
Level Spreader (typ.) See Sheet 2F(1)
Mixed Hardwoods & Pines
006
WAKIRK PROPERTIES
DB 325 PG 264
101.37 AC.
TAX PARCEL# 34-01-008A
Mixed Hardwoods & Pines

CONSTRUCTION LEGEND

- Denotes Demolition of Pavement
- Denotes Mill and Overlay 2"
- Denotes Proposed Pavement Full Depth
- Denotes Proposed Shared Use Path
- C ..... Denotes Construction Limits in Cuts
- F ____ Denotes Construction Limits in Fills

ENVIRONMENTAL LEGEND

- Denotes PFO Wetland
- --WL-- Wetland

See Sheet 4 for Utility Owner Information

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

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	9A
Drainage Descriptions	15(1)-15(2)
E&S	9B-9C

DRAINAGE STRUCTURE LEGEND

- Level Spreader (Typ.) See Sheet 2F(1)

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	9

10/27/2023
5:41:07 PM

d1093409a.dgn
Plotted By:vdotpwiiics01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
Jason L Henry
2023.10.27 13:43:30-04'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER
Shannon Kerrigan
2023.10.31 08:51:16-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	9A

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

ROUTE 669 (NIKE PARK)

STA = 50+20.17
EL = 23.27'
V = 75 MPH
SSD = 1078'
ex = -0.18'
K = 126
L = 135.00

-0.55%
-0.52%
Proposed Grade
Existing Ground

Left Transition
Normal Crown -2.0%
Transition
Full Super -4.0%
Left

Right
Normal Crown -2.0%
Transition
Full Super -4.0%
Right

-2.0%
-4.0%
-5.7/2
-6.0/2
-6.0/2
-6.0/2
-6.0/2
-6.0/2
-6.0/2
-5.7/2
-5.7/2
-4.5/2
-4.5/2
-4.5/2
-4.5/2
-4.5/2
-4.5/2
-5.7/2
-5.7/2
-5.7

9/29/2023
4:50:46 PM

dl0931409bdgn
Plotted By: vdotpwilliamsO1#

PROJECT MANAGER: Wadi Zamou, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE: Rice Associates, (757) 306-4260 1/1/17
DESIGN BY: Jason Henry, P.E. (804) 786-5975 (Central Office)
SUBSURFACE UTILITY BY, DATE: Rice Associates, (757) 306-4260 1/1/17

EROSION & SEDIMENT CONTROL PLAN PHASE I

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:22:04-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	9B

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

Curve NIKE_12
PI = 57+08.53
DELTA = 67°41'42" 41.36' (LT)
D = 7°09'43"
T = 536.68'
L = 945.43'
R = 800.00'
PC = 51+71.85
PT = 61+17.28
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

Matchline Sta. 47+25.00 See Sheet 8B

Matchline Sta. 54+00.00 See Sheet 10B

S 18° 00' 00" E

ROUTE 669 CONSTRUCTION @

PC STA 51+85

Mixed Hardwoods & Pines

Grass Area

LEGEND:

TSF-A	TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD		Denotes Limits of Disturbance
WL		Denotes Wetland

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type B and a double line of compost filter sock retention rolls (used as perimeter control, not on fill slopes). Compost filter socks shall be biodegradable.
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Install two (2) stabilized construction entrances.

See Sheet 4 for Utility Owner Information

C ..... Denotes Construction Limits In Cuts

F ..... Denotes Construction Limits In Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Route 669 Profile	9A
Drainage Descriptions	15(1)-15(2)

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	9B

9/29/2023
4:50:48 PM

d1093l409c.dgn
Plotted By: vdotpwilliams01#

PROJECT MANAGER: Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE: Rice Associates, (757) 306-4260, 1/1/17
DESIGN BY: Jason Henry, P.E. (804) 786-5975 (Central Office)
SUBSURFACE UTILITY BY, DATE: Rice Associates, (757) 306-4260, 1/1/17

EROSION & SEDIMENT CONTROL PLAN PHASE II

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:22:45-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	9C

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

Curve NIKE_12
PI = 57+08.53
DELTA = 67°41'42" 41.36' (LT)
D = 7°09'43"
T = 536.68'
L = 945.43'
R = 800.00'
PC = 51+71.85
PT = 61+17.28
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

Matchline Sta. 47+25.00 See Sheet 8C

Matchline Sta. 54+00.00 See Sheet 10C

ROUTE 669 CONSTRUCTION ℄

S 18° 00' 00" E

Prop. R/W

Prop. Permanent Slope and Drainage Easement

Prop. Temp. Constr. Easement

Curb Cut to PG-5, W=5' (typ.) On Grade See Sheet 2F(2)

St'd. CG-6 Req'd.

Shared Use Path

Level Spreader (typ.) See Sheet 2F(1)

Existing Gas Pipeline to be Abandoned

Grass Area

Mixed Hardwoods & Pines

LOD

WF-20 WF-25 WE-24 WE-20 WE-10

IP-B 9-1 9-2 9-3 9-4 9-5 RCD-2 TSF-B EC-15

LEGEND:

TSF-A	TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
EC-2, Ty.1		Denotes Rolled Erosion Control Product, Temporary, St'd EC-2 Type 1
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD		Denotes Limits of Disturbance
WL		Denotes Wetland

Notes:
1. Install Phase II E&S measures as shown.
2. Level Spreaders shall not be installed until upstream denuded areas are stabilized and shall be installed in the dry. If clogging occurs to level spreader before the end of construction, level spreader shall be re-constructed.
3. Temporary silt fence shall be left in place until ground is stabilized.
4. Upon completion of grading, permanent seeding shall be installed.
5. Remove E&S measures as directed by VDOT RLD.

See Sheet 4 for Utility Owner Information

C ..... Denotes Construction Limits in Cuts

F ..... Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	9A
Drainage Descriptions	15(1)-15(2)

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	9C

RIGHT OF WAY PLAN SHEET SHOWING
PROPOSED RIGHT OF WAY & EASEMENTS
Conveyed By Deed To The
COMMONWEALTH OF VIRGINIA

Newport Magisterial District
Isle Of Wight County, Virginia
Scale 1" = 25'
Plat By Michael L. Williams, L. S.
September 21, 2022

GENERAL NOTES:

1. Plat Is Intended For Acquisition Only And Does Not Constitute A Boundary Survey.
2. Property Line Information Is Based On Plats And Deeds Of Record. Limited Field Work Was Performed In The Creation Of This Plat.
3. Plat Was Prepared Without The Benefit Of A Title Report, Consequently Not All Encumbrances May Be Depicted.
4. All Property And/Or Easements Described Hereon Are Hereby Acquired By Correlated Deed.
5. This Plat Was Forwarded Electronically In "Read Only" Format. Any Attempt At Alteration Invalidates The Seal And Signature. An Original Hard Copy Remains On File At The Virginia Department Of Transportation, Hampton Roads District Office.
6. The Property's Physical Improvements Are Not Shown Hereon.
7. This Survey Datum Is Based On NAD 83 (2011) State Plane Grid Virginia South Zone.
8. Station And Offsets Are Based On The Construction Baseline.
9. Bearings And Distances In Parenthesis Are From Record Data.
10. Right Of Way Monumentation To Be Set Upon Completion Of Construction.

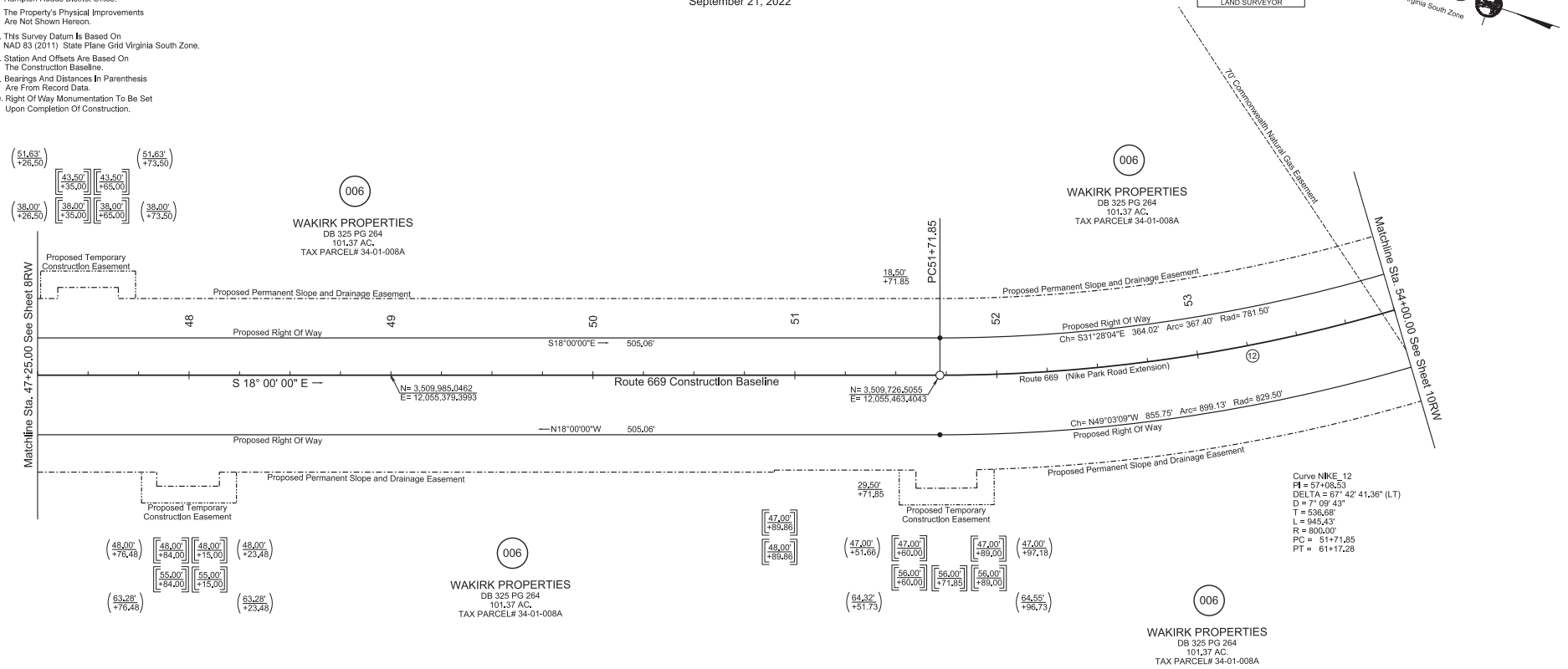
COMMONWEALTH OF VIRGINIA
MICHAEL L. WILLIAMS
Lic. No. 2076
LAND SURVEYOR

Michael L. Williams — Digitally signed by Michael L Williams Date: 2022.11.03 12:49:27-04'00'

VDOT Location & Design
Suffolk, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	9RW

NAD 83 (11) Virginia South Zone



Curve NIKE_12
PI = 57+08.53
DELTA = 67° 42' 41.36" (LT)
D = 7° 09' 43"
T = 536.68'
L = 945.43'
R = 800.00'
PC = 51+71.85
PT = 61+17.28

AREA TABLE				
PARCEL #	R/W TAKE	PERMANENT SLOPE & DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT	PERMANENT STANDARD VDOT UTILITY EASEMENT
006	96,127 SF	76,667 SF	9,391 SF	6,770 SF

00.00' +00.00 — Station And Offset Denotes Proposed RIght Of Way

(00.00' +00.00) — Station And Offset In Parenthesis Denotes Proposed Temporary Easement

[00.00' +00.00] — Station And Offset In Double Brackets Denotes Proposed Permanent Slope And Drainage Easement

LEGEND
- Computed Point
- RM-2 (5/8" Rebar w/Cap)
- Indicates Proposed Temporary Easement
- Indicates Proposed Permanent Easement

SCALE 0 12.5' 25' 50'

PROJECT	SHEET NO.
0669-046-682	9RW

10/27/2023
5:10:22 PM

d1093140.dgn
Plotted By:vdotpwiilcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

JASON L. HENRY
Lic. No. 040658
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:51:48-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

SHANNON R KERRIGAN
Lic. No. 057932
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.31 09:52:21-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
05/19/2023	VA.	669	0669-046-682 RW-201, C-501	10

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

Matchline Sta.54+00.00 See Sheet 9

TO Commonwealth Natural Gas Easement

Prop.Temp.Constr. Easement

Curve NIKE_12
PI = 57+08.53
DELTA = 67° 42' 41.36" (LT)
D = 7° 09' 43"
T = 536.68'
L = 945.43'
R = 800.00'
PC = 51+71.85
PT = 61+17.28
V = 45 MPH
E = 4.0%
Lt = 46'
Lr = 89'

Curb Cut to PG-5,W=1' (typ.) On Grade See Sheet 2F(2)

Level Spreader(typ.) See Sheet 2F(1)

Std.CG-9D Reqd. Ty.I,2'L,W=16'

POT=00.00

10-1

10-2

Gas Line Witness Post

Mike Park

W=20.09'

Prop.Temp.Constr. Easement

006
WAKIRK PROPERTIES
DB 325 PG 264
101.37 AC.
TAX PARCEL# 34-01-008A

LEFT EP NIKE

Curb Cut to PG-5,W=4' (typ.) On Grade See Sheet 2F(2)

Level Spreader(typ.) See Sheet 2F(1)

10-3

Prop.Permanent Slope and Drainage Easement

Mixed Hardwoods & Pines

Std.CG-6 Reqd.

Prop.R/W

ROUTE 669 CONSTRUCTION ℄

495' TRANSITION

Shared Use Path

Prop.Permanent Slope and Drainage Easement

POT=00.00

Std.CG-9D Reqd. Ty.I,2'L,W=16'

006
WAKIRK PROPERTIES
DB 325 PG 264
101.37 AC.
TAX PARCEL# 34-01-008A

DB 325 PG 264
101.37 AC.
TAX PARCEL# 34-01-008A

Septic Drain Field In Area Per Health Department Rec. No Field Evidence Observed

(N 77°10'00" W 150.00')

007
DAN M. TURNAGE
Inst.# 080003385
PC 2-187-4
1.953 AC.
TAX PARCEL# 34-01-008C

PP-BG72

TVPed-No#

TPed-B2I

Curve ENTR_5950_3
PI = 1+14.70
DELTA = 76° 54' 16.98" (RT)
D = 1+4° 35' 30"
T = 39.70'
L = 67.11'
R = 50.00'
PC = 0+75.00
PT = 1+42.11

Prop.Temp.Constr. Easement

Mixed Hardwoods & Pines

(N 12°50'00" E 250.00')

PG-2A Type II See Ditch Typ

Curb Cut to PG-5,W=4' (typ.) In Sump See Sheet 2F(2)

10-4

10-5

R=67'
10-2

PCO=75.00

R=33'
10-3

Std.CG-6 Reqd.

15'

Std.CG-11 Type N Reqd.

R=50'
10-1

R=50'
10-4

10-6

10-7

Curb Cut to PG-5,W=5' (typ.) On Grade See Sheet 2F(2)

Curb Cut to PG-5,W=3' (typ.) On Grade See Sheet 2F(2)

Std.CG-11 Reqd. Ty.I,2'L,W=30'

S 86°

PT=142.11'

(N 77°10'00" W 150.00')

Vinyl Fence

100' Left Turn Taper

100' Right Turn Lane Taper

R=802'
10-5

Chain Link Fence

Matchline Sta.61+00.00 See Sheet 11

Prop.Acquisition (25.00')

Remove Existing Fence

008
PADEWAY, LLC
Inst.# 050003599
PLAT DB 330 PG 621
13.330 AC.±
TAX PARCEL

Elec

(N 12°50'00" E 250.00')

ENVIRONMENTAL LEGEND

- Denotes PFO Wetland
- Denotes PEM Wetland
- Denotes Intermittent (R4) Stream Channel

CONSTRUCTION LEGEND

- Denotes Demolition of Pavement
- Denotes Mill and Overlay 2"
- Denotes Proposed Pavement Full Depth
- Denotes Proposed Shared Use Path

See Sheet 4 for Utility Owner Information

--WL-- Wetland

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Route 669 Profile	10A
Entrance Profiles	12D
Drainage Descriptions	15(1)-15(2)
E&S	10B(1-2) & 10C

DRAINAGE STRUCTURE LEGEND

Level Spreader (Typ.) See Sheet 2F(1)

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

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

C ..... Denotes Construction Limits in Cuts

F ____ Denotes Construction Limits in Fills

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	10

10/27/2023
5:41:07 PM

d109314l0a.dgn
Plotted By: vdotpwiiicsl0i9

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:51:32-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.31 09:03:16-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	10A

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

ROUTE 669 (NIKE PARK)

Proposed Grade
Existing Ground
-0.52%
-0.52%
Left
Right
Full Super 4.0%
Full Super 4.0%
Left
Right
Transition
Transition
Lt
76.05
76.05
76.05

65 60 55 50 45 40 35 30 25 20 15 10 5 0 -5 -10 -15 -20 -25

54+00.00 55+00.00 56+00.00 57+00.00 58+00.00 59+00.00 60+00.00 61+00.00

VERTICAL SCALE	HORIZONTAL SCALE	PROJECT	SHEET NO.
0 5' 10'	0 25' 50'	0669-046-682	10A

10/17/2023
7:21:32 PM

d1093140b11.dgn
Plotted By: vdotpwilles01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

SHANNON R KERRIGAN
Lic. No. 057932
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.17 15:45:03-04'00'

VDOT Location & Design
Richmond, Virginia
(Hydraulics)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	10B(1)

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

EROSION & SEDIMENT CONTROL PLAN PHASE I PART 1

Matchline Sta. 54+00.00 See Sheet 9B

Matchline Sta. 61+00.00 See Sheet 11C

ROUTE 669 CONSTRUCTION ℄

Curve NIKE_12
PI = 57+08.53
DELTA = 67° 42' 41.36" (LT)
D = 7°09'43"
T = 536.68'
L = 945.43'
R = 800.00'
PC = 51+71.85
PT = 61+17.28
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

Curve ENTR_5950_3
PI = 1+94.10
DELTA = 76°54'16.98" (RT)
D = 11°35'30"
T = 39.70'
L = 67.11'
R = 500.00'
PC = 0+75.00
PT = 1+42.11

PC 0+75.00

PT 1+42.11

Duplicate Flag: WC-21

Duplicate Flag: WD-35

Duplicate Witness Post

Mixed Hardwoods & Pines

N 77°10'00" W 150.00'

N 16° 16' 08" E

S 86°

N 12°50'00" E 230.00'

IP-B, C, P2

TVPed-N2

TPed-B2

Shed

6' Vinyl Fence

Septic Pump

8' Chain Link Fence

Propane Tk

Ele

8' Chain Link Fence
6' Vinyl Fence

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type B and a double line of compost filter sock retention rolls (used as perimeter control, not on fill slopes). Compost filter socks shall be biodegradable.
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Temporary culvert crossing shall be installed before installation of diversion dike and shall be removed within 14 days.
4. Install two (2) stabilized construction entrances.
5. Contractor to ensure only clean water leaves site, with no turbidity, and drains to stream.

LEGEND:

TSF-A	TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD		Denotes Limits of Disturbance
-WL-		Denotes Wetland

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Route 669 Profile	10A
Entrance Profiles	12
Drainage Descriptions	15(1)-15(2)

See Sheet 4 for Utility Owner Information

C _____ Denotes Construction Limits In Cuts

F _ _ _ _ Denotes Construction Limits In Fills

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	10B(1)

10/17/2023
7:21:44 PM

d1093140b12.dgn
Plotted By:vdotpwilles01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates. (757) 306-4260 1/1/17 _ _

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.17 15:45:50-04'00'

VDOT Location & Design
Richmond, Virginia
(Hydraulics)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	10B(2)

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

EROSION & SEDIMENT CONTROL PLAN PHASE I PART 2

Matchline Sta. 54+00.00 See Sheet 9B

Matchline Sta. 61+00.00 See Sheet 11C

Curve NIKE_12
PI = 57+08.53
DELTA = 67° 42' 41.36" (LT)
D = 7°09'43"
T = 536.68'
L = 945.43'
R = 800.00'
PC = 51+71.85
PT = 61+17.28
V = 45 MPH
E = 4.0%
Lt = 45'
Lr = 89'

Curve ENTR_5950_3
PI = 9+41.10
DELTA = 76°54'16.98" (RT)
D = 114°35'30"
T = 39.70'
L = 67.21'
R = 50.00'
PC = 0+75.00
PT = 1+42.11

Temp. Diversion Channel
Inlet/Out Elev. = 15.3 +/- (Tie to Existing)

Temp. Diversion Channel
Class 'A' Lining
Bottom Width = 5'
Depth = 1'
2:1 Sideslopes
Inlet Elev. = 17.0' +/- (Tie to Existing)

Duplicate Flag: WC-21

Duplicate Flag: WD-35

Duplicate Flag: WC-43

Mixed Hardwoods & Pines

ROUTE 669 CONSTRUCTION ℄

N 16° 16' 08" E

N 77° 10' 00" W 150.00'

S 86°

PT 1+42.11

PC 0+75.00

IP-B

TVPed-N2

TPed-B2

Shed

6' Vinyl Fence Septic Pump

8' Chain Link Fence

8' Chain Link Fence & Vinyl Fence

T.P.

Propane Tank

Ele

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type B and a double line of compost filter sock retention rolls (used as perimeter control, not on fill slopes). Compost filter socks shall be biodegradable.
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Temporary culvert crossing shall be installed before installation of diversion dike and shall be removed within 14 days.
4. Install two (2) stabilized construction entrances.
5. Contractor to ensure only clean water leaves site, with no turbidity, and drains to stream.

LEGEND:

TSF-A	TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD		Denotes Limits of Disturbance
-WL-		Denotes Wetland

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	10A
Entrance Profiles	12
Drainage Descriptions	15(1)-15(2)

See Sheet 4 for Utility Owner Information

C ..... Denotes Construction Limits In Cuts

F ..... Denotes Construction Limits In Fills

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	10B(2)

10/17/2023
7:21:32 PM

d1093140c.dgn
Plotted By:vdotpwiiics01#

PROJECT MANAGER _Wail Zamzam, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

SHANNON R KERRIGAN
Lic. No. 057932
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.17 15:49:15-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	10C

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

EROSION & SEDIMENT CONTROL PLAN PHASE II

Notes:
1. Install Phase II E&S measures as shown.
2. Level Spreaders shall not be installed until upstream denuded areas are stabilized and shall be installed in the dry. If clogging occurs to level spreader before the end of construction, level spreader shall be re-constructed.
3. Temporary silt fence shall be left in place until ground is stabilized.
4. Upon completion of grading, permanent seeding shall be installed.
5. Contractor to ensure only clean water, with no turbidity, leaves site and drains to stream.
6. Remove E&S measures as directed by VDOT RLD.

LEGEND:

TSF-A / TSF-B		Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
EC-2, Ty.1		Denotes Rolled Erosion Control Product, Temporary, St'd EC-2 Type 1
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD	LOD	Denotes Limits of Disturbance
WL		Denotes Wetland

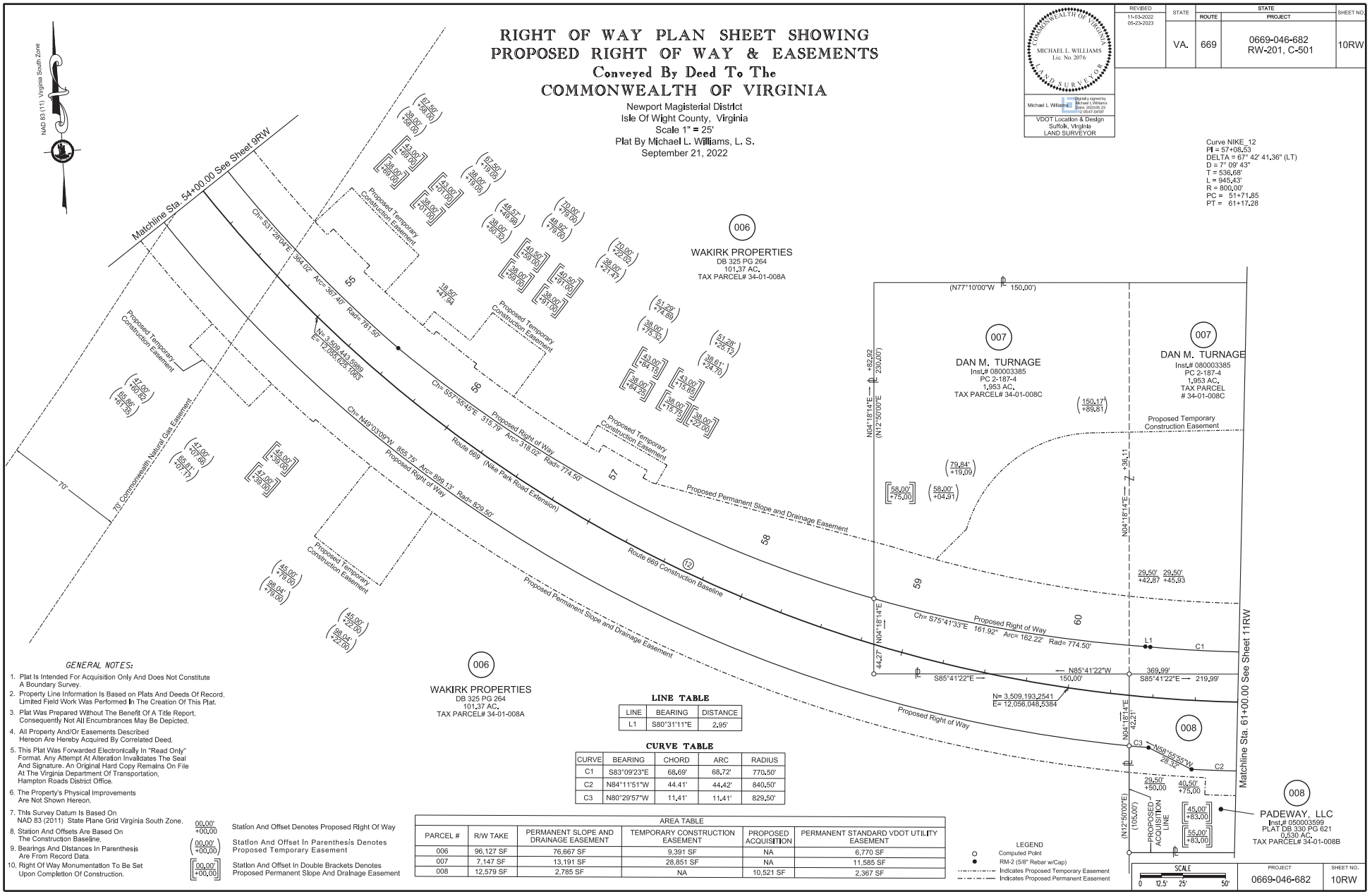
REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Route 669 Profile	10A
Entrance Profiles	12
Drainage Descriptions	15(1)-15(2)

See Sheet 4 for Utility Owner Information

C ..... Denotes Construction Limits in Cuts

F ..... Denotes Construction Limits in Fills

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	10C



REVISED	STATE	STATE		SHEET NO.
		ROUTE	PROJECT	
11-03-2022 05-23-2023	VA.	669	0669-046-682 RW-201, C-501	10RW

GENERAL NOTES:

1. Plat Is Intended For Acquisition Only And Does Not Constitute A Boundary Survey.
2. Property Line Information Is Based on Plats And Deeds Of Record. Limited Field Work Was Performed In The Creation Of This Plat.
3. Plat Was Prepared Without The Benefit Of A Title Report, Consequently Not All Encumbrances May Be Depicted.
4. All Property And/Or Easements Described Hereon Are Hereby Acquired By Correlated Deed.
5. This Plat Was Forwarded Electronically In "Read Only" Format. Any Attempt At Alteration Invalidates The Seal And Signature. An Original Hard Copy Remains On File At The Virginia Department Of Transportation, Hampton Roads District Office.
6. The Property's Physical Improvements Are Not Shown Hereon.
7. This Survey Datum Is Based On NAD 83 (2011) State Plane Grid Virginia South Zone.
8. Station And Offsets Are Based On The Construction Baseline.
9. Bearings And Distances In Parenthesis Are From Record Data.
10. Right Of Way Monumentation To Be Set Upon Completion Of Construction.

00.00' +00.00 — Station And Offset Denotes Proposed Right Of Way

(00.00' +00.00) — Station And Offset In Parenthesis Denotes Proposed Temporary Easement

[00.00' +00.00] — Station And Offset In Double Brackets Denotes Proposed Permanent Slope And Drainage Easement

LINE TABLE

LINE	BEARING	DISTANCE
L1	S80°31'11"E	2.95'

CURVE TABLE

CURVE	BEARING	CHORD	ARC	RADIUS
C1	S83°09'23"E	68.69'	68.72'	770.50'
C2	N84°11'51"W	44.41'	44.42'	840.50'
C3	N80°29'57"W	11.41'	11.41'	829.50'

AREA TABLE

PARCEL #	R/W TAKE	PERMANENT SLOPE AND DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT	PROPOSED ACQUISITION	PERMANENT STANDARD VDOT UTILITY EASEMENT
006	96,127 SF	76,667 SF	9,391 SF	NA	6,770 SF
007	7,147 SF	13,191 SF	28,851 SF	NA	11,585 SF
008	12,579 SF	2,785 SF	NA	10,521 SF	2,367 SF

LEGEND
- Computed Point
- RM-2 (5/8" Rebar w/Cap)
- Indicates Proposed Temporary Easement
- Indicates Proposed Permanent Easement

SCALE 0 12.5' 25' 50'

PROJECT	SHEET NO.
0669-046-682	10RW

10/27/2023
5:10:37 PM

d1093141.dgn
Plotted By:vdotpwillcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
Jason L Henry
2023.10.27 13:51:18-04'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER
Shannon Kerrigan
2023.10.31 09:14:04-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
05/19/2023 05/23/2023 10/23/2023	VA.	669	0669-046-682 PE-101, RW-201, C-501	11

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

Matchline Sta. 61+00.00 See Sheet 10

Matchline Sta. 124+50.00 See Sheet 12

010 SC CARROLLTON, LLC
Inst.* 180000733
PC 2-119+22 &13
4.529 AC.
TAX PARCEL* 34-01-009

009 MARK CUNDIFF
Inst.* 200905512
0.300 AC.
TAX PARCEL* 34-01-008C

008 PADEWAY, LLC
Inst.* 030003599
PLAT DB 330 PG 62
0.580 AC.
TAX PARCEL* 34-01-008B

007 DAN M. TURNAGE
Inst.* 080003385
PC 2-187-4
1.953 AC.
TAX PARCEL* 34-01-008C

006 WAKIRK PROPERTIES
DB 325 PG 264
10130 AC.
TAX PARCEL* 34-01-008A

011 DAN M. TURNAGE
Inst.* 080003385
PC 2-187-4
2.930 AC.
TAX PARCEL* 34-01-008D

UNIVERSITY SQUARE ASSOCIATES
Inst.* 010000167
PC 2-81-1
1.394 AC.
TAX PARCEL* 34-01-71

KARL T. STAUTY
LOREAN R. STAUTY
Inst.* 000000323
PLAT DB 277 PG 480
0.73 AC.
TAX PARCEL* 34-01-072

KARL T. STAUTY
LOREAN R. STAUTY
Inst.* 000000323
PLAT DB 277 PG 480
1.010 AC.
TAX PARCEL* 34-01-072

KARL T. STAUTY
LOREAN R. STAUTY
Inst.* 050000794
PLAT DB 287 PG 884
40.00
TAX PARC

TERRY L. JORDAN
Inst.* 210004585
PB 5 PG 83
1.58 AC.
TAX PARCEL* 31-01-074

Remove Existing Fence
Proposed Permanent VDOT Utility Easement Variable Width
Prop. Permanent Slope and Drainage Easement
Prop. Temp. Constr. Easement
Prop. R/W
Ex. R/W
Exist Right of Way
Do Not Disturb
Remove Exist Curb
Remove Existing Headwall
Prop. Temporary Constr. Easement D-901
Prop. Permanent Slope and Drainage Easement
Prop. Permanent Slope and Drainage Easement (also D)
Proposed Permanent VDOT Utility Easement Variable Width
Relocated Gate
Relocated Fence
Relocated Sign
Relocated Mailbox
Relocated Utility Pole
Relocated Light Pole
Relocated Guy Wire
Relocated Fire Hydrant
Relocated Water Meter
Relocated Water Valve
Relocated Gas Valve
Relocated Drop Inlet
Relocated Concrete Headwall
Relocated Concrete Endwall
Relocated Concrete Flume
Relocated Concrete Spillway
Relocated Concrete Ditch
Relocated Metal Guardrail
Relocated Wooden Fence
Relocated Chain Link Fence
Relocated Gravel Parking for Cars
Relocated Asphalt Parking Lot
Relocated Asphalt Pavement
Relocated Asphalt Shoulder
Relocated Grass Median
Relocated Grass Area
Relocated Gravel
Relocated Mixed Hardwoods & Pines
Relocated Pines
Relocated Drainfield
Relocated Charter
Relocated Metal Sign
Relocated Wood Sign
Relocated Wood Curb
Relocated 0.5 Conc Curb
Relocated Conc. Curb & Gutter
Relocated Conc. Porch
Relocated Conc. Dr.
Relocated Wood Guardrail
Relocated Metal Guardrail
Relocated Mailbox
Relocated Wooden Fence
Relocated Chain Link Fence
Relocated Gravel Parking for Cars
Relocated Drainfield
Relocated Conc. Ditch
Relocated Mixed Hardwoods & Pines
Relocated Pines
Relocated Metal Gardners Fence
Relocated Wood Guardrail

10/27/2023
5:41:11 PM

d109314lay.dgn
Plotted By: vdotpwiilcs01$

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260, 1/1/17_ _____
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _____
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17 _

COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:51:04-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

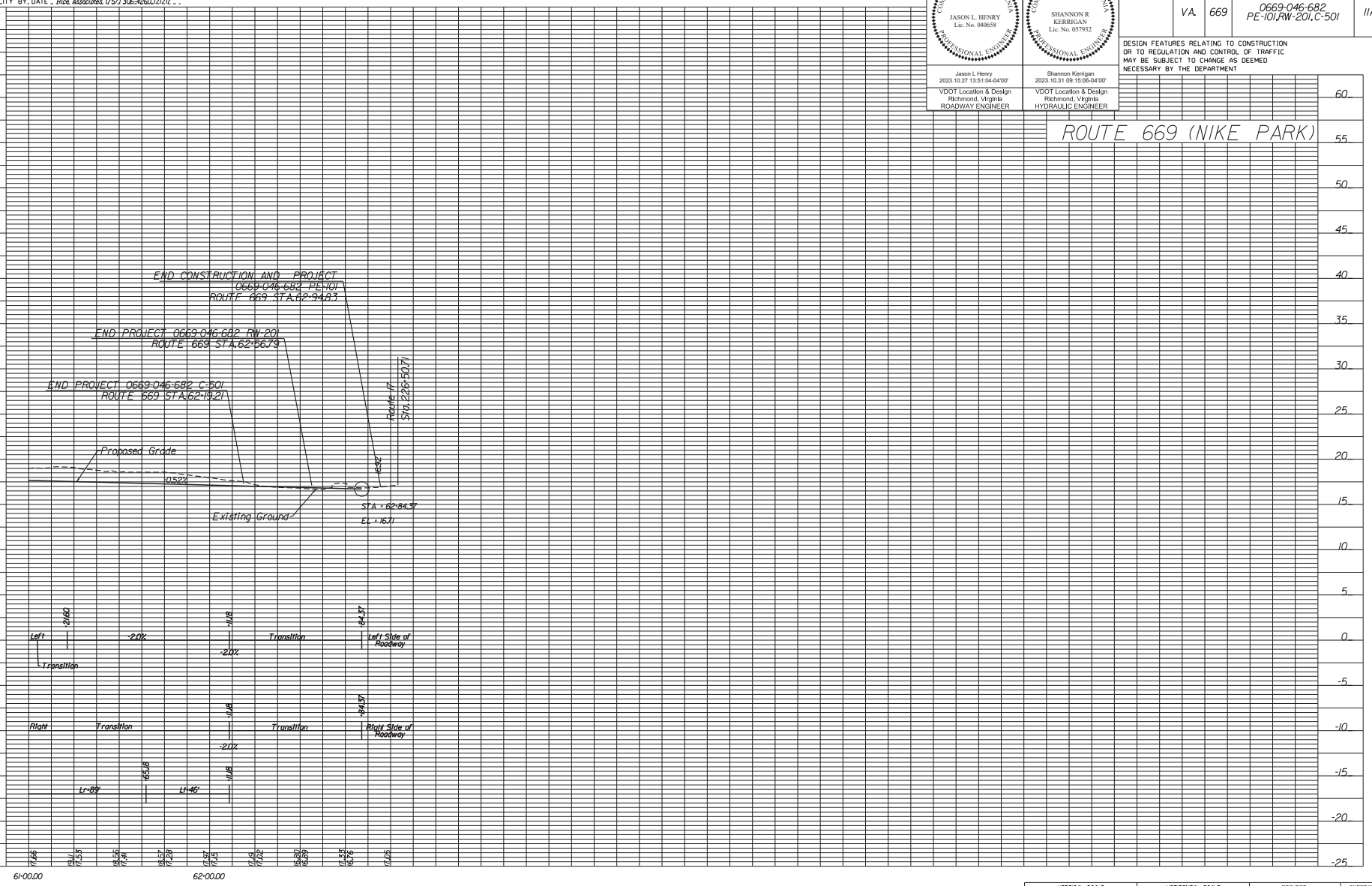
Shannon Kerrigan
2023.10.31 09:15:06-04'00'

VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 PE-101,RW-201,C-501	IIA

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

ROUTE 669 (NIKE PARK)



VERTICAL SCALE	HORIZONTAL SCALE	PROJECT	SHEET NO.
0 5' 10'	0 25' 50'	0669-046-682	IIA

10/27/2023
5:41:10 PM

d109314ilb.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:50:47 -04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	IIB

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

ROUTE 17 SB

Route 669
Sta 6.3+04.37

BEGIN CONSTRUCTION
ROUTE 17 SB STA 225+50.00

End Construction Route SB 17
Sta 231+25

Existing Ground

Proposed Grade

Existing Vertical Crest
SSD = 505'
V = 55 MPH

Spline Grade

-0.2%
-1.00%
-0.66%
-0.96%
1.85%
-0.08%
1.16%
50.89
25.89

65 60 55 50 45 40 35 30 25 20 15 10 5 0 -5 -10 -15 -20 -25

17.57 17.54 17.4 16.91 16.93 16.53 16.53 16.86 16.86 16.92 16.99 17.4 17.4 17.32 17.32 17.67 17.67 17.86 17.86 18.17 18.17 18.33 18.33 18.48 18.48 18.5 18.5 18.4 18.4 18.30 18.30 18.06 18.06 17.72 17.72 17.59 17.59 16.98 16.98 16.55 16.55 16.4 16.4 15.89 15.89 15.76 15.76 15.68 15.68 15.66 15.66 15.63 15.63

225+00.00 226+00.00 227+00.00 228+00.00 229+00.00 230+00.00 231+00.00

VERTICAL SCALE	HORIZONTAL SCALE	PROJECT	SHEET NO.
0 5' 10'	0 25' 50'	0669-046-682	IIB

9/29/2023
4:50:35 PM

d1093140c.dgn
Plotted By:vdotpwillcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

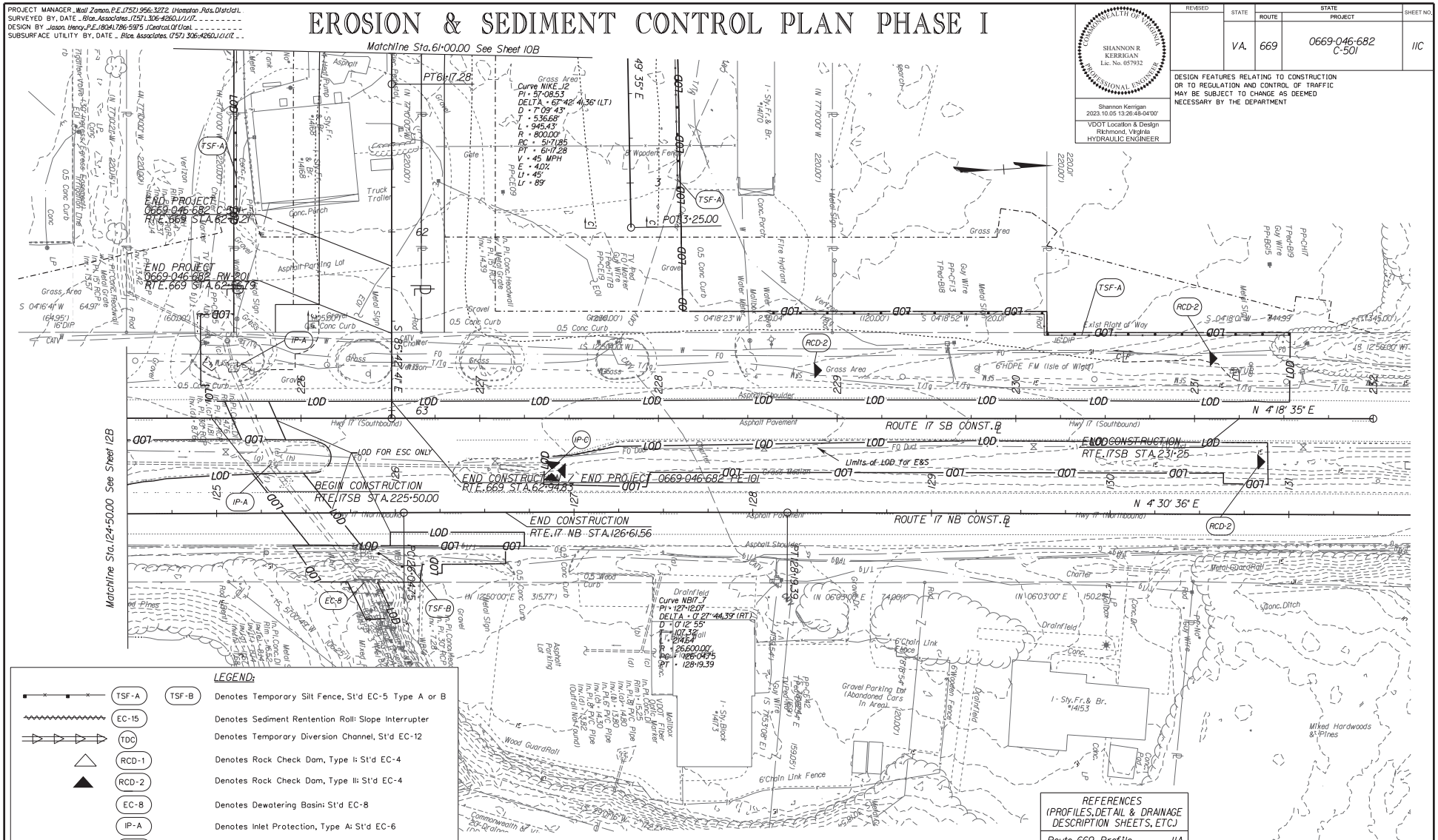
EROSION & SEDIMENT CONTROL PLAN PHASE I

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	IIC

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:26:48-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

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



LEGEND:

TSF-A	TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
EC-8		Denotes Dewatering Basin: St'd EC-8
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD		Denotes Limits of Disturbance
-WL-		Denotes Wetland

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type B and a double line of compost filter sock retention rolls (used as perimeter control, not on fill slopes). Compost filter socks shall be biodegradable.
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Install stabilized construction entrances where required.

See Sheet 4 for Utility Owner Information

C ..... Denotes Construction Limits in Cuts
F ____ Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 669 Profile	IIA
Route I7 Profile	IIB
Drainage Descriptions	15(1)-15(2)

SCALE 0 25' 50'

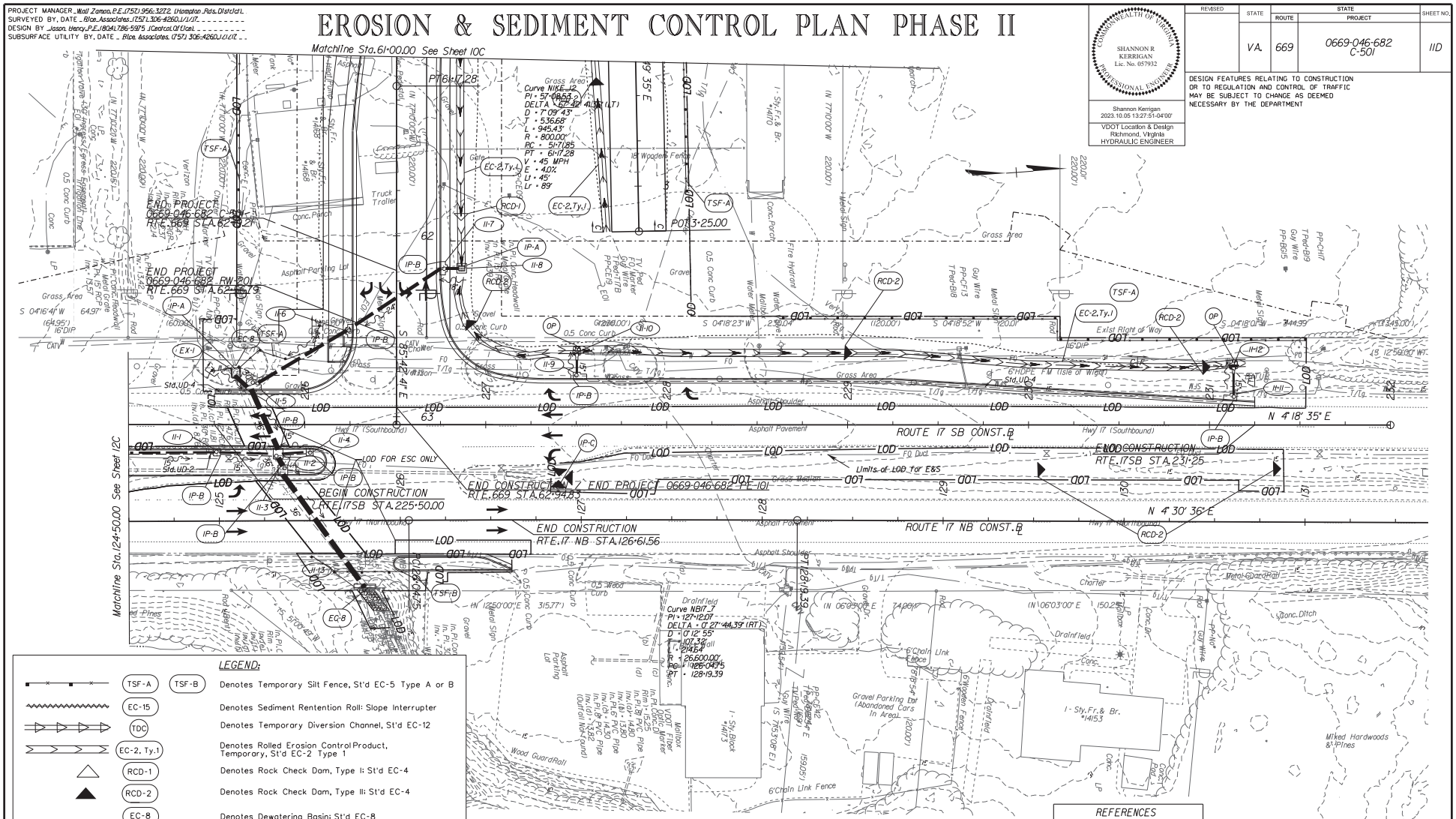
PROJECT	SHEET NO.
0669-046-682	IIC

9/29/2023
4:52:26 PM

d1093141id.dgn
Plotted By:vdotpwillcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY Jason Henry, P.E. (804) 786-5975 (Central Office) _ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

EROSION & SEDIMENT CONTROL PLAN PHASE II



LEGEND:

TSF-A	TSF-B	Denotes Temporary Silt Fence, Std EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, Std EC-12
EC-2, Ty.1		Denotes Rolled Erosion Control Product, Temporary, Std EC-2 Type 1
RCD-1		Denotes Rock Check Dam, Type I: Std EC-4
RCD-2		Denotes Rock Check Dam, Type II: Std EC-4
EC-8		Denotes Dewatering Basin: Std EC-8
IP-A		Denotes Inlet Protection, Type A: Std EC-6
IP-B		Denotes Inlet Protection, Type B: Std EC-6
IP-C		Denotes Inlet Protection C: Std EC-6
OP		Denotes Outlet Protection: Std EC-1
LOD		Denotes Limits of Disturbance
-WL-		Denotes Wetland

Notes:
1. Install Phase II E&S measures as shown.
2. Temporary silt fence shall be left in place until ground is stabilized.
3. Pipe cleanout shall not be performed until upstream denuded areas are stabilized.
3. Upon completion of grading, permanent seeding shall be installed.
4. Remove E&S measures as directed by VDOT RLD.

See Sheet 4 for Utility Owner Information

C ..... Denotes Construction Limits in Cuts
F ____ Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Route 669 Profile	IIA
Route I7 Profile	IIB
Drainage Descriptions	15(1)-15(2)

SHANNON R KERRIGAN
Lic. No. 057932
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:27:51-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

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

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	IID

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	IID

10/27/2023
5:41:07 PM

d109314ileu.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _____
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _____
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _

COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:50:34-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	IIE

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

ROUTE 17 NB

End Construction Route NB 17
Sta. 126+61.56

Existing Ground &
Proposed Grade

25 20 15 10 5 0

18.21 18.24 18.27 18.27 18.28 18.30 18.29 18.29 18.27 18.27 18.27 18.22 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17 18.17

125+00.00 126+00.00 127+00.00 128+00.00 129+00.00 130+00.00 131+00.00

VERTICAL SCALE	HORIZONTAL SCALE	PROJECT	SHEET NO.
0 5' 10'	0 25' 50'	0669-046-682	IIE

RIGHT OF WAY PLAN SHEET SHOWING PROPOSED RIGHT OF WAY & EASEMENTS

Conveyed By Deed To The COMMONWEALTH OF VIRGINIA

Newport Magisterial District
Isle Of Wight County, Virginia
Scale 1" = 25'
Plat By Michael L. Williams, L. S.
September 21, 2022

MICHAEL L. WILLIAMS
Lic. No. 2076
LAND SURVEYOR
Digitally signed by Michael L. Williams
Date: 2023.05.23 12:06:57 -04'00'
Michael L. Williams
VDOT Location & Design
Suffolk, Virginia
LAND SURVEYOR

REVISED	STATE	STATE		SHEET NO.
11-03-2022 05-23-2023		ROUTE	PROJECT	
	VA.	669	0669-046-682 RW-201, C-501	11RW

NAD 83 (11) Virginia South Zone

Matchline Sta. 61+00.00 See Sheet 10

PROPOSED ACQUISITION LINE

010 SC CARROLLTON, LLC
Inst.# 180000733
PC 2-119-12 & 13
4.3291 AC.
TAX PARCEL# 34-01-009

009 MARK CUNDIFF
Inst.# 200005512
0.300 AC.
TAX PARCEL# 34-01-008

008 PADEWAY, LLC
Inst. # 050003599
PLAT DB 330 PG 621
0.530 AC.
TAX PARCEL # 34-01-008B

PT61+17.28
N=3,509,175.9589
E=12,056,164.4265

Curve NIKE_12
PI = 57+08.53
DELTA = 67° 42' 41.36" (LT)
D = 7° 09' 43"
T = 536.68'
L = 945.43'
R = 800.00'
PC = 51+71.85
PT = 61+17.28

007 DAN M. TURNAGE
Inst.# 080003385
PC 2-187-4
1.953 AC.
TAX PARCEL# 34-01-008C

006 WAKIRK PROPERTIES
DB 325 PG 264
101.37 AC.
TAX PARCEL# 34-01-008A

011 DAN M. TURNAGE
Inst.# 080003385
PC 2-187-4
2.930 AC.
TAX PARCEL# 34-01-008D

Route 669 Construction Baseline
S 85° 42' 41" E

Route 669 (Nike Park Road Extension)

Proposed Variable Width Permanent Standard VDOT Utility Easement

Proposed Temporary Construction Easement

Proposed Permanent Slope And Drainage Easement

Proposed Right Of Way

Proposed Permanent Slope And Drainage Easement

(30' Ingress/Egress Easement)

Existing Right of Way

END PROJECT
0669-046-682 RW-201
RTE. 669 STA. 62+56.79

Intersection Angle = 89°58'43"
Nike Park Construction Baseline Station 63+04.37
Route 17 South Bound Construction Baseline Station 226+50.71

N= 3,509,161.9684
E= 12,056,350.9950

N 4° 18' 35" E — Route 17 South Bound Construction Baseline

N= 3,509,709.7005
E= 12,056,392.2739

POT232+00.00

Matchline Sta. 124+50.00 See Sheet 12RW

N= 3,509,164.8242
E= 12,056,404.1665

N 4° 02' 51" E —

N= 3,509,378.8655
E= 12,056,420.1804

Route 17 North Bound Construction Baseline

N 4° 30' 36" E —

PC126+04.75

PT128+19.39

Existing Right of Way

NOW OR FORMERLY
UNIVERSITY SQUARE ASSOCIATES
Inst.# 010000167
PC 2-81-1
1.394 AC.
TAX PARCEL# 34-01-71

NOW OR FORMERLY
KARL T. STAUTY
LOREAN R. STAUTY
Inst.# 000000323
PLAT DB 277 PG 480
0.73 AC.
TAX PARCEL # 34-01-072

NOW OR FORMERLY
KARL T. STAUTY
LOREAN R. STAUTY
Inst.# 050000794
PLAT DB 287 PG 884
12,270 SQ. FT
TAX PARCEL # 34-01-072

NOW OR FORMERLY
KARL T. STAUTY
LOREAN R. STAUTY
Inst.# 050000794
PLAT DB 287 PG 884
40,000 SQ. FT
TAX PARCEL# 34-01-073

NOW OR FORMERLY
TERRY L. JORDAN
Inst.# 210004585
PB 5 PG 83
1.38 AC.
TAX PARCEL# 31-01-074

Commonwealth of Virginia 10' Drainage Easement (DB 209 PG 512) (SHPB 9 PG 62)

Curve NB17_7
PI = 127+12.07
DELTA = 0° 27' 44.39" (RT)
D = 0° 12' 55"
T = 107.32'
L = 214.84'
R = 26,600.00'
PC = 126+04.75
PT = 128+19.39

LINE TABLE

LINE	BEARING	DISTANCE
L1	S04°18'18"W	12.89'
L2	N85°42'41"W	15.57'
L3	N04°17'54"E	24.54'

CURVE TABLE

CURVE	BEARING	CHORD	ARC	RADIUS
C1	S83°09'23"E	68.69'	68.72'	770.50'
C2	N84°11'51"W	44.41'	44.42'	840.50'

AREA TABLE

PARCEL #	R/W TAKE	PERMANENT SLOPE AND DRAINAGE EASEMENT	TEMPORARY CONSTRUCTION EASEMENT	PROPOSED ACQUISITION	PERMANENT STANDARD VDOT UTILITY EASEMENT
006	96,127 SF	76,667 SF	9,391 SF	NA	6,770 SF
007	7,147 SF	13,191 SF	28,851 SF	NA	11,585 SF
008	12,579 SF	2,785 SF	NA	10,521 SF	2,367 SF
009	NA	NA	211 SF	NA	3,108 SF
010	NA	NA	NA	NA	4,427 SF
011	NA	NA	NA	NA	4,618 SF

GENERAL NOTES:

1. Plat Is Intended For Acquisition Only And Does Not Constitute A Boundary Survey.
2. Property Line Information Is Based on Plats And Deeds Of Record. Limited Field Work Was Performed In The Creation Of This Plat.
3. Plat Was Prepared Without The Benefit Of A Title Report. Consequently Not All Encumbrances May Be Depicted.
4. All Property And/Or Easements Described Hereon Are Hereby Acquired By Correlated Deed.
5. This Plat Was Forwarded Electronically In "Read Only" Format. Any Attempt At Alteration Invalidates The Seal And Signature. An Original Hard Copy Remains On File At The Virginia Department Of Transportation, Hampton Roads District Office.
6. The Property's Physical Improvements Are Not Shown Hereon.
7. This Survey Datum Is Based On NAD 83 (2011) State Plane Grid Virginia South Zone.
8. Station And Offsets Are Based On The Construction Baseline.
9. Bearings And Distances In Parenthesis Are From Record Data.
10. Right Of Way Monumentation To Be Set Upon Completion Of Construction.

+00.00 / 00.00' — Station And Offset Denotes Found Point As Noted
00.00' / +00.00 — Station And Offset Denotes Proposed Right Of Way
(00.00' / +00.00) — Station And Offset In Parenthesis Denotes Proposed Temporary Easement
[00.00' / +00.00] — Station And Offset In Brackets Denotes Proposed Permanent Standard VDOT Utility Easement
[[00.00' / +00.00]] — Station And Offset In Double Brackets Denotes Proposed Permanent Slope And Drainage Easement

LEGEND
- Computed Point
- Found Point (As Noted)
- RM-2 (5/8" Rebar w/Cap)
- Indicates Existing Right Of Way
- Indicates Proposed Temporary Easement
- Indicates Proposed Permanent Easement

SCALE	PROJECT	SHEET NO.
0 12.5' 25' 50'	0669-046-682	11RW

10/27/2023
5:41:24 PM

d1093142.dgn
Platted By: vdotpwilcs01#

PROJECT MANAGER _Wail Zamzam, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

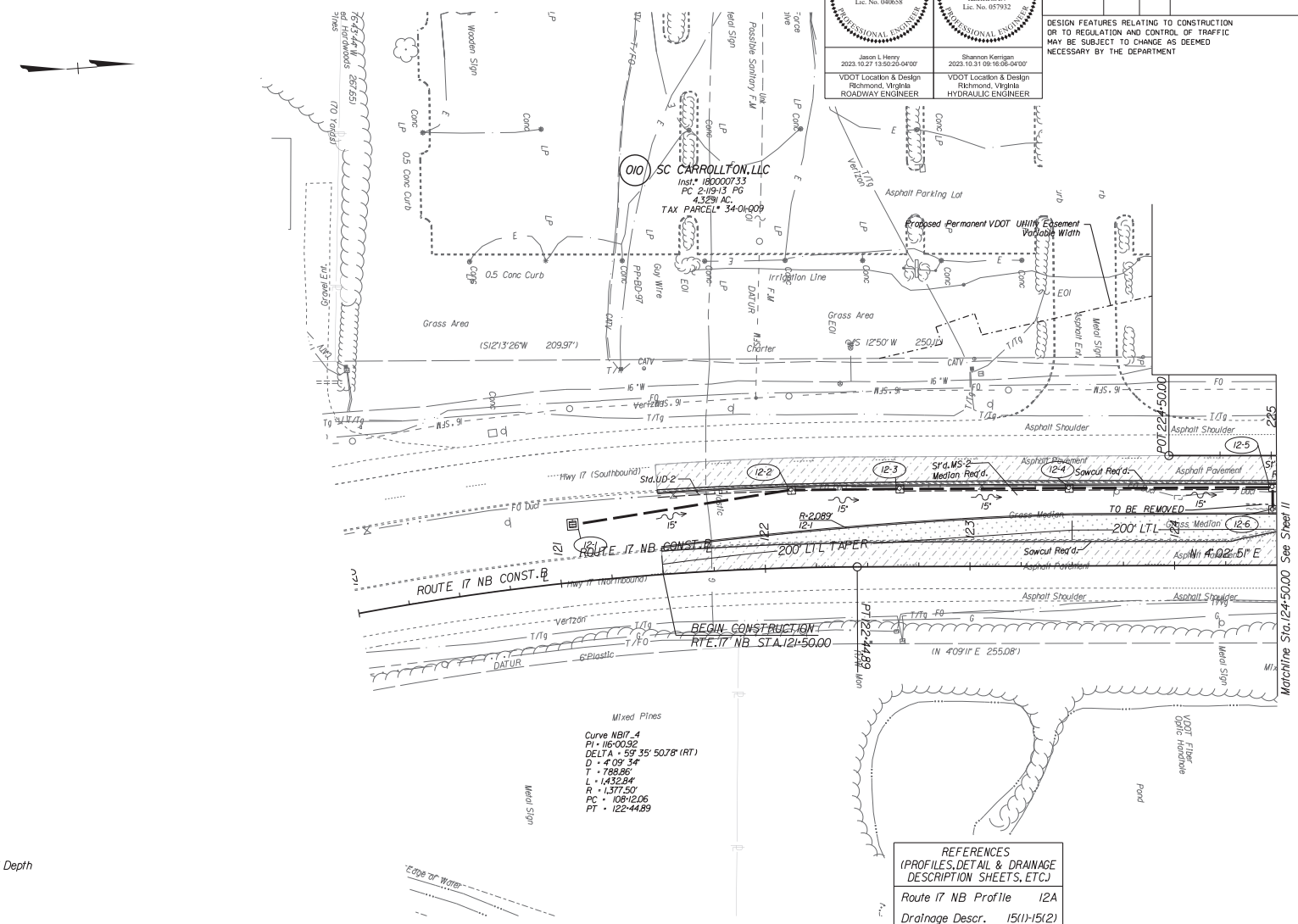
Jason L Henry
2023.10.27 13:50:25-04'00'
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

Shannon Kerrigan
2023.10.31 09:16:08-04'00'
VDOT Location & Design
Richmond, Virginia
HYDRAULIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501,RW-201	12

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



See Sheet 4 for Utility Owner Information

CONSTRUCTION LEGEND

- Denotes Demolition of Pavement
- Denotes Mill and Replace
- Denotes Proposed Pavement Full Depth

C..... Denotes Construction Limits In Cuts

F_ _ _ _ Denotes Construction Limits In Fills

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

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

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)

Route 17 NB Profile	12A
Drainage Descr.	15(1)-15(2)
Entrance Profiles	12D
E&S	12B-12C

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	12

10/27/2023
5:41:21 PM

d1093141.2a.dgn
Plotted By: vdotpwiiicsOl9

PROJECT MANAGER: Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE: Rice Associates (757) 306-4260 1/1/17
DESIGN BY: Jason Henry, P.E. (804) 786-5975 (Central Office)
SUBSURFACE UTILITY BY, DATE: Rice Associates (757) 306-4260 1/1/17

COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

Jason L Henry
2023.10.27 13:50:03-04'00'

VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	12A

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

ROUTE 17 NB

BEGIN CONSTRUCTION
ROUTE 17 NB STA 121+50.00

Existing Ground

Proposed Grade

25
20
15
10
5
0

23.09 19.85 19.84 19.80 19.77 19.76 19.76 19.74 19.69 19.58 19.44 19.30 19.20 19.12 19.07 19.02 18.99 18.98 18.94

120+00.00 121+00.00 122+00.00 123+00.00 124+00.00

VERTICAL SCALE 0 5' 10'

HORIZONTAL SCALE 0 25' 50'

PROJECT 0669-046-682

SHEET NO. 12A

9/29/2023
4:51:36 PM

d109314l2b.dgn
Plotted By: vdotpwilcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

EROSION & SEDIMENT CONTROL PLAN PHASE I

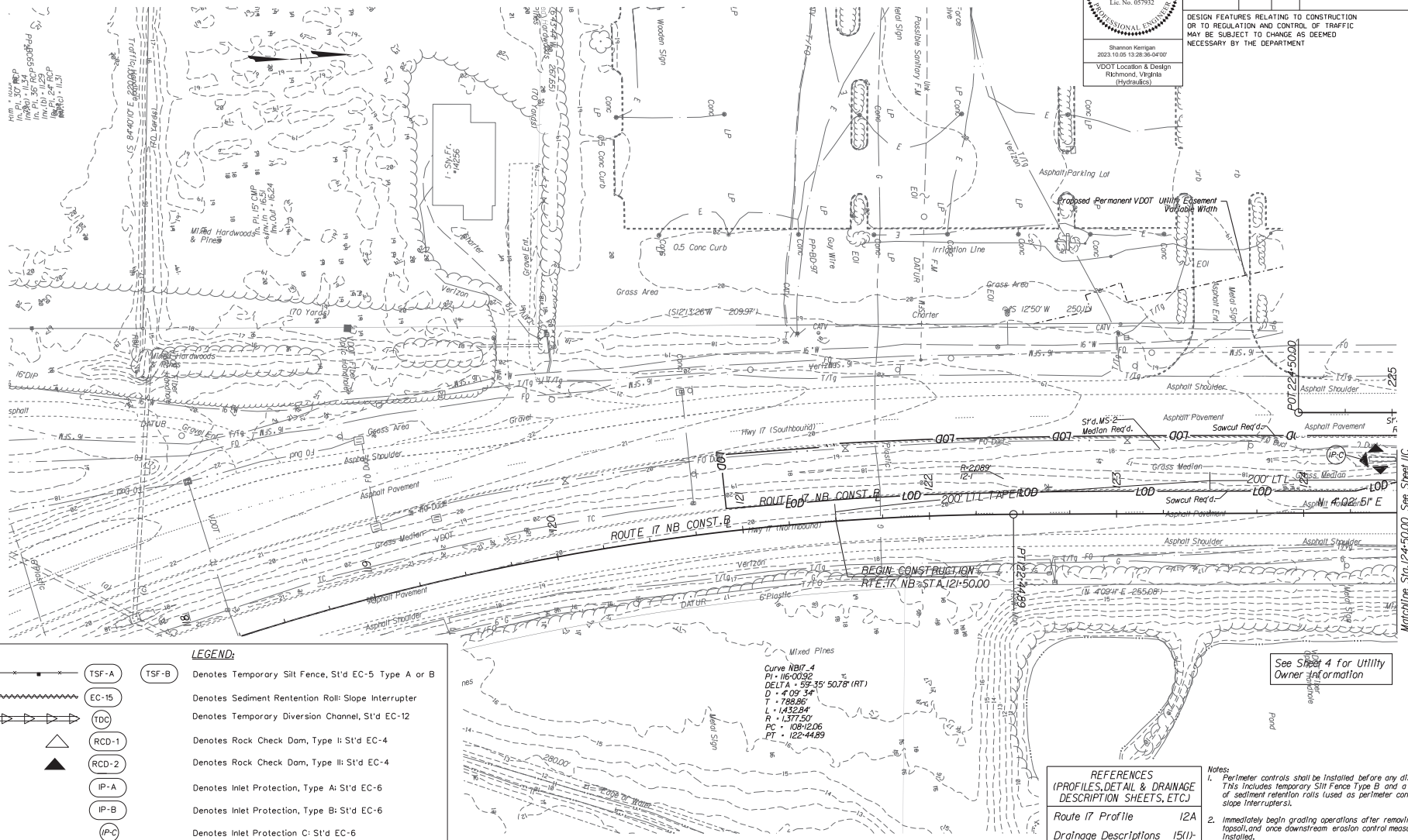
COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:28:36-04'00'

VDOT Location & Design
Richmond, Virginia
(Hydraulics)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	12B

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



LEGEND:

TSF-A	TSF-B	Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD	LOD	Denotes Limits of Disturbance
-WL-		Denotes Wetland

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

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

C ..... Denotes Construction Limits in Cuts

F ---- Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Route 17 Profile	12A
Drainage Descriptions	15(1)-15(2)
Entrance Profiles	12D

Notes:
1. Perimeter controls shall be installed before any disturbance. This includes temporary Silt Fence Type B and a double line of sediment retention rolls (used as perimeter control not slope interrupters).
2. Immediately begin grading operations after removing grass, topsoil, and once downstream erosion control measures are installed.
3. Install stabilized construction entrances where required.

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	12B

9/29/2023
4:5ul2 PM

dl093l4l2cdgn
Plotted By:vdotpwillcs0l#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

EROSION & SEDIMENT CONTROL PLAN PHASE II

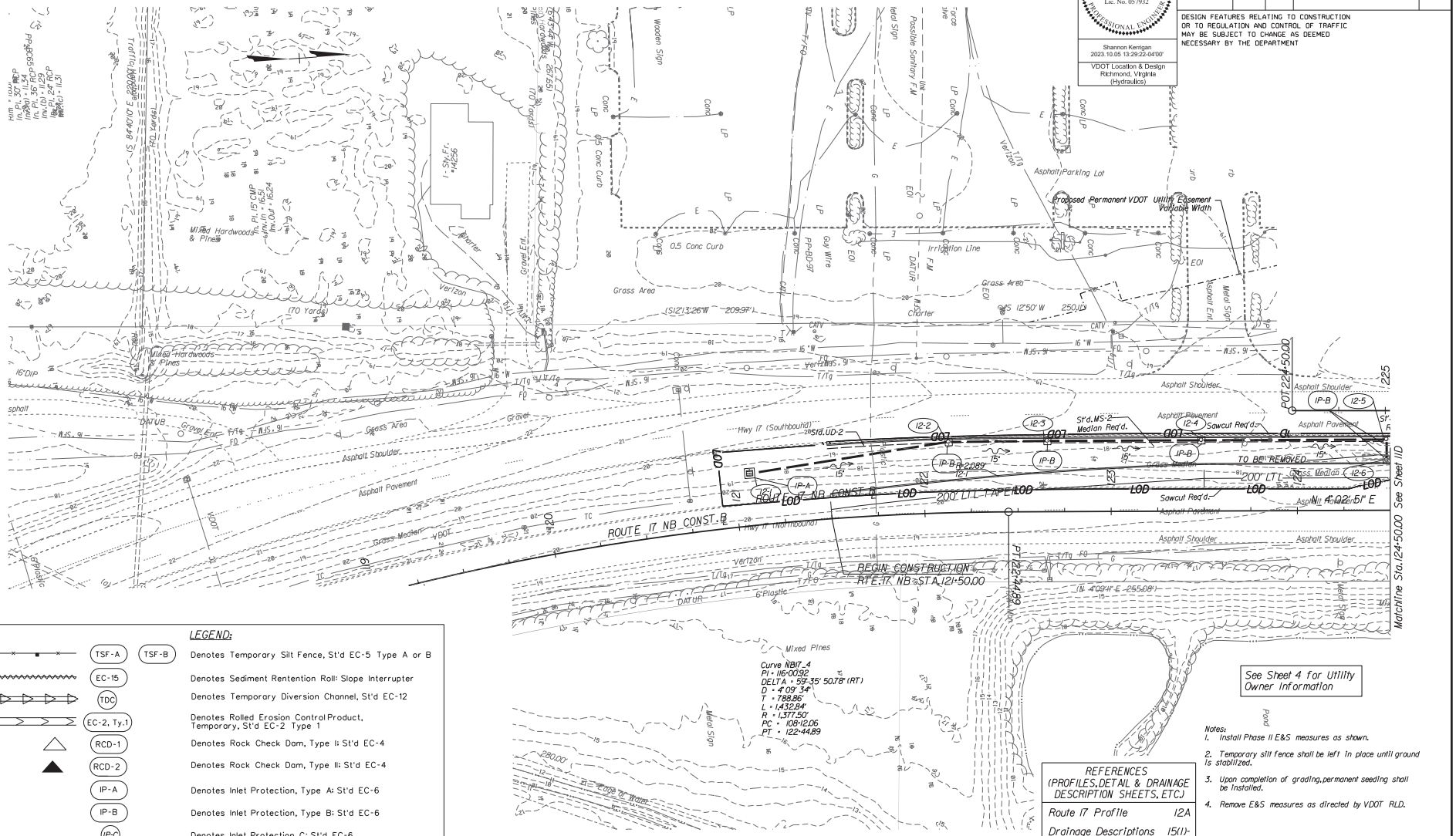
COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:29:22-04'00'

VDOT Location & Design
Richmond, Virginia
(Hydraulics)

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	12C

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



LEGEND:

TSF-A / TSF-B		Denotes Temporary Silt Fence, St'd EC-5 Type A or B
EC-15		Denotes Sediment Rentention Roll: Slope Interrupter
TDC		Denotes Temporary Diversion Channel, St'd EC-12
EC-2, Ty.1		Denotes Rolled Erosion Control Product, Temporary, St'd EC-2 Type 1
RCD-1		Denotes Rock Check Dam, Type I: St'd EC-4
RCD-2		Denotes Rock Check Dam, Type II: St'd EC-4
IP-A		Denotes Inlet Protection, Type A: St'd EC-6
IP-B		Denotes Inlet Protection, Type B: St'd EC-6
IP-C		Denotes Inlet Protection C: St'd EC-6
OP		Denotes Outlet Protection: St'd EC-1
LOD	LOD	Denotes Limits of Disturbance
-WL-		Denotes Wetland

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

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

C ..... Denotes Construction Limits in Cuts

F ---- Denotes Construction Limits in Fills

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Route 17 Profile	12A
Drainage Descriptions	15(1)-15(2)
Entrance Profiles	12D

Notes:
1. Install Phase II E&S measures as shown.
2. Temporary silt fence shall be left in place until ground is stabilized.
3. Upon completion of grading, permanent seeding shall be installed.
4. Remove E&S measures as directed by VDOT RLD.

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	12C

10/27/2023
5:41:30 PM

d109314l2d.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER _Wail Zamon, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

COMMONWEALTH OF VIRGINIA
JASON L. HENRY
Lic. No. 040658
PROFESSIONAL ENGINEER

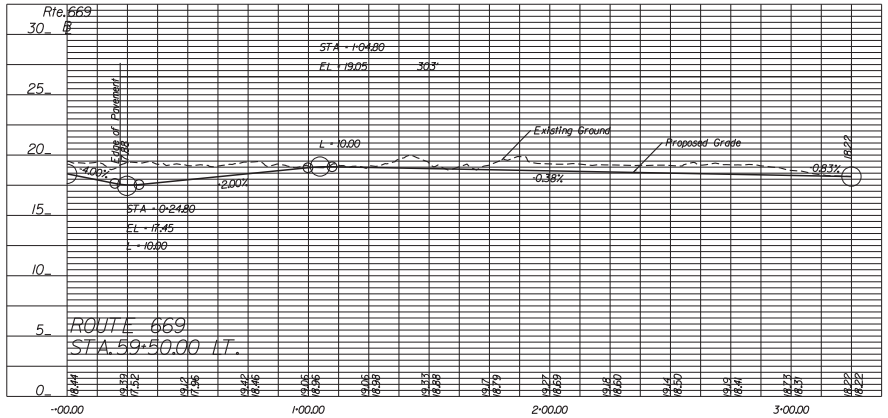
Jason L Henry
2023.10.27 13:43:10-04'00'

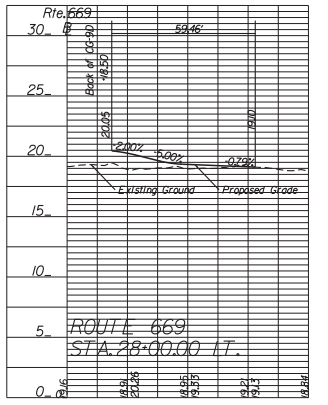
VDOT Location & Design
Richmond, Virginia
ROADWAY ENGINEER

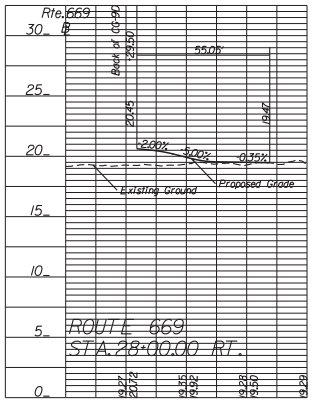
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	12(D)

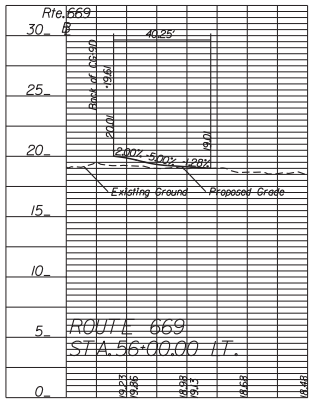
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

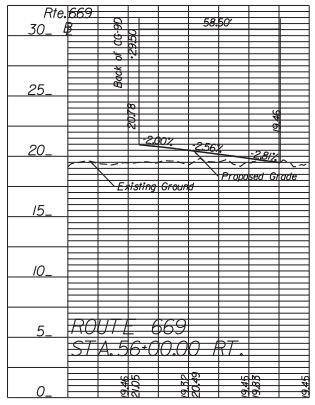
ENTRANCE PROFILES











VERTICAL SCALE	HORIZONTAL SCALE	PROJECT	SHEET NO.
0 5' 10'	0 25' 50'	0669-046-682	12(D)

GENERAL NOTES:

1. Plat Is Intended For Acquisition Only And Does Not Constitute A Boundary Survey.
2. Property Line Information Is Based on Plats And Deeds Of Record. Limited Field Work Was Performed In The Creation Of This Plat.
3. Plat Was Prepared Without The Benefit Of A Title Report, Consequently Not All Encumbrances May Be Depicted.
4. All Property And/Or Easements Described Hereon Are Hereby Acquired By Correlated Deed.
5. This Plat Was Forwarded Electronically In "Read Only" Format. Any Attempt At Alteration Invalidates The Seal And Signature. An Original Hard Copy Remains On File At The Virginia Department Of Transportation, Hampton Roads District Office.
6. The Property's Physical Improvements Are Not Shown Hereon.
7. This Survey Datum Is Based On NAD 83 (2011) State Plane Grid Virginia South Zone.
8. Station And Offsets Are Based On The Construction Baseline.
9. Bearings And Distances In Parenthesis Are From Record Data.
10. Right Of Way Monumentation To Be Set Upon Completion Of Construction.

NAD 83 (11) Virginia South Zone

RIGHT OF WAY PLAN SHEET SHOWING PROPOSED RIGHT OF WAY & EASEMENTS

Conveyed By Deed To The COMMONWEALTH OF VIRGINIA

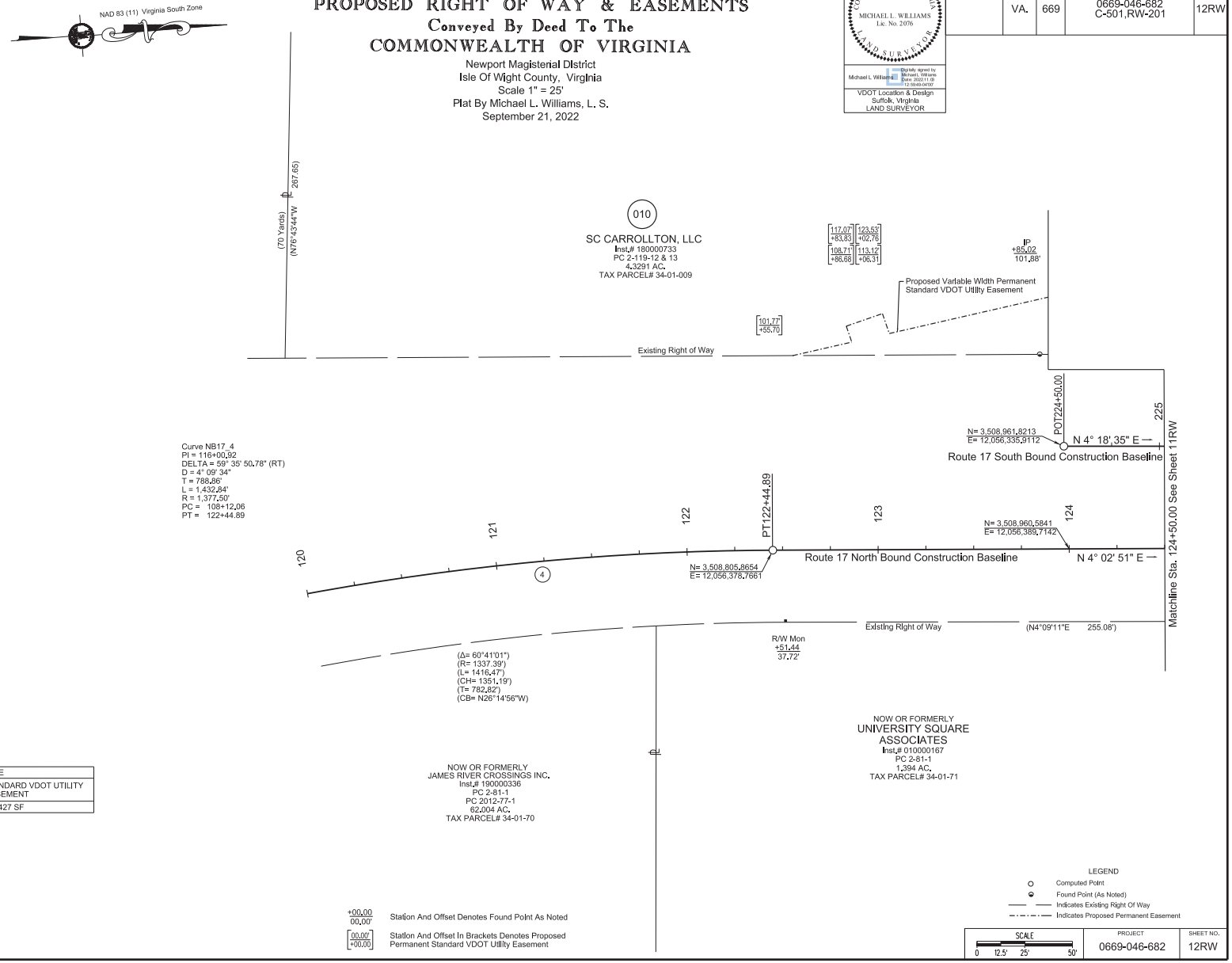
Newport Magisterial District
Isle Of Wight County, Virginia
Scale 1" = 25'
Plat By Michael L. Williams, L. S.
September 21, 2022

COMMONWEALTH OF VIRGINIA
MICHAEL L. WILLIAMS
Lic. No. 2076
LAND SURVEYOR

Michael L. Williams — Digitally signed by Michael L. Williams Date: 2022.11.09 12:59:49-04'00'

VDOT Location & Design
Suffolk, Virginia
LAND SURVEYOR

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501,RW-201	12RW



AREA TABLE	
PARCEL #	PERMANENT STANDARD VDOT UTILITY EASEMENT
010	4,427 SF

+00.00 / 00.00' — Station And Offset Denotes Found Point As Noted

[00.00' / +00.00] — Station And Offset In Brackets Denotes Proposed Permanent Standard VDOT Utility Easement

LEGEND
- Computed Point
- Found Point (As Noted)
- Indicates Existing Right Of Way
- Indicates Proposed Permanent Easement

SCALE	PROJECT	SHEET NO.
0 12.5' 25' 50'	0669-046-682	12RW

1/3/2024
3:41:02 PM

1109314131011.dgn
Plotted By: Paul.Sarahan

PROJECT MANAGER: Walt Zamjo, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY: Rice Associates, (757) 306-4260, 1/1/17
DESIGN SUPERVISED BY: Paul Sarahan, P.E. (804) 786-4457 (Central Office)
DESIGNED BY: Katie Montgomery, (804) 786-1202, Central Office

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682, C-501	13(1)

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

INDEX OF SHEETS

Sheet No.:	Sheet Description:
13(1)	Index of Sheets, General Notes & Legend
13(2)	Summary of Quantities
13(2A)	Sign Figure Details
13(2B)	CF-5 Detail Sheet
13(2C)	Splice Box Details
13(3) - 13(3A)	Traffic Signal Plan - Int. of Carrollton Boulevard & Nike Park Road

GENERAL NOTES - TRAFFIC SIGNALS

1. The following items shall be in accordance with standards listed below:

Signal Pole Foundation	PF-8
Conduit Installation	EC1-1 or Bored
Signal Head Hangers	SM-3
Sign Hanger	SMD-2
Junction Box	JB-S1, JB-S2, JB-S3, JB-S4
Controller Cabinet Foundation	CF-5
Electrical Service	SE-3 Type B

2. Traffic signal foundation depths and above ground foundation projection/reveal (if needed) shall be determined by the Contractor in accordance with PF-8 standards after the signal pole soil test bores are completed. Signal poles and foundations shall be in accordance with VDOT Std's including maximum loading conditions. The pole supplier shall provide foundations designs and shop drawings that are signed sealed by a Professional Engineer. The top of all signal pole foundations shall be installed 4" above the highest point of the roadway pavement in which the mast is extending over, to allow for required signal head to pavement distances per the MUTCD.

3. Signal pole foundations may be field adjusted within the designated corners no more than 2' in any direction from the plan locations, provided that the revised foundation locations:
Remain out of the clear zone and pavement sections.
Remain within the right of way or proposed easement.
Does not conflict with utilities.
Does not limit sight distance.
Does not affect drainage.
Allow the signal heads to be adjusted with the same alignment with the designated travel lanes as shown on the plans, and is in accordance with the PF-8 Concrete Foundation Standard detail referenced to the installation.

4. The Contractor shall verify mast arm lengths and signal head lane coverage prior to the installation of signal pole foundations.

5. All poles shall be field staked by the Contractor and inspected by the Engineer and Contractor per Section 700 prior to installation of foundations.

6. Traffic signal heads and mast arm signs may be field adjusted no more than 2' in either direction on the mast arms, provided they remain within the designated travel lane assignments. If further adjustment is needed, the Project Inspector shall contact Mr. John Bisnett at (540) 529-5742.

7. All unused wires in the signal heads shall be capped individually using crimp type caps.

8. The Controller Cabinet & CF-5 foundation may be relocated within the designated corner provided it remains within the right of way or proposed easement, outside of the clear zone and pavement sections, does not conflict with utilities, does not limit sight distance, and is in accordance with the Electric Service Standard detail referenced to the installation.

9. Junction boxes may be relocated in the field as necessary provided they remain within the right of way, do not conflict with utilities and remain outside the pavement section.

10. The electric service connection and service line locations may be field adjusted as necessary provided all equipment remains within the right of way or proposed easement, does not conflict with utilities and remains outside of the pavement sections.

11. All underground and overhead utilities shown on these plans are approximate only and may not be complete. At least 72 hours prior to beginning signal work, the Contractor shall contact "Miss Utility of Virginia" at 1-800-552-7001 in order to determine the extent, location, and identity all of the utilities within the work area. At least 5 full working days prior to beginning signal work, the Contractor shall contact Mr. Mike Wilder with VDOT at 757-925-2471 in order to determine the extent and location of all underground signal equipment owned by VDOT within the project limits. If the Contractor perceives a conflict between utilities and the proposed traffic signal equipment, the Contractor shall notify the Engineer immediately so that the conflict may be reviewed. The Contractor shall be responsible for repairing or replacing, at their own expense, any existing utilities, pavement, concrete items, etc. that are damaged or disturbed during construction.

12. Conduit systems shall be bonded in accordance with Section 700 of the 2016 Road and Bridge Specifications.

13. Pavement Markings shown on the signal plans are for representation only. Actual Pavement Markings shall be in accordance with the Pavement Marking Plans.

14. All equipment is to be installed within the existing or proposed R/W or easement.

15. All underground and overhead utilities shown on these plans are approximate only and may not be complete.

16. Not used.

17. The contractor shall coordinate all signal timings, including red and yellow clearance intervals with the Hampton Roads District Signal Engineer.

18. The Contractor shall maintain signal communications at all times.

19. Temporary signals shall only utilize video detection for vehicles.

20. Traffic Signal equipment removed from service shall remain the property of VDOT. The Contractor shall contact the Signal Shop Supervisor at (757) 592-8088 at least two weeks prior to removal and delivery of the signal equipment to coordinate salvaging and disposal.

21. If the Contractor perceives a conflict between utilities and the proposed traffic signal equipment, the Contractor shall notify the Signal Shop Supervisor at 757-592-8088 immediately so that the conflict may be reviewed.
The Contractor shall be responsible for repairing or replacing, at their own expense, any existing utilities, pavement, concrete items, pipes, etc. that are damaged during construction.

22. All traffic signal and signing work and adjustments to proposed signals shall be constructed in accordance with the Plans, the Virginia Department of Transportation (VDOT) Road & Bridge Specifications dated 2020, VDOT Road & Bridge Standards dated 2016, the Manual on Uniform Traffic Control Devices, 2009 Edition (MUTCD), the 2011 Virginia Supplement to the MUTCD, the 2002 National Electrical Code, Special Provision Copied Notes and Special Provisions at the time of advertisement.

23. Emergency preemption detectors shall be located as shown on the plans, however, may be field adjusted as necessary to provide optimal detection capabilities. Wiring shall be adjusted as necessary if the detectors are modified.

24. The contractor is responsible for programming and testing traffic signal cabinet and controller prior to installation. Cabinet Input/Output to be programmed and labeled per Hampton Roads District Traffic Signal Shop guidelines. The contractor can coordinate with the Signals Electronic Manager at (757) 818-1976.

25. The contractor will permanently mark each cabinet and pole foundation indicating the location of all conduits that are cast in the foundation. The markings will consist of an arrow four to six inches long with a letter designation as follows:
(S) - Spare conduits
(T) - Conduits with signal, lighting or detection cables
(E) - Conduits with electrical service conductors for the traffic signal
(G) - Conduits for grounding conductors
The contractor shall mark PF-8 and the foundation depth on the foundation. The markings shall be etched with a trowel one quarter inch deep into the concrete while the concrete is being finished.

The Contractor shall contact the Signals Electronic Manager at (757) 818-1976 for support.

26. All Loop Detectors shall be installed prior to installation of surface course.

27. The contractor shall contact the District signal shop supervisor at 757-592-8088 at least a week in advance of all impacts to the fiber optic lines.

28. VDOT operations and traffic fiber optic lines shall not be removed from service for more than 24 hours.

29. The contractor shall contact the District signal shop supervisor at 757-592-8088 at least two weeks to request final signal timings.

30. The contractor is responsible for the signal throughout the entire length of the construction.

31. The contractor shall submit temporary fiber connection plans to Operations Systems Manager at least two weeks in advance of impacting the fiber line or implementing the temporary construction.

STANDARD TRAFFIC SIGNAL LEGEND

PLAN ITEM	PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Metal Signal Pole & Foundation and Mast Arm (As noted in Signal Pole Legend)		
Pedestal Pole and Foundation (Std. PF-2)		
Pedestal Pole and Foundation (Std. PA-3)		
Traffic Signal Head w/ Backplate		
Traffic Signal Head w/o Backplate		
Pedestrian Signal Head		
Pedestrian Pushbutton & Sign	PA	PA
Traffic Signal Sign Mast Arm or Span Wire Mt'd.		
Traffic Signal Sign Pole Mounted		
Emergency Vehicle Pre-emption (EVP) Sensor		
w/ Conf. Light		
w/o Conf. Light		
Video Detection Camera		
Junction Box (Std. as noted on plans)		
Signal Luminaire (250 W) and Arm		
Signal Luminaire (400 W) and Arm		
Loop Detector (Size as noted on plans)	6' x 30'	6' x 40'
Video Detection Zone (Size as noted on plans)	Max 6' x 30'	Max 6' x 40'
Conduit		

PLAN ITEM		PLAN SYMBOL PROPOSED	PLAN SYMBOL EXISTING
Electrical Service Meter		SM	SM
Electrical Service Safety Switch (Disconnect)		SD	SD
Controller Cabinet	Ground Mounted		
Controller Cabinet	Pole Mounted		
Master Controller Cabinet	Ground Mounted		
Master Controller Cabinet	Pole Mounted		
Controller Cabinet & Foundation	Std. CF-1		
Controller Cabinet & Foundation	Std. CF-3		
Controller Cabinet & Foundation	Std. CF-4		
Controller Cabinet & Foundation	Std. CF-5		
Master Controller Cabinet & Foundation	Std. CF-1		
Master Controller Cabinet & Foundation	Std. CF-3		
Master Controller Cabinet & Foundation	Std. CF-4		
Master Controller Cabinet & Foundation	Std. CF-5		

LABELS

Signal Pole or Controller	A	Proposed Signal Head	2	Signal Phasing	Ø2
Cable and Conduit	B	Existing Signal Head	2	Pedestrian Phasing	P2
Junction Box	S1	Proposed Pedestrian Signal Head	P2	Sign	S-1
		Existing Pedestrian Signal Head	P2	Video Detection Camera	VDC-1
				Emergency Preemption Detector	EVP-1

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL
INDEX OF SHEETS, GENERAL NOTES & LEGENDS
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	13(1)

1/2/2024
4:10:53 PM

1109314131021.dgn
Plotted By: Paul.Sarahan

PROJECT MANAGER _ Wall Zaman, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates (757) 306-4260, 1/1/17
DESIGN BY _ Katie Montgomery (804) 786-1202 (Central Office)
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682, C-501	13(2)

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

Int. No.	Intersection	SHEET NO.	Sign Panel	Traffic Signal Head Section 12" MVS Backplate	Concrete Foundation Signal Pole PF-8	Concrete Foundation CF-5	Signal Mast Arm Pole MP-3, Type E,I	Signal Mast Arm Pole MP-3, Type F	Mast Arm 45'	Mast Arm 60'	Mast Arm 75' Case I Loading	EVP Detection System 3-Way	EVP Detector Cable	Long Loop Detector Amplifier	14/1 Enclosed Conductor Cable	14/2 Conductor Cable Shielded	8/3 Conductor Cable	14/7 Conductor Cable	Hanger Assembly SM-3, One Way	Loop Saw Cut 3/8"	Loop Saw Cut 5/8"	ATC Cabinet 4-door Configuration	McCain ATC 2070 Controller with D-4 firmware	Electrical Service SE-3, Type B	Electrical Service Work Pad	Junction Box JB-SI	Junction Box JB-S2	Junction Box JB-S3	Electrical Service Grounding Electrode 1(10')	Conduit PVC 1"	Bored Conduit 2"	Bored Conduit 3"	Conduit PVC 2"	Conduit PVC 3"	Trench Excavation EC1-1	Test Bore	Fiber Optic Cable 48 Strand	Fiber Optic Drop Cable 12 Strand	Pre-terminated Fiber Patch Panel	Underground Splice Enclosure	Temporary Fiber Connection	Uninterruptible Power Supply Ty.2	Uninterruptible Power Supply Battery Pack	
		ITEM NO.	7005200-0001	7035120-0007	7005120-0068	7005120-0025	7005200-0095	7005200-0097	7005200-0100	7005200-0101	7005200-0104	7035120-0025	7035200-0024	7035120-0003	7005200-0118	7005200-0120	7005200-0108	7005200-0114	7035200-0034	7035200-0040	7035200-0045	7035120-0010	7005120-0200	7005200-0133	7005200-0174	7005200-0177	7005200-0178	7005200-0179	7005200-0148	7005200-0182	7005200-0159	7005200-0192	7005200-0194	7005200-0195	7005200-0197	7005200-0199	9085200-0002	9085200-0004	9085200-0005	9085200-0006	7005420-0008	7035200-0053	7035200-0054	
		UNIT	S.F.	EA.	C.Y.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	L.F.	EA.	L.F.	L.F.	L.F.	L.F.	EA.	L.F.	L.F.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	L.F.	L.F.	EA.	EA.	EA.	EA.	EA.	EA.	
1	Rte.17 (Carrollton Boulevard) & Rte.669 (Nike Park Road)	13(3)	85	32	27	1	1	1	1	1	1	1	940	12	4,245	4,260	40	2,130	10	1,368	165	1	1	1	1	1	9	5	5	90	320	710	485	1,205	725	2	725	185	1	1	1	1	1	
		13(3A)	--	--	--	--	--	--	--	--	--	--	--	2	195	735	--	--	--	48	10	--	--	--	--	--	1	2	--	--	15	--	80	615	735	630	--	655	1,370	1	1	--	--	--	
	TOTAL		85	32	27	1	1	1	1	1	1	1	940	14	4,440	4,995	40	2,130	10	1,416	175	1	1	1	1	2	11	5	5	105	320	790	1,100	1,940	1,355	2	1,380	1,555	2	2	1	1	1	

SUMMARY NOTES

⊗ Denotes item to be paid for on the basis of Plan Quantity in accordance with current Road & Bridge Specifications.

① Signal heads shall be aluminum. Included in the cost of this item are the retroreflective backplates and visors.

② Includes all materials and labor required to maintain fiber backbone connection during construction. Backbone may be out of service for no longer than 24 hrs.

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS
TRAFFIC SIGNAL SUMMARY OF QUANTITIES
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	13(2)

9/6/2023
11:45:08 AM

t109314t3102a1.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Will Zamon,P.E.,(757)956-3272,Hampton Roads District
SURVEYED BY, DATE _ Rice & Associates (757) 306-4260,1/1/17
DESIGN BY _ Kate Montgomery,(804)786-1202,Central Office
SUBSURFACE UTILITY BY, DATE _ Rice & Associates (757) 306-4260,1/1/17

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	13(2A)

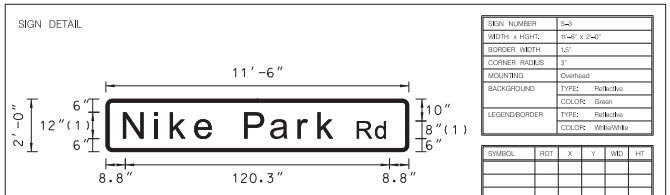
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 08:52:23-04'00'
VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

FIGURE 1

SIGN DETAIL



SIGN NUMBER	S-3
WIDTH x HGHT.	11'-6" x 2'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are in Inches,tenths

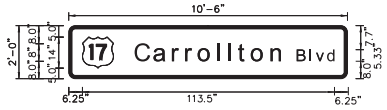
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

N	t	k	e		P	a	r	k												LENGTH	SERIES/SIZE
8,8	23,2	30,3	41,4	50,2	64	75,8	88,5	97,5												97,2	Clearview Hwy-5-W
R	d																				
115	123,4																			14,2	8/6,5

FIGURE 2

SIGN DETAIL



SIGN NUMBER	S-1
WIDTH x HGHT.	10'-6" x 2'-0"
BORDER WIDTH	1.5"
CORNER RADIUS	3"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
M1_4	0	6.2	4.8	14	14

Panel Style: D3-Vic Overhead Street Name.psl
Dimensions are in Inches,tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

C	a	r	r	o	l	l	t	o	n	B	l	v	d							LENGTH	SERIES/SIZE
30.5	39	47.4	53.4	59.1	68	73	77.1	83.1	92	103.6	109.4	112.1	117.3								Clearview Hwy-5-W
																				87.3	8/8,5.3/5.3

LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING

1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL SIGN FIGURE DETAILS

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	13(2A)

9/28/2023
10:23:10 AM

1109314131028.dgn
Plotted By: Paul.Sarahan

PROJECT MANAGER _ Wall Zaman, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates (757) 306-4260, 1/1/17
DESIGN BY _ Katie Montgomery (804) 786-1202 (Central Office)
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682, C-501	13(2B)

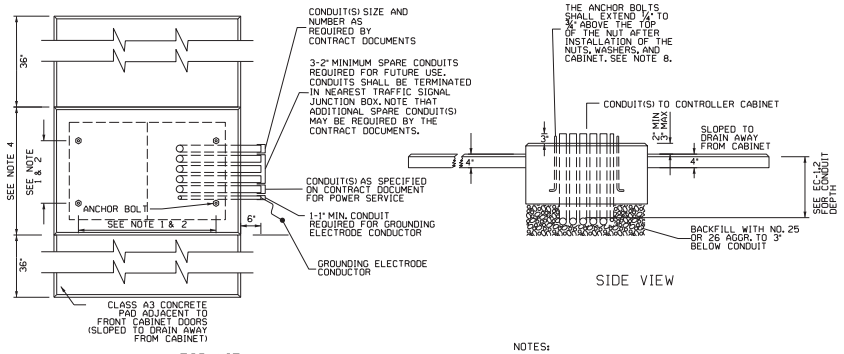
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

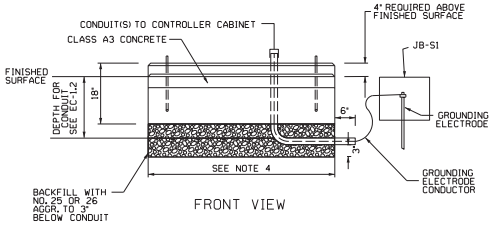
COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 08:54:25-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

CF-5





NOTES:

1. ANCHOR BOLTS AND BOLT TEMPLATES SHALL BE FURNISHED WITH CABINETS.
2. THE CONTROLLER CABINETS SHALL BE CENTERED FROM FRONT TO BACK ON THE FOUNDATION. THE TOTAL WIDTH OF THE CONTROLLER CABINETS SHALL BE CENTERED FROM SIDE TO SIDE ON THE FOUNDATION.
3. THE CONTROLLER CABINETS AT THE INSIDE AND OUTSIDE FOUNDATION JOINTS SHALL BE SEALED WITH AN APPROVED WATERPROOF SILICONE SEALANT.
4. THE FOUNDATION WIDTH AND LENGTH SHALL PROJECT A MINIMUM 4" BEYOND ALL SIDES OF THE CABINETS.
5. EXCAVATED AREAS SHALL BE BACKFILLED WITH AGGREAGE.
6. CF-5 FOUNDATION IS INTENDED FOR USE WITH THE ATC CABINET-COMBINATION CONFIGURATION.
7. EACH CABINET SHALL HAVE FOUR ¾" DIA. X 16" LONG WITH 2" 90 DEGREE BEND ANCHOR BOLTS.

NEW 03/2018

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS

TRAFFIC SIGNAL DETAIL SHEET

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	13(2B)

9/6/2023
11:49:15 AM

1109314131020.dgn
Plotted By: K.Montgomery

PROJECT MANAGER Wolf Zamgo, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY Rice Associates, (757) 306-4260, 1/1/17
DESIGN SUPERVISED BY Paul Sarahan, P.E. (804) 786-4457 (Central Office)
DESIGNED BY Katie Montgomery (804) 786-1202 (Central Office)

SPLICING DETAILS
Rte 17

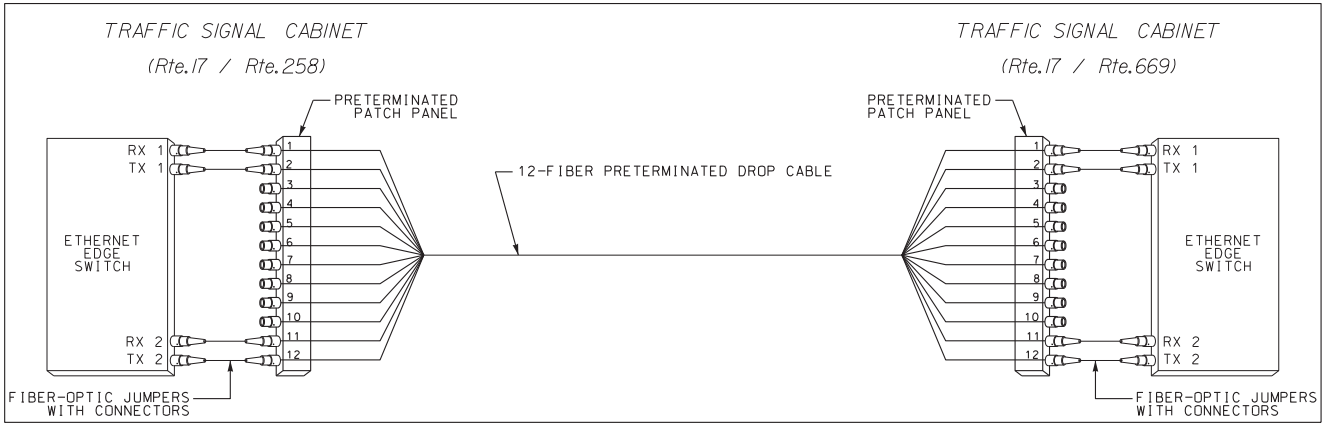
COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

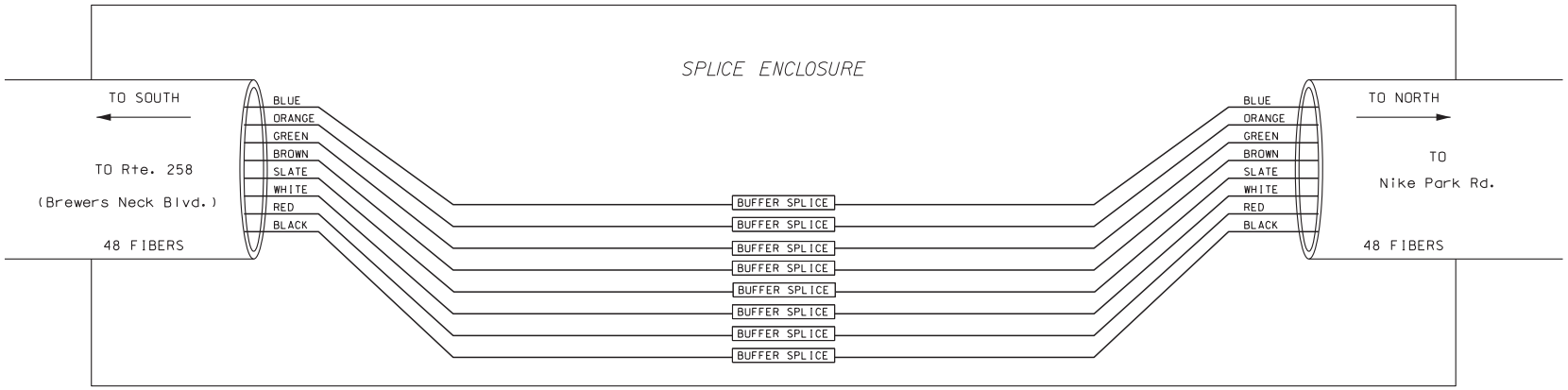
Paul Sarahan
2023.10.10 10:50:34-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	13(2C)

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





LEGEND

X	= FUSION SPLICE INDIVIDUAL FIBER
C	= CAP AND SEAL
EXPRESS	= EXPRESS ENTIRE BUFFER TUBE / FIBERS THROUGH WITHOUT CUTTING
BUFFER SPLICE	= SPLICE ALL FIBERS IN BUFFER TUBE COLOR TO COLOR

COLOR CODE TIA/EIA 598-B

(1)	BLUE	(7)	RED
(2)	ORANGE	(8)	BLACK
(3)	GREEN	(9)	YELLOW
(4)	BROWN	(10)	VIOLET
(5)	SLATE	(11)	ROSE
(6)	WHITE	(12)	AQUA

NOTES

1. UNUSED FIBERS LEFT COILED AND STORED IN SPLICE TRAY
2. UNUSED BUFFER TUBES LEFT COILED AND STORED IN SPLICE ENCLOSURE
3. EDGE SWITCH CONFIGURATIONS ARE GENERIC. CONTRACTOR IS RESPONSIBLE FOR DETERMINING/ ENSURING THE PROPER TERMINATIONS.

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS
TRAFFIC SIGNAL PLAN
SPLICING DETAILS
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	13(2C)

9/28/2023
10:31:25 AM

1109314131031.dgn
Plotted By: K.Montgomery

PROJECT MANAGER: Wolf Zamon, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE: Rice Associates (757) 306-4260, 1/1/17
DESIGN BY: Katie Montgomery, (804) 786-1202, Central Office
SUBSURFACE UTILITY BY, DATE: Rice Associates (757) 306-4260, 1/1/17

Signal Pole & Controller Legend

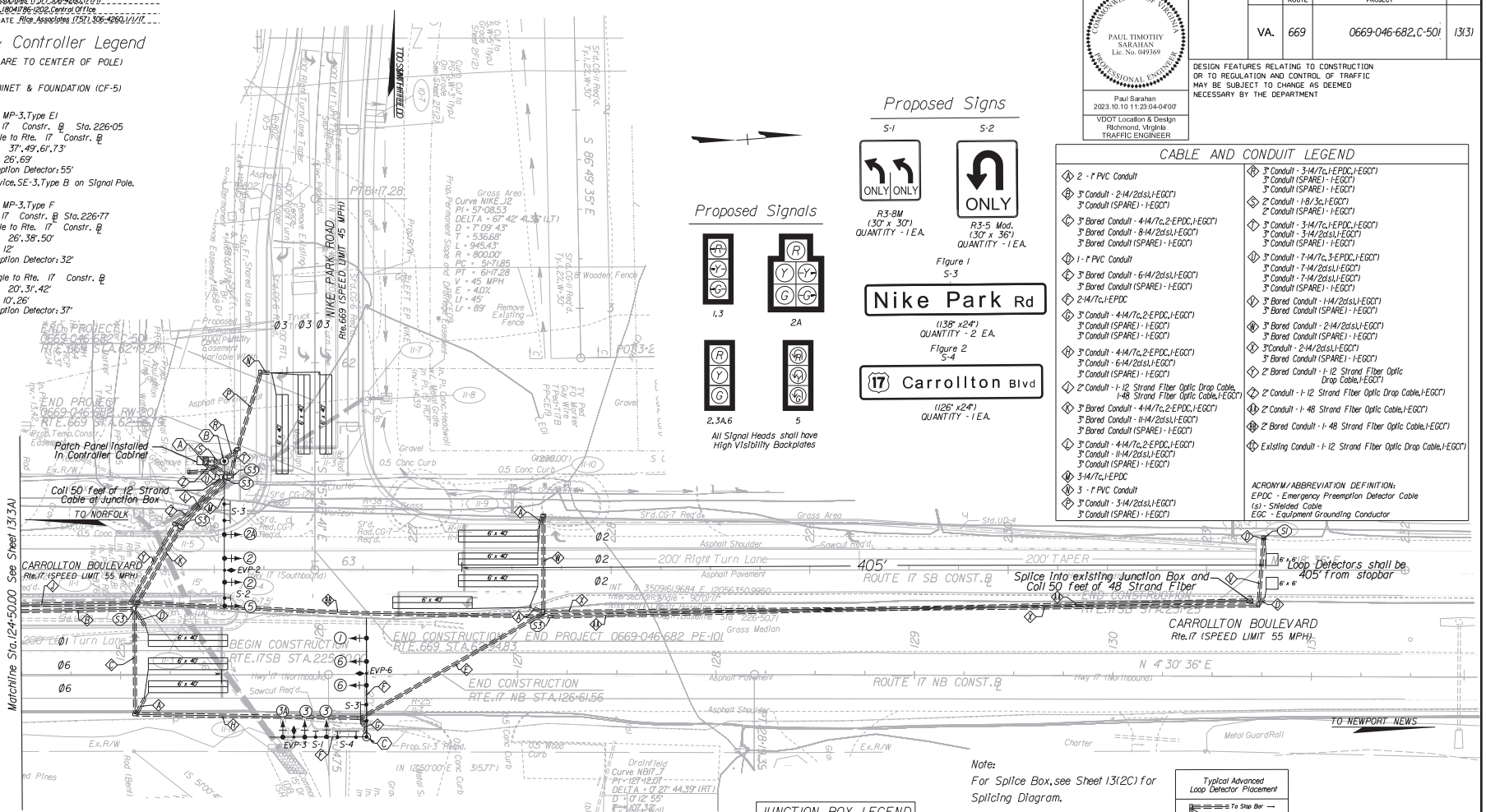
(ALL DIMENSIONS ARE TO CENTER OF POLE)

Ⓐ CONTROLLER CABINET & FOUNDATION (CF-5)

Ⓑ MAST ARM POLE MP-3, Type E1
54.8' LT. of Rte. 17 Constr. ℄ Sta. 226+05
75' Arm 90° Angle to Rte. 17 Constr. ℄
- Signal Placement: 37', 49', 61', 73'
- Sign Placement: 26', 69'
- Emergency Preemption Detector: 55'
Install Electric Service, SE-3, Type B on Signal Pole.

Ⓒ MAST ARM POLE MP-3, Type F
84.2' RT. of Rte. 17 Constr. ℄ Sta. 226+77
60' Arm 270° Angle to Rte. 17 Constr. ℄
- Signal Placement: 26', 38', 50'
- Sign Placement: 12'
- Emergency Preemption Detector: 32'

49' Arm 180° Angle to Rte. 17 Constr. ℄
- Signal Placement: 20', 31', 42'
- Sign Placement: 10', 26'
- Emergency Preemption Detector: 37'



Proposed Signals

All Signal Heads shall have High Visibility Backplates

Proposed Signs

S-1

R3-8M (30" x 30")
QUANTITY - 1 EA.

S-2

R3-5 Mod. (30" x 36")
QUANTITY - 1 EA.

Figure 1
S-3

(138" x 24")
QUANTITY - 2 EA.

Figure 2
S-4

(126" x 24")
QUANTITY - 1 EA.

CABLE AND CONDUIT LEGEND

- Ⓐ 2 - 1" PVC Conduit
- Ⓑ 3" Conduit - 2-14/2c(s), 1-EGC(*)
  3" Conduit (SPARE) - 1-EGC(*)
- Ⓒ 3" Bored Conduit - 4-14/7c, 2-EPDC, 1-EGC(*)
  3" Bored Conduit - 8-14/2c(s), 1-EGC(*)
  3" Bored Conduit (SPARE) - 1-EGC(*)
- Ⓓ 1 - 1" PVC Conduit
- Ⓔ 3" Bored Conduit - 6-14/2c(s), 1-EGC(*)
  3" Bored Conduit (SPARE) - 1-EGC(*)
- Ⓕ 2-14/7c, 1-EPDC
- Ⓖ 3" Conduit - 4-14/7c, 2-EPDC, 1-EGC(*)
  3" Conduit (SPARE) - 1-EGC(*)
  3" Conduit (SPARE) - 1-EGC(*)
- Ⓗ 3" Conduit - 4-14/7c, 2-EPDC, 1-EGC(*)
  3" Conduit - 6-14/2c(s), 1-EGC(*)
  3" Conduit (SPARE) - 1-EGC(*)
- Ⓘ 2" Conduit - 1-12 Strand Fiber Optic Drop Cable, 1-48 Strand Fiber Optic Cable, 1-EGC(*)
- Ⓚ 3" Bored Conduit - 4-14/7c, 2-EPDC, 1-EGC(*)
  3" Bored Conduit - 11-14/2c(s), 1-EGC(*)
  3" Bored Conduit (SPARE) - 1-EGC(*)
- Ⓛ 3" Conduit - 4-14/7c, 2-EPDC, 1-EGC(*)
  3" Conduit - 11-14/2c(s), 1-EGC(*)
  3" Conduit (SPARE) - 1-EGC(*)
- Ⓜ 3-14/7c, 1-EPDC
- Ⓝ 3 - 1" PVC Conduit
- Ⓟ 3" Conduit - 3-14/2c(s), 1-EGC(*)
  3" Conduit (SPARE) - 1-EGC(*)
- Ⓡ 3" Conduit - 3-14/7c, 1-EPDC, 1-EGC(*)
  3" Conduit (SPARE) - 1-EGC(*)
  3" Conduit (SPARE) - 1-EGC(*)
- Ⓢ 2" Conduit - 1-8/3c, 1-EGC(*)
  2" Conduit (SPARE) - 1-EGC(*)
- Ⓣ 3" Conduit - 3-14/7c, 1-EPDC, 1-EGC(*)
  3" Conduit - 3-14/2c(s), 1-EGC(*)
  3" Conduit (SPARE) - 1-EGC(*)
- Ⓤ 3" Conduit - 7-14/7c, 3-EPDC, 1-EGC(*)
  3" Conduit - 7-14/2c(s), 1-EGC(*)
  3" Conduit - 7-14/2c(s), 1-EGC(*)
  3" Conduit (SPARE) - 1-EGC(*)
- Ⓥ 3" Bored Conduit - 11-14/2c(s), 1-EGC(*)
  3" Bored Conduit (SPARE) - 1-EGC(*)
- Ⓦ 3" Bored Conduit - 2-14/2c(s), 1-EGC(*)
  3" Bored Conduit (SPARE) - 1-EGC(*)
- Ⓧ 3"Conduit - 2-14/2c(s), 1-EGC(*)
  3" Bored Conduit (SPARE) - 1-EGC(*)
- Ⓨ 2" Bored Conduit - 1-12 Strand Fiber Optic Drop Cable, 1-EGC(*)
- Ⓩ 2" Conduit - 1-12 Strand Fiber Optic Drop Cable, 1-EGC(*)
- Ⓐ1 2" Bored Conduit - 1-48 Strand Fiber Optic Cable, 1-EGC(*)
- Ⓑ1 2" Bored Conduit - 1-48 Strand Fiber Optic Cable, 1-EGC(*)
- Ⓒ1 Existing Conduit - 1-12 Strand Fiber Optic Drop Cable, 1-EGC(*)

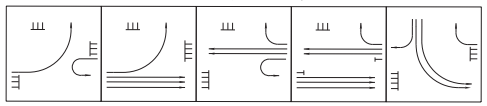
ACRONYM/ABBREVIATION DEFINITION:
EPDC - Emergency Preemption Detector Cable
(s) - Shielded Cable
EGC - Equipment Grounding Conductor

Color Sequence Chart

SIGNALS	SIGNAL	PHASES 1	2	3	5	6	COMBINATIONS 1-5	1-6	2-5	2-6	FLASH
	1	→G					→G	→G			→R
	2		G						G	G	Y
	2A		G/	R/G					G/	G/	G
	3			→G							→R
	3A			G→							R→
	5				(5)		(5)		(5)		(5)
	6					G		G		G	Y

Empty box denotes RED Indication (Red ball or red arrow as appropriate)

Phasing Diagram



JUNCTION BOX LEGEND

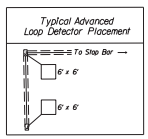
All Junction Boxes shall conform to St'd. JB-S2 unless otherwise noted on the plans.
(S1) Denotes St'd. JB-S1
(S3) Denotes St'd. JB-S3

Note:
For Splice Box, see Sheet 13(2C) for Splicing Diagram.

SPEED LIMITS

Carrollton Blvd	55 MPH
Nike Park Rd	45 MPH

Typical Advanced Loop Detector Placement



SCALE
0 25' 50'

COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 11:23:04-04'00'
VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	STATE SHEET NO.
	VA.	669	0669-046-682, C-501	13(3)

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

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)

Roadway Plan Sheet	11
Signing and Pavement Marking Plan Sheet	14(11)

TRAFFIC CONTROL DEVICE PLANS
TRAFFIC SIGNAL PLAN
ROUTE 17 (CARROLLTON BOULEVARD) & ROUTE 669 (NIKE PARK ROAD)
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	13(3)

9/6/2023
11:54:11 AM

1109314131013A.dgn
Plotted By: K.Montgomery

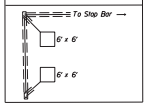
PROJECT MANAGER _ Walt Zamon, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates (757) 306-4260, 1/1/17
DESIGN BY _ Kelly Montgomery (804) 786-1202 (Central Office)
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17

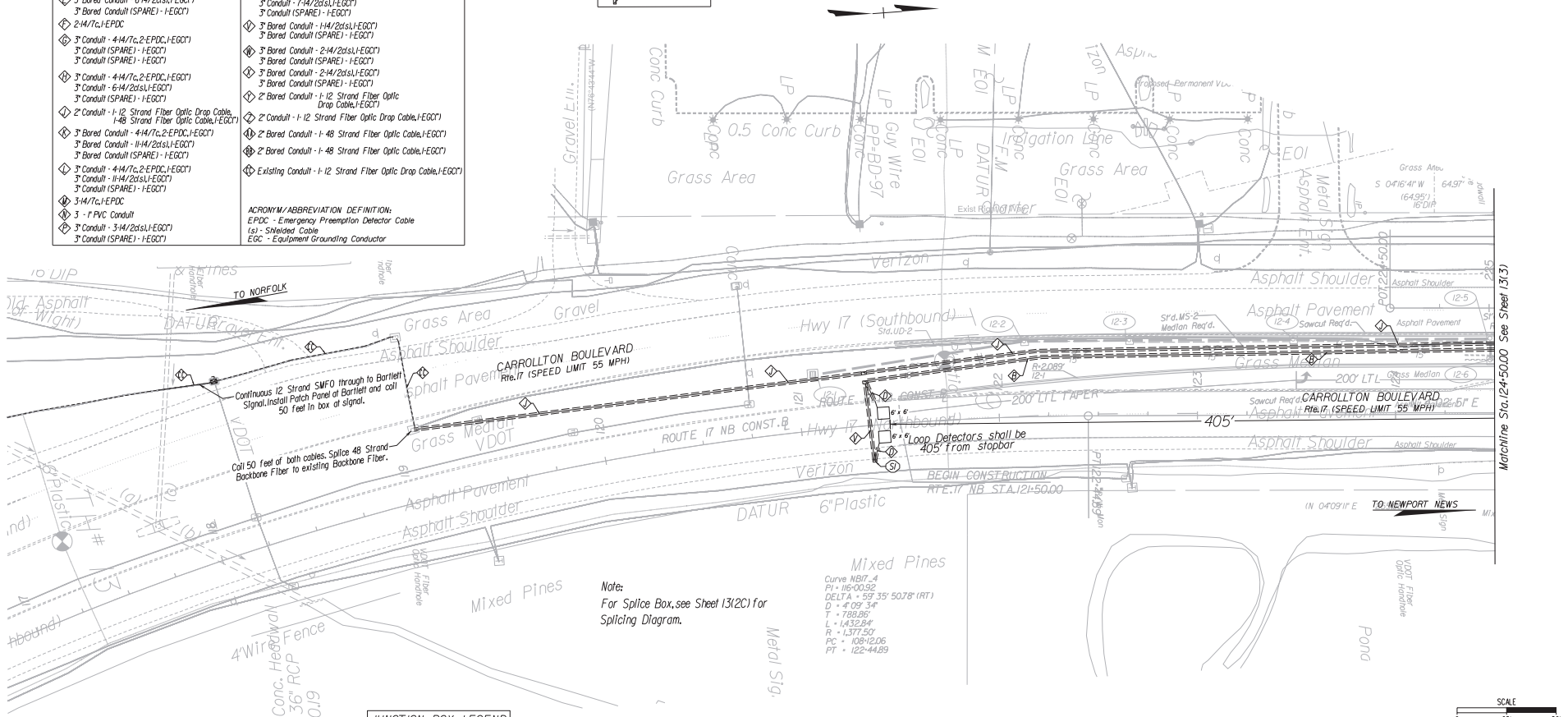
CABLE AND CONDUIT LEGEND

- (A) 2 - 1" PVC Conduit
- (B) 3" Conduit - 2-14/2ds.l-EGC(*)
3" Conduit (SPARE) - 1-EGC(*)
- (C) 3" Bored Conduit - 4-14/7c,2-EPDC,1-EGC(*)
3" Bored Conduit - 8-14/2ds.l-EGC(*)
3" Bored Conduit (SPARE) - 1-EGC(*)
- (D) 1 - 1" PVC Conduit
- (E) 3" Bored Conduit - 6-14/2ds.l-EGC(*)
3" Bored Conduit (SPARE) - 1-EGC(*)
- (F) 2-14/7c,1-EPDC
- (G) 3" Conduit - 4-14/7c,2-EPDC,1-EGC(*)
3" Conduit (SPARE) - 1-EGC(*)
3" Conduit (SPARE) - 1-EGC(*)
- (H) 3" Conduit - 4-14/7c,2-EPDC,1-EGC(*)
3" Conduit - 6-14/2ds.l-EGC(*)
3" Conduit (SPARE) - 1-EGC(*)
- (J) 2" Conduit - 1-12 Strand Fiber Optic Drop Cable,
1-48 Strand Fiber Optic Cable,1-EGC(*)
- (K) 3" Bored Conduit - 4-14/7c,2-EPDC,1-EGC(*)
3" Bored Conduit - 11-14/2ds.l-EGC(*)
3" Bored Conduit (SPARE) - 1-EGC(*)
- (L) 3" Conduit - 4-14/7c,2-EPDC,1-EGC(*)
3" Conduit - 11-14/2ds.l-EGC(*)
3" Conduit (SPARE) - 1-EGC(*)
- (M) 3-14/7c,1-EPDC
- (N) 3 - 1" PVC Conduit
- (P) 3" Conduit - 3-14/2ds.l-EGC(*)
3" Conduit (SPARE) - 1-EGC(*)
- (R) 3" Conduit - 3-14/7c,1-EPDC,1-EGC(*)
3" Conduit (SPARE) - 1-EGC(*)
3" Conduit (SPARE) - 1-EGC(*)
- (S) 2" Conduit - 1-8/3c,1-EGC(*)
2" Conduit (SPARE) - 1-EGC(*)
- (T) 3" Conduit - 3-14/7c,1-EPDC,1-EGC(*)
3" Conduit - 3-14/2ds.l-EGC(*)
3" Conduit (SPARE) - 1-EGC(*)
- (U) 3" Conduit - 7-14/7c,3-EPDC,1-EGC(*)
3" Conduit - 7-14/2ds.l-EGC(*)
3" Conduit - 7-14/2ds.l-EGC(*)
3" Conduit (SPARE) - 1-EGC(*)
- (V) 3" Bored Conduit - 1-14/2ds.l-EGC(*)
3" Bored Conduit (SPARE) - 1-EGC(*)
- (W) 3" Bored Conduit - 2-14/2ds.l-EGC(*)
3" Bored Conduit (SPARE) - 1-EGC(*)
- (X) 3" Bored Conduit - 2-14/2ds.l-EGC(*)
3" Bored Conduit (SPARE) - 1-EGC(*)
- (Y) 2" Bored Conduit - 1-12 Strand Fiber Optic
Drop Cable,1-EGC(*)
- (Z) 2" Conduit - 1-12 Strand Fiber Optic Drop Cable,1-EGC(*)
- (AA) 2" Bored Conduit - 1-48 Strand Fiber Optic Cable,1-EGC(*)
- (BB) 2" Bored Conduit - 1-48 Strand Fiber Optic Cable,1-EGC(*)
- (CC) Existing Conduit - 1-12 Strand Fiber Optic Drop Cable,1-EGC(*)

ACRONYM/ABBREVIATION DEFINITION:
EPDC - Emergency Preemption Detector Cable
(s) - Shielded Cable
EGC - Equipment Grounding Conductor

Typical Advanced Loop Detector Placement





JUNCTION BOX LEGEND

All Junction Boxes shall conform to Std.JB-S2 unless otherwise noted on the plans.

- (S1) Denotes Std.JB-S1
- (S3) Denotes Std.JB-S3

SCALE
0 25' 50'

COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:16:51-04'00'
VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	13(3A)

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

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)

Roadway Plan Sheet	12
Signing and Pavement Marking Plan Sheet	14(12)

TRAFFIC CONTROL DEVICE PLANS
TRAFFIC SIGNAL PLAN
ROUTE 27 (CARROLLTON BOULEVARD) &
ROUTE 669 (NIKE PARK ROAD)
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	13(3A)

9/6/2023
9:39:31 AM

1109314140I.dgn
Plotted By: K.Montgomery

PROJECT MANAGER: Walt Zaman, P.E. (757) 925-1605 (Hampton Roads District)
SURVEYED BY, DATE: Rice & Associates, 01/01/2017
DESIGN BY: Paul Sarahan, P.E. (804) 295-4290 (Central Office)
SUBSURFACE UTILITY BY, DATE: Rice & Associates, 01/01/2017

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682, C-501	14(1)

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

INDEX OF SHEETS

Sheet No.:	Sheet Description:
14(1)	Index of Sheets, General Notes & Legends
14(2)	Summary of Quantities
14(2A)1 - 14(2A)2	Sign Figure Details
14(2B)1 - 14(2B)4	Sign Schedule
14(3) thru 14(12)	Signing & Pavement Marking Plans

GENERAL NOTES - SIGNING

1. All existing signs are to remain unless otherwise noted.

2. Signs are to be installed within R/W or easement.

3. The locations of all underground and overhead utilities shown on these plans are approximate only and may not be accurate. At least 72 hours prior to beginning signing work, the Contractor shall contact "Miss Utility of Virginia" at 1-800-552-7001 in order to determine the extent and location of all underground utilities within the project limits.
If the Contractor perceives a conflict between utilities and the proposed traffic signing equipment, the Contractor shall notify the Engineer immediately so that the conflict may be reviewed.

4. Refer to VDOT Road and Bridge Standards for STP-1 Standards 1321.10 thru 1321.21 for Signs and Posts Installation.
Refer to VDOT Road and Bridge Standards for STP-1 Standard 1321.20 - Sign panel widths 36" or greater shall require sign bracing.

5. Underground Utilities: VDOT is not a member of Ms. Utility. In addition to contacting Ms. Utility per specifications, the contractor will be responsible to notify various VDOT representatives to have VDOT underground property marked.

When requesting services for the first time, please contact Loren Reid or Steven Pearson; they are considered the Eastern Region "Gate Keepers" for VDOT utility locates. Their contact information is as follows:

Loren Reid (loren.reid@vdot.virginia.gov)
Steve Pearson (steven.pearson@vdot.virginia.gov)

They will provide detailed instructions on obtaining locate of VDOT underground property.

GENERAL NOTES - PAVEMENT MARKING

1. All existing conflicting pavement markings shall be eradicated.

2. Stop bars are to be installed a minimum of 4' and a maximum of 30' in advance of the nearest edge of the intersecting roadway or as directed by the Engineer.

3. All proposed pavement markings shall tie into the existing markings at the limit of the proposed pavement markings.

4. Pavement markings on existing pavement are to remain unless noted otherwise on the plans. Existing pavement markings shown outside the limits of the new markings are approximate and shown for reference only.

5. All new pavement marking arrows included in project are noted on plans. All other arrows shown on the plans are existing (hollow arrows) or denote the direction of travel.

6. All turn lane arrows, turn lane skip/solid lines and stop bars shall be located per Std. PM-3.

7. Stop bars shall be no closer than 4' from crosswalks. Stop bars on shared use paths shall not be placed over tactile strips.

8. The width of crosswalks shall be 6' and shall be in accordance with the Road and Bridge Std's. PM-3 for Crosswalk Markings.

PAVEMENT MARKING LEGEND

(A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH

(B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH

(C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH

(D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH

(E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)

(F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II

(G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH

(H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH

(J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)

(K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

STANDARD SIGN LEGEND

PLAN ITEM	PLAN SYMBOL: PROPOSED	PLAN SYMBOL: EXISTING
Single Post Sign Support		
Double Post Sign Support		
Triple Post Sign Support		
Flashing Beacon		
O/H Cantilever Sign Support		
O/H Span Sign Support		

SIGN CALL-OUTS

Existing Sign to Remain or to be Relocated — 95

Existing Sign to be Removed — 95

Proposed Sign Panel — 95

SIGN LABELS

Proposed Sign Assemblies: 2808 / 3 — 2808 denotes Sign Assembly No.; 3 denotes Text No.

Relocated Sign Assemblies: 2808 / 3 — 2808 denotes Sign Assembly No.; 3 denotes Text No.

Sign Relocation or Payable Sign Disposal/Salvage

GM / A — denotes Existing Sign Structure and/or Sign Panel Type

STRUCTURE & SIGN PANEL
GM - Ground Mounted
OM - Overhead Mounted
CM - Cantilever Mounted

SIGN PANEL
SP-GM - Ground Mounted Sign Panel
SP-OH - Overhead Mounted Sign Panel

STRUCTURE ONLY
ST-GM - Ground Mounted

A denotes Action and Measurement & Payment Item
A - Remove & Dispose
B - Remove & Salvage
C - Relocate
D - Overlay Sign Panel

Signs noted on plans to be removed that do not have an accompanying sign label shall not be measured separately for payment. Removal and disposal for such signs shall be incidental to other contract items.

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS

SIGNING & PAVEMENT MARKINGS
INDEX OF SHEETS, GENERAL NOTES & LEGENDS
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(1)

9/26/2023
2:9:27 PM

1109314141021.dgn
Plotted By: K.Montgomery

PROJECT MANAGER: Walt Zaman, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE: Rice Associates (757) 306-4260, 1/1/17
DESIGN BY: Paul Serafan, P.E. (804) 786-4457 (Central Office)
SUBSURFACE UTILITY BY, DATE: Rice Associates (757) 306-4260, 1/1/17

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(2)

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

SUMMARY OF QUANTITIES

TCD Discipline	SIGNING																		PAVEMENT MARKINGS																					
Summary Notes	⊗												①																											
Item Description	Sign Panel	Sign Post STP-I, 2.14 GAUGE	Sign Post STP-I, 2¾"x.10 GAUGE	Sign Post STP-I, 2½"x.10 GAUGE	Sign Post STP-I, 2½"x.12 GAUGE	Concrete Foundation STP-I, Type B	Concrete Foundation STP-I, TYPE D	Concrete Foundation STP-I, Type E	Remove Existing 1 Post Sign Structure	Remove Existing 2 Post Sign Structure	Remove Existing 1 Post Sign Panel	Relocate Existing 2 Post Ground Mounted Sign Panel							Type B, Class I, Pavement Line Marking 4"	Type B, Class I, Pavement Line Marking 6"	Type B, Class I, Pavement Line Marking 24"	Eradicate Existing Linear Pavement Markings	Eradicate Existing Non-Linear Pavement Marking	Pavement Symbol Marking, Single Turn Arrow, Type B, Class II															
ITEM NO.	705S020-0001	705S020-0014	705S020-0035	705S020-0036	705S020-0037	705S020-0038	705S020-0004	705S020-0042	705S020-0003	705S020-0004	705S020-0007	705S020-0013							704S020-0006	704S020-0007	704S020-0010	525S020-0042	525S020-0043	704S020-0048															
UNIT	S.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.	EA.	EA.	EA.	EA.	EA.							L.F.	L.F.	L.F.	L.F.	S.F.	EA.															
SHEET NO.																																							
14(3)	37.8	--	6	15	15	1	--	1	2	--	4	--							--	--	--	--	--	--															
14(4)	45.8	32	30	87	15	6	2	1	8	--	15	--							1,380	--	35	100	--	--															
14(4A)	29.5	--	6	15	28	1	--	2	--	--	--	--							--	--	--	--	--	--															
14(4E)	29.6	--	6	15	28	1	--	2	--	--	--	--							105	--	--	100	--	--															
14(5)	29.8	13	6	14	--	1	1	--	--	--	--	--							1,265	--	--	--	--	--															
14(6)	--	--	--	--	--	--	--	--	--	--	--	--							1,595	--	--	--	--	--															
14(7)	--	--	--	--	--	--	--	--	--	--	--	--							1,540	--	--	--	--	--															
14(8)	--	--	--	--	--	--	--	--	--	--	--	--							1,595	--	--	--	--	--															
14(9)	--	--	--	--	--	--	--	--	--	--	--	--							1,485	--	--	--	--	--															
14(10)	64.4	25	18	45	28	3	2	2	--	--	--	--							1,800	--	45	--	--	2															
14(11)	79.3	39	36	95	12	7	3	1	7	1	10	1							605	2,880	130	100	51	8															
14(11A)	22.6	--	12	35	12	--	--	3	1	1	1	4							--	--	--	--	--	--															
14(12)	117.2	--	42	108	42	7	--	3	1	--	1	--							--	1,370	--	100	51	1															
TOTAL	456	109	162	429	180	27	7	15	19	2	31	5							11,370	4,250	210	400	102	11															

SUMMARY NOTES

⊗ Denotes Item to be paid for on the basis of Plan Quantity in accordance with current Road & Bridge Specifications.

① Relocate Existing Ground Mounted Sign Panel shall include all required Sign Bracing and Mounting Hardware.

VDOT

LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 E. BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS
SIGNING & PAVEMENT MARKINGS
SUMMARY OF QUANTITIES

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(2)

9/6/2023
9:44:58 AM

1109314140202ail.dgn
Plotted By: K.Montgomery

PROJECT MANAGER: Walt Zamjo, P.E. (757) 956-3272 (Hampton Rds District)
SURVEYED BY, DATE: Rice Associates (757) 306-4260, 1/1/17
DESIGN BY: Paul Sarahan, P.E. (804) 786-4457 (Central Office)
SUBSURFACE UTILITY BY, DATE: Rice Associates (757) 306-4260, 1/1/17

REVISED	STATE	STATE ROUTE	PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	141(2)ail

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

COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:31:50-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

FIGURE 1

SIGN DETAIL



SIGN NUMBER	404, 414
WIDTH x HGHT.	3'-0" x 0'-8"
BORDER WIDTH	0.38"
CORNER RADIUS	1"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are in Inches.tenths

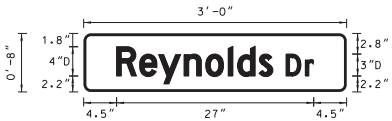
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																					LENGTH	SERIES/SIZE
N	i	k	e		P	a	r	k														D 2000
3,6	7,2	8,6	11,5	13,8	15,8	18,9	21,9	23,9													22,9	4/3
R	d																					D 2000
28,3	30,6																				4,2	32,3

FIGURE 2

SIGN DETAIL



SIGN NUMBER	404, 414
WIDTH x HGHT.	3'-0" x 0'-8"
BORDER WIDTH	0.38"
CORNER RADIUS	1"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are in Inches.tenths

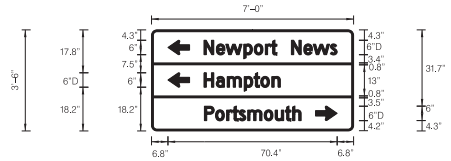
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																					LENGTH	SERIES/SIZE
R	e	y	n	o	l	d	s															D 2000
4,5	7,7	10,3	13,7	16,7	19,8	21,1	24														21,4	4/3
D	r																					D 2000
27,7	30,3																				3,8	32,3

FIGURE 3

SIGN DETAIL



SIGN NUMBER	1002
WIDTH x HGHT.	7'-0" x 3'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type D	90	6,8	31,7	6	9
AR_Type D	90	6,8	18,2	6	9
AR_Type D	270	68,2	4,3	6	9

Dimensions are in Inches.tenths

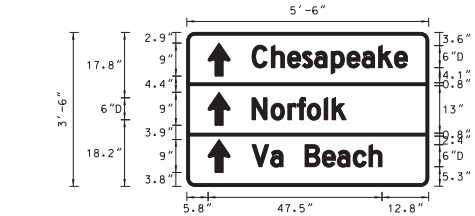
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																					LENGTH	SERIES/SIZE
N	e	w	p	o	r	t		N	e	w	s											D 2000
21,8	27	30,9	38,4	42,7	47,3	49,8	52,2	58,2	63,3	67,2	74,4										55,4	64,5
H	a	m	p	t	o	n																D 2000
21,8	26,9	31,5	38,6	42,6	45,4	50															31,7	64,5
P	o	r	t	s	m	o	u	t	h													D 2000
22	26,6	31,2	33,7	36,4	40	46,8	51,4	55,6	58,7												40,2	64,5

FIGURE 4

SIGN DETAIL



SIGN NUMBER	1002
WIDTH x HGHT.	5'-6" x 3'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR_Type D	360	5,8	30,1	6	9
AR_Type D	360	5,8	16,7	6	9
AR_Type D	360	5,8	3,8	6	9

Dimensions are in Inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																					LENGTH	SERIES/SIZE
C	h	e	s	a	p	e	a	k	e													D 2000
17,8	23,1	27,5	31,5	34,8	39,4	43,7	47,8	52,4	56,7												42,4	64,5
N	o	r	f	o	l	k																D 2000
17,8	23	27,8	30,2	32,9	37,5	39,8															25,7	64,5
V	a		B	e	a	c	h															D 2000
17,8	22,8	26,3	32,3	37	41,1	45,4	48,7														35,5	64,5

VDOT

LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING

1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS

SIGNING & PAVEMENT MARKINGS
SIGN FIGURE DETAILS

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	141(2)ail

9/25/2023
2:23:58 PM

1109314140202d2.dgn
Plotted By: K.Montgomery

PROJECT MANAGER: Walt Zamjo, P.E. (757) 956-3272 (Hampton Rds District)
SURVEYED BY, DATE: Rice Associates (757) 306-4260 1/1/17
DESIGN BY: Paul Sarahan, P.E. (804) 786-4457 (Central Office)
SUBSURFACE UTILITY BY, DATE: Rice Associates (757) 306-4260 1/1/17

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(2A)2

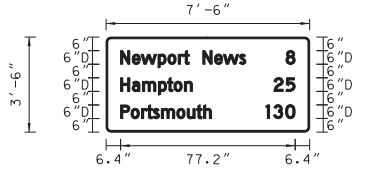
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:32:40-04'00'
VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

FIGURE 5

SIGN DETAIL



SIGN NUMBER	R102
WIDTH x HGHT.	7'-6" x 3'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are in inches,tenths

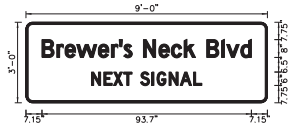
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

N	e	w	p	o	r	t		N	e	w	s								LENGTH	SERIES/SIZE
6.4	11.8	15.5	23	27.3	31.9	34.4	36.8	42.8	47.9	51.8	59								59.4	D 2000 6/4.5
8																			4.1	D 2000 6
H	a	m	p	t	o	n													31.7	D 2000 6/4.5
2	5																		9.4	D 2000 6
P	o	r	t	s	m	o	u	t	h										40.2	D 2000 6/4.5
1	3	0																	12.8	D 2000 6

FIGURE 6

SIGN DETAIL



SIGN NUMBER	R403
WIDTH x HGHT.	9'-0" x 3'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE2: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE3: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Dimensions are in inches,tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

B	r	e	e	z	r	'	s			N	e	c	k		B	l	v	d	LENGTH	SERIES/SIZE
7.2	13.8	17.5	22.7	32.4	38.2	41.7	43.8	47.6	52.6	59.4	65	70.7	75.8	80.8	87.5	89.7	96		93.7	D 2000 8/6
N	E	x	T		S	I	G	N	A	L										
29.3	34.8	39.2	43.7	47.4	51.2	56.3	58.6	64	69	75									49.4	D 2000 6

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS

SIGNING & PAVEMENT MARKINGS
SIGN FIGURE DETAILS

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(2A)2

9/25/2023
2:27:25 PM

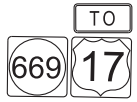
1109314140228ll.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Wail Zaman, P.E._(757) 925-1605, Hampton Roads District
SURVEYED BY, DATE _ Rice & Associates, 01/01/2017 _____
DESIGN BY _ Katie Montgomery, (804) 786-1202, Central Office _____
SUBSURFACE UTILITY BY, DATE _ Rice & Associates, 01/01/2017 _____

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682, C-501	14(2B)11

SIGN SCHEDULE

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

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE W	PANEL SIZE H	QTY.	SIGN PANEL AREA (s.f.): per ASSEMBLY	SIGN PANEL AREA (s.f.): ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	PROP. F'D'N. ST'D.	REMARKS
1	301, 403		M4-5	24"	12"	2	2	28.76	STP-1 2½" & 2¾16" 10 GA.	B	
			M1-V2a	24"	24"	2	4				
			M1-4	24"	24"	2	4				
			M6-4	21"	15"	2	2.19				
			M6-3	21"	15"	2	2.19				
4	1206		D3-2	108"	36"	1	27	27	STP-1 2½" & 2¾16" 10 GA. (2 Posts)	B	FIGURE 6
6	406		M4-5	24"	12"	1	2	14.38	STP-1 2½" & 2¾16" 10 GA.	B	
			M1-V2a	24"	24"	1	4				
			M1-4	24"	24"	1	4				
			M6-4	21"	15"	1	2.19				
			M6-1R	21"	15"	1	2.19				
7	1004		R1-1	30"	30"	1	6.25	6.25	STP-1 2½" 12 GA.	E	
10	411		M4-5	24"	12"	1	2	10	STP-1 2½" 12 GA.	E	
			M1-V2a	24"	24"	1	4				
			M1-4	24"	24"	1	4				

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE W	PANEL SIZE H	QTY.	SIGN PANEL AREA (s.f.): per ASSEMBLY	SIGN PANEL AREA (s.f.): ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	PROP. F'D'N. ST'D.	REMARKS
11	413, 501		M1-V2a	24"	24"	2	4	24.76	STP-1 2½" & 2¾16" 10 GA.	B	
			M1-V2a	24"	24"	2	4				
			M6-4	21"	15"	2	2.19				
			M6-3	21"	15"	2	2.19				
12	419, 420		R2-1	24"	30"	2	5	10	STP-1 2" 14 GA.	D	
13	416		M4-5	24"	12"	1	2	14.38	STP-1 2½" & 2¾16" 10 GA.	B	
			M1-V2a	24"	24"	1	4				
			M1-4	24"	24"	1	4				
			M6-4	21"	15"	1	2.19				
			M6-1L	21"	15"	1	2.19				

NOTES:

1) ALL SIGNS SHALL BE ORIENTATED AS SHOWN ON THE PLANS.
2) SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA SHS BOOK AND THE 2011 VIRGINIA SHS BOOK OR AS NOTED IN THE PLANS.
3) ALL POSITIVE CONTRAST GUIDE AND SPECIFIC SERVICE SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-3 OR L-4 UNLESS OTHERWISE NOTED IN THE REMARKS. ALL OTHER SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-1 OR L-2 UNLESS OTHERWISE NOTED IN THE REMARKS.
4) ALL BLACK SHEETING SHALL BE NON-REFLECTIVE.
5) SIGN STRUCTURES SHALL BE INSTALLED PER THE NOTED SIGN ST'D.
6) ALL ST'D. STP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.
7) IF APPLICABLE, SEE SHEET 2D FOR NON-STANDARD TYPE VA AND VIA SIGN STRUCTURE DETAILS.

VDOT

LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING

1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS
SIGNING AND PAVEMENT MARKINGS
SIGN SCHEDULE

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(2B)11

9/25/2023
2:44:29 PM

1109314140212b12.dgn
Plotted By: K.Montgomery

PROJECT MANAGER: Wail Zaman, P.E. (757) 925-1605, Hampton Roads District
SURVEYED BY, DATE: Rice & Associates, 01/01/2017
DESIGN BY: Katie Montgomery, (804)786-1202, Central Office
SUBSURFACE UTILITY BY, DATE: Rice & Associates, 01/01/2017

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(2B)12

SIGN SCHEDULE

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

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE: W	PANEL SIZE: H	QTY.	SIGN PANEL AREA (s.f.): PER ASSEMBLY	SIGN PANEL AREA (s.f.): ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	PROP. FD'N. ST'D.	REMARKS
17	1002	← Newport News ← Hampton Portsmouth →	D1-3	84"	42"	1	24.5	24.5	STP-1 2½" & 2¾16" 10 GA. (2 Posts)	B	Figure 3
18	404,502,1005	SPEED LIMIT 45	R2-1	24"	30"	3	5	15	STP-1 2" 14 GA.	D	
19	1203	Newport News 8 Yorktown 25 Fredericksburg 130	D2-3	90"	42"	1	26.25	26.25	STP-1 2½" & 2¾16" 10 GA. (2 Posts)	B	Figure 5
20	1112,1113		R4-7	24"	30"	2	5	10	STP-1 2" 14 GA.	D	
21	1202	NORTH 669 17	M3-1	24"	12"	1	2	14.38	STP-1 2½" & 2¾16" 10 GA.	B	
			M1-V2a	24"	24"	1	4				
			M1-4	24"	24"	1	4				
			M5-1L	21"	15"	1	2J9				
			M6-3	21"	15"	1	2J9				
22	1104	ONE WAY	R6-1L	54"	18"	1	6.75	6.75	STP-1 2½" 12 GA.	E	
23	1106	ONE WAY ONE WAY	R6-1R	54"	18"	2	13.5	13.5	STP-1 2½" 10 GA.	B	
24	1117	SOUTH 17 NORTH 17	M3-3	24"	12"	1	2	16.38	STP-1 2½" & 2¾16" 10 GA.	B	
			M3-1	24"	12"	1	2				
			M1-4	24"	24"	2	4				
			M6-1L	21"	15"	1	2J9				
			M6-1R	21"	15"	1	2J9				
26	1003	669	M1-V2a	24"	24"	1	4	4	STP-1 2" 14 GA.	D	
27	4E01,1108	SOUTH 17 669	M3-3	24"	12"	2	2	28.76	STP-1 2½" & 2¾16" 10 GA.	B	
			M1-4	24"	24"	2	4				
			M1-V2a	24"	24"	2	4				
			M6-3	21"	15"	2	2J9				
			M5-1R	21"	15"	2	2J9				
28	1107	Albert G Horton Jr Memorial Veterns Cemetery	Existing	--	--	1	--	--	STP-1 2½" & 2¾16" 10 GA. (2 Posts)	B	
30	1205	Chesapeake Norfolk Va Beach HURRICANE EVACUATION ROUTE	D3-3	66"	42"	1	19.25	23.25	STP-1 2½" & 2¾16" 10 GA. (2 Posts)	B	Figure 4
			EM-1	24"	24"	1	4				

NOTES:

1) ALL SIGNS SHALL BE ORIENTATED AS SHOWN ON THE PLANS.
2) SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA SHS BOOK AND THE 2011 VIRGINIA SHS BOOK OR AS NOTED IN THE PLANS.
3) ALL POSITIVE CONTRAST GUIDE AND SPECIFIC SERVICE SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-3 OR L-4 UNLESS OTHERWISE NOTED IN THE REMARKS. ALL OTHER SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-1 OR L-2 UNLESS OTHERWISE NOTED IN THE REMARKS.
4) ALL BLACK SHEETING SHALL BE NON-REFLECTIVE.
5) SIGN STRUCTURES SHALL BE INSTALLED PER THE NOTED SIGN ST'D.
6) ALL ST'D. STP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.
7) IF APPLICABLE, SEE SHEET 2D FOR NON-STANDARD TYPE VA AND VIA SIGN STRUCTURE DETAILS.

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS
SIGNING AND PAVEMENT MARKINGS
SIGN SCHEDULE
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(2B)12

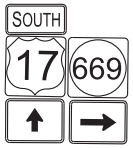
PROJECT MANAGER: Wail Zaman, P.E. (757) 925-1605, Hampton Roads District
SURVEYED BY, DATE: Rice & Associates, 01/01/2017
DESIGN BY: Katie Montgomery, (804)786-1202, Central Office
SUBSURFACE UTILITY BY, DATE: Rice & Associates, 01/01/2017

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682, C-501	14(2B)3

SIGN SCHEDULE

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

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE W	PANEL SIZE H	QTY.	SIGN PANEL AREA (s.f.): PER ASSEMBLY	SIGN PANEL AREA (s.f.): ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	PROP. FD'N. ST'D.	REMARKS
31	11A04, 1210		M2-1	21"	15"	2	2.19	12.38	STP-1 2½" 12 GA.	E	
			M1-V2a	24"	24"	2	4				
32	407, 414		D3-1	36"	8"	2	2	20.5	STP-1 2½" & 2¾16" 10 GA.	B	(See Figure 2) Sign panels shall be mounted back to back and braced per Std. STP-1
			D3-1	36"	8"	2	2				(See Figure 1) Sign panels shall be mounted back to back and braced per Std. STP-1
			R1-1	30"	30"	2	6.25				Stop Signs shall have Red Retroflective Strips per MUTCD 2A.21
34	1120		M3-1	24"	12"	1	2	14.38	STP-1 2½" & 2¾16" 10 GA.	B	
			M1-V2a	24"	24"	1	4				
			M1-4	24"	24"	1	4				
			M6-1L	21"	15"	1	2.19				
			M6-3	21"	15"	1	2.19				

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE W	PANEL SIZE H	QTY.	SIGN PANEL AREA (s.f.): PER ASSEMBLY	SIGN PANEL AREA (s.f.): ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	PROP. FD'N. ST'D.	REMARKS
35	1109		M3-3	24"	12"	1	2	14.38	STP-1 2½" & 2¾16" 10 GA.	B	
			M1-4	24"	24"	1	4				
			M1-V2a	24"	24"	1	4				
			M6-3	21"	15"	1	2.19				
			M6-1R	21"	15"	1	2.19				
36	1006, 1102, 1103, 1201, 1207		W3-3	30"	30"	5	6.25	41.25	STP-1 2½" 12 GA.	E	
			W16-15P	24"	12"	5	2				
37	1106		Existing Sign	--	--	1	--	--	STP-1 2½" & 2¾16" 10 GA. (2 Posts)	B	Existing Logo Sign is located on Sheet 14(11A) and relocated to Sheet 14(12).

NOTES:

1) ALL SIGNS SHALL BE ORIENTATED AS SHOWN ON THE PLANS.
2) SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA SHS BOOK AND THE 2011 VIRGINIA SHS BOOK OR AS NOTED IN THE PLANS.
3) ALL POSITIVE CONTRAST GUIDE AND SPECIFIC SERVICE SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-3 OR L-4 UNLESS OTHERWISE NOTED IN THE REMARKS. ALL OTHER SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-1 OR L-2 UNLESS OTHERWISE NOTED IN THE REMARKS.
4) ALL BLACK SHEETING SHALL BE NON-REFLECTIVE.
5) SIGN STRUCTURES SHALL BE INSTALLED PER THE NOTED SIGN ST'D.
6) ALL ST'D. STP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.
7) IF APPLICABLE, SEE SHEET 2D FOR NON-STANDARD TYPE VA AND VIA SIGN STRUCTURE DETAILS.

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS
SIGNING AND PAVEMENT MARKINGS
SIGN SCHEDULE
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(2B)3

9/25/2023
2:57:48 PM

1109314140202b14.dgn
Plotted By: K.Montgomery

PROJECT MANAGER: Wail Zaman, P.E. (757) 925-1605, Hampton Roads District
SURVEYED BY, DATE: Rice & Associates, 01/01/2017
DESIGN BY: Katie Montgomery, (804)786-1202, Central Office
SUBSURFACE UTILITY BY, DATE: Rice & Associates, 01/01/2017

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	1412B14

SIGN SCHEDULE

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

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE: W	PANEL SIZE: H	QTY.	SIGN PANEL AREA (s.f.): PER ASSEMBLY	SIGN PANEL AREA (s.f.): ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	PROP. FD'N. ST'D.	REMARKS
38	302.4A03.4E03		W23-2	36"	36"	3	9	27	STP-1 2½" 12 GA.	E	
39	4A01.4E04		W3-1	30"	30"	2	6.25	12.5	STP-1 2½" 12 GA.	E	
40	4A02		M4-5	24"	12"	1	14.38	14.38	STP-1 2½" & 2¾16" 10 GA.	B	
			M1-V2a	24"	24"	1					
			M1-4	24"	24"	1					
			M6-4	21"	15"	1					
			M5-1L	24"	15"	1					

TEXT NO.	SIGN ASSEMBLY NO(s).	TEXT	SIGN ASSEMBLY COMPONENTS: MUTCD ST'D.	PANEL SIZE: W	PANEL SIZE: H	QTY.	SIGN PANEL AREA (s.f.): PER ASSEMBLY	SIGN PANEL AREA (s.f.): ALL ASSEMBLIES	PROP. SIGN STRUCTURE ST'D.	PROP. FD'N. ST'D.	REMARKS

NOTES:

1) ALL SIGNS SHALL BE ORIENTATED AS SHOWN ON THE PLANS.
2) SIGN COLOR COMBINATIONS SHALL BE IN ACCORDANCE WITH THE FHWA SHS BOOK AND THE 2011 VIRGINIA SHS BOOK OR AS NOTED IN THE PLANS.
3) ALL POSITIVE CONTRAST GUIDE AND SPECIFIC SERVICE SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-3 OR L-4 UNLESS OTHERWISE NOTED IN THE REMARKS. ALL OTHER SIGNS SHALL UTILIZE FABRICATION LETTER TYPE L-1 OR L-2 UNLESS OTHERWISE NOTED IN THE REMARKS.
4) ALL BLACK SHEETING SHALL BE NON-REFLECTIVE.
5) SIGN STRUCTURES SHALL BE INSTALLED PER THE NOTED SIGN ST'D.
6) ALL ST'D. STP-1 STRUCTURES TO BE SINGLE POST UNLESS OTHERWISE NOTED.
7) IF APPLICABLE, SEE SHEET 2D FOR NON-STANDARD TYPE VA AND VIA SIGN STRUCTURE DETAILS.

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

TRAFFIC CONTROL DEVICE PLANS
SIGNING AND PAVEMENT MARKINGS
SIGN SCHEDULE

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	1412B14

9/6/2023
10:53:24 AM

1109314140131.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Walt Zamon, P.E., (757) 925-1505, Hampton Roads District
SURVEYED BY, DATE _ Rice & Associates, 01/01/2017
DESIGN BY _ Katie Montgomery, (804) 786-1202, Central Office
SUBSURFACE UTILITY BY, DATE _ Rice & Associates, 01/01/2017

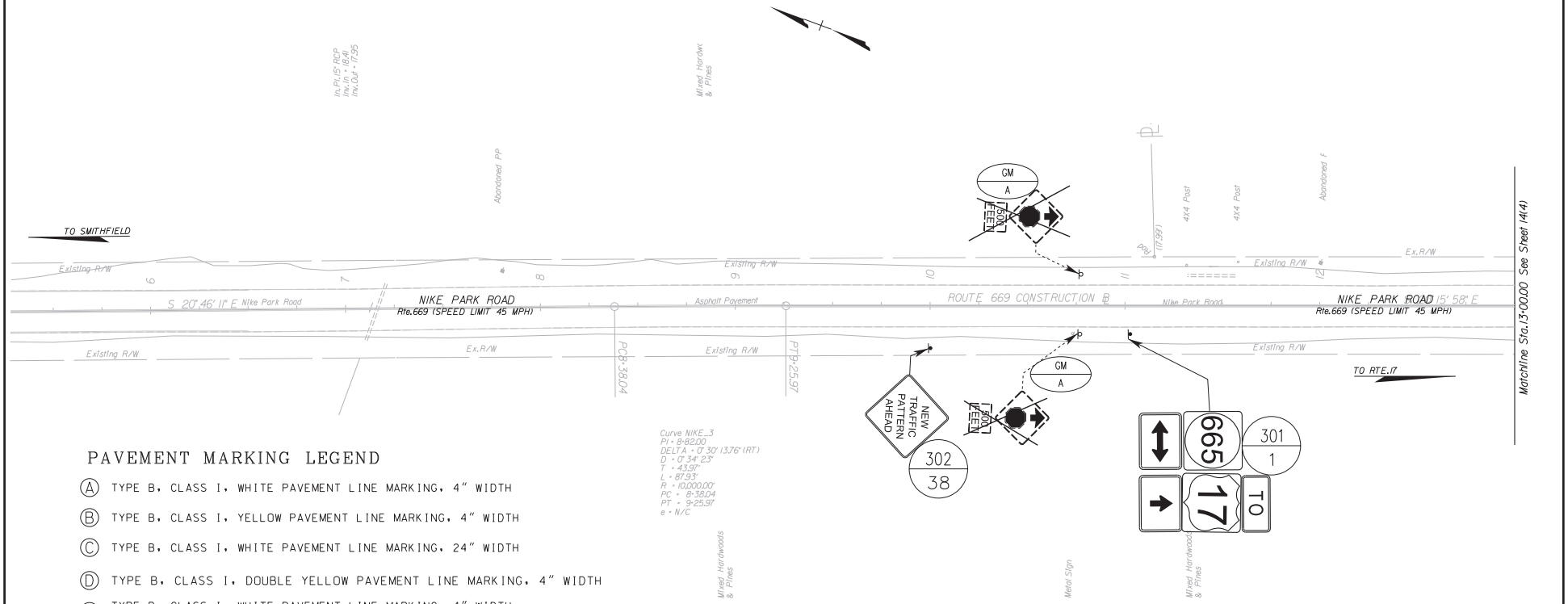
COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:33:49-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(3)

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



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)
- (F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II
- (G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH
- (J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)
- (K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

SCALE
0 25' 50'

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)
Roadway Plan Sheet 3

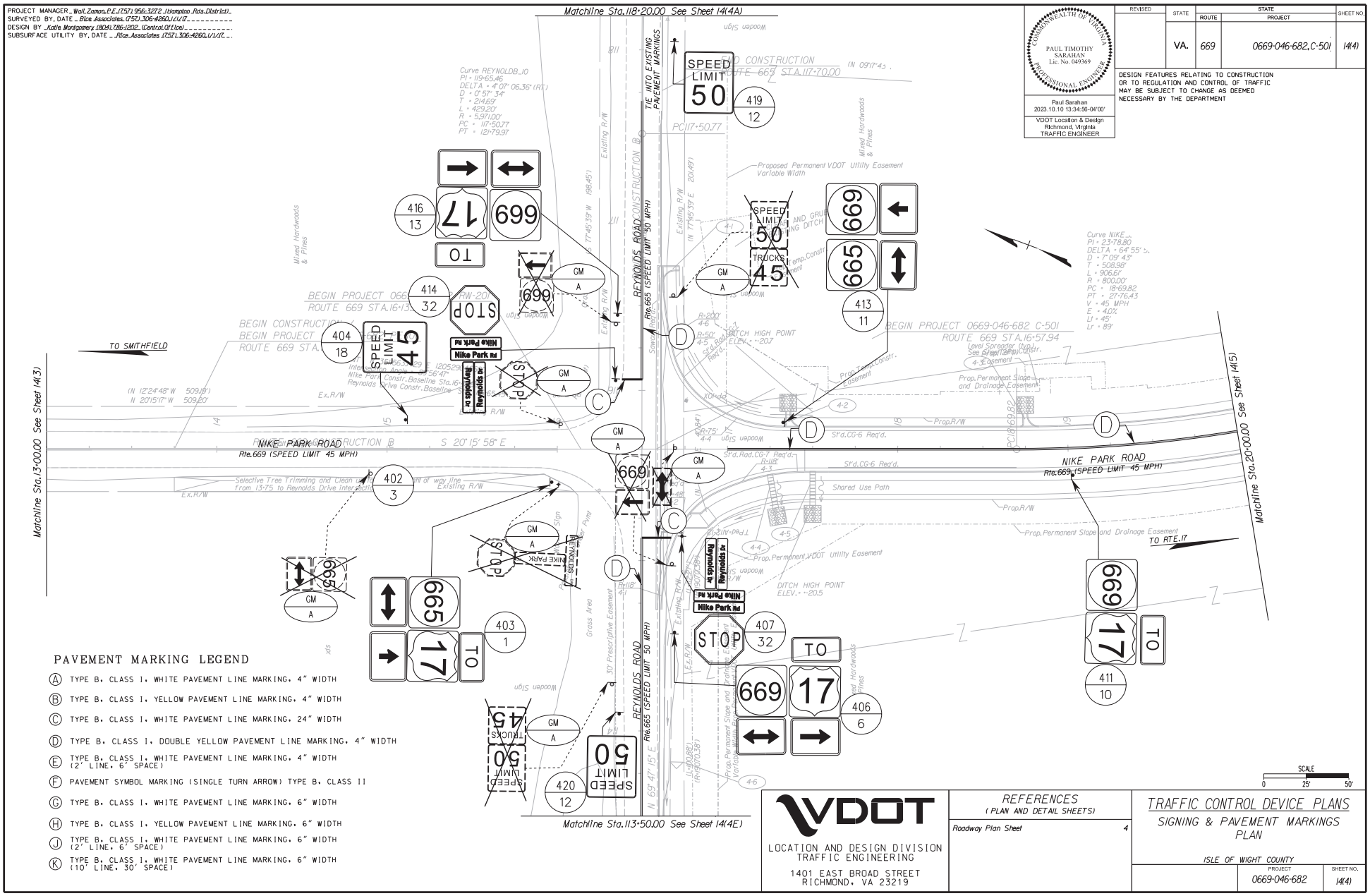
TRAFFIC CONTROL DEVICE PLANS
SIGNING & PAVEMENT MARKINGS PLAN
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(3)

9/26/2023
11:17:51 AM

1109314140141.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Walt Zamora, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates, (757) 306-4260, 1/1/17
DESIGN BY _ Katie Montgomery (804) 786-1202 (Central Office)
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)
- (F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II
- (G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH
- (J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)
- (K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:34:58-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(4)

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

SCALE 0 25' 50'

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)

Roadway Plan Sheet	4

TRAFFIC CONTROL DEVICE PLANS

SIGNING & PAVEMENT MARKINGS PLAN

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(4)

9/6/2023
10:57:54 AM

1109314\4104A1.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Walt Zamon, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates, (757) 306-4260 // // (T _ _ _ _ _ _ _ _ _ _
DESIGN BY _ Katie Montgomery (804) 786-1202 (Central Office) _ _ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 // // (T _ _ _ _ _

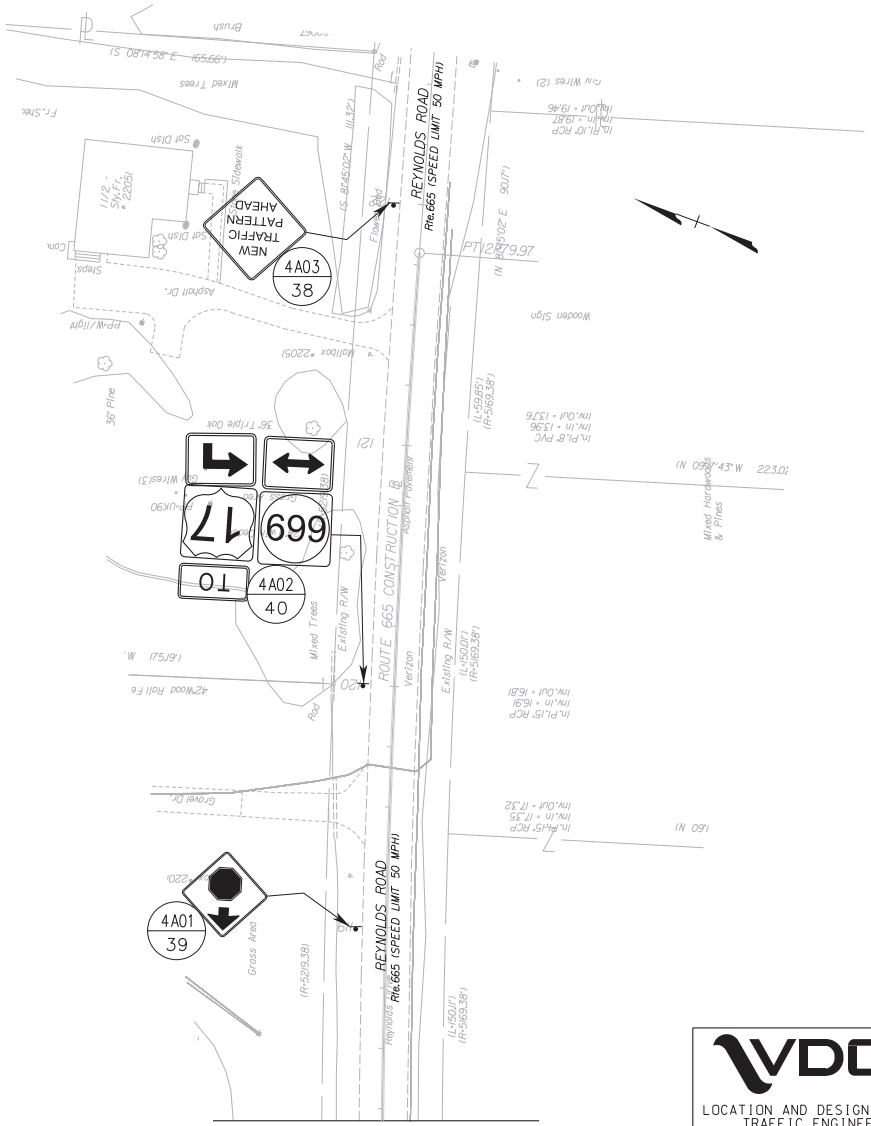
COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:35:33-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(4A)

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



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)
- (F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II
- (G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH
- (J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)
- (K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

SCALE
0 25' 50'

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)

Roadway Plan Sheet	4

TRAFFIC CONTROL DEVICE PLANS
SIGNING & PAVEMENT MARKINGS PLAN

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(4A)

9/26/2023
11:37:22 AM

1109314140 4E1.dgn
Plotted By: K.Montgomery

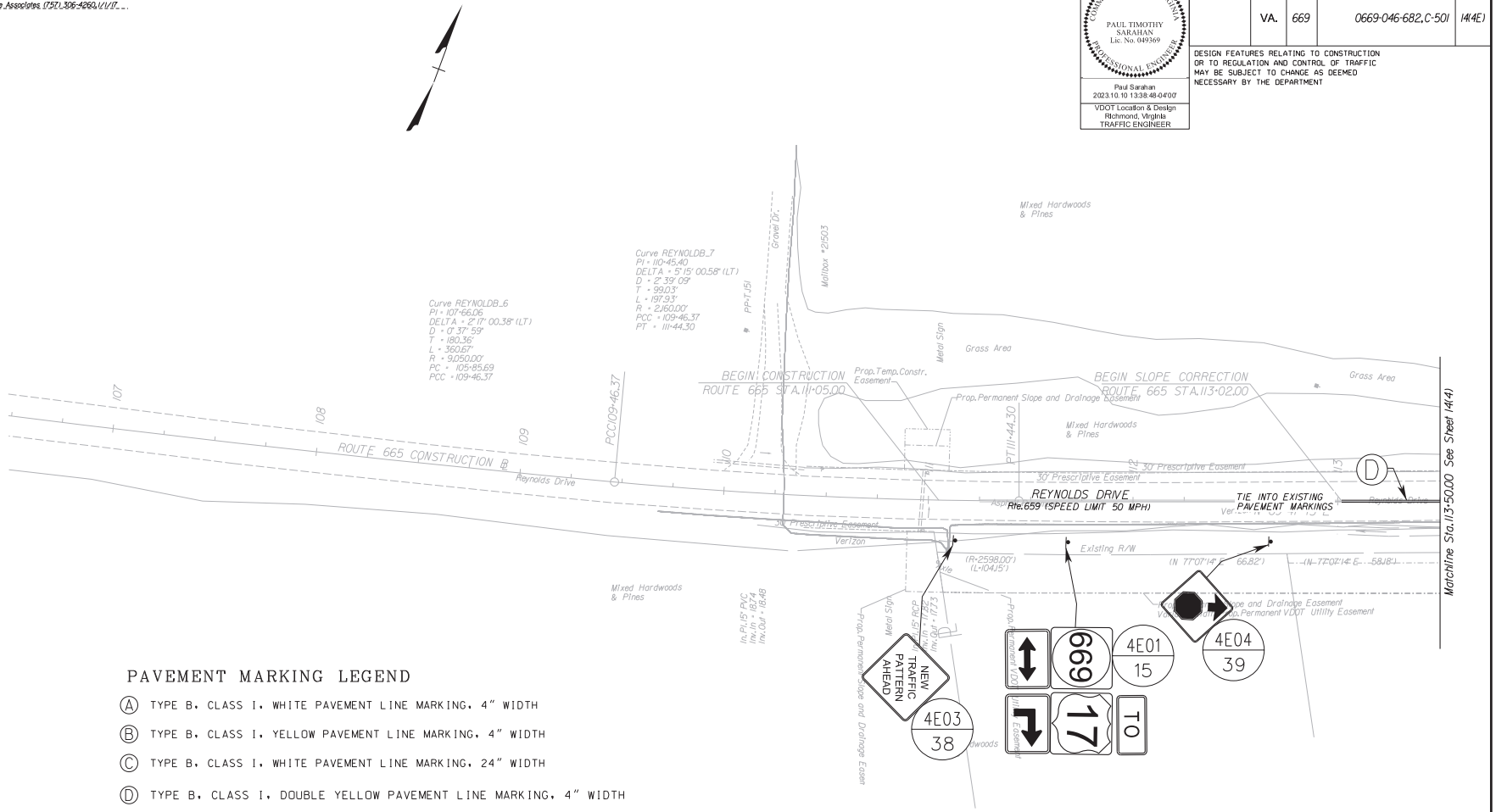
PROJECT MANAGER _Walt Zamora, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_
DESIGN BY _Katie Montgomery (804) 786-1202 (Central Office)_
SUBSURFACE UTILITY BY, DATE _Rice Associates (757) 306-4260 1/1/17_

COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:38:48-04'00'
VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(4E)

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



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)
- (F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II
- (G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH
- (J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)
- (K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

SCALE
0 25' 50'

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)

Roadway Plan Sheet	4E

TRAFFIC CONTROL DEVICE PLANS

SIGNING & PAVEMENT MARKINGS PLAN

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(4E)

9/6/2023
11:02:27 AM

1109314140S1.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates (757) 306-4260, 1/1/17
DESIGN BY _ Katie Montgomery (804) 786-1202 (Central Office)
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17

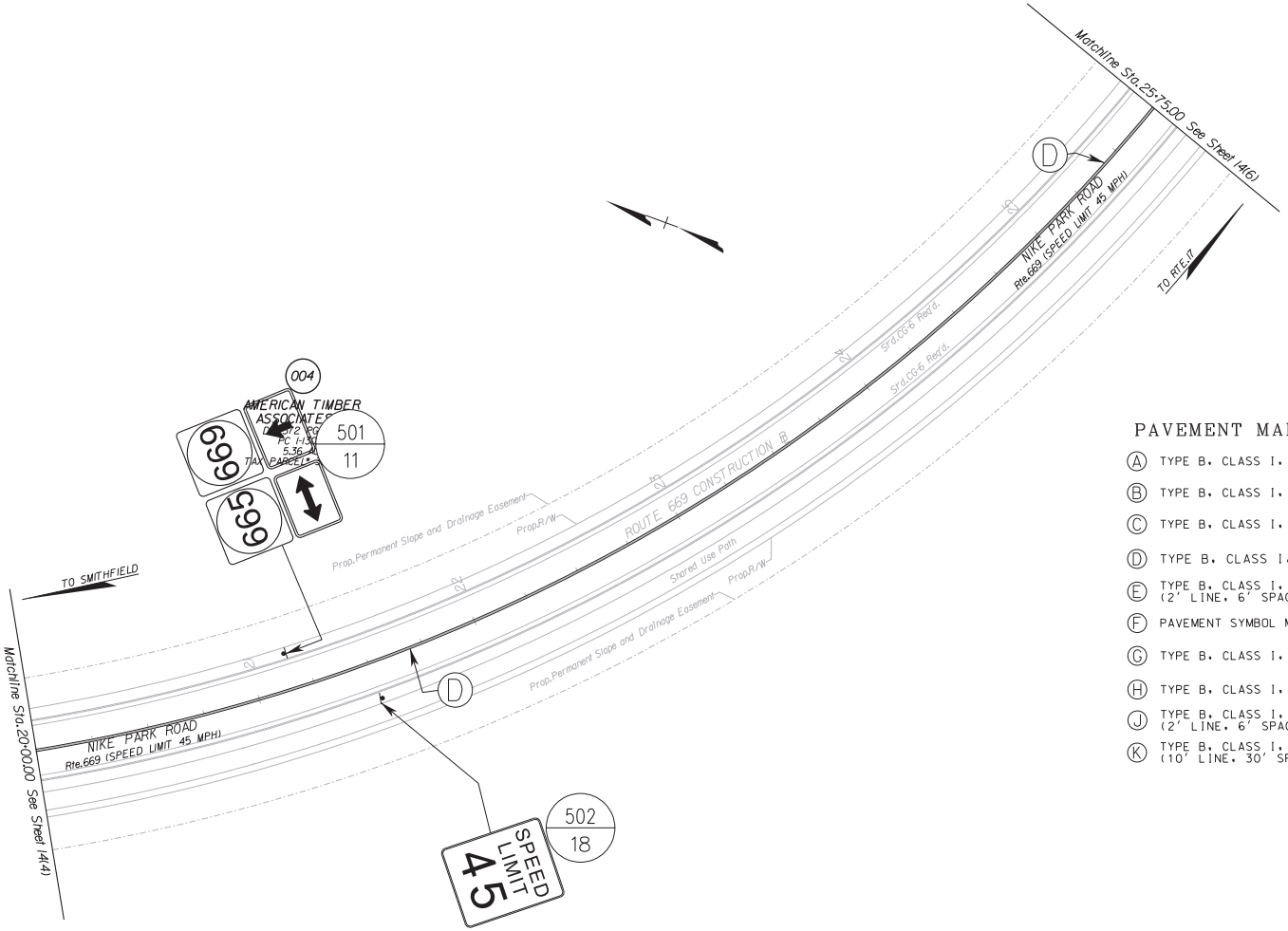
COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:39:51-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(5)

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



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)
- (F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II
- (G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH
- (J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)
- (K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

SCALE
0 25' 50'

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)

Roadway Plan Sheet	5

TRAFFIC CONTROL DEVICE PLANS

SIGNING & PAVEMENT MARKINGS PLAN

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(5)

9/6/2023
11:05:02 AM

1109314140161.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Wolf Zamgo, P.E. (757) 956-3272 (Hampton Rds. District) _
SURVEYED BY, DATE _ Rice Associates, (757) 306-4260, 1/1/17 _
DESIGN BY _ Kaitlin Montgomery (804) 786-1202 (Central Office) _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17 _

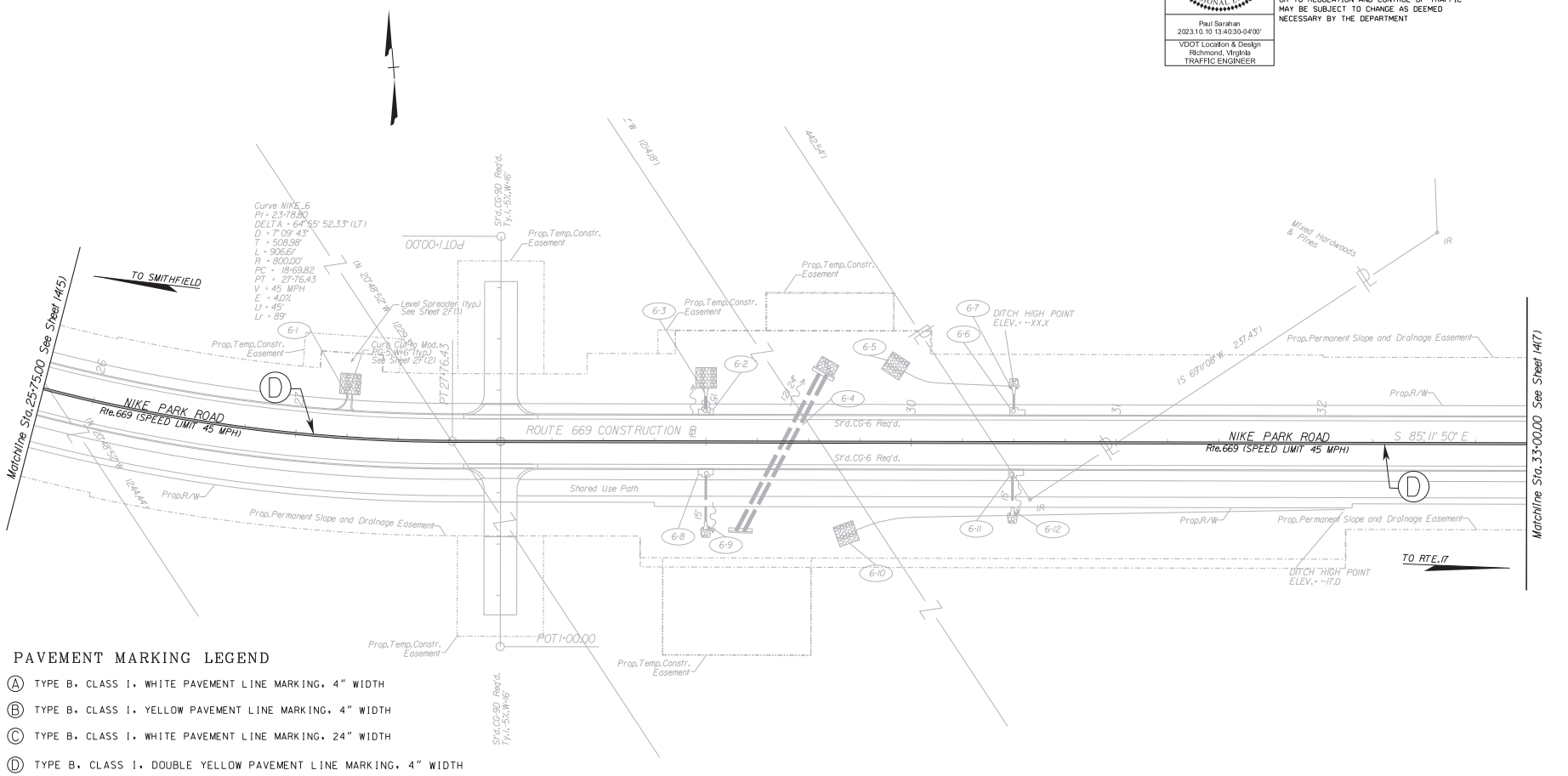
COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:40:30-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(6)

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



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)
- (F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II
- (G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH
- (J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)
- (K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

SCALE
0 25' 50'

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)
Roadway Plan Sheet 6

TRAFFIC CONTROL DEVICE PLANS
SIGNING & PAVEMENT MARKINGS PLAN
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(6)

9/6/2023
11:07:02 AM

1109314140T1.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Walt Zamgo, P.E. (757) 956-3272 (Hampton Rds. District) _
SURVEYED BY, DATE _ Rice Associates, (757) 306-4260, 1/1/17 _
DESIGN BY _ Katie Montgomery (804) 786-1202 (Central Office) _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17 _

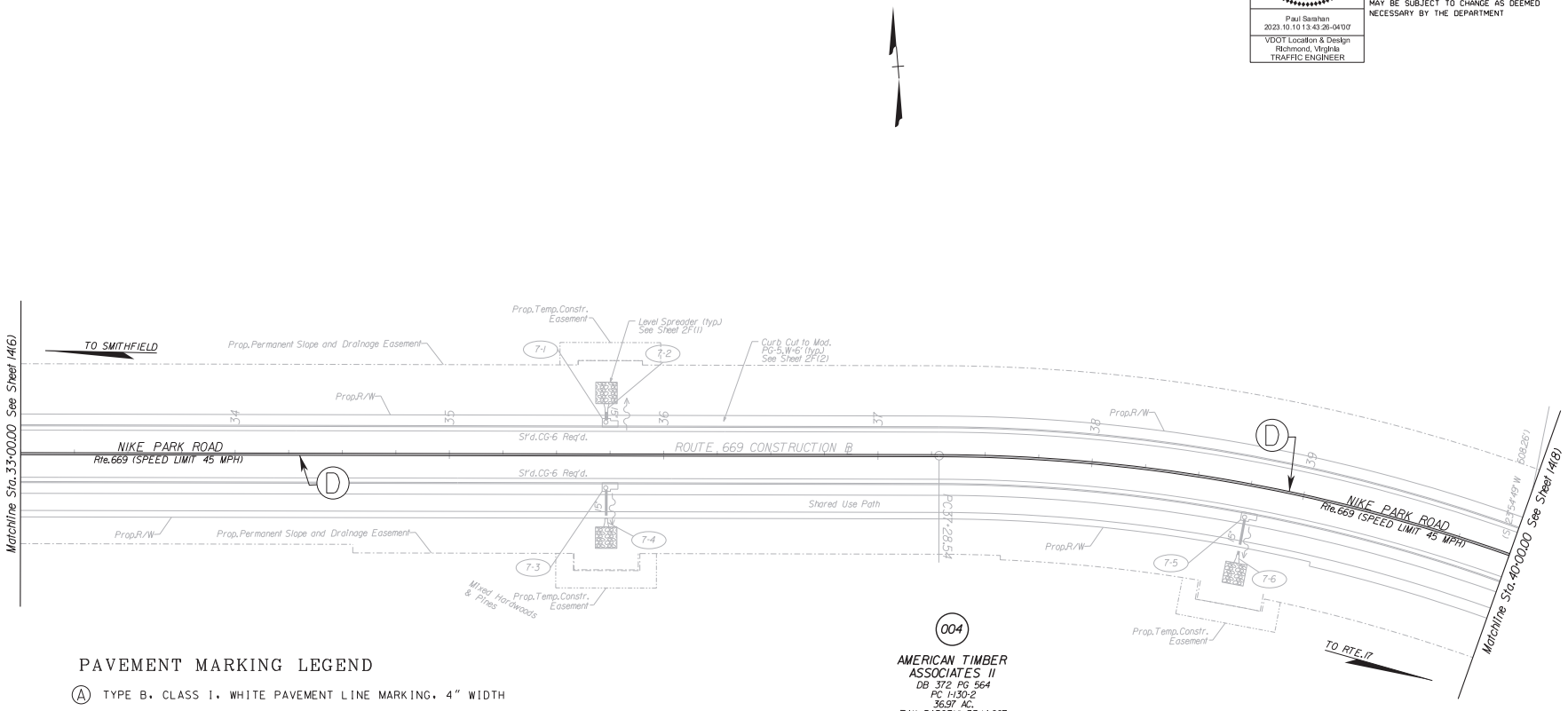
COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:43:26-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(7)

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



004
AMERICAN TIMBER ASSOCIATES II
DB 372, PG 564
PC 1-1,30-2
36.97 AC.
TAX PARCEL* 33-14-007

PAVEMENT MARKING LEGEND

(A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH

(B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH

(C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH

(D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH

(E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)

(F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II

(G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH

(H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH

(J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)

(K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

SCALE
0 25' 50'

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)
Roadway Plan Sheet 7

TRAFFIC CONTROL DEVICE PLANS
SIGNING & PAVEMENT MARKINGS PLAN
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(7)

9/6/2023
11:10:27 AM

1109314140811.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Wolf Zongo, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates (757) 366-4266 1/1/17
DESIGN BY _ Kotfe Montgomery (804) 786-1202 (Central Office)
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 366-4266 1/1/17

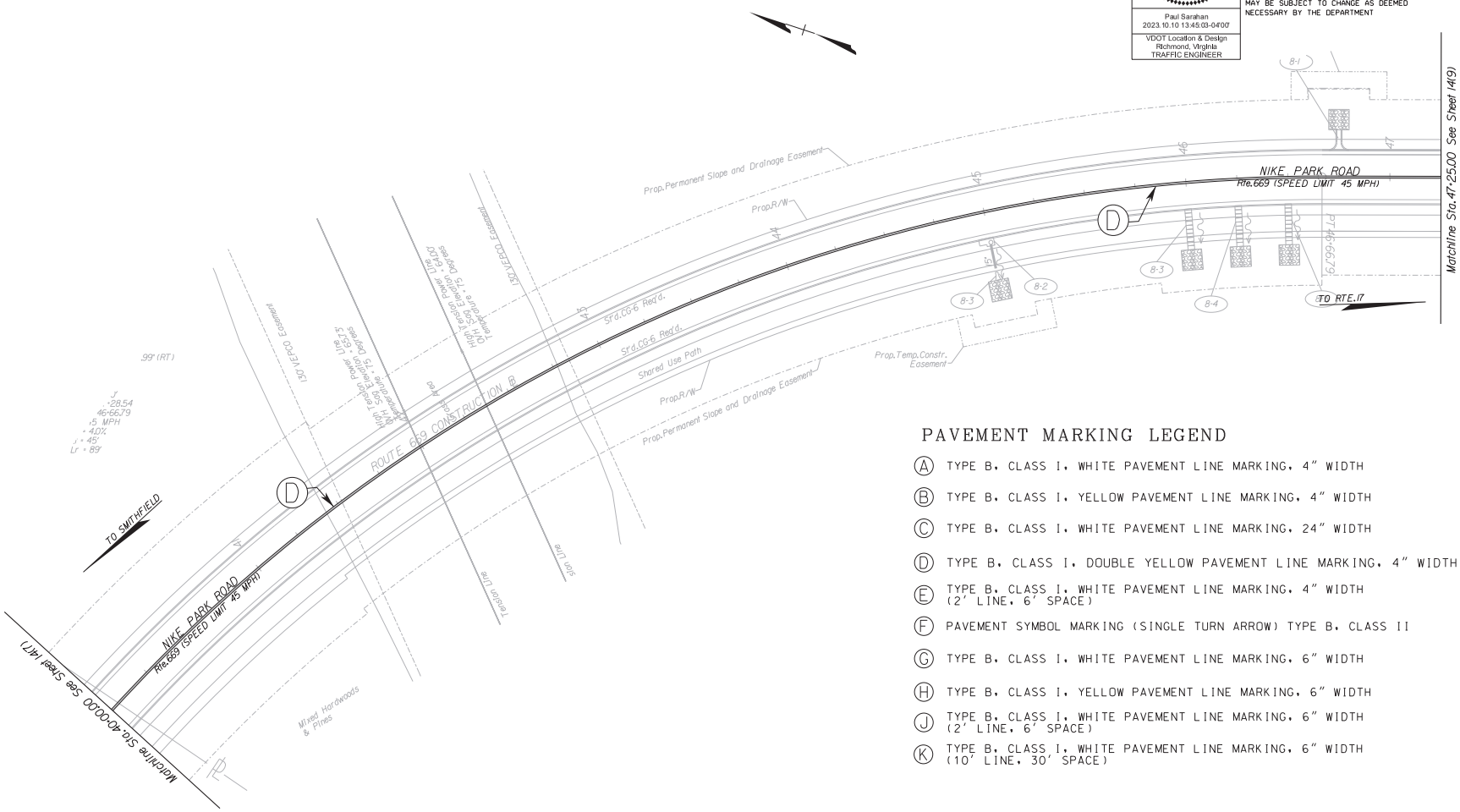
COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:45:03-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(8)

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



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)
- (F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II
- (G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH
- (J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)
- (K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

SCALE
0 25' 50'

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)
Roadway Plan Sheet 8

TRAFFIC CONTROL DEVICE PLANS
SIGNING & PAVEMENT MARKINGS PLAN
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(8)

9/6/2023
11:13:01 AM

1109314141091.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Walt Zampa, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates, (757) 306-4260, 1/1/17
DESIGN BY _ Kathe Montgomery (804) 786-1202 (Central Office)
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17

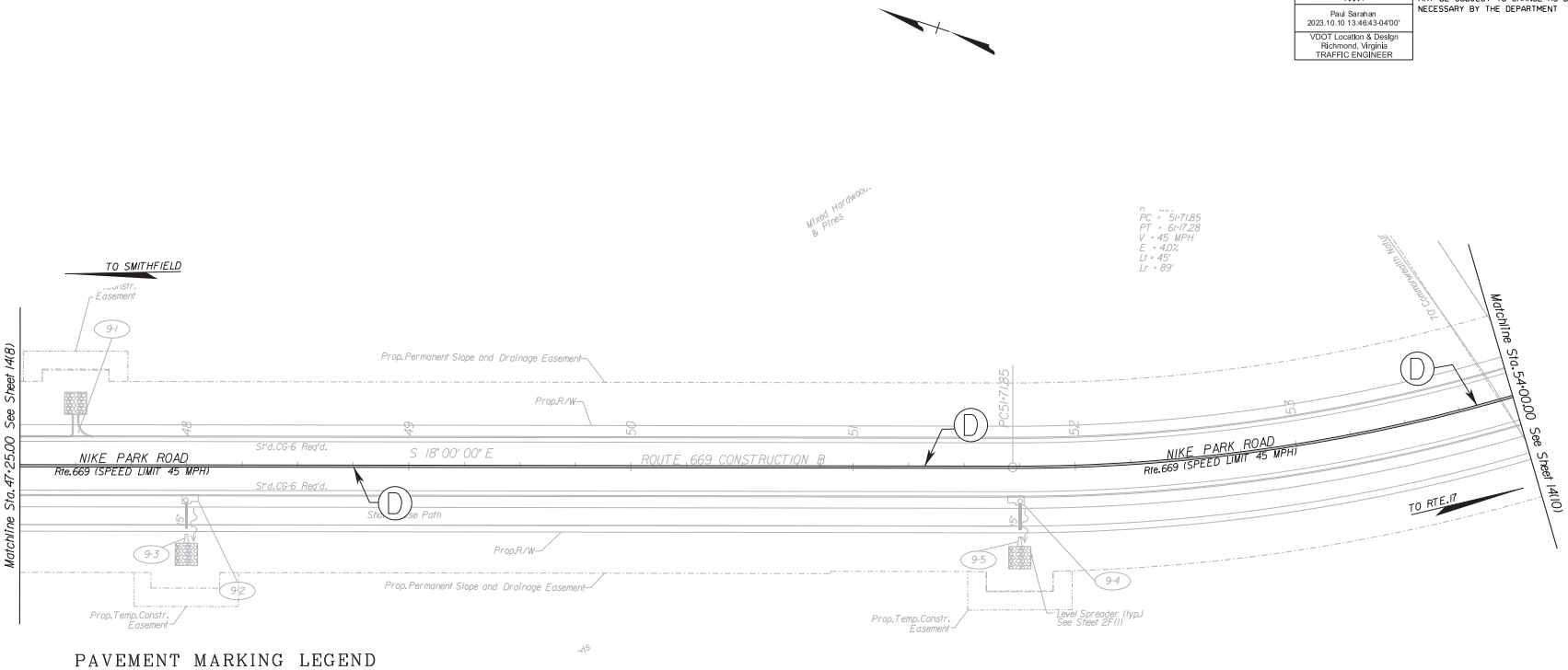
COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:46:43-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(9)

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



PAVEMENT MARKING LEGEND

(A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH

(B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH

(C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH

(D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH

(E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)

(F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II

(G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH

(H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH

(J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)

(K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

SCALE
0 25' 50'

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)
Roadway Plan Sheet 9

TRAFFIC CONTROL DEVICE PLANS
SIGNING & PAVEMENT MARKINGS PLAN
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(9)

9/6/2023
11:16:25 AM

1109314141(0).dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Wall Zamzo, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates (757) 306-4260, 1/1/17
DESIGN BY _ Kate Montgomery (804) 786-1202 (Central Office)
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17

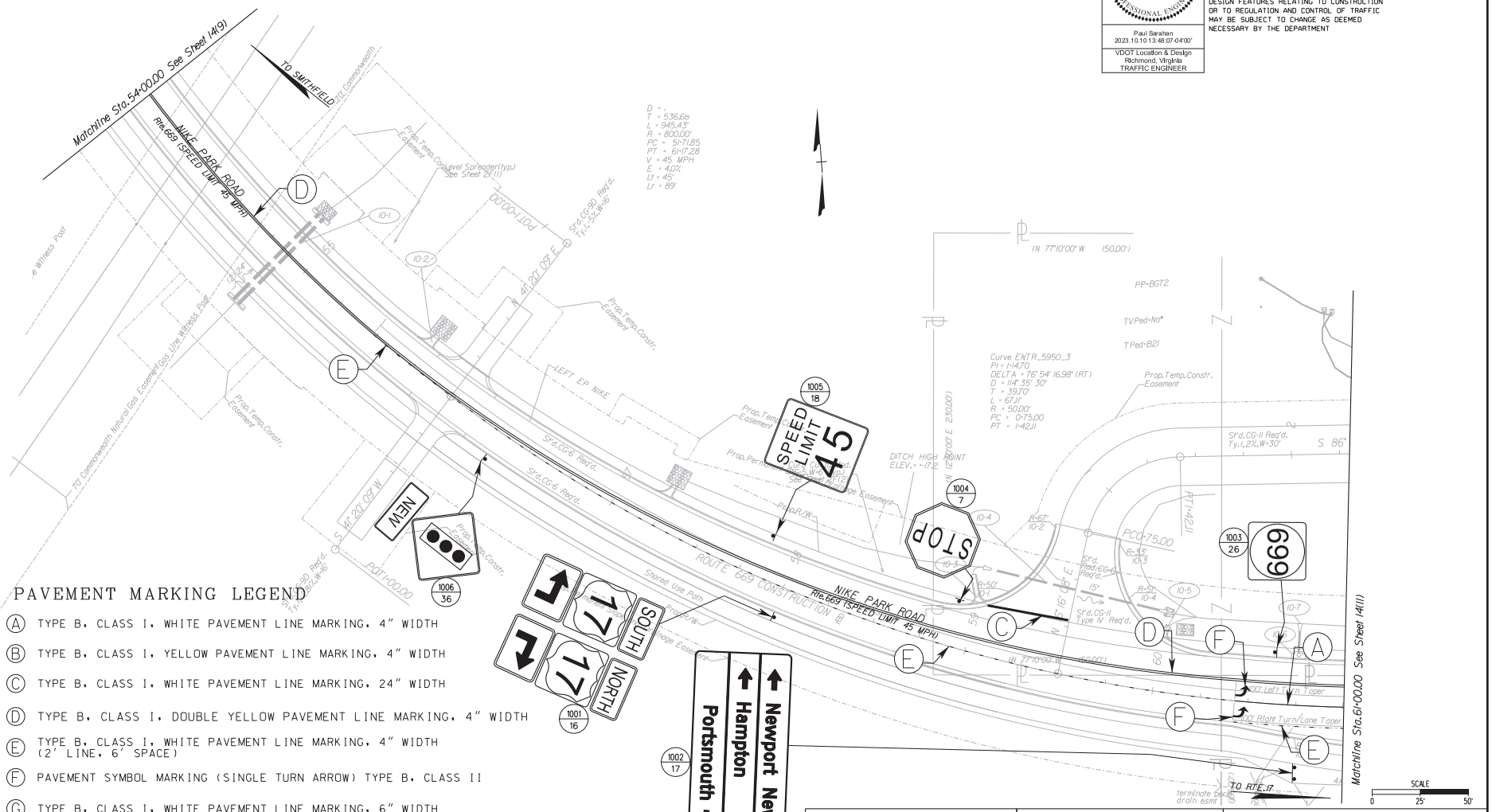
COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:48:07-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(10)

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



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)
- (F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II
- (G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH
- (J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)
- (K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)

Roadway Plan Sheet	10

TRAFFIC CONTROL DEVICE PLANS

SIGNING & PAVEMENT MARKINGS PLAN

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(10)

9/26/2023
1:39:49 PM

1109314141112.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Walt Zongo, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates (757) 306-4260, 1/1/17
DESIGN BY _ Katie Montgomery (804) 786-1202 (Central Office)
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17

COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:50:24-04'00'
VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(11)

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

Matchline Sta.61+00.00 See Sheet 14(10)

Matchline Sta.124+50.00 See Sheet 14(12)

Matchline Sta.231+75.00 See Sheet 14(11A)

Remove Existing Fence

NIKE PARK ROAD
Posted SPEED LIMIT 45 MPH

TO SMITHFIELD

TO NORFOLK

Sign to be relocated at Station 121+55 Sheet 14(12)

Chesapeake
Norfolk
Va. Beach
HURRICANE EVACUATION ROUTE

Albert G Horton Jr Memorial Veterns Cemetery

CARROLLTON BOULEVARD
Rte.17 (SPEED LIMIT 55 MPH)

200' Left Turn Lane

200' Right Turn Lane

200' TAPER

ROUTE 17 SB CONST.

ROUTE 17 NB CONST.

BEGIN CONSTRUCTION RTE.17SB STA.126+50.00

END CONSTRUCTION RTE.17SB STA.231+25

END CONSTRUCTION RTE.17NB STA.126+61.56

END PROJECT 0669-046-682 PE-101

TIE INTO EXISTING PAVEMENT MARKINGS

TO NEWPORT NEWS

ONE WAY

NORTH

SOUTH

PAVEMENT MARKING LEGEND

(A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH

(B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH

(C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH

(D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH

(E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)

(F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II

(G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH

(H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH

(J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)

(K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

SCALE
0 25' 50'

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)

Roadway Plan Sheet	11
Traffic Signal Plan Sheet	13(3)

TRAFFIC CONTROL DEVICE PLANS
SIGNING & PAVEMENT MARKINGS PLAN

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(11)

9/6/2023
11:22:07 AM

1109314141111A1.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Walt Zaman, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates (757) 306-4260, 1/1/17
DESIGN BY _ Katie Montgomery (804) 786-1202 (Central Office)
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17

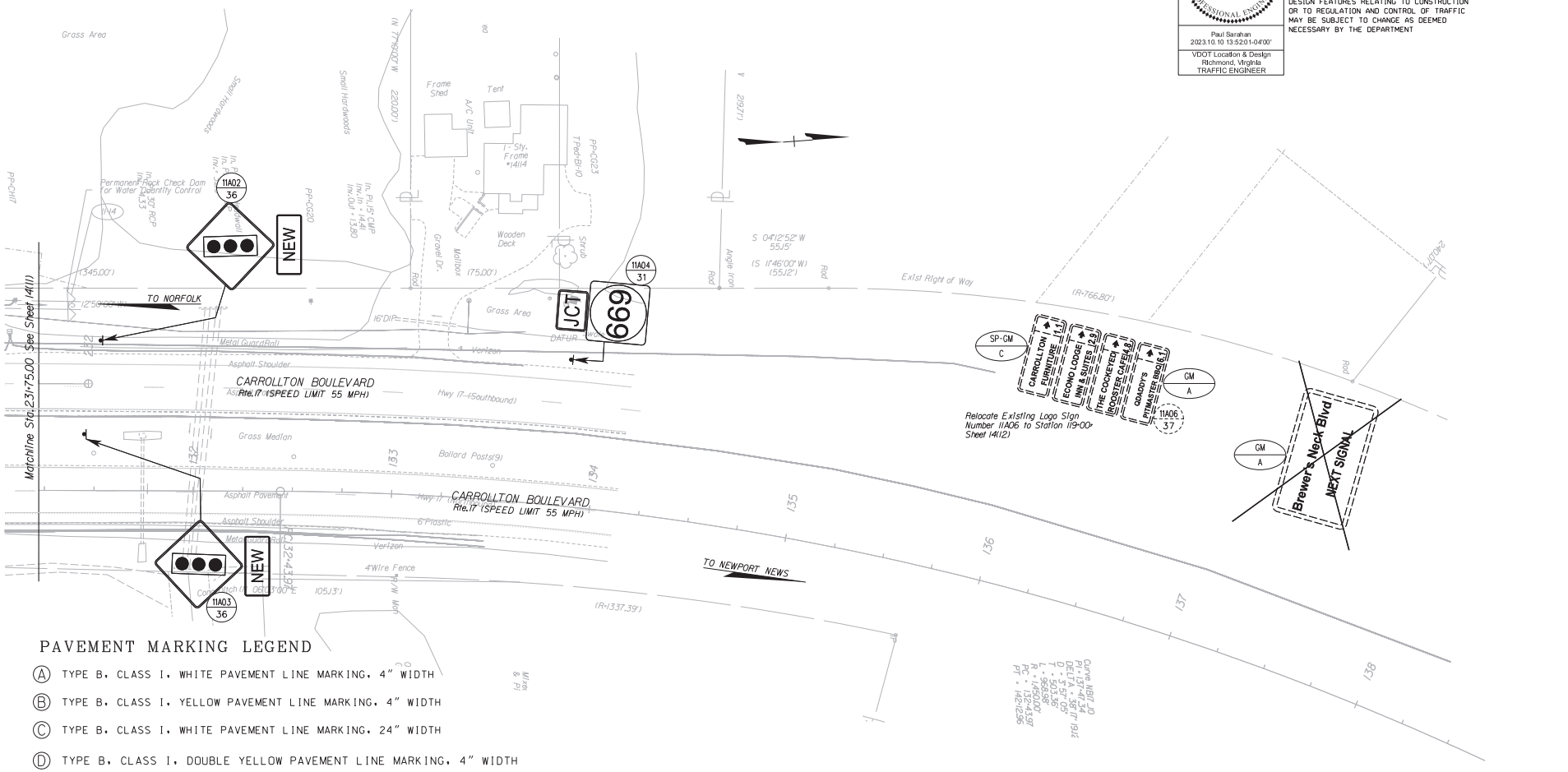
COMMONWEALTH OF VIRGINIA
PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER

Paul Sarahan
2023.10.10 13:52:01-04'00'

VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(11)A

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



PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)
- (F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II
- (G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH
- (J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)
- (K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)

SCALE
0 25' 50'

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)
Roadway Plan Sheet 11

TRAFFIC CONTROL DEVICE PLANS
SIGNING & PAVEMENT MARKINGS PLAN
ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(11)A

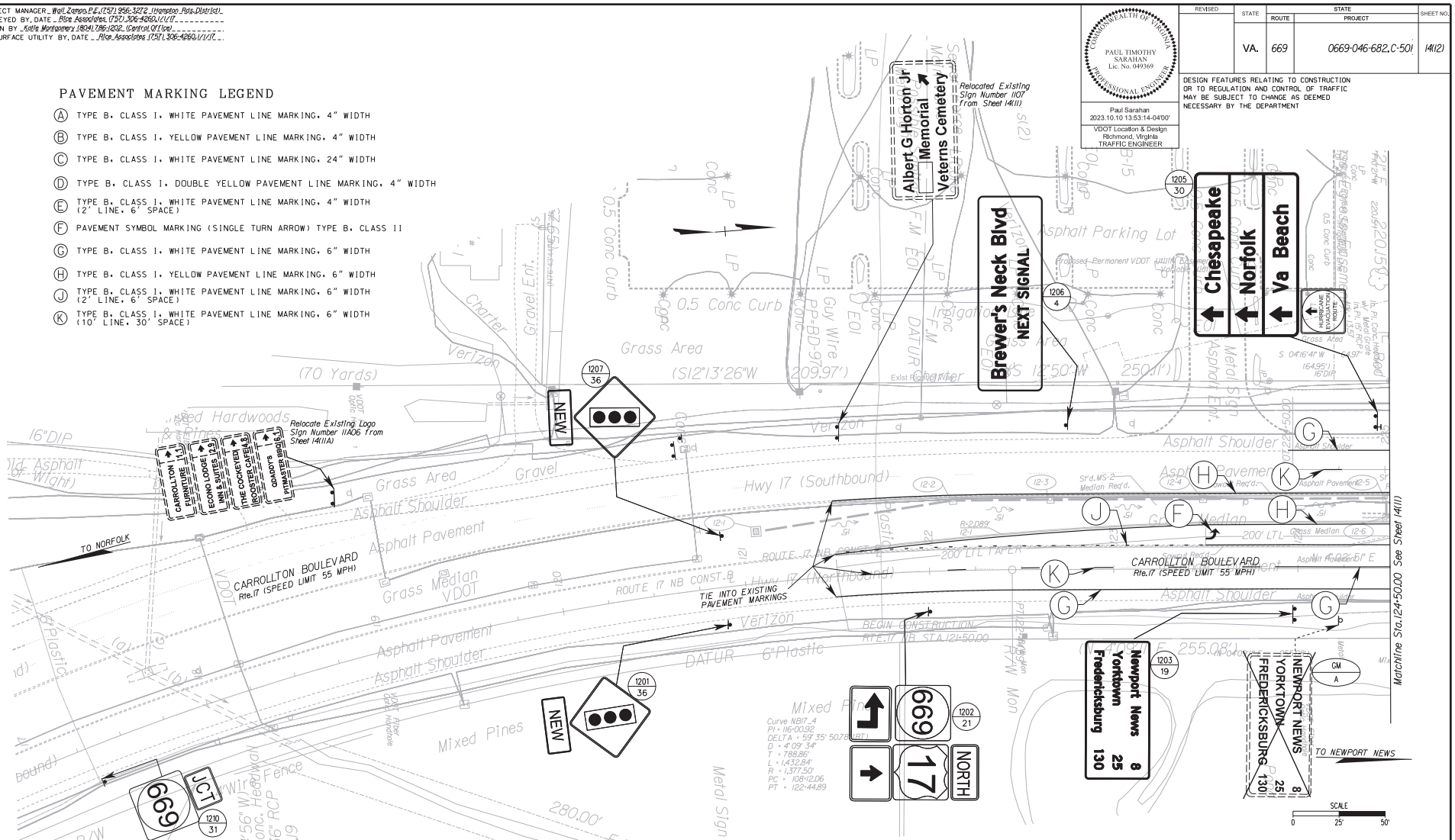
9/26/2023
2:16:02 PM

1109314141212.dgn
Plotted By: K.Montgomery

PROJECT MANAGER _ Walt Zamjo, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY, DATE _ Rice Associates (757) 306-4260, 1/1/17
DESIGN BY _ Katie Montgomery (804) 786-1202 (Central Office)
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260, 1/1/17

PAVEMENT MARKING LEGEND

- (A) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH
- (B) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (C) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 24" WIDTH
- (D) TYPE B, CLASS I, DOUBLE YELLOW PAVEMENT LINE MARKING, 4" WIDTH
- (E) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 4" WIDTH (2' LINE, 6' SPACE)
- (F) PAVEMENT SYMBOL MARKING (SINGLE TURN ARROW) TYPE B, CLASS II
- (G) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH
- (H) TYPE B, CLASS I, YELLOW PAVEMENT LINE MARKING, 6" WIDTH
- (J) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (2' LINE, 6' SPACE)
- (K) TYPE B, CLASS I, WHITE PAVEMENT LINE MARKING, 6" WIDTH (10' LINE, 30' SPACE)



PAUL TIMOTHY SARAHAN
Lic. No. 049369
PROFESSIONAL ENGINEER
COMMONWEALTH OF VIRGINIA

Paul Sarahan
2023.10.10 13:53:14-04'00'
VDOT Location & Design
Richmond, Virginia
TRAFFIC ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	14(12)

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

VDOT
LOCATION AND DESIGN DIVISION
TRAFFIC ENGINEERING
1401 EAST BROAD STREET
RICHMOND, VA 23219

REFERENCES
(PLAN AND DETAIL SHEETS)

Roadway Plan Sheet	12
Traffic Signal Plan Sheet	13(3A)

TRAFFIC CONTROL DEVICE PLANS

SIGNING & PAVEMENT MARKINGS PLAN

ISLE OF WIGHT COUNTY

PROJECT	SHEET NO.
0669-046-682	14(12)

10/31/2023
2:41:36 PM

d1093141511.dgn
Plotted By:vdotpwiilcs01#

PROJECT MANAGER _Wail Zamon, P.E.,(757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates..(757) 306-4260,1/1/17_ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E.,(804) 786-5975 (Central Office)_ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates. (757) 306-4260,1/1/17 _ _

NOTE:
1. SILT TIGHT JOINTS REQ'D.

DRAINAGE DESCRIPTIONS

4-1
I STD.CURB CUT REQ'D.
PG-5,W=3',D = 0.5', 2d SIDE SLOPES,L=9.7'
SEE SHEET 2F(3) FOR CURB CUT DETAIL

4-2
I STD.CURB CUT REQ'D.
PG-5,W=5',D = 0.5', 2d SIDE SLOPES,L=7.0'

SEE SHEET 2F(3) FOR CURB CUT DETAIL
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

4-3
I STD.CURB CUT REQ'D.
PG-5,W=3',D = 0.5', 2d SIDE SLOPES,L=8.4'
PG-5 INV.(OUT) XX.XX
SEE SHEET 2F(3) FOR CURB CUT DETAIL
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

4-4
I SPECIAL DESIGN TRENCH DRAIN REQ'D.
SEE SHEET 2F(2) FOR TRENCH DRAIN DETAIL

4-5
I SPECIAL DESIGN TRENCH DRAIN REQ'D.
SEE SHEET 2F(2) FOR TRENCH DRAIN DETAIL

4-6
SEE SHEET 2F(3) FOR CHECK DAM DETAIL
PERMANENT ROCK CHECK DAM
4" PVC ORIFICE,WITH 1 EW-12,INV.18.40
TOP ELEV.19.90
13.7 TONS OF DRY RIP RAP CLASS I
1.7 TONS OF #57 STONE

6b-1
(2) 31'-18" PIPE REQ'D.(2' COVER)
INV.(IN) 13.50 INV.(OUT) 13.10
STD.EC-1.4 REQ'D

6-1
I STD.CURB CUT REQ'D.
PG-5,W=8',D = 0.5', 2d SIDE SLOPES,L=8.3'

SEE SHEET 2F(3) FOR CURB CUT DETAIL
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

6-2
I STD.DI-3C REQ'D.
L=6', H=3.7' INV.16.60
LESS THAN MINIMUM DEPTH

6-2 — 6-3
6'-15" STORM SEWER PIPE REQ'D.(2' COVER)
INV.(IN) 16.60 INV.(OUT) 16.30

6-3
I STD.ES-1 OR 2 (15") REQ'D.
INV.16.30
I LEVEL SPREADER REQ'D.
ORIENT LEVEL SPREADER PERPENDICULAR TO PIPE
FLOW AS SHOWN ON PLAN SHEET
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

6-4
(2) 88'- 24" PIPE REQ'D.(2' COVER)
INV.(IN) 13.50 INV.(OUT) 12.92
2 STD.EW-6S (24") REQ'D.
13 TONS STD.EC-1 CLASS AI REQ'D.TYPE B INSTALLATION
EXCAVATE 18" BELOW BOTTOM OF CULVERT AND BACKFILL
WITH BEDDING AGGREGATE MATERIAL
29 CY MINOR STRUCTURE EXCAVATION
57 TONS BEDDING MATERIAL NO.57 STONE

6-5
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

6-6
I STD.DI-3B REQ'D.
L=6', H=3.4' INV.17.27
LESS THAN MINIMUM DEPTH

6-6 — 6-7
7'-15" STORM SEWER PIPE REQ'D.(1' COVER)
INV.(IN) 17.27 INV.(OUT) 17.00

6-7
I STD.ES-1 OR 2 (15") REQ'D.
INV.17.00
2 TONS STD.EC-1 CLASS AI REQ'D.TYPE A INSTALLATION

6-8
I STD.DI-3C REQ'D.
L=6', H=4.9' INV.15.33

6-8 — 6-9
22'-15" STORM SEWER PIPE REQ'D.(4' COVER)
INV.(IN) 15.33 INV.(OUT) 14.23

6-9
I STD.ES-1 OR 2 (15") REQ'D.
INV.14.23
2 TONS STD.EC-1 CLASS AI REQ'D.TYPE A INSTALLATION

6-10
I STD.DI-3B REQ'D.
L=6', H=2.8' INV.17.91
LESS THAN MINIMUM DEPTH

6-10 — 6-6
27'-15" STORM SEWER PIPE REQ'D.(1' COVER)
INV.(IN) 17.91 INV.(OUT) 17.37

7-1
I STD.DI-3B REQ'D.
L=6', H=2.5' INV.20.32
LESS THAN MINIMUM DEPTH

7-1 — 7-2
4'-15" STORM SEWER PIPE REQ'D.(1' COVER)
INV.(IN) 20.32 INV.(OUT) 19.91

7-2
I STD.ES-1 OR 2 (15") REQ'D.
INV.19.91
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

7-3
I STD.DI-3B REQ'D.
L=6', H=2.5' INV.20.32
LESS THAN MINIMUM DEPTH

7-3 — 7-4
13'-15" STORM SEWER PIPE REQ'D.(1' COVER)
INV.(IN) 20.32 INV.(OUT) 20.28

7-4
I STD.ES-1 OR 2 (15") REQ'D.
INV.20.28
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

7-5
I STD.DI-3B REQ'D.
L=6', H=2.5' INV.21.30
LESS THAN MINIMUM DEPTH

7-5 — 7-6
17'-15" STORM SEWER PIPE REQ'D.(2' COVER)
INV.(IN) 21.30 INV.(OUT) 19.66

7-6
I STD.ES-1 OR 2 (15") REQ'D.
INV.19.66
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

8-1
I STD.CURB CUT REQ'D.
PG-5,W=3',D = 0.5', 2d SIDE SLOPES.L=10.2'

SEE SHEET 2F(3) FOR CURB CUT DETAIL
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

8-2
I STD.DI-3B REQ'D.
L=6', H=2.5' INV.19.33
LESS THAN MINIMUM DEPTH

8-2 — 8-3
14'-15" STORM SEWER PIPE REQ'D.(1' COVER)
INV.(IN) 19.33 INV.(OUT) 19.12

8-3
I STD.ES-1 OR 2 (15") REQ'D.
INV.19.12
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

8-4
I SPECIAL DESIGN TRENCH DRAIN REQ'D.
SEE SHEET 2F(2) FOR TRENCH DRAIN DETAIL
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

8-5
I SPECIAL DESIGN TRENCH DRAIN REQ'D.
SEE SHEET 2F(2) FOR TRENCH DRAIN DETAIL
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

8-6
I SPECIAL DESIGN TRENCH DRAIN REQ'D.
SEE SHEET 2F(2) FOR TRENCH DRAIN DETAIL
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

9-1
I STD.CURB CUT REQ'D.
PG-5,W=5',D=0.5',2d SIDE SLOPES.L=10.1'

SEE SHEET 2F(3) FOR CURB CUT DETAIL
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

9-2
I STD.DI-3B REQ'D.
L=6', H=2.5' INV.19.72
LESS THAN MINIMUM DEPTH

9-2 — 9-3
15'-15" STORM SEWER PIPE REQ'D.(1' COVER)
INV.(IN) 19.72 INV.(OUT) 19.22

9-3
I STD.ES-1 OR 2 (15") REQ'D.
INV.19.22
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

9-4
I STD.DI-3B REQ'D.
L=6', H=2.5' INV.20.65
LESS THAN MINIMUM DEPTH

9-4 — 9-5
15'-15" STORM SEWER PIPE REQ'D.(1' COVER)
INV.(IN) 20.65 INV.(OUT) 19.67

9-5
I STD.ES-1 OR 2 (15") REQ'D.
INV.19.67
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

10b-1
(2) 29'-15" PIPE REQ'D.(1' COVER)
INV.(IN) 16.50 INV.(OUT) 15.70
STD.EC-1.4 REQ'D

10-1
(2) 63'- 24" PIPE REQ'D.(2' COVER)
INV.(IN) 17.00 INV.(OUT) 15.40
2 STD.EW-6 (24") REQ'D.
8 TONS STD.EC-1 CLASS AI REQ'D.TYPE A INSTALLATION
EXCAVATE 18" BELOW BOTTOM OF CULVERT AND BACKFILL
WITH BEDDING AGGREGATE MATERIAL
20 CY MINOR STRUCTURE EXCAVATION
41 TONS BEDDING MATERIAL NO.57 STONE

10-2
I STD.CURB CUT REQ'D.
PG-5,W=7',D = 0.5', 2d SIDE SLOPES.L=6.9'

SEE SHEET 2F(3) FOR CURB CUT DETAIL
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

10-3
I STD.CURB CUT REQ'D.
PG-5,W=4',D = 0.5', 2d SIDE SLOPES.L=6.9'

SEE SHEET 2F(3) FOR CURB CUT DETAIL
I LEVEL SPREADER REQ'D.
SEE SHEET 2F(1) FOR LEVEL SPREADER DETAIL

10-4
I STD.CURB CUT REQ'D.
PG-5,W=4',D = 0.5', 2d SIDE SLOPES.L=5.8'
SEE SHEET 2F(3) FOR CURB CUT DETAIL
TRANSITION FROM PG-5 TO PG-2A
PG-2A,TYPE E, D=1', 2d SIDE SLOPES,
L=20' ELEV IN.18.43 ELEV OUT 14.97

10-5
85'- 15" PIPE REQ'D.(1' COVER)
INV.(IN) 14.97 INV.(OUT) 14.67
2 STD.ES-1 OR 2 (15") REQ'D.
2 TONS STD.EC-1 CLASS AI REQ'D.TYPE A INSTALLATION

10-6
I STD.CURB CUT REQ'D.
PG-5,W=5',D = 0.5', 2d SIDE SLOPES,L=10.4'
SEE SHEET 2F(3) FOR CURB CUT DETAIL

10-7
I STD.CURB CUT REQ'D.
PG-5,W=3',D = 0.5', 2d SIDE SLOPES,L=10.3'
SEE SHEET 2F(3) FOR CURB CUT DETAIL

11-1
I STD.DI-3A REQ'D.
H=6.3' INV.10.89
CONNECT UD-2 TO DI

11-1 — 11-2
31'-15" STORM SEWER PIPE REQ'D.(5' COVER)
INV.(IN) 10.89 INV.(OUT) 10.63

11-2
I STD.DI-4AA REQ'D.
H=9.1' INV.8.00
CONNECT UD-2 TO DI

11-2 — 11-3
5'-36" STORM SEWER PIPE REQ'D.(6' COVER)
INV.(IN) 8.00 INV.(OUT) 7.90

11-3
CONNECT TO EXISTING 15" PIPE
I STD.DI-4AA REQ'D.
H=10.1' INV.7.79

11-4
I STD.DI-3A REQ'D.
H=4.2' INV.13.00

11-3 — 11-13
80'-36" STORM SEWER PIPE REQ'D.(7' COVER)
INV.(IN) 7.79 INV.(OUT) 7.28

11-4 — 11-2
14'-15" STORM SEWER PIPE REQ'D.(3' COVER)
INV.(IN) 13.00 INV.(OUT) 12.00

11-5
I STD.DI-4C REQ'D.
L=10', H=7.8' INV.8.64
CONNECT UD-4 TO DI

EX-1
MODIFY TO ADD CURB AROUND 3 SIDES OF GRATE
SEE DETAIL FOR CG-2 EX-1 CROSS SECTION DETAIL ON SHEET 15(2)
MODIFY TO ACCEPT TO PROPOSED 30"AND 36" STORM SEWER PIPES
INV.(IN) = 8.86'

11-6
I STD.DI-3C REQ'D.
L=6', H=6.9' INV.9.69

11-6 — 11-5
59'-24" STORM SEWER PIPE REQ'D.(4' COVER)
INV.(IN) 9.69 INV.(OUT) 8.86

EX-1 — 11-5
CONNECT TO EXISTING DI
8'-30" STORM SEWER PIPE REQ'D.(4' COVER)
INV.(IN) 8.76 INV.(OUT) 8.64

11-5 — 11-2
37'-36" STORM SEWER PIPE REQ'D.(4' COVER)
INV.(IN) 8.64 INV.(OUT) 8.10

11-7
I STD.DI-3C REQ'D.
L=6', H=6.6' INV.10.40

11-7 — 11-6
61'- 24" STORM SEWER PIPE REQ'D.(5' COVER)
INV.(IN) 10.40 INV.(OUT) 9.79

11-8
I STD.DI-5 GRATE TYPE III REQ'D
STD.PG-2A,TYPE E COVER
H=3.4' INV.10.63

11-8 — 11-7
7'-18" STORM SEWER PIPE REQ'D.(4' COVER)
INV.(IN) 10.63 INV.(OUT) 10.50

11-9
I STD.DI-3B REQ'D.
L=6', H=2.5' INV.15.40
CONNECT UD-4 TO DI
LESS THAN MINIMUM HEIGHT

11-9 — 11-10
7'-15" STORM SEWER PIPE REQ'D.(1' COVER)
INV.(IN) 15.40 INV.(OUT) 15.35

11-10
I STD.ES-1 OR 2 (15") REQ'D.
INV.15.35
2 TONS STD.EC-1 CLASS AI REQ'D.TYPE A INSTALLATION

11-11
I STD.DI-3B REQ'D.
L=6', H=2.5' INV.13.37
LESS THAN MINIMUM HEIGHT
CONNECT UD-4 TO DI

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.31 12:03:16-04'00'

VDOT Location and Design
Richmond, Virginia
(Hydraulics)

REVISED	STATE	STATE			SHEET NO.
		ROUTE	PROJECT		
05/19/2023 10/23/2023	VA.	669	0669-046-682 RW-201,C-501		15(1)

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

PROJECT	SHEET NO.
0669-046-682	15(1)

PROJECT MANAGER _Wail Zamzam, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _ _ _ _ _ _ _ _
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _ _ _ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

DRAINAGE DESCRIPTIONS AND DITCH TYPICALS

COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

Shannon Kerrigan
2023.10.05 13:30:53-04'00'

VDOT Location and Design
Richmond, Virginia
(Hydraulics)

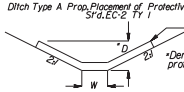
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 RW-201, C-501	15(2)

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

11-11	11-12	12'-15" STORM SEWER PIPE REQ'D.(1' COVER) INV.(IN) 13.37 INV.(OUT) 13.31
11-12		1 STD.ES-1 OR 2 (15") REQ'D. INV. 13.31 2 TONS STD.EC-1 CLASS A1 REQ'D. TYPE A INSTALLATION
11-13		1 STD.EW-1 (36") REQ'D. INV. 7.28 15 TONS STD.EC-1 CLASS 1 REQ'D. TYPE B INSTALLATION
12-1		1 STD.DI-5 REQ'D TYPE 1 GRATE REQ'D STD.PG-2A TYPE E COVER H=3.0' INV. 15.20
12-1	12-2	105'-15" STORM SEWER PIPE REQ'D.(3' COVER) INV.(IN) 15.20 INV.(OUT) 14.28
12-2		1 STD.DI-3A REQ'D. H=5.3' INV. 14.18 CONNECT UD-2 TO DI
12-2	12-3	50'-15" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 14.18 INV.(OUT) 13.45
12-3		1 STD.DI-3A REQ'D. H=5.7' INV. 13.35 CONNECT UD-2 TO DI
12-3	12-4	80'-15" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 13.35 INV.(OUT) 12.64
12-4		1 STD.DI-3A REQ'D. H=6.0' INV. 12.54 CONNECT UD-2 TO DI
12-4	12-5	97'-15" STORM SEWER PIPE REQ'D.(5' COVER) INV.(IN) 12.54 INV.(OUT) 11.56
12-5		1 STD.DI-3A REQ'D. H=6.2' INV. 11.46 CONNECT UD-2 TO DI
12-5	11-1	48'-15" STORM SEWER PIPE REQ'D.(4' COVER) INV.(IN) 11.46 INV.(OUT) 10.99
12-6		1 STD.DI-3A REQ'D. H=3.7' INV. 15.00 LESS THAN MINIMUM DEPTH
12-6	12-5	8'-15" STORM SEWER PIPE REQ'D.(2' COVER) INV.(IN) 15.00 INV.(OUT) 14.50
EX-1		MODIFY TO ACCEPT PROPOSED 24" STORM SEWER PIPE 14' - STD.CG-2 CURB AROUND INLET TOP SEE "CG-2 EX-1 CROSS SECTION DETAIL" ON THIS SHEET STD.IS-1 REQ'D.

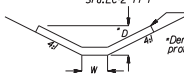
NOTE:
1. SILT TIGHT JOINTS REQ'D.

Ditch Type A Prop. Placement of Protective Covering Std. EC-2 TY I



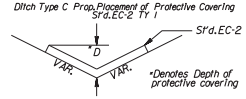
Location	Station	to	Station	W	*D	Width of EC-covering	Ditch Invert at Sta 17+25	Ditch Invert at Sta 116+73
Nike Park Rd LT & Reynolds Dr RT	17+25		116+73	3.00	1.00	7	20.23	18.79
Nike Park Rd RT & Reynolds Dr RT	17+55		115+00	1.00	1.00	9	N/A	N/A

Ditch Type B Prop. Placement of Protective Covering Std. EC-2 TY I



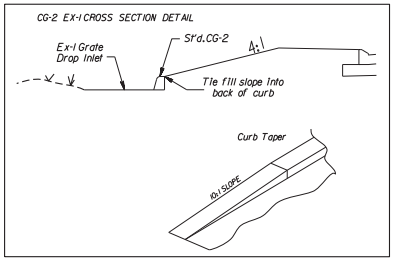
Location	Station	to	Station	W	*D	Width of EC-covering
Reynolds Dr RT	115+00		111+30	1.00	1.00	9

Ditch Type C Prop. Placement of Protective Covering Std. EC-2 TY I



Location	Station	to	Station	*D	Type	Width of EC-covering
Reynolds Dr RT	111+30		111+05	1.25	EC-2 TY I	9
Nike Park Rd LT	30+50		29+97	1.00	EC-2 TY I	5
Nike Park Rd LT	57+25		58+92	1.00	EC-2 TY I	4
Entrance Road RT & Nike Park Rd LT	3+25		60+00	1.00	EC-2 TY I	6
Nike Park Rd LT	60+00		62+18	2.50	EC-2 TY I	10
Route 17 SB LT & Nike Park Rd LT	227+38		62+18	1.00	EC-2 TY I	6
Route 17 SB LT	227+38		231+13	1.00	EC-2 TY I	6

CG-2 EX-1 CROSS SECTION DETAIL



ALLOWABLE TYPE OF STORM SEWER PIPE (UNLESS OTHERWISE SHOWN ON PLANS)
(SEE ROAD AND BRIDGE STANDARD PC-1 FOR HEIGHT OF COVER LIMITATIONS FOR EACH TYPE)

LOCATION	CONCRETE	ALUMINUM COATED TYPE 2 STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL SPIRAL RIB	POLYMER COATED (10/10) CORRUGATED STEEL DOUBLE WALL (SMOOTH INTERIOR)	ALUMINUM SPIRAL RIB	POLYVINYLCHLORIDE (PVC) RIBBED PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE S	POLYPROPYLENE (PP) TYPE D OR S
*NIKE PARK ROAD	✓			✓		✓	✓	✓
*RTE 17	✓			✓		✓	✓	✓

ALLOWABLE TYPE OF PIPE CULVERT (UNLESS OTHERWISE SHOWN ON PLANS)
(SEE ROAD AND BRIDGE STANDARD PC-1 FOR HEIGHT OF COVER LIMITATIONS FOR EACH TYPE)

LOCATION	CONCRETE	ALUMINUM COATED TYPE 2 CORRUGATED STEEL	POLYMER COATED (10/10) CORRUGATED STEEL	UNCOATED GALVANIZED CORRUGATED STEEL	GALVANIZED STEEL STRUCTURAL PLATE	GALVANIZED STEEL STRUCTURAL PLATE WITH CONCRETE INVERT	CORRUGATED ALUMINUM ALLOY	CORRUGATED ALUMINUM ALLOY STRUCTURAL PLATE	POLYVINYLCHLORIDE (PVC) RIBBED PIPE (SMOOTH INTERIOR)	POLYETHYLENE (PE) CORRUGATED TYPE C	POLYETHYLENE (PE) CORRUGATED TYPE S	POLYPROPYLENE (PP) TYPE D OR S
*ENTRANCES	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
*NIKE PARK ROAD	✓		✓				✓	✓	✓	✓	✓	✓
*RTE 17	✓		✓				✓	✓	✓	✓	✓	✓
*REYNOLDS DRIVE	✓		✓				✓	✓	✓	✓	✓	✓

*FOR CORRUGATED STEEL OR ALUMINUM ALLOY, 12 GAUGE AND 3" X 1" CORRUGATIONS MIN REQUIRED.

PROJECT	SHEET NO.
0669-046-682	15(2)

9/29/2023
4:50:33 PM

d109314611.dgn
Plotted By: vdotpwiilcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _____
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _____
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

STORM SEWER PROFILES

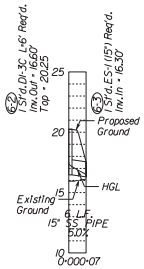
COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

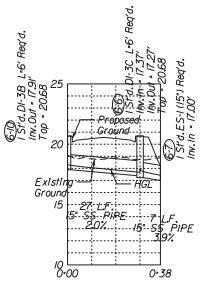
Shannon Kerrigan
2023.10.05 13:31:55-04'00'

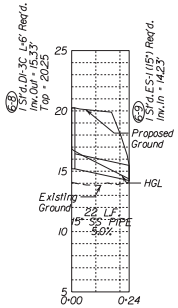
VDOT Location and Design
Richmond, Virginia
(Hydraulics)

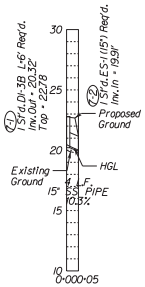
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	16(1)

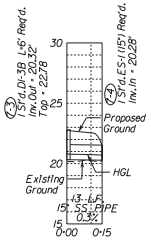
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT

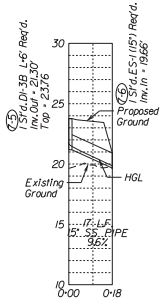


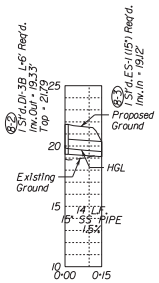


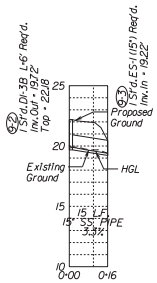


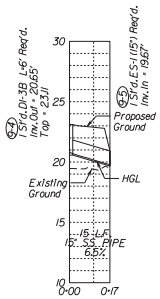


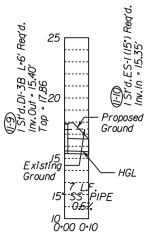


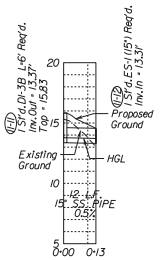












Notes:

1) SS Pipe denotes Storm Sewer Pipe.

2) Storm Sewer Pipes shown on the profile are represented by their inner diameter dimension, and do not include wall thicknesses.

3) In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor in accordance with the requirements of the specification and VTM 123 on all storm sewer pipe and a selected number of pipe culverts.

SCALE HORIZONTAL 0 25' 50'

SCALE VERTICAL 0 5' 10'

PROJECT	SHEET NO.
0669-046-682	16(1)

9/29/2023
4:50:45 PM

d1093146(2).dgn
Plotted By: vdotpwiltcs01#

PROJECT MANAGER _Wail Zaman, P.E. (757) 956-3272 (Hampton Rds. District)_
SURVEYED BY, DATE _Rice Associates (757) 306-4260 1/1/17_ _____
DESIGN BY _Jason Henry, P.E. (804) 786-5975 (Central Office)_ _____
SUBSURFACE UTILITY BY, DATE _ Rice Associates (757) 306-4260 1/1/17 _ _

STORM SEWER PROFILES

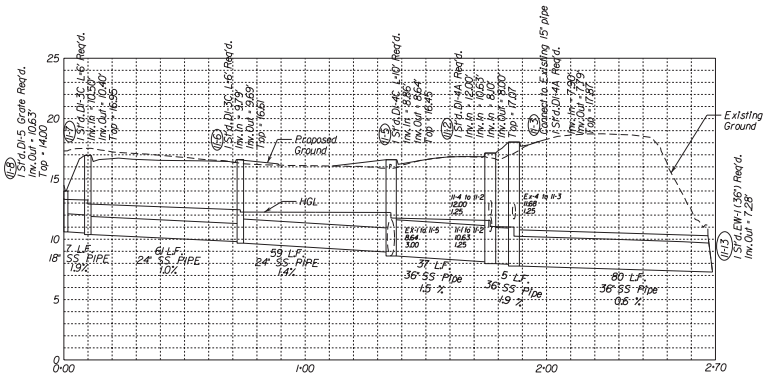
COMMONWEALTH OF VIRGINIA
SHANNON R KERRIGAN
Lic. No. 057932
PROFESSIONAL ENGINEER

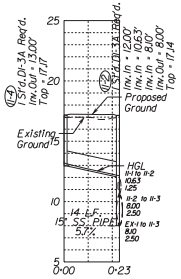
Shannon Kerrigan
2023.10.05 13:33:06-04'00'

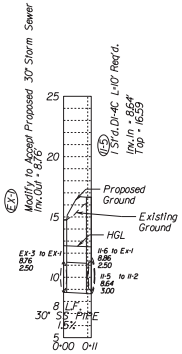
VDOT Location and Design
Richmond, Virginia
(Hydraulics)

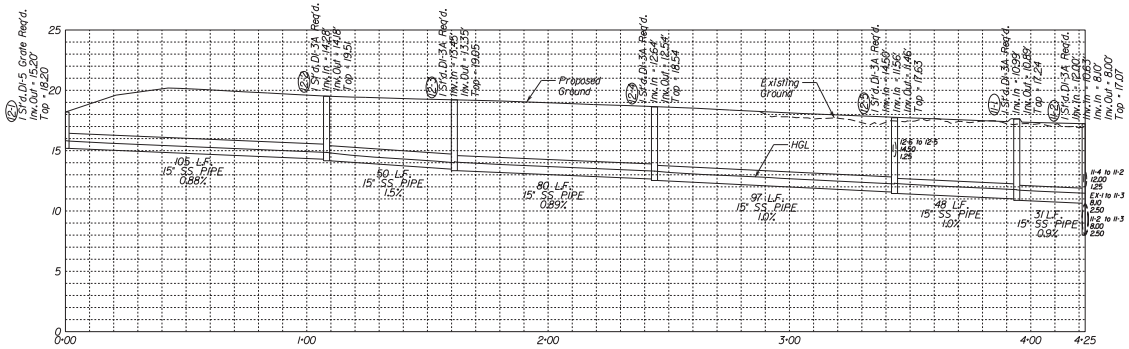
REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 C-501	16(2)

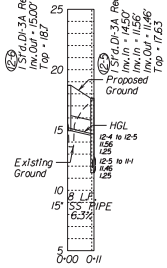
DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT











Notes:

1) SS Pipe denotes Storm Sewer Pipe.

2) Storm Sewer Pipes shown on the profile are represented by their inner diameter dimension, and do not include wall thicknesses.

3) In addition to the visual inspection performed by the Department during the initial installation of storm sewer pipes and pipe culverts, a post installation visual/video camera inspection shall be conducted by the Contractor in accordance with the requirements of the specification and VTM 123 on all storm sewer pipe and a selected number of pipe culverts.

SCALE HORIZONTAL 0 25' 50'

SCALE VERTICAL 0 5' 10'

PROJECT	SHEET NO.
0669-046-682	16(2)

PROJECT MANAGER Walt Zamco, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY Rice Associates (757) 306-4260 (Virginia Beach)
DESIGN SUPERVISED BY Victoria Bolos, P.E. (804) 225-3831 (Central Office)
DESIGNED BY Michael Baker Intl. (757) 463-8770

JEREMY M. DOW
Lic. No. 047192
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Jeremy M Dow
2023.09.26 11:30:42 -04'00'

Michael Baker Intl.
Virginia Beach, Virginia
UTILITY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 PE-101, RW-201, C-501	17(I)

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

SUMMARY OF WATER FACILITIES

SHEET NO.	6" DI WATER MAIN	16" DI WATER MAIN	16" BEND	16" BRANCH	6" GATE VALVE & BOX	FLOWABLE BACKFILL	3/4" WATER SERVICE LINE	5/8" WATER METER & BOX	FIRE HYDRANT
	LF [1]	LF [1]	EA [1]	EA [1]	EA [7]	CY [3]	LF [5]	EA [6]	EA [4]
11	8	641	8	1	1	36	5	1	1
12	--	--	--	--	--	--	--	--	--
TOTALS	8	641	8	1	1	36	5	1	1

SUMMARY OF SEWER FACILITIES

SHEET NO.	16" SANITARY SEWER FORCE MAIN	16" BEND FORCE MAIN
	LF [2]	EA [2]
11	624	6
12	--	--
TOTALS	624	6

INDEX OF SHEETS

PROJECT: 0669-046-682, PE-101, RW-201, C-501

SHEET NO. 17(1)	SUMMARY SHEET
SHEET NO. 17(2)	GENERAL NOTES/ MATERIAL NOTES
SHEET NO. 17(2A)	MATERIAL NOTES
SHEET NO. 17(2B)	SEQUENCE OF CONSTRUCTION
SHEET NO. 17(11)	PLAN SHEET 11
SHEET NO. 17(12)	PLAN SHEET 12
SHEET NO. 17(13)	WATER AND SEWER PROFILES
SHEET NO. 17(14)	WATER PROFILES
SHEET NO. 17(15)	DETAILS
SHEET NO. 17(16)	DETAILS

PROJECT MANAGER Walt Zamon, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY Rice Associates (757) 306-4260 (Civil)
DESIGN SUPERVISED BY Victoria Bates, P.E. (804) 225-3831 (Central Office)
DESIGNED BY Michael Baker Intl. (757) 463-8770

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 PE-101, RW-201, C-501	17 (2)

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

COMMONWEALTH OF VIRGINIA
JEREMY M. DOW
Lic. No. 047192
PROFESSIONAL ENGINEER

Jeremy M Dow
2023.09.26 11:31:33 -04'00'

Michael Baker Intl.
Virginia Beach, Virginia
UTILITY ENGINEER

GENERAL NOTES

1. LOCATION, DEPTHS AND SIZES OF EXISTING UTILITIES SHOWN ON THE UTILITY ADJUSTMENT PLANS ARE NOT GUARANTEED. THE CONTRACTOR SHALL FIELD VERIFY WITH TEST HOLES THE LOCATION, ELEVATION, MATERIALS, ROUNDNESS AND SIZE OF ALL EXISTING UNDERGROUND UTILITIES AND POINTS OF CONNECTION PRIOR TO EXCAVATION, ORDERING OF MATERIALS AND INSTALLATION FOR THIS PROJECT.

2. NO VALVES OR OTHER CONTROL DEVICES ON THE EXISTING WATER SYSTEM SHALL BE OPERATED FOR ANY PURPOSE BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY OPERATIONS MANAGER AT ISLE OF WIGHT COUNTY DEPARTMENT OF PUBLIC WORKS AT 757-365-6319, 48 HOURS PRIOR TO ANY TIE-INS TO THE EXISTING SYSTEM, TO OPERATE ALL WATER MAIN VALVES AND TO TRANSFER SERVICES FROM EXISTING MAINS TO PROPOSED MAINS.

3. THE CONTRACTOR SHALL NOT PERFORM ANY GRADING OPERATIONS OVER EXISTING WATER AND SEWER FACILITIES WITHIN THE PROJECT WHICH WOULD IN ANY WAY JEOPARDIZE SERVICES UNTIL THE PROPOSED WATER FACILITIES ARE INSTALLED AND PLACED INTO OPERATION AND EXISTING WATER AND SEWER FACILITIES ARE ABANDONED. ANY DEVIATION MUST BE APPROVED BY THE ENGINEER.

4. EXISTING MAINS AND WATER SERVICES SHALL REMAIN IN SERVICE UNTIL NEW MAINS AND SERVICES ARE PLACED IN SERVICE AND APPROVED BY THE ENGINEER.

5. ALL EXISTING VALVE BOXES, WATER METER AND BOXES, FIRE HYDRANTS, SANITARY SEWER MANHOLES, AIR RELEASES AND CLEANOUTS SHALL BE RELOCATED AND/OR ADJUSTED TO FINISH GRADE AS REQUIRED, REGARDLESS IF THEY ARE SHOWN ON THE PLANS.

6. THE CONTRACTOR, WITH HIS ASSOCIATED MATERIAL SUPPLIERS, SHALL PROVIDE CERTIFICATION ACCEPTABLE TO THE ENGINEER, THAT ALL PIPE MATERIALS SUPPLIED ON THE PROJECT MEET OR EXCEED THE SPECIFICATIONS.

7. THE CONTRACTOR SHALL RECORD AND PROVIDE TO THE ENGINEER ACTUAL GROUND AND TOP OF PIPE ELEVATIONS, ACTUAL STATIONS AND OFFSETS, AT ALL FITTINGS, CONNECTION POINTS AND HORIZONTAL DEVIATIONS GREATER THAN 2 FEET FROM THE PLANS. STATION REFERENCES SHALL BE TIED TO CONSTRUCTION CENTER LINE FOR THE ROADWAY IMPROVEMENTS. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER WITHIN FIVE (5) DAYS OF COMPLETION OF THE UTILITY ADJUSTMENTS.

8. THE CONTRACTOR SHALL CONTACT "VA 811" (TEL. 811 OR 1-800-552-7001) PRIOR TO PERFORMING ANY EXCAVATION.

9. EACH UTILITY PLAN SHEET HAS A BASE SHEET NUMBER WITH A SUFFIX NUMBER IN PARENTHESES (EXAMPLE XX(3), XX(4), ETC.) REFERENCES WITHIN UTILITY RELOCATION ADJUSTMENT PLANS REFER TO THE SUFFIX NUMBER ONLY.

10. NOTES ON PLAN SHEETS CONTAINED WITHIN A BOX REFER TO PAY ITEMS INDICATED IN SUMMARIES. NOTES ON PLAN SHEETS NOT WITHIN A BOX ARE TO CLARIFY CONSTRUCTION REQUIRED AND SHALL BE INCLUDED IN THE UNIT PRICE FOR THE ASSOCIATED PAY ITEM.

    ALL ITEMS OF MATERIAL, LABOR, SUPPLIES, OR EQUIPMENT THAT ARE NOT SPECIFICALLY ENUMERATED FOR PAYMENT AS SEPARATE ITEMS, BUT WHICH ARE REASONABLY REQUIRED TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS, ARE CONSIDERED SUBSIDIARY OBLIGATIONS OF THE CONTRACTOR. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THEM.

11. THE CONTRACTOR SHALL GIVE A TWO (2) WEEK NOTICE IN WRITING TO THE ENGINEER AND ISLE OF WIGHT COUNTY DEPARTMENT OF PUBLIC WORKS PRIOR TO THE START OF WORK AND PRIOR TO EACH SERVICE LINE CONNECTION TO THE EXISTING FACILITIES OWNED BY ISLE OF WIGHT COUNTY DEPARTMENT OF PUBLIC WORKS.

12. SUBMIT SHOP DRAWINGS OF THE FOLOWING, IN ADDITION TO SUBMITTALS REQUIRED BY OTHER SECTIONS OF THE CONTRACT DOCUMENTS. ANY ITEMS INSTALLED PRIOR TO APPROVAL OF SHOP DRAWINGS ARE DONE AT THE CONTRACTOR'S RISK AND MAY BE SUBJECT TO REMOVAL AND CORRECT INSTALLATION AT THE CONTRACTOR'S EXPENSE.

    SUBMITTALS:

    THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE FOLLOWING, IN ADDITION TO SUBMITTALS REQUIRED BY OTHER SECTIONS OF THE CONTRACT DOCUMENTS:

    PIPE
    GATE VALVES AND BOXES
    FITTINGS
    WATER METER AND BOX
    WATER SERVICE LINES
    SHUT DOWN SCHEDULE
    CORPORATION STOPS
    SEQUENCE OF CONSTRUCTION
    RESTRAINED JOINTS
    RETAINER GLANDS
    FIRE HYDRANT
    METHOD OF JOINT RESTRAINT
    SERVICE SADDLES

    AFTER ALL SUBMITTALS ARE APPROVED, THE CONTRACTOR SHALL SCHEDULE A PRECONTRUCTION MEETING WITH THE ENGINEER AND ISLE OF WIGHT COUNTY.

13. FORCE MAIN AND WATER MAIN TESTING

    THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF TESTING. TESTS SHALL BE MADE ON ALL SECTIONS OF PIPE THROUGHOUT THE ENTIRE PROJECT AND SHALL BE CONDUCTED ONLY IN THE PRESENCE OF THE COUNTY OR ITS AUTHORIZED AGENT. TESTS SHALL BE MADE AFTER THE CORPORATION STOPS HAVE BEEN INSTALLED. TESTS SHALL BE MADE BETWEEN ADJACENT VALVES.

    CARE SHALL BE TAKEN TO INSURE THAT THE ENTIRE TEST RUN OF PIPE IS SECURELY BRACED AND BLOCKED AGAINST THRUST WHEN PRESSURE IS APPLIED. ALL THRUST RESTRAINT MUST BE COMPLETELY SET AND APPROVED. ALL PIPE MUST BE FIRMLY SUPPORTED AND WEIGHTED DOWN BY PARTIAL BACKFILL SOIL ON TOP.

    ALL WATER FOR TESTING PURPOSES SHALL BE POTABLE WATER AND PROCURED AND PAID FOR BY THE CONTRACTOR. PRIOR TO TESTING, THE PIPE SHALL BE FILLED SLOWLY AND CAREFULLY WITH WATER FROM THE NEAREST PRACTICAL SOURCE, OR BY OTHER APPROVED METHODS. UNDER NORMAL ATMOSPHERIC PRESSURE THE PIPE SHALL BE ALLOWED TO SOAK FOR A MINIMUM PERIOD OF 24 HOURS. ALL ENTRAPPED AIR SHALL BE EXPELLED. THE CONTRACTOR SHALL PROVIDE ALL THE APPARATUS OR OTHER ACCESSORIES NECESSARY TO CONDUCT THE TESTS.

    THE COMPLETED PIPING SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE OF 150 PSIG WITH ZERO PRESSURE DROP. THIS PRESSURE SHALL BE MAINTAINED FOR TWO HOURS. LEAKAGE SHALL NOT EXCEED THE AMOUNT GIVEN BY TABLE 6 AWWA C600-93.

    ALL PIPE, JOINTS, VALVES AND FITTINGS IN THE TEST SECTION SHALL BE EXAMINED. DEFECTIVE MATERIAL DISCLOSED AS A CONSEQUENCE OF THE TESTS SHALL BE REMOVED AND REPLACED BY SOUND MATERIAL AT THE CONTRACTOR'S EXPENSE. ANY JOINT SHOWING VISIBLE LEAKAGE SHALL BE MADE AIRTIGHT. THE TEST SHALL BE REPEATED UNTIL ITS RESULTS ARE SATISFACTORY TO THE ENGINEER.

14. WATER MAIN DISINFECTION

    DURING THE COURSE OF THE WORK, ALL REASONABLE PRECAUTIONS SHALL BE TAKEN TO PROTECT THE PIPE INTERIORS, FITTINGS AND VALVES AGAINST CONTAMINATION. WHEN PIPE LAYING IS NOT IN PROGRESS ALL OPENINGS IN THE PIPE LINE SHALL BE CLOSED BY WATERTIGHT PLUGS.

    THE WATER MAIN SHALL BE CLOSED AND FLUSHED PRIOR TO DISINFECTION WITH A SUFFICIENT FLOW TO PRODUCE A FLUSHING VELOCITY OF AT LEAST 2.5 FEET PER SECOND. FINISHED WATER SHALL BE FLUSHED THROUGH THE SYSTEM UNTIL NO TRACES OF FOREIGN MATTER ARE VISIBLE. THIS WATER SHALL BE DISCHARGED OR WASTED ONLY AT POINTS SPECIFICALLY DESIGNATED BY THE DEPARTMENT.

    THE NEW PIPE LINE SHALL BE DISINFECTED BY CHLORINATION IN ACCORDANCE WITH AWWA SPECIFICATION C651-92. THE DISINFECTION AGENT OF THE CHLORINE SOLUTION SHALL BE SODIUM HYPOCHLORITE SOLUTION, GRADE D, CONFORMING TO FEDERAL SPECIFICATION O-S-602B, DRY HYPOCHLORITE EQUAL TO "HTH" AS MANUFACTURED BY OLIN CHEMICAL CO., OR LIQUID CHLORINE. LIQUID CHLORINE SHALL BE USED ONLY WHEN SUITABLE EQUIPMENT IS AVAILABLE AND ONLY UNDER THE DIRECT SUPERVISION OF A PROPERLY TRAINED AND EQUIPPED SPECIALIST APPROVED BY THE DEPARTMENT.

    THE CHLORINE SOLUTION AT ANY POINT IN THE LINE, SHALL HAVE A MINIMUM CONCENTRATION OF 50 PARTS PER MILLION (PPM) OR 50 MILLIGRAMS PER LITER (MG/L) AND SHALL BE APPLIED TO THE SYSTEM AT A CONSTANT, MEASURED RATE BY PUMPING IN ACCORDANCE WITH THE CONTINUOUS FEED METHOD, AWWA SPECIFICATION C651-92, SUB-SECTION 5.2. FINISHED WATER FROM AN APPROVED SOURCE SHALL BE MADE TO FLOW AT A CONSTANT, MEASURED RATE INTO THE NEW PIPELINE. THE TWO RATES SHALL BE PROPERLY PROPORTIONED SO THAT THE CHLORINE CONCENTRATION IN THE PIPELINE IS MAINTAINED AT A MINIMUM OF 50 PPM AVAILABLE CHLORINE. TO INSURE THAT THIS CONCENTRATION IS MAINTAINED, THE CHLORINE RESIDUAL SHALL BE MEASURED AT REGULAR INTERVALS IN ACCORDANCE WITH PROCEDURES DESCRIBED IN THE CURRENT EDITION OF STANDARD METHODS AD AWWA SPECIFICATION M12.

    CHLORINE APPLICATION SHALL NOT CEASE UNTIL THE ENTIRE MAIN IS COMPLETELY FILLED WITH SOLUTION. THE CHLORINATED WATER SHALL BE RETAINED IN THE SYSTEM FOR AT LEAST 24 HOURS, DURING WHICH TIME ALL VALVES AND HYDRANTS SHALL BE OPERATED IN ORDER TO DISINFECT THE APPURTENANCES. AT THE END OF THE 24 HOUR PERIOD, THE PIPELINE WATER SHALL CONTAIN NOT LESS THAN 25 PARTS PER MILION CHLORINE THROUGHOUT THE ENTIRE PIPELINE. AFTER THE SPECIFIED RETENTION PERIOD, THE CHLORINATED WATER SHALL BE FLUSHED FROM THE MAIN UNTIL THE RESIDUAL CHLORINE CONCENTRATION IS NO HIGHER THAN THAT PREVAILING IN THE EXISTING SYSTEM OR LESS THAN .20 PARTS PER MILLION.

    BEFORE THE WATER MAIN IS PLACED IN SERVICE, NOT LESS THAN TWO CONSECUTIVE, NEGATIVE SAMPLES TAKEN 24 HOURS APART, FROM EACH 2,000 FEET OF NEW LINE ARE REQUIRED. NO HOSE OR FIRE HYDRANT SHALL BE USED IN THE COLLECTION OF SAMPLES. THE SAMPLES SHALL BE FORWARDED TO A QUALIFIED LABORATORY CURRENTLY CERTIFIED BY THE VIRGINIA DEPARTMENT OF GENERAL SERVICES FOR BACTERIAL EXAMINATION. IF THIS EXAMINATION INDICATES THE PRESENCE OF COLIFORM ORGANISMS, THE ENTIRE DISINFECTION PROCESS SHALL BE REPEATED OR CONTINUED UNTIL THE EXAMINATION INDICATES THE ABSENCE OF SUCH POLLUTION. STANDARD PLATE COUNTS MAY BE REQUIRED ON RETEST.

    PIPE, TAPS AND FITTINGS USED AT CONNECTIONS TO THE EXISTING SYSTEM SHALL BE THOROUGHLY DISINFECTED BEFORE INSTALLATION. EXCAVATION FOR SUCH CONNECTIONS SHALL BE KEPT FREE FROM WATER UNTIL THE CONNECTION IS COMPLETED, AND EXTREME CARE SHALL BE EXERCISED TO PREVENT CONTAMINATION OF THE PIPE AND CONNECTION FITTINGS. THE INSIDE OF THE EXISTING PIPE WITHIN 3 FEET OF THE POINT OF CONNECTION SHALL BE DISINFECTED BY SPRAYING WITH A SOLUTION CONTAINING NOT LESS THAN 200 PPM OF CHLORINE IMMEDIATELY BEFORE CONNECTION IS MADE. IF AT ANY TIME THE WATER IN THE EXISTING PIPING BECOMES CONTAMINATED, THIS PIPING SHALL BE DISINFECTED AS SPECIFIED FOR NEW PIPING, BACK TO THE NEAREST GATE VALVE OR VALVES, OR BEYOND THOSE POINTS AS NECESSARY TO INCLUDE ALL CONTAMINATED PIPING.

    THE COMPLETE DISINFECTION PROCESS AND METHODS FOLLOWED, ESPECIALLY IF MATERIALLY DIFFERENT FROM THOSE SPECIFIED, SHALL BE IN ACCORDANCE WITH THE DIRECTIVES OF THE VIRGINIA DEPARTMENT OF HEALTH, AND ALL METHODS EMPLOYED SHALL MEET WITH THIS APPROVAL. FINAL APPROVAL OF THE BACTERIAL EXAMINATION SHALL BE RECEIVED FROM THE VIRGINIA DEPARTMENT OF HEALTH PRIOR TO PLACING THE NEW PIPELINE INTO OPERATION.

MATERIAL NOTES

ALL MATERIALS REQUIRED TO COMPLETE THE CONSTRUCTION OF THE WATER AND SEWER FACILITIES, AS SPECIFIED IN THE PLANS, SHALL BE IN ACCORDANCE WITH "BUY AMERICA", WHICH REQUIRES ALL STEEL, IRON, AND MANUFACTURED PRODUCTS TO BE PRODUCED IN THE UNITED STATES.

1. DUCTILE IRON WATER MAIN OR OFFSETS OF EXISTING MAINS SHALL BE CLASS 50 (MINIMUM). FOR BURIAL DEPTHS EXCEEDING THOSE ALLOWED BY THE CLASS, PIPE AND FITTINGS OF SUFFICIENT WALL THICKNESS SHALL BE PROVIDED. DUCTILE IRON FITTINGS SHALL CONFORM WITH ANSI/AWWA A21.10-93 (AWWA SPECIFICATION C110-93) OR ANSI SPECIFICATION A21.53-88 (AWWA SPECIFICATION C153-88).

A. DUCTILE IRON PIPE SHALL BE MANUFACTURED BY:
    1. US PIPE
    2. AMERICAN DUCTILE IRON PIPE
    3. MCWANE DUCTILE

B. JOINTS: USE PUSH-ON OR MECHANICAL JOINTS CONFORMING WITH ALL APPLICABLE PROVISIONS OF ANSI SPECIFICATION A21.11-90, OR RESTRAINED JOINT AS SPECIFIED IN PARAGRAPH F BELOW.

C. DEFLECTION: ALLOWABLE DEFLECTION SHALL BE 80 PERCENT OF THE MAXIMUM ALLOWED DEFLECTION ALLOWED BY ANSI/AWWA C600. MECHANICAL JOINTS WILL BE PROHIBITED IN AREAS WHERE PIPE IS DEFLECTED.

D. EXTERIOR COATING OF ALL DUCTILE IRON PIPE, JOINTS AND FITTINGS SHALL BE PROVIDED AS REQUIRED BY ANSI/AWWA, C110, C111, C115, C151, OR C153, AS APPLICABLE. ALL PIPES, JOINTS AND FITTINGS SHALL BE EXAMINED AFTER LAYING TO DETERMINE IF THE COATING HAS BEEN DAMAGED DURING INSTALLATION. ANY DAMAGE AREAS AND ALL JOINTS SHALL BE COATED WITH APPROXIMATELY 1 MIL. OF A BITUMINOUS COATING, SUCH AS KOP-COAT BITUMASTIC NO. 50 OR INTERTOL NO. 49.

E. INTERIOR LINING FOR WATER MAINS SHALL BE CEMENT MORTAR LINED IN ACCORDANCE WITH ANSI/AWWA C104, STANDARD THICKNESS INCLUDING ASPHALTIC SEAL.

F. PIPE RESTRAINING LENGTH SHALL BE IN ACCORDANCE WITH THE PROFILES.

    1. MECHANICAL JOINTS SHALL BE MANUFACTURED BY:
        a. EBAA IRON, INC. (MEGALUG SERIES 1100)
        b. ROMAC INDUSTRIES, (ROMA GRIP)
        c. FORD (SERIES 1300)

PROJECT	SHEET NO.
0669-046-682	17 (2)

PROJECT MANAGER Walt Zamon, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY Rice Associates (757) 306-4260 LAND
DESIGN SUPERVISED BY Victoria Bates, P.E. (804) 225-3831 (Central Office)
DESIGNED BY Michael Baker Intl (757) 463-8770

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 PE-101, RW-201, C-501	17(2A)

COMMONWEALTH OF VIRGINIA
JEREMY M. DOW
Lic. No. 047192
PROFESSIONAL ENGINEER

Jeremy M Dow
2023.09.26 11:37:22 -04'00'

Michael Baker Intl
Virginia Beach, Virginia
UTILITY ENGINEER

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

MATERIAL NOTES CONT'D

G. FITTINGS: FITTINGS FOR DUCTILE IRON PIPE SHALL BE MECHANICAL JOINT IN ACCORDANCE WITH AWWA C110/C153, WITH A MINIMUM PRESSURE RATING OF 350 PSI. ALL FITTINGS SHALL BE RESTRAINED WITH MEGALUG TYPE RESTRAINT. ALL NUTS AND BOLTS FOR FITTINGS AND RESTRAINTS SHALL BE BLUE FLUOROPOLYMER COATED.

1. DUCTILE IRON FITTINGS SHALL BE MANUFACTURED BY:
   a. TYLER UNION
   b. STAR PIPE PRODUCTS
   c. OR APPROVED EQUAL

H. BENDS AND FITTINGS ARE SHOWN ON THE PLANS FOR DESIGN PURPOSES ONLY. IF ADDITIONAL BENDS (LESS THAN 16 INCHES) ARE REQUIRED, THE PRICE FOR THESE BENDS SHALL BE CONSIDERED INCIDENTAL TO THE ASSOCIATED WATER MAIN PAY ITEM.

I. BEDDING AND BACKFILL: IN ACCORDANCE WITH VDOT STANDARD PB-1, TYPE 2, EXCEPT 8-INCH MINIMUM BEDDING BENEATH THE PIPE SHALL BE REQUIRED.

J. RESTRAINT OF EXISTING WATER MAINS AT AND NEAR CONNECTION POINTS SHALL BE REQUIRED AS INDICATED ON THE PROFILES:

THE U.L. LISTED RETAINER GLAND AS MANUFACTURED BY EBAA IRON, INC., SERIES 1100HD OR 1100 SD AS APPLICABLE.

K. ALL PIPE AND FITTINGS SHALL BE WRAPPED WITH 8 MIL LOW DENSITY POLYETHYLENE ENCASEMENT, WHICH SHALL BE IN ACCORDANCE WITH AWWA C105.

L. 10-GAUGE SOLID TRACER WIRE SHALL BE INSTALLED WITH PROPOSED WATER MAIN AND ATTACHED WITH PLASTIC STRAPPING EVERY 10 FEET.

M. SUBSURFACE UTILITY TAPE SHALL BE INSTALLED 6" TO 12" BELOW GRADE ABOVE ALL WATER MAIN PIPING. TAPE SHALL BE OF A DURABLE, METALIZED, PLASTIC FILM FOR WATER AND FORCE MAINS. BRIGHT BLUE TAPE IMPRINTED WITH THE LEGEND "CAUTION-WATERLINE BELOW". THE UTILITY WARNING TAPE SHALL BE MANUFACTURED BY GRIFFOLYN CO.

2. HDPE PIPE SHALL BE IN ACCORDANCE WITH AWWA C906-15 AND SHALL HAVE A NOMINAL DIPS (DUCTILE IRON PIPE SIZE) OUTSIDE DIAMETER UNLESS OTHERWISE SPECIFIED. THE NOMINAL SIZE, PRESSURE CLASSIFICATION RATING, AND SDR OF THE PIPE SHALL MATCH THAT OF THE EXISTING HDPE PIPE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ODS AND TOLERANCES FOR IPS OUTSIDE DIAMETER PIPE SHALL BE IN ACCORDANCE WITH ANSI B36.10 AS ILLUSTRATED IN AWWA C906-15 TABLE 3.

PIPE SHALL BE HOMOGENEOUS AND UNIFORM THROUGHOUT; SHALL BE FREE OF INJURIOUS DEFECTS SUCH AS VISIBLE CRACKS, HOLES, FOREIGN INCLUSIONS, VOIDS, AND BLISTERS; AND SHALL HAVE UNIFORM COLOR AND PHYSICAL PROPERTIES ACCORDING TO THE PROVISIONS OF AWWA C906-15.

A. HDPE PIPE & FITTINGS SHALL BE MANUFACTURED BY:
   1. PERFORMANCE PIPE DIVISION - CHEVRON PHILLIPS CHEMICAL COMPANY
   2. POLYPIPE, INC.
   3. J.M. EAGLE

B. JOINTS: PIPE SECTIONS SHALL BE JOINED ON THE JOB SITE ABOVE GROUND INTO CONTINUOUS LENGTHS BY THE THERMAL BUTT-FUSION OR ELECTROFUSION METHOD, WHICH SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE BUTT-FUSION EQUIPMENT USED IN THE JOINING PROCEDURES SHALL BE CAPABLE OF MEETING ALL CONDITIONS RECOMMENDED BY THE PIPE MANUFACTURER, INCLUDING, BUT NOT LIMITED TO, TEMPERATURE REQUIREMENTS OF 400 °F, ALIGNMENT, AND 75 PSI INTERFACIAL FUSION PRESSURE. BUTT-FUSION JOINING SHALL BE 100% EFFICIENT AND SHALL PROVIDE A JOINT WELD STRENGTH EQUAL TO OR GREATER THAN THE TENSILE STRENGTH OF THE PIPE. SOCKET-FUSION, EXTRUSION WELDING OR HOT GAS WELDING OF HDPE SHALL NOT BE USED FOR PRESSURE PIPE APPLICATIONS. FLANGES, UNIONS, GROOVED-COUPLERS, TRANSITION FITTINGS, AND SOME MECHANICAL COUPLERS MAY BE USED TO MECHANICALLY CONNECT HDPE PIPE WITHOUT BUTT-FUSION, IF SPECIFIED IN THE CONTRACT DOCUMENTS AND APPROVED BY THE MANUFACTURER.

C. COMMERCIAL VIRGIN PE COMPOUNDS SHALL MEET ASTM D3350 PHYSICAL PROPERTY REQUIREMENTS AND SHALL BE CLASSIFIED PER ASTM D3350 AS SHOWN IN TABLE 1 OF AWWA C906-15. THE COMPOUND SHALL HAVE HDB (HYDROSTATIC DESIGN BASIS) RATINGS AT 73°F (23°C) AND AT 140°F (60°C) AND HDS (HYDROSTATIC DESIGN STRESS) RATINGS AT 73°F (23°C) DETERMINED IN ACCORDANCE WITH ASTM D2837 AND PPI TR-3 (POLICIES AND PROCEDURES FOR DEVELOPING RECOMMENDED HYDROSTATIC DESIGN STRESS FOR THERMOPLASTIC PIPE MATERIALS).

THE PE COMPOUND IN THE PIPE SHALL CONTAIN COLOR AND ULTRAVIOLET (UV) STABILIZER MEETING THE REQUIREMENTS OF ASTM D3350 CODES C OR E. CODE C COMPOUNDS SHALL CONTAIN 2 TO 3 PERCENT CARBON BLACK WHEN MATERIAL FROM THE PIPE IS TESTED IN ACCORDANCE WITH SECTION 4.3.11 OF AWWA C906-15. CODE E COMPOUNDS USED FOR SOLID COLOR PIPE, COLOR STRIPES, OR COLOR LAYER (SHELL) SHALL CONTAIN SUFFICIENT UV STABILIZER TO PROTECT THE PIPE AGAINST UV DEGRADATION FOR AT LEAST 24 MONTHS OF UNPROTECTED OUTDOOR EXPOSURE. COLOR PE COMPOUNDS USED FOR STRIPES OR COLOR LAYERS SHALL BE OF THE SAME MATERIALS DESIGNATION CODES AS THE PIPE MATERIAL, VARYING ONLY BY COLOR AND UV STABILIZER.

D. FITTINGS: PE FITTINGS OR COMPONENTS MAY BE MOLDED, THERMOFORMED FROM PIPE SECTIONS OR FABRICATED. MOLDED FITTINGS SHALL MEET THE REQUIREMENTS OF AWWA C906-15 AND THE REQUIREMENTS OF ASTM D2683

E. FOR SOCKET-TYPE FITTINGS, OR ASTM D3261 FOR BUTT-TYPE FITTINGS, OR ASTM F1055 FOR ELECTROFUSION-TYPE FITTINGS, THERMOFORMED AND FABRICATED FITTINGS SHALL MEET THE REQUIREMENTS OF AWWA C906-15 AND ASTM F2206.

F. BEDDING AND BACKFILL: IN ACCORDANCE WITH VDOT STANDARD UB-1, TYPE 2, EXCEPT 8-INCH MINIMUM BEDDING BENEATH THE PIPE SHALL BE REQUIRED.

G. 10-GAUGE SOLID TRACER WIRE SHALL BE INSTALLED WITH PROPOSED FORCE MAIN AND ATTACHED WITH PLASTIC STRAPPING EVERY 10 FEET.

H. SUBSURFACE UTILITY TAPE SHALL BE IN ACCORDANCE WITH MATERIAL NOTE 1.M. BRIGHT GREEN TAPE IMPRINTED WITH THE LEGEND "CAUTION-SEWER BELOW" SHALL BE USED AS APPROPRIATE. THE UTILITY WARNING TAPE SHALL BE MANUFACTURED BY GRIFFOLYN CO.

3. FLOWABLE BACKFILL SHALL BE IN ACCORDANCE WITH THE VDOT FLOWABLE BACKFILL SPECIAL PROVISION. ALL WATER MAINS, SANITARY SEWER MAINS 4" IN DIAMETER AND LARGER WHICH ARE SHOWN ON THE PLANS TO BE ABANDONED SHALL BE PLUGGED AND FILLED WITH FLOWABLE BACKFILL.

4. FIRE HYDRANT:

A. FIRE HYDRANTS SHALL BE OF THE DRY-BARREL TYPE AND SHALL CONFORM TO AWWA C502. THE HYDRANT BASE SHALL HAVE A 6" MECHANICAL JOINT BELL, DESIGNED FOR CONNECTION TO A HORIZONTAL 6" DUCTILE IRON HYDRANT BRANCH WITH RETAINER GLANDS. THE TRAFFIC COUPLING SHALL ALLOW FOR 360-DEGREE ADJUSTMENT OF THE UPPER STANDPIPE. THE FIRE HYDRANT SHALL BE PAINTED WITH A HIGH GLOSS, ALKYD INDUSTRIAL ENAMEL (COLOR SHALL BE FACTORY PAINTED YELLOW). EXTENSION SPOOLS SHALL BE AVAILABLE FROM 6" TO AT LEAST 48", IN 6" INCREMENTS. NORMAL BURY DEPTH SHALL BE 3.5".

B. THE FLOW RATE SHALL BE A MINIMUM OF 1000 GALLONS PER MINUTE WITH NOT MORE 5 PSI PRESSURE DROP THROUGH THE STREAMER NOZZLE, PER AWWA C502. THE INTERNAL VALVE SHALL BE NO SMALLER THAN 4½" IN DIAMETER AND HAVE BRONZE-TO-BRONZE SEATING.

C. HYDRANTS SHALL INCLUDE TWO (2) 2½" HOSE NOZZLES PLACED 180 DEGREES APART; NATIONAL STANDARD (AMERICAN) FIRE HOSE COUPLING SCREW THREADS; AND ONE STREAMER NOZZLE WITH 4½" NATIONAL STANDARD (AMERICAN) FIRE HOSE COUPLING SCREW THREADS (UNLESS SPECIFIED OTHERWISE BY THE OWNER). FIRE HYDRANTS SHALL BE MANUFACTURED BY KENNEDY GUARDIAN K-81D

5. WATER SERVICE LINES

A. PIPE SHALL BE SEAMLESS COPPER TUBING CONFORMING TO ASTM B 88, TYPE K, TEMPER O60, AND SHALL BE OF THE COILED TYPE. FITTINGS SHALL BE WROUGHT COPPER SOLDER-JOINT PRESSURE FITTINGS CONFORMING TO ASTM B16 22. COPPER TUBE AND FITTINGS SHALL BE RATED FOR A WORKING PRESSURE OF 100 PSI. JOINTS SHALL BE COMPRESSION STYLE.

B. CORPORATION STOPS SHALL BE MANUFACTURED TO MEET OR EXCEED THE AWWA C-800 LATEST REVISION. THE VALVE SHALL BE OF THE BALL TYPE CONTRUCTION. A PLUG VALVE IS NOT APPROVED. THE CORPORATION STOPS SHALL BE DESIGNED TO WITHSTAND WORKING PRESSURES UP TO 300 PSI. THE CORPORATION STOPS SHALL BE MANUFRACTURED WITH AWWA/CC TAPERED THREADS. CORPORATION STOPS JOINING TO COPPER AND PLASTIC TUBING SHALL HAVE PACK JOINT COMPRESSION COUPLINGS. CORPORATION STOPS JOINING TO EXISTING GALVANIZED PIPING SHALL HAVE FEMALE IRON PIPE THREADS. CORPORATION STOP SHALL BE MANUFACTURED BY:

   1. THE FORD METER BOX CO., INC. MODEL FB 1000 FOR JOINING COPPER AND PLASTIC TUBING. FOR JOINING TO GALVANIZED PIPING USE MODEL FB 1600.
   2. A.Y. MCDONALD MFG., CO. MODEL 4701B-22 FOR JOINING COPPER AND PLASTIC TUBING. FOR JOINING TO GALVANIZED PIPING USE MODEL 3148B.
   3. OR APPROVED EQUAL

6. WATER METER BOXES

A. ALL SERVICES SHALL BE METERED FOR THE INDICATION OF WATER CONSUMPTION IN GALLONS. EACH REGISTER SHALL BE COMPLETELY ENCASED, HERMETICALLY SEALED, AND OF FROST-PROTECTIVE DESIGN. EACH METER SHALL HAVE AN ARROW ON IT TO INDICATE THE DIRECTION OF FLOW AND SHALL HAVE THE MANUFACTURER'S SERIAL NUMBER STAMPED ON THE REGISTER LID. THE METER SHALL BE A SENSUS (RADIO READ) WITH MXU BOX OR APPROVED EQUAL, AND SHALL CONFORM TO AWWA SPECIFICATION C700-90.

B. STANDARD BOXES OF APPROPRIATE SIZE, COMPLETE WITH COVERS AS MANUFACTURED BY TYLER INDUSTRIES OR APPROVED EQUAL SHALL BE FURNISHED AND INSTALLED AROUND ALL METERS. BOXES SHALL HAVE A PLASTIC BODY OUTSIDE OF PAVED AREAS AND A CAST-IRON BODY IN PAVEMENT. COVERS SHALL HAVE CAST-IRON READING LIDS. WATER METER BOXES SHALL BE IN ACCORDANCE WITH THE DETAIL ON SHEET 15.

7. GATE VALVE:

A. RESILIENT-SEATED GATE VALVES SHALL BE USED ON PIPELINES 3" IN DIAMETER UP TO AND INCLUDING 12" IN DIAMETER. RESILIENT SEATED GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA C509 OR AWWA C515 AND SHALL BE SUPPLIED WITH AN INTERIOR EPOXY COATING IN ACCORDANCE WITH AWWA C550. RESILIENT-SEATED GATE VALVES SHALL BE IRON BODY, NON-RISING BRONZE OR STAINLESS STEEL STEM, RUBBER ENCAPSULATED IRON DISC, O-RING SEALS, AND SUITABLE FOR BURIED SERVICE. VALVE ENDS SHALL BE FLANGED, MECHANICAL JOINT, OR MECHANICAL JOINT BY FLANGE TO SUIT THE PIPE OR FITTINGS AS INDICATED ON DETAIL ON SHEET 15. GATE VALVES SHALL BE MANUFACTURED BY KENNEDY VALVE COMPANY

B. VALVE OPERATORS:

BURIED VALVES SHALL HAVE A 2" SQUARE OPERATING NUT CONFORMING TO AWWA C509, AND SHALL OPEN IN A COUNTERCLOCKWISE DIRECTION, UNLESS OTHERWISE NOTED. A VALVE KEY WRENCH OF ADEQUATE LENGTH AND OF EACH TYPE REQUIRED SHALL BE PROVIDED FOR EACH BURIED VALVE ; HOWEVER' NOT MORE THAN THREE OF EACH TYPE ARE REQUIRED FOR EACH PROJECT. VALVE IN VAULTS SHALL HAVE A HAND WHEEL OF CAST IRON CONFORMING TO ASTM A126, CLASS B.

PROJECT	SHEET NO.
0669-046-682	17(2A)

PROJECT MANAGER Walt Zamco, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY Bloe Associates (757) 306-4260 (Civil)
DESIGN SUPERVISED BY Victoria Bolas, P.E. (804) 225-3831 (Central Office)
DESIGNED BY Michael Baker Intl (757) 463-8770

COMMONWEALTH OF VIRGINIA
JEREMY M. DOW
Lic. No. 047192
PROFESSIONAL ENGINEER

Jeremy M Dow
2023.09.26 11:38:42 -04'00'

Michael Baker Intl
Virginia Beach, Virginia
UTILITY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 PE-101, RW-201, C-501	17(2B)

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

GENERAL SEQUENCE OF CONSTRUCTION

EXECUTE THE FOLLOWING INSTALLATIONS IN THE SEQUENCE INDICATED. PROCEDURE FOR ACCOMPLISHING EACH INSTALLATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY. AN ALTERNATE SEQUENCE MAY BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. THE ENTIRE LENGTH OF MAIN LINE UTILITY ADJUSTMENTS SHALL BE CONSTRUCTED, TESTED, AND DISINFECTED AS REQUIRED BY SPECIFICATIONS PRIOR TO CONNECTION WITHOUT INTERRUPTION TO ANY EXISTING SERVICE. CONNECTION PIPING SHALL BE TESTED AND DISINFECTED AS REQUIRED BY THE SPECIFICATIONS.

LANE CLOSURES AND STOPPAGES OF TRAFFIC SHALL BE IN ACCORDANCE WITH MAINTENANCE OF TRAFFIC SHEET.

RESTRAINT OF ALL EXISTING PIPE SHALL BE PERFORMED TO THE EXTENT POSSIBLE PRIOR TO ANY OUTAGE OF UTILITY SERVICE.

OFFSETS AND OTHER ADJUSTMENTS SHALL BE PRE-FABRICATED TO THE EXTENT POSSIBLE PRIOR TO THE OUTAGE.

THE DEFINITION OF TERMS USED IN THE SEQUENCE OF CONSTRUCTION ARE AS FOLLOWS:

SHUTDOWN - SHUTDOWN OF ISLE OF WIGHT FACILITIES SHALL BE IN ACCORDANCE WITH THE GENERAL NOTES AND LIMITED TO THE DAYS AND HOURS INDICATED BELOW, EXCLUSIVE OF ISLE OF WIGHT HOLIDAYS. UNLESS INDICATED OTHERWISE, SHUTDOWNS SHALL BE PERMITTED WITHIN THE FOLLOWING SPECIFIED TIMEFRAMES.

WATER MAIN/SEWER FORCE MAIN: 7:00 A.M. TO 4:00 P.M. (MONDAY THROUGH FRIDAY). NO WATER SHALL BE SCHEDULED/ PERFORMED AFTER 4:00PM FRIDAY, ON SATURDAY, SUNDAY, OR ON HOLIDAYS. IT IS PREFERRED THAT WORK BE PERFORMED DURING NORMAL BUSINESS HOURS. HOWEVER, AVOIDING CUSTOMER SHUTDOWNS AND HIGH DEMAND PERIODS MAY REQUIRE OFF HOURS WORK.

INSTALL - ALL EFFORTS REQUIRED TO EXCAVATE, ASSEMBLE AND PLACE PIPE AND BACK FILL IN ACCORDANCE WITH PLANS AND SPECIFICATIONS. ALL INSTALLATIONS SHALL BE TESTED, CHLORINATED AND/OR DISINFECTED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS STATED ABOVE.

CONNECTIONS - PIPE ASSEMBLIES, SLEEVES, FITTINGS, VALVES, TEMPORARY AND/OR PERMANENT PLUGS AND COUPLINGS AS INDICATED ON THE PLANS OR AS REQUIRED TO ACHIEVE SEQUENCE OF CONSTRUCTION AT LOCATIONS WHERE PROPOSED WORK MEETS EXISTING FACILITIES.

ACTIVATE - UPON COMPLETION OF INSTALLATION, TESTING AND THE ENGINEER'S APPROVAL IN ACCORDANCE WITH PLANS AND SPECIFICATIONS, PLACE THE FACILITY INTO OPERATION.

SEQUENCE

A. TYPICAL SEQUENCE FOR RELOCATIONS.

1. RESTRAIN EXISTING PIPE AS REQUIRED.
2. INSTALL UTILITY AROUND FUTURE OBSTRUCTION LOCATION ADJACENT TO CONNECTION POINTS.
3. COMPLETE TESTING AS REQUIRED.
4. SHUT DOWN EXISTING UTILITY SERVICE.
5. REMOVE EXISTING UTILITY AS REQUIRED TO ACCOMMODATE CONNECTIONS. MAKE CONNECTIONS TO EXISTING UTILITY. ONE SHUT DOWN PERMITTED.
6. ACTIVATE EXISTING/NEW UTILITY.
7. ABANDON OR REMOVE EXISTING UTILITY, AS REQUIRED.

PROJECT	SHEET NO.
0669-046-682	17(2B)

THIS SHEET FOR UTILITY RELOCATION/ADJUSTMENT
FOR WATER & SEWER ONLY

PROJECT MANAGER Walt Zamon, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY Rice Associates (757) 306-4260 (Civil)
DESIGN SUPERVISED BY Victoria Bates, P.E. (804) 225-3831 (Central Office)
DESIGNED BY Michael Baker Intl. (757) 463-8770

NOTE:
REFER TO ROADWAY EROSION AND SEDIMENT CONTROL PLANS FOR UTILITY RELOCATION EROSION AND SEDIMENT CONTROL.

JEREMY M. DOW
Lic. No. 047192
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

Jeremy M Dow
2023.09.26 11:40:27 -04'00'

Michael Baker Intl.
Virginia Beach, Virginia
UTILITY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 PE-101, RW-201, C-501	17(11)

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

Matchline Sta. 61+00.00 See Sheet 17(10)

Matchline Sta. 124+50.00 See Sheet 17(12)

36 C.Y. FLOWABLE BACKFILL

CONNECT TO EXIST. 16" WATER MAIN

2-16" VERT. BEND (22 1/2 DEGREE)

2-16" BEND (45 DEGREE)

2-16" BEND (45 DEGREE)

5 L.F. 3/4" WATER SERVICE LINE
5/8" WATER METER & BOX

REMOVE EXIST. FIRE HYDRANT

16" BRANCH (16" X 6" TEE)

641 L.F. 16" DI WATER MAIN
SEE PROFILE SHEET 13

2-16" BEND (45 DEGREE)

CONNECT TO EXIST. 16" WATER MAIN

TO BE REMOVED

2-16" BEND FORCE MAIN (22 1/2 DEGREE)

CONNECT TO EXIST. 16" SANITARY SEWER FORCE MAIN

8 L.F. 6" DI WATER MAIN
6" GATE VALVE & BOX
FIRE HYDRANT
SEE PROFILE SHEET 14

TO BE ABANDONED

EXIST. 16" HDPE FORCE MAIN

CONNECT TO EXIST. 16" SANITARY SEWER FORCE MAIN

624 L.F. 16" HDPE SANITARY SEWER FORCE MAIN
SEE PROFILE SHEET 13

2-16" VERT. BEND FORCE MAIN (22 1/2 DEGREE)

2-16" BEND FORCE MAIN (45 DEGREE)

TO BE REMOVED

TO BE ABANDONED

END CONSTRUCTION / END PROJECT 0669-046-682 PE-101
RTE. 669 STA. 62+94.83

BEGIN CONSTRUCTION
RTE. 17SB STA. 225+50.00

END CONSTRUCTION
RTE. 17 NB STA. 126+61.56

ROUTE 17 SB CONST.℄

ROUTE 17 NB CONST.℄

END CONSTRUCTION
RTE. 17SB STA. 23+75

WAKIRK PROPERTIES
DB 325 PG 264
TAX PARCEL* 34-01-008A

DAN M. TURNAGE
Inst.* 080003385
PC. 2-187-4
2.930 AC.
TAX PARCEL* 34-01-008D

KARL T. STAUTY
LOREAN R. STAUTY
Inst.* 000000323
PLAT DB 277 PG 480
0.13 AC.
PARCEL* 34-01-072

KARL T. STAUTY
LOREAN R. STAUTY
Inst.* 050000794
PLAT DB 287 PG 884
40,000 SQ.FT
TAX PARCEL* 34-01-073

MARK CUNDIFF
Inst.* 200003599
DB 330
PG 621
0.300 AC.
PARCEL* 34-01-008B

ADEWAY, LLC

Verizon
Charter
CATV
FO Mortar
TV Ped
TFped-B6
Guy Wire
PP-CE05
PP-CE09
PP-CE10
PP-CE11
PP-CE12
PP-CE13
PP-CE14
PP-CE15
PP-CE16
PP-CE17
PP-CE18
PP-CE19
PP-CF13
PP-CF17
PP-CF42
PP-B35
PP-No#
TFped-B8
TFped-B24
TFped-No#
VDOT Fiber Optic Marker
4 Heat Pump
Elec. Pedestal
Water Meter
Water Valve
Fire Hydrant
Remove Existing Fence
Prop. Temp. Construction Easement
Prop. Permanent Slope and Drainage Easement
Prop. Permanent Slope and Drainage Easement Inst. # 080003385
Prop. Temp. Construction Easement Inst. # 080003385
Grass Area
Gravel
Asphalt Pavement
Asphalt Shoulder
Concrete Pavement
Concrete Curb
0.5 Conc Curb
Sawcut Red'd
Drainfield
6' Chain Link Fence
Wooden Fence
Metal GuardRail
Wood GuardRail
Mixed Hardwoods & Pines
Gravel Parking Lot
Conc. Ditch
Conc. Porch
Wetland
Commonwealth of Virginia Drainage Easement Inst. # 080003612 PG 82
Center Line
Existing Right of Way
Ex. R/W
Prop. R/W
Hwy 17 (Southbound)
Hwy 17 (Northbound)
Nike Park Rd
Baseline Sta 226+50.71
Baseline Sta 124+34.37
US 17 SB Baseline
Sta 126+61.56
Sta 124+50.00
Sta 122+00.00
Sta 119+50.00
Sta 117+00.00
Sta 114+50.00
Sta 112+00.00
Sta 109+50.00
Sta 107+00.00
Sta 104+50.00
Sta 102+00.00
Sta 99+50.00
Sta 97+00.00
Sta 94+50.00
Sta 92+00.00
Sta 89+50.00
Sta 87+00.00
Sta 84+50.00
Sta 82+00.00
Sta 79+50.00
Sta 77+00.00
Sta 74+50.00
Sta 72+00.00
Sta 69+50.00
Sta 67+00.00
Sta 64+50.00
Sta 62+00.00
Sta 59+50.00
Sta 57+00.00
Sta 54+50.00
Sta 52+00.00
Sta 49+50.00
Sta 47+00.00
Sta 44+50.00
Sta 42+00.00
Sta 39+50.00
Sta 37+00.00
Sta 34+50.00
Sta 32+00.00
Sta 29+50.00
Sta 27+00.00
Sta 24+50.00
Sta 22+00.00
Sta 19+50.00
Sta 17+00.00
Sta 14+50.00
Sta 12+00.00
Sta 9+50.00
Sta 7+00.00
Sta 4+50.00
Sta 2+00.00
Sta 0+00.00

LEGEND

	PROPOSED	EXISTING
MANHOLE		Ⓢ
CLEANOUT		▪
ABANDON	——//——	4"W (ABANDONED)
TO BE REMOVED	—×—×—	
PVC SANITARY SEWER		12"SAN.
WATER METER	●	⊕ W.M.
VALVE		• W.V.
FIRE HYDRANT	✖	▪
DI WATER MAIN	———	16"W
AIR RELEASE VALVE		⊕ ARV.
GAS MAIN		3"G
PVC/ DI SANITARY SEWER FORCE MAIN	———	10"SFM
UNKNOWN EXIST. UTILITY		——— UNK ———
UNDERGROUND TELEPHONE		T
PLUG OR CAP		E

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

C _____ Denotes Construction Limits in Cuts
F _____ Denotes Construction Limits in Fills

Denotes Demolition of Pavement
Denotes Mill and Overlay 2"
Denotes Proposed Pavement Full Depth
Denotes Proposed Shared Use Path

See Sheet 4 for Utility Owner Information

REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Route 669 Profile	11A
Route 17 SB Profile	11B
Route 17 NB Profile	11E
Drainage Descr.	15(1)-15(2)
Entrance Profiles	12D
E&S	11C-11D

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	17(11)

NO UTILITY WORK THIS SHEET
INCLUDED FOR INFORMATIONAL PURPOSES ONLY

PROJECT MANAGER Walt Zamco, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY Bice Associates (757) 306-4260 (Lic.)
DESIGN SUPERVISED BY Victoria Bains, P.E. (804) 225-3831 (Central Office)
DESIGNED BY Michael Baker Intl. (757) 463-8770

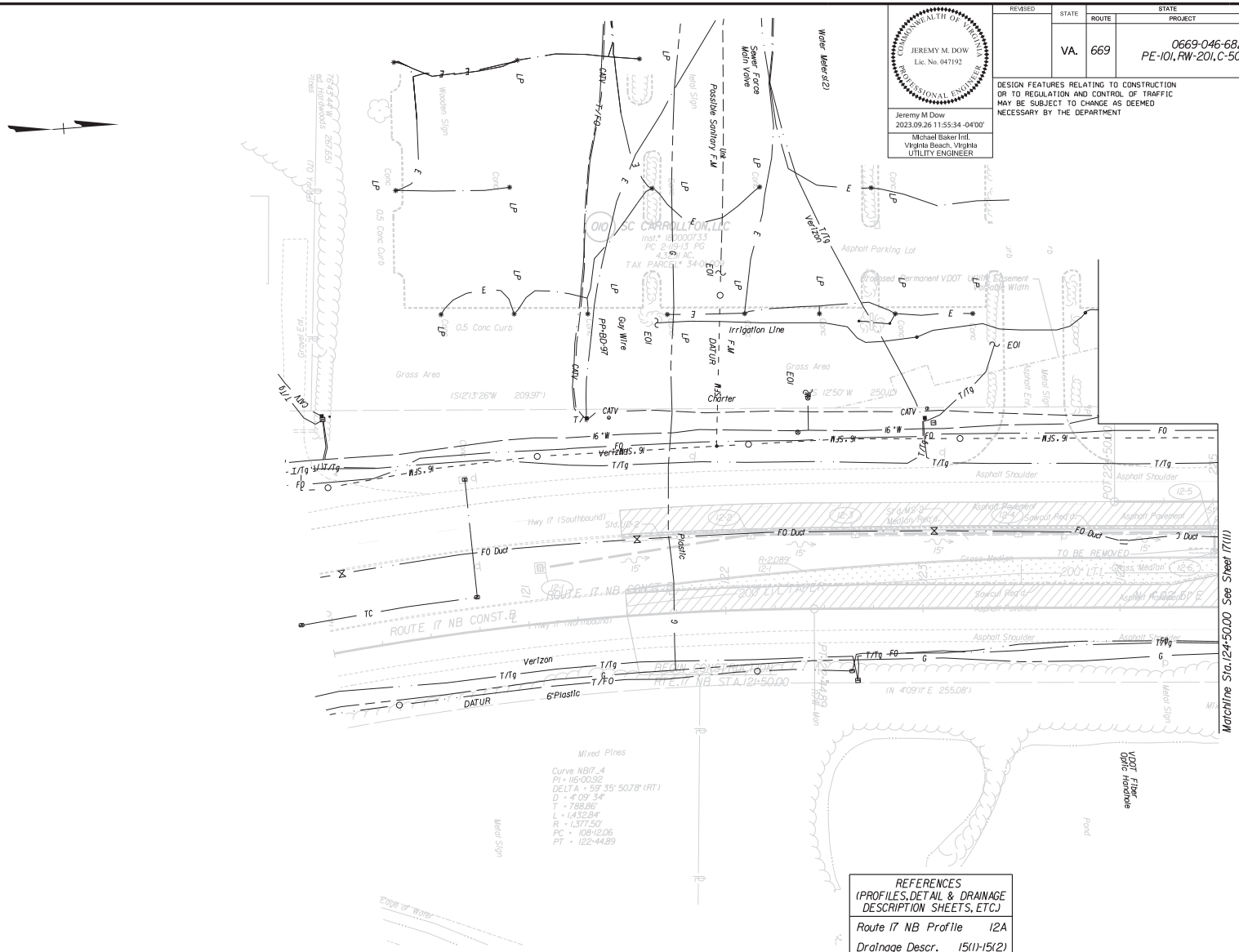
COMMONWEALTH OF VIRGINIA
JEREMY M. DOW
Lic. No. 047192
PROFESSIONAL ENGINEER

Jeremy M Dow
2023.09.26 11:55:34 -04'00'

Michael Baker Intl.
Virginia Beach, Virginia
UTILITY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 PE-101, RW-201, C-501	17(12)

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



REFERENCES (PROFILES, DETAIL & DRAINAGE DESCRIPTION SHEETS, ETC.)	
Route 17 NB Profile	12A
Drainage Descr.	15(1)-15(2)
Entrance Profiles	12D
E&S	12B-12C

Denotes Demolition of Pavement
Denotes Mill and Replace
Denotes Proposed Pavement Full Depth
Denotes Proposed Shared Use Path

See Sheet 4 for Utility Owner Information

Wetland

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

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

C_____ Denotes Construction Limits in Cuts

F_____ Denotes Construction Limits in Fills

SCALE	PROJECT	SHEET NO.
0 25' 50'	0669-046-682	17(12)

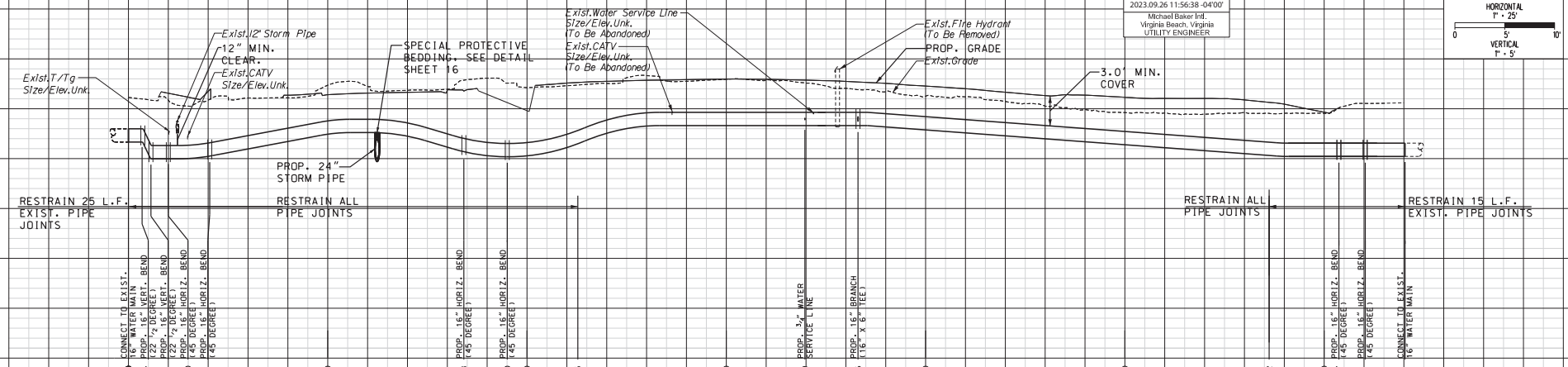
PROJECT MANAGER Wolf Zaman, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY Rice Associates (757) 306-4260 (VITP)
DESIGN SUPERVISED BY Victoria Bahs (804) 225-3831 (Central Office)
DESIGNED BY Michael Baker Int'l (757) 463-9770

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

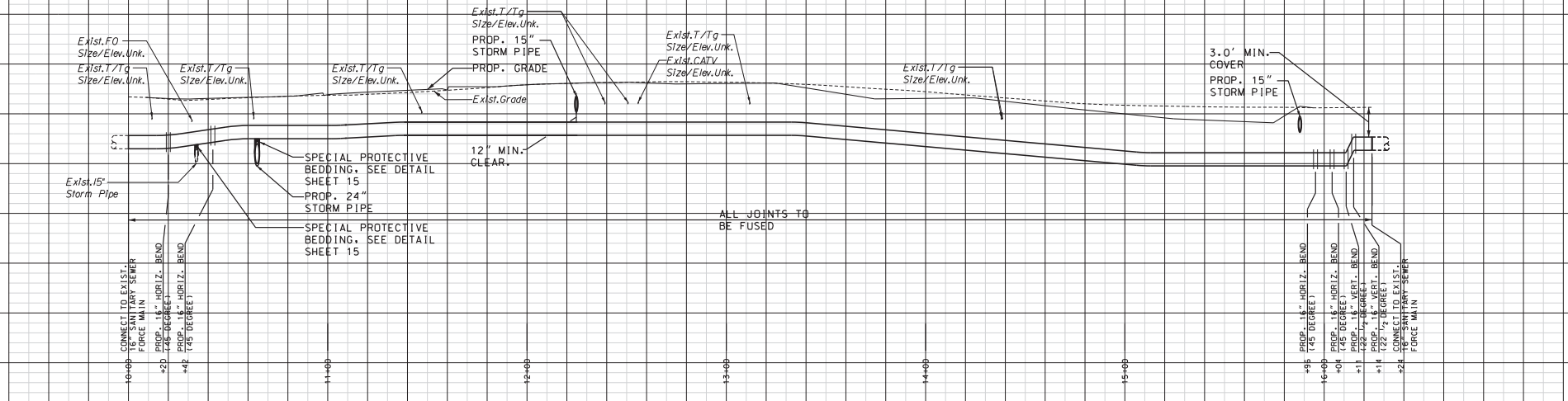
COMMONWEALTH OF VIRGINIA
JEREMY M. DOW
Lic. No. 047192
PROFESSIONAL ENGINEER
Jeremy M Dow
2023.09.26 11:56:38 -04'00'
Michael Baker Intl.
Virginia Beach, Virginia
UTILITY ENGINEER

REVISED	STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		669	0669-046-682, R201, C501	17(13)

GRAPHIC SCALE
0 25' 50'
HORIZONTAL 1" = 25'
0 5' 10'
VERTICAL 1" = 5'



16" DI WATER MAIN, PLAN SHEET 11
APPROX. STA. 225+20, 47' LT. CONST. ℄ ON RTE. 17 SOUTHBOUND TO
APPROX. STA. 231+44, 36' LT. CONST. ℄ ON RTE. 17 SOUTHBOUND



16" HDPE SANITARY SEWER FORCE MAIN, PLAN SHEET 11
APPROX. STA. 225+27, 32' LT. CONST. ℄ ON RTE. 17 SOUTHBOUND TO
APPROX. STA. 231+47, 21' LT. CONST. ℄ ON RTE. 17 SOUTHBOUND

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
	0069-046-682		17(13)

PROJECT MANAGER Wolf Zaman,P.E.(757)956-3272 (Hampton Rds.District)
SURVEYED BY Rice Associates (757) 306-4260,1/1/17
DESIGN SUPERVISED BY Victoria Bahs (804) 225-3831 (Central Office)
DESIGNED BY Michael Baker Intl (757) 463-9770

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

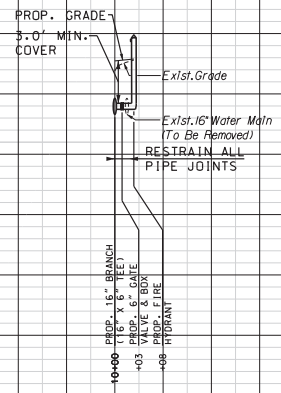
COMMONWEALTH OF VIRGINIA
JEREMY M. DOW
Lic. No. 047192
PROFESSIONAL ENGINEER

Jeremy M Dow
2023.09.26 11:57:32 -04'00'

Michael Baker Intl.
Virginia Beach, Virginia
UTILITY ENGINEER

REVISED	STATE	FEDERAL AID PROJECT	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.		669	0669-046-682, R201,C501	17(14)

GRAPHIC SCALE
0 25' 50'
HORIZONTAL
1" = 25'
0 5' 10'
VERTICAL
1" = 5'

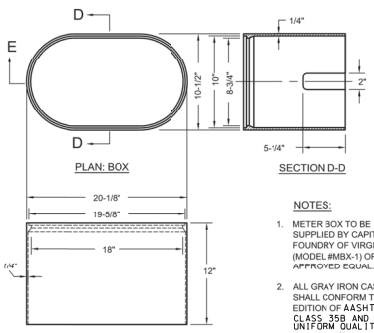


6" DI WATER MAIN PLAN SHEET 11
APPROX. STA. 228+74, 45' LT. CONST. @ ON RTE. 17 SOUTHBOUND TO
APPROX. STA. 228+74, 37' LT. CONST. @ ON RTE. 17 SOUTHBOUND

PLAN NO.	PROJECT	FILE NO.	SHEET NO.
	0069-046-682		17(14)

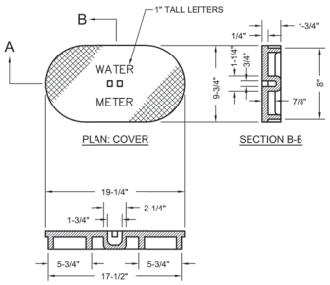
THIS SHEET FOR UTILITY RELOCATION/ADJUSTMENT
FOR WATER ONLY

PROJECT MANAGER Walt Zamon, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY Rice Associates (757) 306-4260 (VDOT)
DESIGN SUPERVISED BY Victoria Bates, P.E. (804) 225-3831 (Central Office)
DESIGNED BY Michael Baker Intl. (757) 463-8770

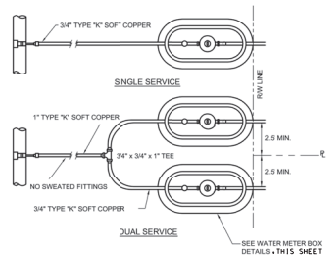


NOTES:

1. METER BOX TO BE SUPPLIED BY CAPITAL FOUNDRY OF VIRGINIA, INC., (MODEL #MBX-1) OR APPROVED EQUAL.
2. ALL GRAY IRON CASTINGS SHALL CONFORM TO LATEST EDITION OF AASHTO M-105, CLASS 35B AND SHALL BE UNIFORM QUALITY.
3. ALL CASTING DIMENSIONS SHALL HAVE A TOLERANCE OF 1/8".
4. ALL CASTINGS SHALL BE CLEANED BY SHOT BLASTING AND HAND CHIPPING UTILIZING STANDARD INDUSTRY PRACTICES PRIOR TO SHOP APPLICATION OF ASPHALTIC COATING, BY DIPPING.

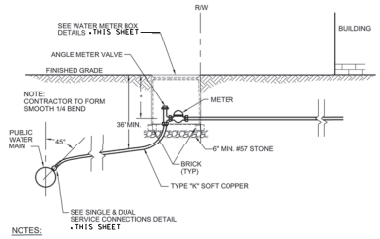


WATER METER BOX
NOT TO SCALE



NOTES:

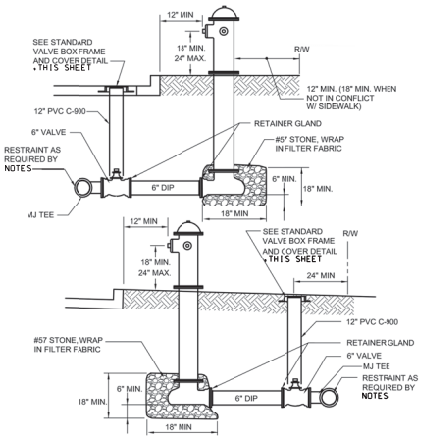
1. DUAL SERVICE REQUIRES PRIOR LOCALITY APPROVAL.
2. CONTRACTOR SHALL USE APPROVED BENDING TOOLS WHEN INSTALLING COPPER PIPE.
3. ALL DUCTILE IRON MAINS, SIX INCHES IN DIAMETER AND LARGER, MAY BE TAPPED WITHOUT SADDLES. WHERE PVC MAINS ARE PERMITTED BY LOCALITIES, THE CONNECTION TO A PVC MAIN MUST BE MADE WITH A TAPPING SADDLE. TAPPING SADDLES SHALL BE AS SPECIFIED IN SECTION 200 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. ALL SADDLES TO BE STAINLESS STEEL OR EPOXY COATED.
4. INSTALL METER BOX BETWEEN THE CURB AND GUTTER AND THE SIDEWALK. METER BOXES SHALL NOT BE INSTALLED IN DRIVEWAY.



NOTES:

1. ALL DUCTILE IRON MAINS, SIX INCHES IN DIAMETER AND LARGER, MAY BE TAPPED WITHOUT SADDLES. WHERE PVC MAINS ARE PERMITTED BY LOCALITIES, THE CONNECTION TO A PVC MAIN MUST BE MADE WITH A TAPPING SADDLE. TAPPING SADDLES TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. ALL TAPPING SADDLES TO BE STAINLESS STEEL OR EPOXY COATED.
2. METER SHALL BE 5/8" MINIMUM THRU 1" MAXIMUM.
3. INSTALL METER BOX BETWEEN THE CURB & GUTTER AND THE SIDEWALK. METER BOXES SHALL NOT BE INSTALLED IN DRIVEWAYS OR SIDEWALKS.
4. ALL BENDS IN TYPE K COPPER SHALL BE MADE USING AN APPROPRIATE PIPE BENDING TOOL. THERE SHALL BE NO CRIMPS IN THE PIPE LINE.

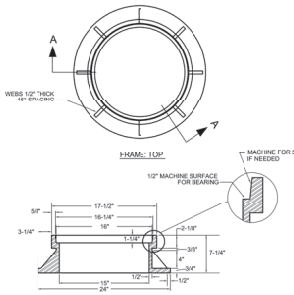
WATER SERVICE CONNECTION
NOT TO SCALE



NOTES:

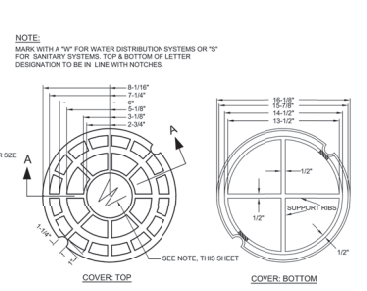
1. HYDRANT TO BE SET WITH BREAKABLE COUPLING APPROXIMATELY 3" ABOVE FINISHED GRADE.
2. STEAMER NOZZLE IS TO FACE ROADWAY UNLESS OTHERWISE NOTED.
3. TRACER WIRE REQUIRED.
4. ALL VALVES TO BE MJ.
5. WHEN FIRE HYDRANT IS TO BE INSTALLED WITHIN EXISTING OR PROPOSED VDOT RIGHT- OF-WAY, HYDRANTS SHALL BE LOCATED IN ACCORDANCE WITH VDOT REQUIREMENTS.
6. HYDRANT(S) SHALL BE FACTORY PAINTED YELLOW.

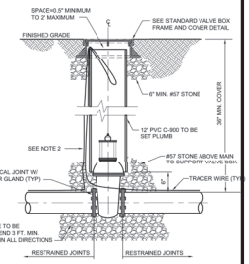
FIRE HYDRANT
NOT TO SCALE



NOTES:

1. VALVE BOX FRAME AND COVER TO BE SUPPLIED BY CAPITA, FOUNDRY OF VIRGINIA, INC., MODEL #NPN-15TN, 160 LBS., OR APPROVED EQUAL.
2. ALL GRAY IRON CASTINGS SHALL CONFORM TO LATEST EDITION OF AASHTO M-105, CLASS 35B AND SHALL BE UNIFORM QUALITY.
3. ALL CASTING DIMENSIONS SHALL HAVE A TOLERANCE OF 1/8".
4. ALL CASTINGS SHALL BE CLEANED BY SHOT BLASTING AND HAND CHIPPING UTILIZING STANDARD INDUSTRY PRACTICES PRIOR TO SHOP APPLICATION OF ASPHALTIC COATING, BY DIPPING.





NOTES:

1. OPERATING NUT SHALL BE 12 TO 24 - INCHES BELOW THE TOP RIM OF THE VALVE BOX. IF OPERATING NUT IS GREATER THAN 36" BELOW TOP OF VALVE BOX FRAME, A VALVE STEM EXTENSION MAY BE INSTALLED. THE EXTENSION SHALL REPLACE OR BE SECURELY ATTACHED TO THE NORMAL 2 INCH SQUARE OPERATING NUT, SHALL BE AT LEAST AS STRONG AS THE VALVE STEM, AND SHALL BE COATED IN ACCORDANCE WITH AWWA C550. VALVE STEM EXTENSIONS MUST BE APPROVED BY THE LOCALITY.
2. PLASTIC COATED 10 GAUGE SOLID COPPER TRACER WIRE TO BE AT TACHED WITH PLASTIC STRAPPING EVERY 10 FEET OF LENGTH. WIRE TO BE LOOPED THROUGH VALVE BOX AND EXTEND 12 INCHES ABOVE FINISHED GRADE AND COILED BACK INTO VALVE BOX.

VALVE/VALVE BOX INSTALLATION DETAIL
NOT TO SCALE

COMMONWEALTH OF VIRGINIA
JEREMY M. DOW
Lic. No. 047192
PROFESSIONAL ENGINEER

Jeremy M Dow
2023.09.26 11:58:11 -04'00'

Michael Baker Intl.
Virginia Beach, Virginia
UTILITY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 PE-101, RW-201, C-501	17(15)

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

PROJECT	SHEET NO.
0669-046-682	17(15)

THIS SHEET FOR UTILITY RELOCATION/ADJUSTMENT
FOR WATER ONLY

PROJECT MANAGER Walt Zamora, P.E. (757) 956-3272 (Hampton Rds. District)
SURVEYED BY Rice Associates, (757) 306-4260 (UTILITY)
DESIGN SUPERVISED BY Victoria Bolno, P.E. (804) 225-3831 (Central Office)
DESIGNED BY Michael Baker Intl. (757) 463-8770

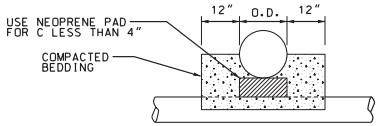
COMMONWEALTH OF VIRGINIA
JEREMY M. DOW
Lic. No. 047192
PROFESSIONAL ENGINEER

Jeremy M Dow
2023.09.26 11:59:23 -04'00'

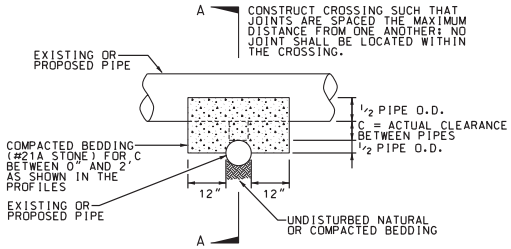
Michael Baker Intl.
Virginia Beach, Virginia
UTILITY ENGINEER

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682 PE-101, RW-201, C-501	17(16)

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



SECTION A-A



NOTE:

SPECIAL PROTECTIVE BEDDING SHALL BE INCLUDED IN THE COST OF THE ASSOCIATED PIPE.

SPECIAL PROTECTIVE PIPE BEDDING

NOT TO SCALE

	PROJECT	SHEET NO.
	0669-046-682	17(16)

1/30/2024
2:45:34 PM

el09314i8f01i.dgn
Plotted By:vdotpwilcs01#

PROJECT MANAGER _Wail Zaman,P.E.(757) 956-3272 (Hampton Rds.District)_
SURVEYED BY, DATE _Rice Associates.(757).306-4260.1/1/17_ _ _ _ _ _ _ _
DESIGN BY _Shanaa Kerrigan,P.E.(804)786-6084 (Central Office)_ _ _ _ _ _
SUBSURFACE UTILITY BY, DATE _ Rice Associates. (757) 306-4260.1/1/17 _ _

Project Nmuber: 0669-046-682

UPC: 109314

AssocProjects: 0669-046-682

Environmental Commitments Summary Sheet

REVISED	STATE	STATE ROUTE	STATE PROJECT	SHEET NO.
	VA.	669	0669-046-682,C-501	18(1)

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

Project Number: 0669-046-682
UPC:109314 109314
AssocProjects(UPC): 0017-046-683(109481), 00669-046-23069785

Environmental Commitments

CONSTRUCTION

ENV Compliance Assistance

Commitment Name: Monitor Compliance with Water Quality Permits & Environmental Commitments
Description: The project will be monitored to ensure compliance with Water Quality Permits and commitments for T&E, CR & E&S measures. Commitments and permit conditions may be subject to Department regulatory enforcement. Any proposed deviations to environmental commitments and WQ permits must be coordinated through ECI. Unauthorized impacts or discharge of fill to WOTUS must be reported to the ECI within 24 hours.
Refer to Page: na

Natural Resources

Commitment Name: Wetlands- Temporary Impact Restoration
Description: All temporarily disturbed waters and wetlands must be restored to their pre-construction contours and loosened to a depth of 12 inches and wetland areas must be seeded with appropriate native vegetation. Contractor shall inform the VDOT DEM of impacts that will not be restored within 12 months (calculated from the start of the temporary impacts' construction). Contractor should keep a record of preconstructions photos and a date of when temporary impacts begin in each location.

Water Quality Permits

Commitment Name: Pre-constructior Flagging: Avoidance of impacts to adjacent WOTUS
Description: Any WOTUS, that will not be impacted under this permit and that are located within existing right of way and within 50 feet of any proposed clearing, excavation, or other construction activites resulting in an impact must be clearly marked in the field with 4 foot high orange silt fencing (or 4 foot orange construction/barrier fencing or high visibility barricade tape) prior to commencing work onsite to ensure that additional wetland areas are not inadvertently impacted during construction.

Commitment Name: As-Built invert culvert elevations.
Description: Contractor shall provide as-built invert in and out elevations for drainage structures 6-4 and 10-1 to Hampton Roads District Environmental Manager (DEM). DEM to supply the Department of Environmental Quality with as-built data for review and approval.
Refer to Page: 6

Threatened and Endangered Species

Commitment Name: Contractor Limitation of Operations : TOYR Tree Removal/Protection of Federally Protected Bats
Description: Contractor Limitation of Operations; Per SP522-000130-02 a time of year restriction (TOYR), is in place from December 15–February 15 and April 15–July 30 for tree clearing activities.

Note:
The Environmental information on this sheet is a reference; refer to the controlling documents for project-specific details.

Abbreviations

ACM - Asbetos Containing Materials
BMP - Best Management Practice
DEM - District Environmental Manager
ECI - Environmental Commitment Inspector
DWR - Department of Wildlife Resources
FHWA - Federal Highway Administration
MOA - Memorandum of Agreement
MOU - Memorandum of Understating
NEPA - National Environmental Policy Act
NOI - Notice of Intent
NWP - Nationwide permit
TOYR - Time of Year Restriction
T&E - Threatened and Endangered Species
PCN - Pre-Construction Notification
VDEQ - Virginia Department of Environmental Quality
VMRC - 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
WQ - Water Quality
CR - Cultural Resources
AMMS - Avoidance and Minimization Areas

ENVIRONMENTAL COMMITMENTS LEGEND

- ENV-# General Environmental
- NR-# General Natural Resources
- WQ-# Water Quality Permits
- TE-# Threatend and Endangered Species
- CR-# Cultural Resources
- HM-# Hazardous Materials
- Water Feature
- Wetland
- Limits of Disturbance

Environmental Contacts

District Environmental Manager
Melissa Wolford
(757)-956-3000
melissa.wolford@vdot.virginia.gov

Environmental Compliance Inspector
Mellony Fisher
703-598-3782
Mellony.Fisher@vdot.virginia.gov

SCALE 0 25' 50'

PROJECT	SHEET NO.
0669-046-682	18(1)