



**Dominion
Energy[®]**

**Application, Appendix,
DEQ Supplement, Direct
Testimony and Exhibits of
Virginia Electric and Power
Company**

**Before the State Corporation
Commission of Virginia**

**Lines #2019 and #2007 Rebuild
Project**

Application No. 321

Case No. PUR-2023-00023

Filed: February 24, 2023

Volume 2 of 2

BEFORE THE
STATE CORPORATION COMMISSION
OF VIRGINIA

APPLICATION OF
VIRGINIA ELECTRIC AND POWER COMPANY
FOR APPROVAL OF ELECTRIC TRANSMISSION FACILITIES

Lines #2019 and #2007 Rebuild Project

Application No. 321

DEQ Supplement

Case No. PUR-2023-00023

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Based upon consultations with the Virginia Department of Environmental Quality (“DEQ”), Virginia Electric and Power Company (“Dominion Energy Virginia” or the “Company”) has developed this DEQ Supplement to facilitate review and analysis of the proposed Lines #2019 and #2007 Rebuild Project (the “Rebuild Project”) by DEQ and other relevant agencies.

1. Project Description

In order to maintain the structural integrity and reliability of its transmission system in compliance with the Company's mandatory electric transmission planning criteria ("Planning Criteria") and consistent with sound engineering judgment, Dominion Energy Virginia proposes the following rebuild project located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"):

- (i) Rebuild an approximately 1.17-mile segment of 230 kV Greenwich-Thalia Line #2019 from Structure #2019/20 to the Company's existing Thalia Substation. Specifically, replace 1.17 miles of Line #2019 structures beginning at Structure #2019/21, which primarily are single circuit concrete monopoles, with single circuit galvanized steel monopoles on concrete foundations. Additionally, replace conductors between Structure #2019/20 and the Thalia Substation, and replace fiber optic shield wires between Greenwich Substation and Thalia Substation with two fiber optic shield wires.
- (ii) Rebuild the entire approximately 3.37-mile 230 kV Lynnhaven-Thalia Line #2007 between the Company's existing Lynnhaven and Thalia Substations. Specifically, replace 3.37 miles of Line #2007 structures between Structure #2007/102 and Structure #2007/42A, which primarily are single circuit concrete monopoles, with single circuit galvanized steel monopoles on concrete foundations. Additionally, between Greenwich Substation and Thalia Substation, replace conductors, and replace shield wires with two fiber optic shield wires.
- (iii) Conduct related work at the Company's existing Greenwich, Thalia and Lynnhaven Substations to support the new line ratings.

The proposed Rebuild Project will replace aging infrastructure at the end of its service life in compliance with the Company's mandatory Planning Criteria and consistent with sound engineering judgment, thereby enabling the Company to maintain the overall long-term reliability of its transmission system, as well as provide important system reliability benefits to the Company's entire network.

The total length of the existing right-of-way and Company-owned property to be used for the Rebuild Project is approximately 4.54 miles. Because the existing right-of-way and Company-owned property are adequate for the proposed Rebuild Project, no new right-of-way is required. Given the availability of existing right-of-way and the statutory preference given to use of existing rights-of-way, and because additional costs and environmental impacts would be associated with the acquisition of and construction on new right-of-way, the Company did not consider any alternate routes requiring new right-of-way for the Rebuild Project.

2. Environmental Analysis

The Company solicited comments from all relevant state and local agencies about the proposed Rebuild Project by letter dated June 29, 2022, and June 30, 2022. Copies of these letters are included as Attachment 2. The DEQ responded to the Company's request for the proposed Rebuild Project in an email dated July 1, 2022 (see Attachment 2.1), attaching the agency's Scoping Response Letter dated July 1, 2022 (see Attachment 2.2). The DEQ further responded on July 6, 2022, requesting shapefiles to support its review of the Rebuild Project. A copy of this email is included as Attachment 2.3.

As part of Dominion Energy Virginia's environmental compliance, the Company has a comprehensive Environmental Management System Manual in place that ensures it is committed to complying with environmental laws and regulations, reducing risk, minimizing adverse environmental impacts, setting environmental goals, and achieving improvements in its environmental performance, consistent with the Company's core values.

A. Air Quality

For the Rebuild Project, the Company will control fugitive dust during construction in accordance with DEQ regulations. During construction, if the weather is dry for an extended period of time, there will be airborne particles from the use of vehicles and equipment within the right-of-way. However, minimal earth disturbance will take place and vehicle speed, which is often a factor in airborne particulate, will be kept to a minimum. Erosion and sediment control is addressed in Section 2.H, below. Equipment and vehicles that are powered by gasoline or diesel motors will also be used during the construction of the line so there will be exhaust from those motors.

The existing transmission right-of-way corridor currently is maintained for transmission facility operations. The Rebuild Project may require some trimming of tree limbs along the right-of-way edges to support construction activities or danger tree removal. The Company does not expect to burn cleared material, but if necessary, the Company will coordinate with the responsible locality to ensure all local ordinances and DEQ requirements are met. The Company's tree clearing methods are described in Section 2.L.

B. Water Source (No water source is required for transmission lines so this discussion will focus on potential waterbodies to be crossed by the proposed transmission line rebuild.)

The proposed Rebuild Project is located within the Lynnhaven-Poquoson watershed, Hydrologic Unit Code 02080108. According to the U.S. Geological Survey ("USGS") topographic quadrangles (Kempsville (2019) and Princess Anne (2019), Virginia), the existing transmission line corridor crosses Thalia Creek and Pine Tree Branch. According to the Virginia Department of Conservation and Recreation's

(“DCR”) National Hydrography Dataset found on the Natural Heritage Data Explorer, the transmission right-of-way crosses an additional unnamed tributary.

Any clearing required in the vicinity of streams will be performed by hand within 100 feet of both sides, and vegetation less than three inches in diameter will be left undisturbed.

In response to the Company’s request for comments, Dominion Energy Virginia received an email from the Virginia Department of Health Office of Drinking Water dated July 13, 2022, regarding potential impacts to public drinking water sources from the Rebuild Project. A copy of this email is included as Attachment 2.B.1. No public drinking water sources were identified within the immediate vicinity of the Rebuild Project.

The Company solicited comments from the Virginia Marine Resources Commission (“VMRC”) regarding the proposed Rebuild Project in June 2022. According to a response letter dated July 15, 2022, the Rebuild Project may be located within the jurisdictional areas of the VMRC, and a permit may be required. See Attachment 2.B.2. A subaqueous encroachment permit is expected to be required for any stream crossings with a drainage area of five square miles or greater at the crossing location and for work over or within tidal waters. Thalia Creek is a tidal waterway and there are no additional streams with drainage areas greater than five square miles within the Rebuild Project area. A Joint Permit Application will be submitted for review by the VMRC, DEQ and the U.S. Army Corps of Engineers (the “Corps”) to authorize jurisdictional crossings and for any impacts to jurisdictional features. See Section 2.D below.

C. Discharge of Cooling Waters

No discharge of cooling waters is associated with the Rebuild Project.

D. Tidal and Non-tidal Wetlands

Tidal and non-tidal wetlands were identified within the proposed Rebuild Project area and are summarized below.

Wetlands Impact Consultation

The Company utilized aerial imagery, U.S. Fish and Wildlife Service (“USFWS”) National Wetlands Inventory, National Resources Conservation Service Soil Surveys, Federal Emergency Management Mapping, and existing contour data to estimate jurisdictional wetlands and waters of the United States within the proposed Rebuild Project right-of-way. Total jurisdictional resources within the proposed Rebuild Project right-of-way, as estimated using these desktop resources, are provided in Table 1 and detailed in Attachment 2.D.1.

Table 1. Jurisdictional Resources within the Rebuild Project Right-of-Way

Resource	Area/Length (±)
Palustrine Emergent/Scrub Shrub Wetland	4.4 Acres
Estuarine Emergent/ Scrub Shrub Wetland	0.2 Acre
Non-Tidal Stream Channel	0.2 Acre/ 1,807 Linear Feet
Tidal Stream Channel	0.1 Acre/ 110 Linear Feet

Prior to construction, the Company will delineate wetlands and other waters of the United States using the *Routine Determination Method*, as outlined in the *1987 Corps of Engineers Wetland Delineation Manual* and methods described in the *2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region* (Version 2.0). The Company will also obtain any necessary permits to impact jurisdictional resources.

The Company solicited comments from the DEQ Office of Wetlands and Stream Protection in June 2022. The letter response dated July 15, 2022 is included as Attachment 2.D.2. The Company has sited structures to avoid wetlands and streams to the extent practicable. Temporary impacts will be restored to pre-existing conditions, and permanent impacts will be compensated for in accordance with all applicable state regulations and laws. A Joint Permit Application will be submitted for further evaluation and final permit need determination by DEQ.

The Corps responded to the Company’s request for comments in an email on June 30, 2022, to inquire if the Rebuild Project would be submitted to the Corps prior to construction. See Attachment 2.D.3. The Company will complete a wetland delineation and obtain any necessary permits to impact jurisdictional resources.

E. Floodplains

As depicted on the Federal Emergency Management Agency’s (“FEMA”) online Flood Insurance Rate Maps #5155310103G, #5155310104G, and #5155310084G (effective date 1/16/2015), the Rebuild Project area lies within Zone X, areas of minimal flood hazard, and Zone AE, base flood elevation and 100-year floodplain. Dominion Energy Virginia will coordinate with the local floodplain coordinators as required.

F. Solid and Hazardous Waste

On behalf of the Company, C2 Environmental, Inc. (“C2”) conducted database searches for solid and hazardous wastes and petroleum release sites within a 0.5-mile radius of the Rebuild Project.

C2 obtained publicly available data from the Environmental Protection Agency (“EPA”) Facility Registry System, which provides information about facilities, sites, or places subject to environmental regulation or of environmental interest. Although this data set includes all sites subject to environmental regulation by the EPA or other state authority, such as sites that fall under air emissions or wastewater programs, the

results reported here only include those sites which fall under the EPA’s hazardous waste, solid waste, remediation, and underground storage tank programs. These sites include *Comprehensive Environmental Response, Compensation and Liability Act /Superfund*; *Resource Conservation and Recovery Act* (“RCRA”); and brownfield sites. Per this database, there are no registered Superfund or brownfield sites and 93 RCRA sites present within a 0.5-mile radius of the Rebuild Project.

DEQ records also were searched for the presence of solid waste permits, Voluntary Remediation Program (“VRP”) sites, petroleum releases, and registered tank facilities. A total of 2 solid waste permits, 1 VRP site, 129 petroleum release sites, and 115 registered tank facilities were identified as present within a 0.5-mile radius of the Rebuild Project. None of the petroleum release sites fall within the Rebuild Project right-of-way. Four of the registered tank facilities fall within the Rebuild Project right-of-way. Each of these facilities contain active underground storage tanks and one facility contains one active above ground storage tank. The Company has a procedure in place to handle petroleum contaminated soil, if encountered. Tables listing these sites are included in Attachment 2.F.1.

G. Natural Heritage, Threatened and Endangered Species

On behalf of the Company, C2 conducted online database searches for threatened and endangered species in the vicinity of the Rebuild Project, including USFWS Information, Planning, and Conservation system, the USFWS Critical Habitat for Threatened and Endangered Species Mapper, the USFWS Bald Eagle Concentration Area Map, the Virginia Department of Wildlife Resources (“DWR”) Virginia Fish and Wildlife Information Service (“VAFWIS”), the DWR Northern Long-eared Bat Winter Habitat and Roost Trees Map, the DCR, the Natural Heritage Data Explorer, and the Center for Conservation Biology (“CCB”) Bald Eagle Nest Locator. The results are presented in Table 2 below.

Table 2. Threatened and endangered species within the Rebuild Project vicinity

Species Name (Scientific Name)	Status	Results
Northern long-eared bat (<i>Myotis septentrionalis</i>) Database: USFWS	FT, ST	No known hibernacula or summer roosts are identified in the vicinity of the Rebuild Project. No clearing of new right-of-way is proposed; therefore, no adverse effects are expected.
Monarch butterfly (<i>Danaus plexippus</i>) Database: USFWS	FC	Suitable habitat may be present in the right-of-way. Vegetation may be temporarily disturbed due to construction access; however, no long term or adverse effects are expected.
West Indian manatee (<i>Trichechus manatus</i>) Database: VAFWIS	FT, SE	Suitable habitat may be present in streams. No in-stream work is proposed; therefore, no adverse effects are expected.
Canebrake rattlesnake	SE	Suitable habitat may be present in the

Species Name (Scientific Name)	Status	Results
(<i>Crotalus horridus</i>) Database: VAFWIS		right-of-way or adjacent to the right-of-way. Vegetation may be temporarily disturbed due to construction access; however, no clearing of new right-of-way is proposed and no adverse effects are expected.
Peregrine falcon (<i>Falco peregrinus</i>) Database: VAFWIS	ST	No suitable habitat is present and no clearing of new right-of-way is proposed; therefore no adverse effects are expected.
Chicken turtle (<i>Deirochelys reticularia</i>) Database: DCR	SE	Suitable habitat may be present in streams; however, no in-stream work is proposed. Therefore, no adverse effects are expected.
Bald eagle (<i>Haliaeetus leucocephalus</i>) Database: USFWS, CCB	FP	No known bald eagle nests are located within 660 feet of the Rebuild Project area, nor are any bald eagle concentration areas present within the Rebuild Project vicinity. Therefore, no adverse effects are expected.

Note: FT denotes federally threatened; FE denotes federally endangered; FC denotes federal candidate; ST denotes state threatened; SE denotes state endangered; FP denotes federally protected.

A copy of the database search results can be found in [Attachment 2.G.1](#). Additionally, the Company requested comments from the USFWS, DWR and DCR regarding the proposed Rebuild Project in June 2022. DCR provided a letter response dated July 28, 2022 stating that natural heritage resources have not been documented within the Rebuild Project area and surrounding 100-foot buffer. See [Attachment 2.G.2](#).

New and updated information is continually added to DCR’s Biotics database. The Company shall re-submit Rebuild Project information and a map for an update on this natural heritage information if the scope of the Rebuild Project changes and/or six months have passed before this information is utilized.¹

H. Erosion and Sediment Control

The DEQ approved the Company’s *Standards & Specification for Erosion & Sediment Control and Stormwater Management for Construction and Maintenance of Linear Electric Transmission Facilities (TE VEP 8000)*. These specifications are given to the Company’s contractors and require erosion and sediment control measures to be in place before construction of the line begins and specifies the requirements for rehabilitation of the right-of-way. A copy of the current DEQ

¹ The Company updated this commitment consistent with discussions held between Company and DCR representatives on August 23, 2022.

approval letter dated August 13, 2019, is provided as Attachment 2.H.1. According to the approval letter, coverage was effective through August 12, 2020. The Company submitted the renewal application on August 3, 2020 and is awaiting approval.

I. Archaeological, Historic, Scenic, Cultural or Architectural Resources

The Company solicited comments from the Virginia Department of Historic Resources (“VDHR”) in June 2022. VDHR provided a letter response on July 18, 2022, recommending that Dominion Energy Virginia follow the *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia*. See Attachment 2.I.1. Dutton + Associates was retained by the Company to conduct the recommended Stage I Pre-Application Analysis (“Stage I Analysis”) for the proposed Rebuild Project. This analysis was completed in June 2022 and submitted to VDHR on July 13, 2022. The Stage I Analysis is included as Attachment 2.I.2. VDHR provided a letter response on August 12, 2022, concurring with the findings in the Stage I Analysis and providing additional recommendations to fully identify and address impacts to historic resources, in accordance with Section II of the above referenced Guidelines. VDHR’s response is included as Attachment 2.I.3. As detailed by VDHR guidance, consideration was given to: National Historic Landmark properties located within a 1.5-mile radius of the Rebuild Project centerline; National Register of Historic Places (“NRHP”) listed properties, battlefields, and historic landscapes located within a 1.0-mile radius of the Rebuild Project centerline; NRHP-eligible sites located within a 0.5-mile radius of the Rebuild Project centerline; and archaeological sites located within the Rebuild Project right-of-way.

Archaeological Resources

There is one documented archaeological resources located within the Rebuild Project right-of-way (Kempsville Canal, VDHR #44VB0060), which is identified as not eligible for listing on the NRHP.

Architectural Resources

Three architectural resources listed with the Virginia Landmarks Register (“VLR”) and NRHP are located within 1.0-mile of the Rebuild Project centerline. One battlefield is located within 1.0 mile and is crossed by the Rebuild Project right-of-way. Two architectural resources that are eligible or potentially eligible for listing are located within 0.5-mile of the Rebuild Project centerline. The Norfolk and Virginia Beach Railroad is within the existing right-of-way and parallels the Rebuild Project. These resources are provided in Table 3 below.

Table 3. NRHP-listed, eligible, and battlefield resources within the vicinity of the Rebuild Project

VDHR ID#	Resource Name	VDHR/NRHP Status	Distance to Centerline (Miles)
134-0031	Francis Land House (Historic/Current), Rose Hall (NRHP Listing)	NRHP Listing, VLR Listing	Within 1.0 mile
134-0027	Pleasant Hall (Historic/Current)	NRHP Listing, VLR Listing	Within 1.0 mile
134-0026	Pembroke Manor (NRHP Listing)	NRHP Listing, VLR Listing	Within 1.0 mile
134-5145	Norfolk and Virginia Beach Railroad (Historic)	VDHR Staff: Eligible	Within 0.5 mile
134-5052	Center for Effective Learning Middle School (Current), Princess Anne Training School/Union Kempsville High School (Historic), Union Kempsville High School (Historic), Virginia Beach Central Academy High School (Current)	VDHR Staff: Potentially Eligible	Within 0.5 mile

J. Chesapeake Bay Preservation Areas

The proposed Rebuild Project is located in the City of Virginia Beach and is subject to the Chesapeake Bay Preservation Act. However, construction, installation, operation, and maintenance of electric transmission lines are conditionally exempt from the Chesapeake Bay Preservation Act as stated in the exemption for public utilities, railroads, public roads, and facilities in 9 VAC 25-830-150. See Attachment 2.J.1. for a DEQ memorandum dated July 20, 2022, indicating that, provided the Company adheres to certain requirements, the proposed Rebuild Project activity would be consistent with the Chesapeake Bay Preservation Act. The Company will meet those requirements and conditions as applicable and in accordance with the *Dominion Energy Virginia Standards & Specifications for Erosion & Sediment Control and Stormwater Management for Construction and Maintenance of Linear Electric Transmission Facilities* as approved by DEQ.

K. Wildlife Resources

Relevant agency databases were reviewed and requests for comments from the USFWS, DWR, and DCR were submitted to determine if the proposed Rebuild Project has the potential to affect any threatened or endangered species, as described in Section 2.G and included as Attachment 2.G.1. As discussed in Section 2.G, certain federal and state listed species were identified as confirmed and potentially occurring in the Rebuild Project area. The Company will coordinate with the USFWS, DWR, and DCR as appropriate to determine whether surveys are necessary

and to minimize impacts on wildlife resources. Since the proposed Rebuild Project is a rebuild of a transmission line within existing right-of-way and minimal clearing is needed to support construction activities, no loss of wildlife habitat is anticipated.

Consistent with existing regulations, Dominion Energy Virginia would further minimize potential effects by avoiding trees favorable for bat maternity roosting locations and cutting trees and vegetation during the time-of-year restriction from April 15-August 15 to avoid nesting birds and bat maternity roosting locations, to the extent practicable. However, the Company notes it is anticipated that the USFWS will “up-list” the Northern Long Eared Bats from threatened to endangered as of April 1, 2023. It is anticipated that the ESA 4(d) Rule will no longer be applicable to use on projects and the new regulations will come into effect.

L. Recreation, Agricultural and Forest Resources

The Rebuild Project is expected to have minimal incremental impacts on recreational, agricultural, and forest resources as no additional right-of-way is required. The general character of the Rebuild Project area is characterized as predominantly urban and residential development.

The Virginia Scenic Rivers Act seeks to identify, designate, and protect rivers and streams that possess outstanding scenic, recreational, historic, and natural characteristics of statewide significance for future generations. There are no designated scenic rivers crossed by the Rebuild Project.

There are 27 local parks within 1.0 mile of the Rebuild Project, none of which are within the existing right-of-way.

Prime farmland, as defined by the U.S. Department of Agriculture, is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and is available for these uses. Land that does not meet the criteria for prime farmland can be considered “farmland of statewide importance.” The criteria for defining and delineating farmland of statewide importance are determined by the Virginia Department of Agriculture and Consumer Services. Generally, this land includes areas of soils that nearly meet the requirements for prime farmland and that economically produce high yields of crops when treated and managed according to acceptable farming methods. Other areas that are not identified as having national or statewide importance can be considered to be “farmland of local importance.” This farmland is identified by the appropriate local agencies. Farmland of local importance may include tracts of land that have been designated for agriculture by local ordinance. There are 1.3 acres of prime farmland are within the Rebuild Project right-of-way. No areas of farmland of statewide importance are within the right-of-way.

The City of Virginia Beach does not contain Agricultural and Forestal Districts within their jurisdiction under Va. Code § 3.2-205 B. According to the City of Virginia Beach Comprehensive Plan, the existing transmission line corridor is located within areas designated as suburban or strategic growth areas.

No agricultural use areas are apparent within the right-of-way, however, if agricultural uses are present, these activities have been occurring within the right-of-way while the existing transmission line has been in operation. The Rebuild Project may result in temporary impacts to farmland during construction but would otherwise not be expected to impact farmlands and would not alter the agricultural use.

Under the Virginia Open-Space Land Act, any public body can acquire title or rights to real property to provide means of preservation of open-space land. Such conservation easements must be held for no less than five years in duration and can be held in perpetuity. The Rebuild Project does not cross any Virginia Outdoors Foundation (“VOF”) easements and none are located within 1.0 mile of the Rebuild Project. There are two VDHR easements located within 1.0 mile of the Rebuild Project but are not crossed by the Rebuild Project. These easements are listed below in Table 4.

Table 4. VDHR conservation easements within 1.0-mile of the Rebuild Project

Unit Name	Owner/Manager
Pembroke Manor, VDHR ID 134-0026	VDHR
Pleasant Hall, VDHR ID 1340027	VDHR

The width of the existing transmission line right-of-way varies from 66 feet to 92 feet. The proposed Rebuild Project is the rebuild of an existing transmission line, and no additional right-of-way is required. The Rebuild Project proposes to retain the existing right-of-way as currently utilized but may require additional trimming of tree limbs along the right-of-way edges and/or trimming for access roads along the corridor to support construction activities. Trees and brush located within 100 feet of streams will be cleared by hand in accordance with the Company approved Erosion and Sediment Control specifications.

Any tree along the right-of-way that is tall enough to endanger the conductors if it were to break at the stump or uproot and fall directly towards the conductors and exhibits signs or symptoms of disease or structural defect that make it an elevated risk for falling will be designated as a “danger tree” and may be removed. The Company’s arborist will contact the property owner if possible before any danger trees are cut, except in emergency situations. The Company’s Forestry Coordinator will field inspect the right-of-way and designate any danger trees present. Qualified contractors working in accordance with the Company’s Electric Transmission specifications will perform all danger tree cutting. The Rebuild Project is expected to have minimal, if any, impact on forest resources as the proposed Rebuild Project involves rebuilding a portion of an existing line which is already cleared and maintained for existing facility operation and no additional right-of-way is required.

In June 2022, the Company solicited VOF and the Virginia Department of Forestry (“VDOF”) for comments on the proposed Rebuild Project. VOF responded in an email on July 6, 2022 and stated that there are no existing or proposed open space easements in the vicinity of the proposed Rebuild Project. See Attachment 2.L.1. In a letter dated July 21, 2022, VDOF indicated it has no comments on the proposed Rebuild Project. See Attachment 2.L.2.

M. Use of Pesticides and Herbicides

Of the techniques available, selective foliar is the preferred method of herbicide application. The Company typically maintains transmission line right-of-way by means of selective, low volume applications of EPA approved, non-restricted use herbicides. The goal of this method is to exclude tall growing brush species from the right-of-way by establishing early successional plant communities of native grasses, forbs, and low growing woody vegetation. “Selective” application means the Company sprays only the undesirable plant species (as opposed to broadcast applications). “Low volume” application means the Company uses only the volume of herbicide necessary to remove the selected plant species. The mixture of herbicides used varies from one cycle to the next to avoid the development of resistance by the targeted plants. There are four means of dispersal available to the Company, including by-hand application, backpack, fixed nozzle-radiarc, and aerial. Very little right-of-way maintenance incorporates aerial equipment. The Company uses licensed contractors to perform this work that are either certified applicators or registered technicians in the Commonwealth of Virginia.

DEQ has previously requested that only herbicides approved for aquatic use by the EPA or the USFWS be used in or around any surface water. The Company intends to comply with this request.

Additionally, based on a discussion between Company and DCR DNH representatives in August 2022 and again in February 2023, the Company is continuing to review its Integrated Vegetation Management Plan (“IVMP”) for application to both woody and herbaceous species, based on the species list available on the DCR website. The Company continues to work toward a resolution with DCR on this issue, which the Company will file the results in a future certificate of public convenience and necessity case.²

² See, *Application of Virginia Electric and Power Company, For approval and certification of electric transmission facilities: 230 kV Line #293 and 115 kV Line #83 Rebuild Project*, Case No. PUR-2021-00272, Final Order at 9-11 (Aug. 31, 2022) (Commission agreed with the Chief Hearing Examiner and declined to adopt DCR DNH’s recommendation regarding an invasive species management plan (“ISMP”), but directed the Company to meet with DCR DNH and to report on the status of the meetings in the Company’s next transmission certificate of public convenience and necessity (“CPCN”) filing); see also Report of Alexander F. Skirpan, Jr., Chief Hearing Examiner (June 22, 2022) at 22 (agreeing with the Company that, with its IVMP,

N. Geology and Mineral Resources

According to the Virginia Division of Geology and Mineral Resources Interactive Geologic Map, the Rebuild Project consists primarily of pebbles and cobbles, coarse sands to clays and fine silts. According to the USGS topographic maps and aerial imagery, there are no active mines or stone quarries within the limits of the Rebuild Project. The Company solicited comments from the Virginia Department of Mines, Minerals and Energy (“DMME”) in June 2022. A search of the DMME online map confirms there are no active or abandoned mines within the right-of-way or within a 1.0-mile radius of the right-of-way. The Company does not anticipate that the rebuild of the existing transmission line will result in negative impacts on the geology or mineral resources in the proposed Rebuild Project area.

The Rebuild Project is located in the Coastal Plain physiographic province of Virginia, whose geology consists of sedimentary rocks.

O. Transportation Infrastructure

The entire width of the existing transmission line right-of-way varies between 66 to 92 feet in width and is currently maintained for operation of the existing transmission facilities. The transmission line corridor extends approximately 4.54 miles from the Company’s existing Structure #2019/20 to the Lynnhaven Substation in Virginia Beach, Virginia, crossing nine roads. Major road crossings include Witchduck Road (Route 190), Independence Boulevard (Route 225), and Rosemont Road (Route 411).

In June 2022, the Company solicited comments from the Virginia Department of Transportation (“VDOT”) and the City of Virginia Beach on the proposed Rebuild Project. The Company will submit applications for land use permits and traffic control plans to VDOT for the aerial crossings of VDOT maintained roads and construction entrances from the VDOT right-of-way as needed. Additionally, the Company will submit applications to the City of Virginia Beach for Utility/Right-of-Way permits for construction entrances from city-maintained roads. These permits will be obtained prior to construction.

The Company solicited comments from the Virginia Department of Aviation (“DOAv”) in June 2022. The DOAv responded via email on June 30, 2022, which stated that a 7460 must be submitted to the Federal Aviation Administration (“FAA”) for evaluation. See [Attachment 2.O.1](#). The Company will submit a Form 7460 to the FAA to initiate an aeronautical study to ensure that the proposed Rebuild Project will

the Company should not be required to undergo the additional cost of DCR DNH’s ISMP; however, recommending that the Company meet with DCR DNH regarding its IVMP and report the results of the meeting in the next transmission CPCN filing).

not constitute a hazard to air navigation. The Company will design the proposed structures to avoid interference with air navigation.

Finally, the Company has reviewed the FAA's website (<https://oeaaa.faa.gov/oeaaa/external/portal.jsp>) to identify airports within 10.0 miles of the Rebuild Project. Based on this review, 7 FAA-restricted airports, air stations, or heliports are located within 10.0 miles of the Rebuild Project:

- Norfolk International Airport, 4.6 miles northwest of the Rebuild Project start
- Oceana Naval Air Station (Apollo Soucek FLD) Airport, 2.6 miles east of the Lynnhaven Substation
- Norfolk Naval Station (Chambers FLD) Airport, 10.0 miles northwest of the Rebuild Project start
- Comlantflt Heliport, 10.0 miles northwest of the Rebuild Project start
- Fentress Naval Auxiliary Landing Field Airport, 9.7 miles south of the Thalia Substation
- Norfolk Naval Station Airport, 10.0 miles northwest of the Rebuild Project start
- LZ ALFA Heliport, 6.9 miles southeast of the Lynnhaven Substation

The Company will coordinate with VDOT, DOAv, and the FAA as necessary to obtain all appropriate approvals.

P. Drinking Water Wells

As a general matter, water wells within 1,000 feet of any of the Proposed or Alternative Routes may be outside of the right-of-way and located on private property. The Company does not have the ability or right to field mark the wells on private property. In August 2021, the Company contacted the Virginia Department of Health ("VDH"), Office of Drinking Water ("ODW") to propose a method of well protection, including plotting and calling out the wells on the Rebuild Project's Erosion and Sediment Control Plan, to which VDH-ODW indicated that the Company's proposed method is reasonable. A copy of that correspondence is included as Attachment 2.P.1. The Company intends to follow this same approach in this proceeding, as it has in other cases, and will coordinate with VDH-ODW, as needed.

Attachments

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June 29, 2022

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2401 Courthouse Drive
Virginia Beach, Virginia 23456

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia - Notice Pursuant to Va. Code § 15.2-2202 E**

Dear Mr. Duhaney,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

Specifically, as part of the Rebuild Project, the Company is proposing to rebuild an approximately 1.17-mile segment of 230 kV Greenwich-Thalia Line #2019 from Structure #2019/20 to the Company's existing Thalia Substation and rebuild the entire approximately 3.37-mile 230 kV Lynnhaven-Thalia Line #2007 between the Company's existing Lynnhaven and Thalia Substations. The Rebuild Project will include replacement of structures, as well as conductors and shield wire, within the existing right-of-way. Additionally, the Rebuild Project will require work at the Company's existing Greenwich, Thalia and Lynnhaven Substations.

The Company is preparing an application for a Certificate of Public Convenience and Necessity from the Virginia State Corporation Commission ("SCC"). Pursuant to Va. Code § 15.2-2202, the Company is writing to notify you of the proposed in advance of this SCC filing. We respectfully request that you submit any comments or additional information you feel would have bearing on the Rebuild Project within 30 days of the date of this letter. Enclosed is a Project Location Map depicting the rebuild route and project location.

If you would like to receive a GIS shapefile of the transmission line routes to assist in the project review or if there are any questions, please do not hesitate to contact me at (804) 239-6450 or charles.h.weil@dominionenergy.com.

We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia



Charles H. Weil, PE
Siting and Permitting Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

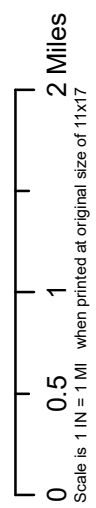
Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

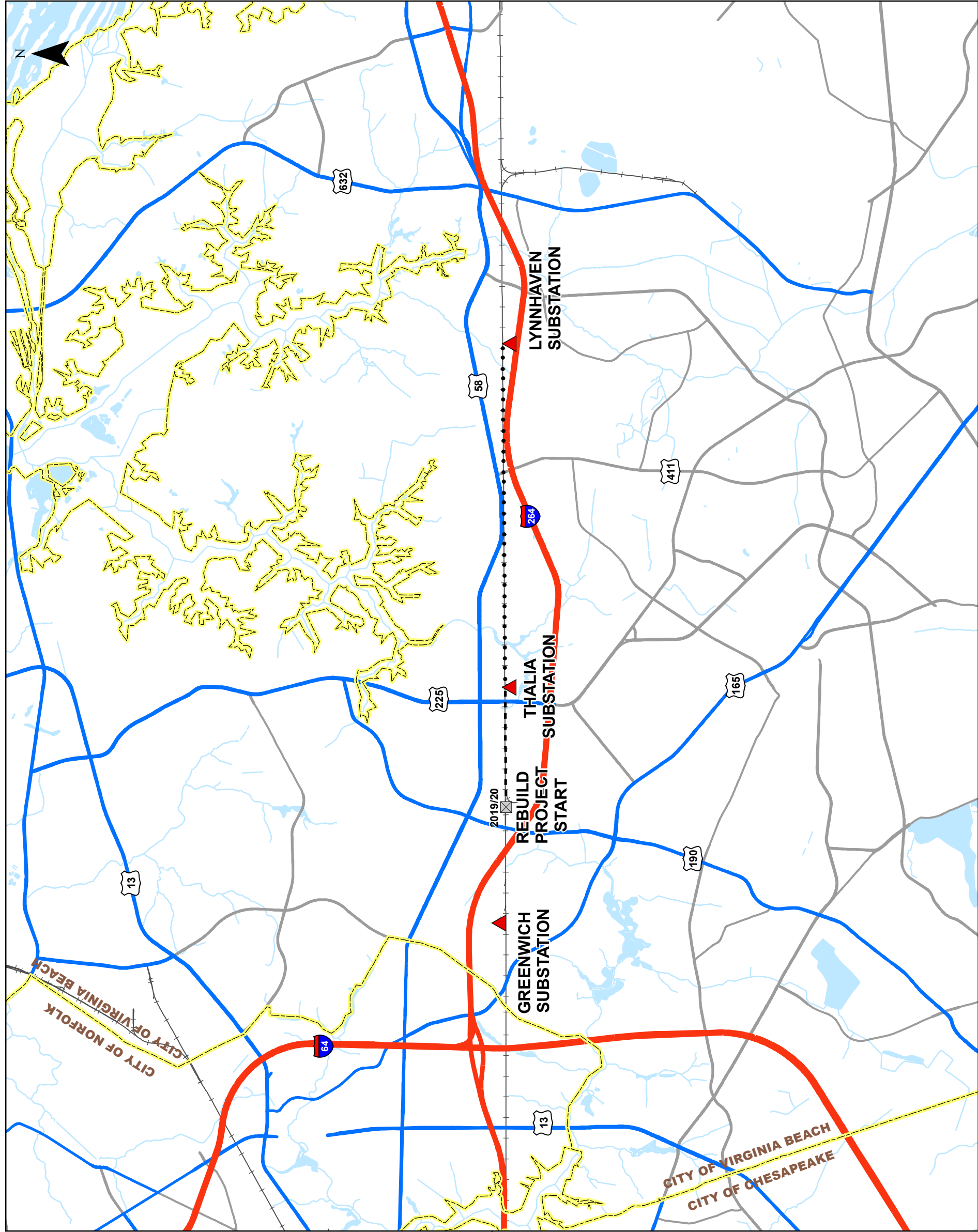
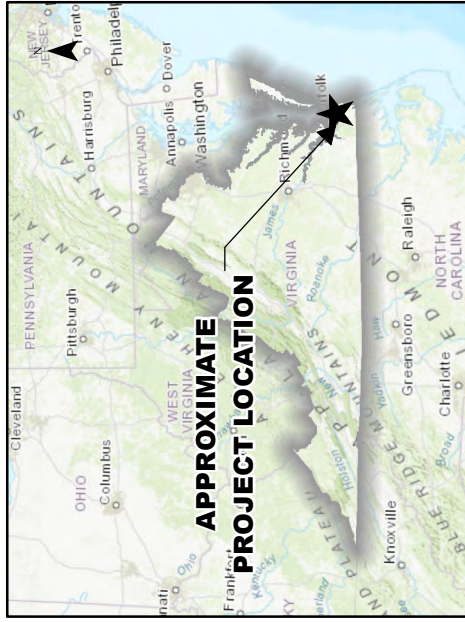
Date: 06/22/22



LEGEND

- - Existing Line #2019
- Existing Line #2007
- ▣ Existing Structure 2019/20
- ▲ Existing Substation
- Limited Access Highway
- US or VA Primary Highway
- Local or Main Road
- Railroad
- County Boundary
- NHD Stream/River
- NHD Waterbody

- Notes:
1. Basemap from ESRI Topographic Map
 2. Project centerline provided by Dominion Energy
 3. Roads and railroads from VGIN
 4. Streams, rivers and waterbodies from USGS National Hydrography Data



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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com

June 30, 2022

BY EMAIL

Mr. Scott Denny
Airport Services Division
Virginia Department of Aviation
5702 Gulfstream Road
Richmond, Virginia 23250

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Mr. Denny,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.


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The Company is in the process of preparing an application for a certificate of public convenience and necessity ("CPCN") from the State Corporation Commission of Virginia (the "Commission"). At this time, in advance of filing an application for a CPCN from the Commission, the Company respectfully requests that you submit any comments or additional information that would have bearing on the proposed Rebuild Project within 30 days of the date of this letter. If you would like to receive a GIS shapefile of the transmission line routes to assist in the project review or if there are any questions, please do not hesitate to contact me at (804) 239-6450 or charles.h.weil@dominionenergy.com.

We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia



Charles H. Weil, PE
Siting and Permitting Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

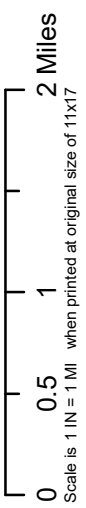
Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

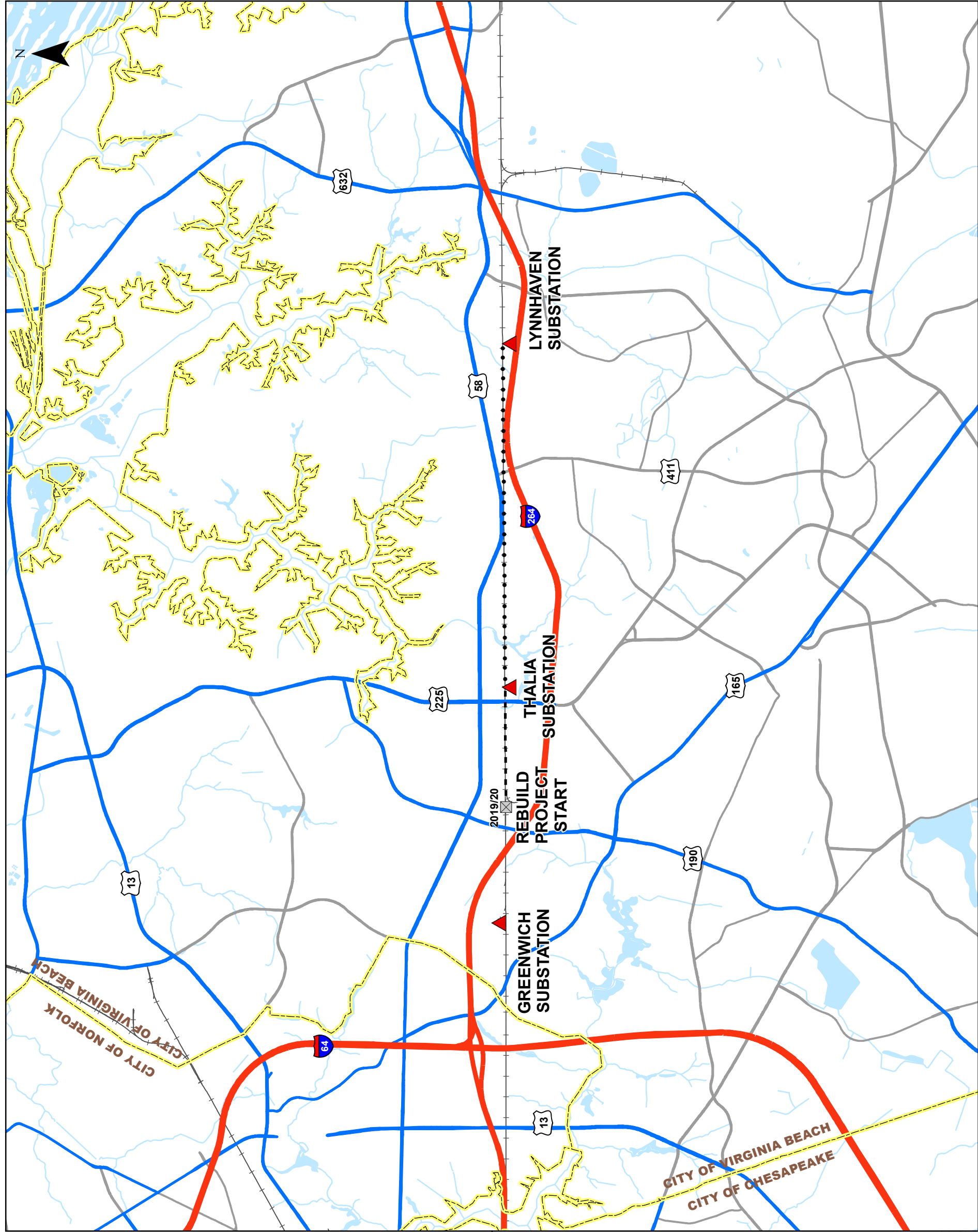
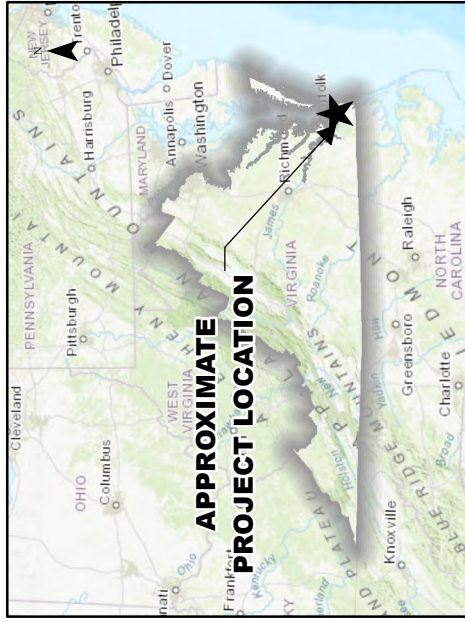
Date: 06/22/22



LEGEND

- - Existing Line #2019
- Existing Line #2007
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- Notes:
1. Basemap from ESRI Topographic Map
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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com

June 30, 2022

BY EMAIL

Mr. Christopher G. Hall, P.E.
Hampton Roads District Engineer
Virginia Department of Transportation
7511 Burbage Drive
Suffolk, Virginia 23435

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Mr. Hall,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

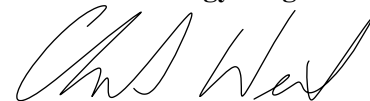
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We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia



Charles H. Weil, PE
Siting and Permitting Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

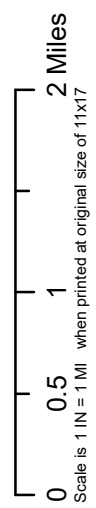
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Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

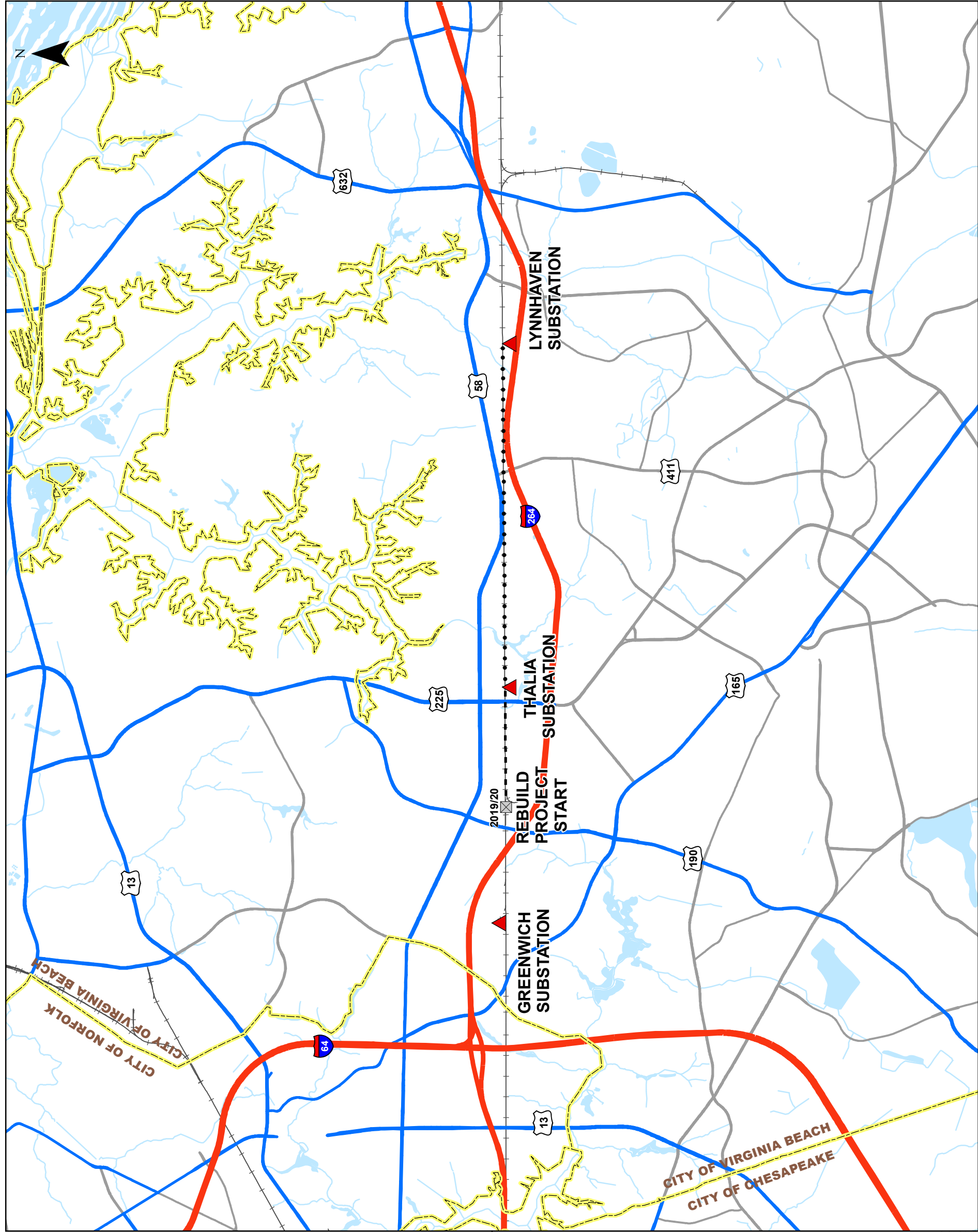
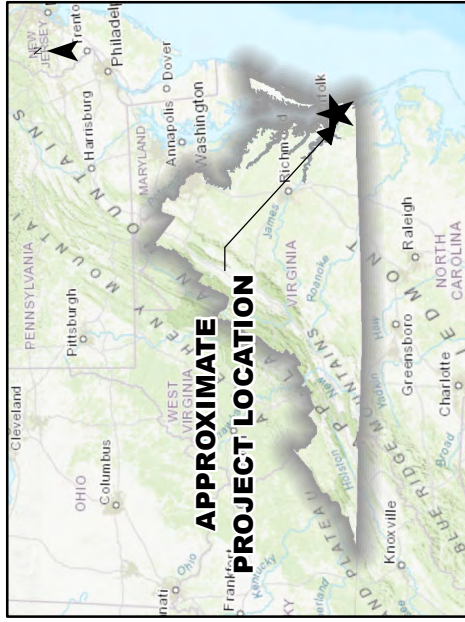
Date: 06/22/22



LEGEND

- - Existing Line #2019
- Existing Line #2007
- Existing Structure 2019/20
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- Railroad
- County Boundary
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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com

June 30, 2022

BY EMAIL

Mr. Roger Kirchen
Director, Review and Compliance Division
Department of Historic Resources
2801 Kensington Avenue
Richmond, Virginia 23221

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Mr. Kirchen,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

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We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia



Charles H. Weil, PE
Siting and Permitting Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

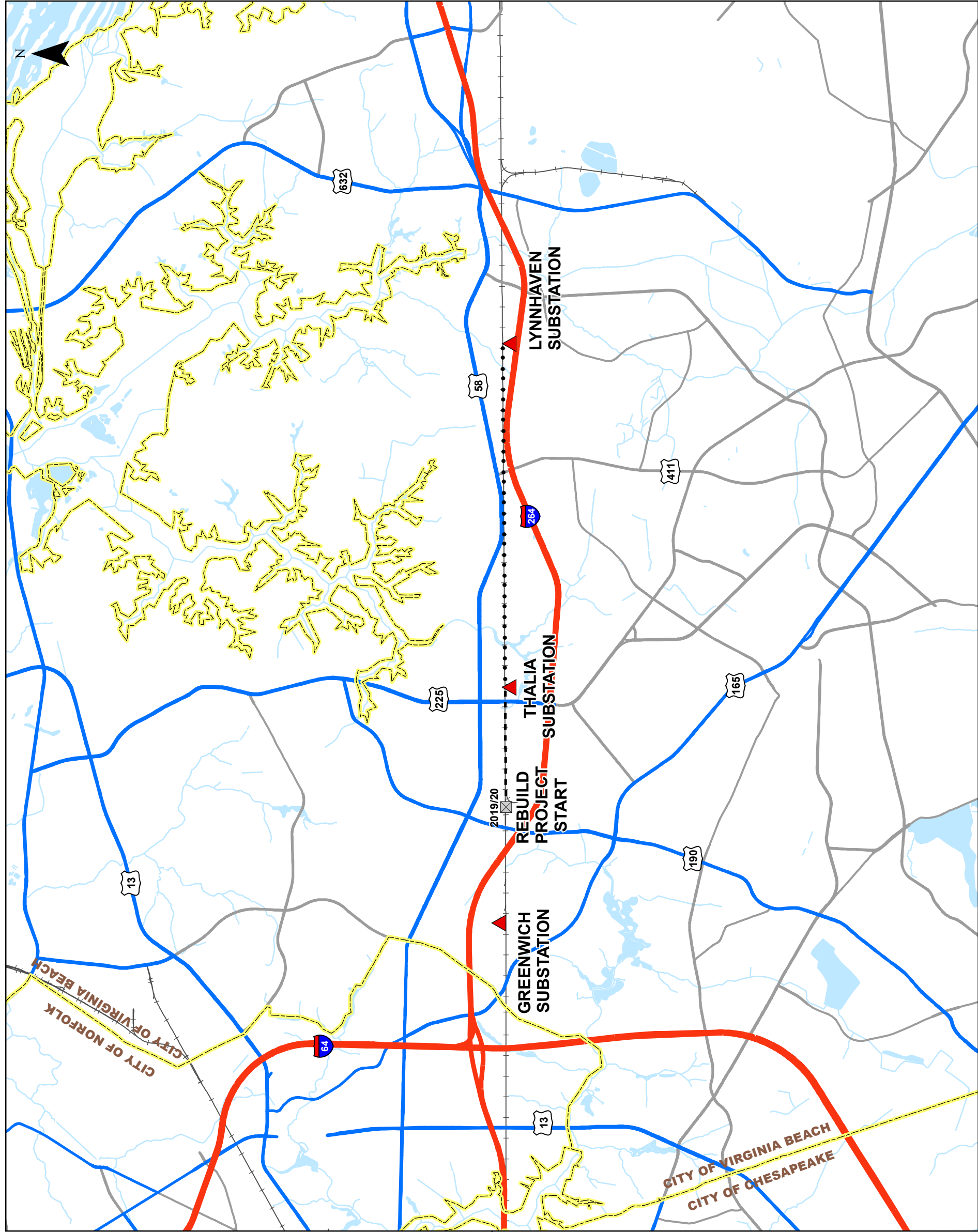
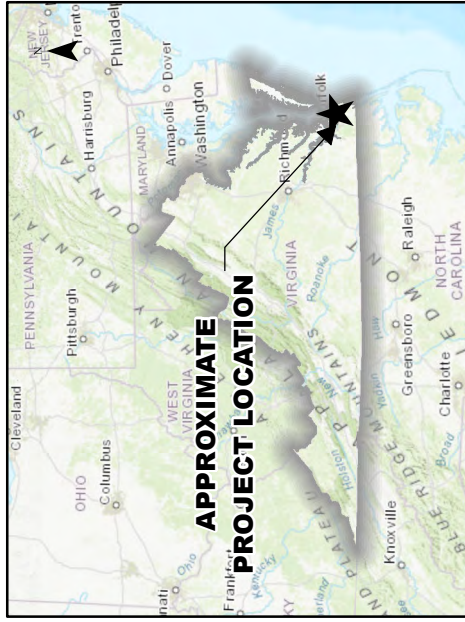
Date: 06/22/22



LEGEND

- - Existing Line #2019
- Existing Line #2007
- Existing Structure 2019/20
- Existing Substation
- Limited Access Highway
- US or VA Primary Highway
- Local or Main Road
- Railroad
- County Boundary
- NHD Stream/River
- NHD Waterbody

- Notes:
1. Basemap from ESRI Topographic Map
 2. Project centerline provided by Dominion Energy
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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com

June 30, 2022

BY EMAIL

Ms. Martha Little
Virginia Outdoors Foundation
600 East Main Street, Suite 402
Richmond, Virginia 23219

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Ms. Little,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

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The Company is in the process of preparing an application for a certificate of public convenience and necessity ("CPCN") from the State Corporation Commission of Virginia (the "Commission"). At this time, in advance of filing an application for a CPCN from the Commission, the Company respectfully requests that you submit any comments or additional information that would have bearing on the proposed Rebuild Project within 30 days of the date of this letter. If you would like to receive a GIS shapefile of the transmission line routes to assist in the project review or if there are any questions, please do not hesitate to contact me at (804) 239-6450 or charles.h.weil@dominionenergy.com.

We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia



Charles H. Weil, PE
Siting and Permitting Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

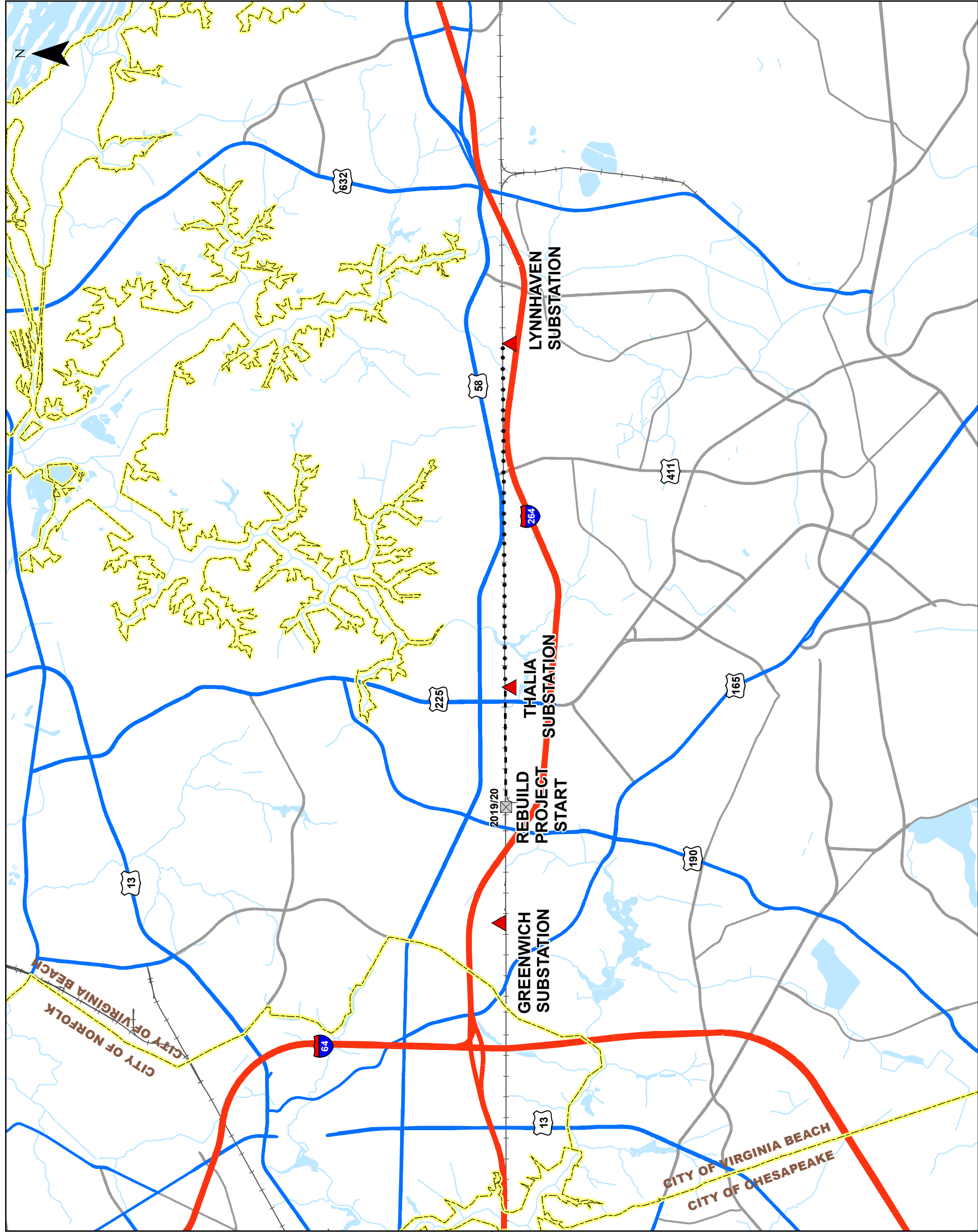
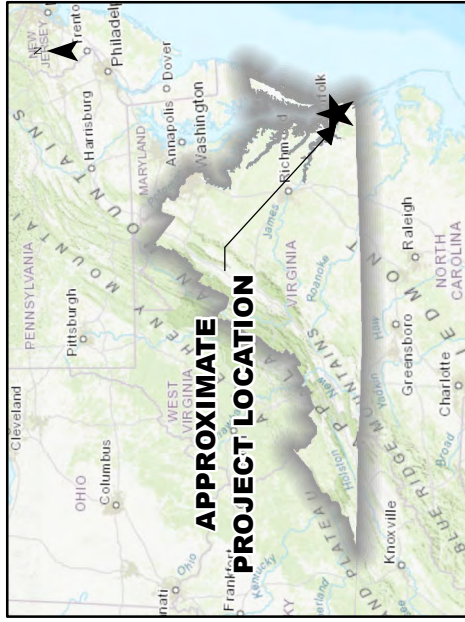
Date: 06/22/22



LEGEND

- - Existing Line #2019
- Existing Line #2007
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- NHD Waterbody

- Notes:
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June 30, 2022

Mr. Conrad Spencer, III
Virginia Department of Mine, Minerals, and Energy
1100 Bank Street
Washington Building, 8th Floor
Richmond, Virginia 23219

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Mr. Spencer,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

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We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia

Charles H. Weil, PE
Siting and Permitting Services

Enclosed: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

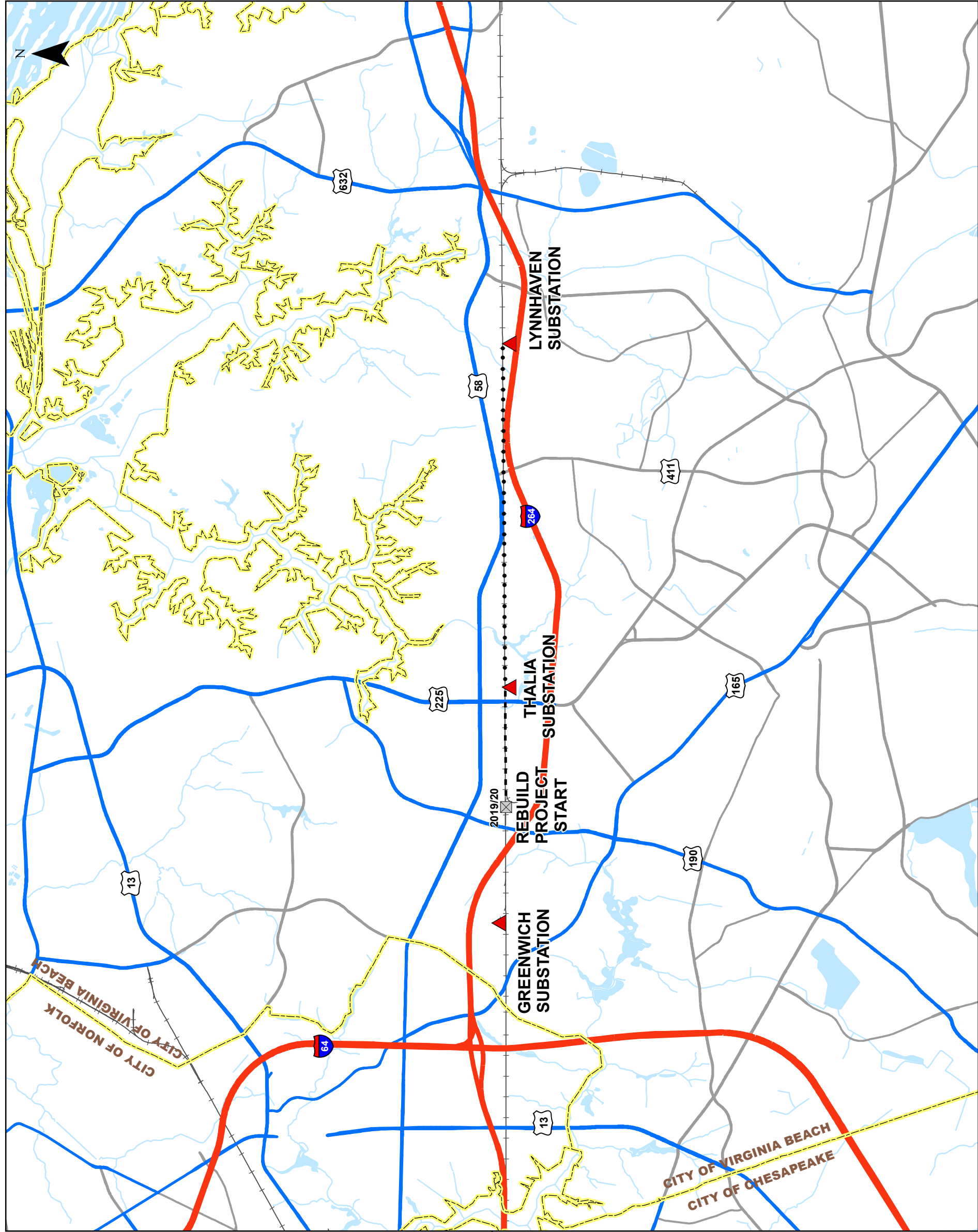
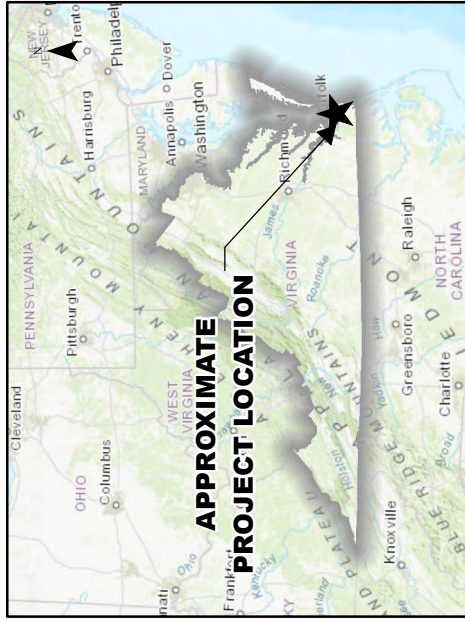
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LEGEND

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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com



June 29, 2022

BY EMAIL

Mr. Troy Andersen
US Fish and Wildlife Service
Ecological Services Virginia Field Office
6669 Short Lane
Gloucester, Virginia 23061

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Mr. Andersen,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

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We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia

A handwritten signature in black ink, appearing to read "J-P E".

Jason P. Ericson
Director, Environmental Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

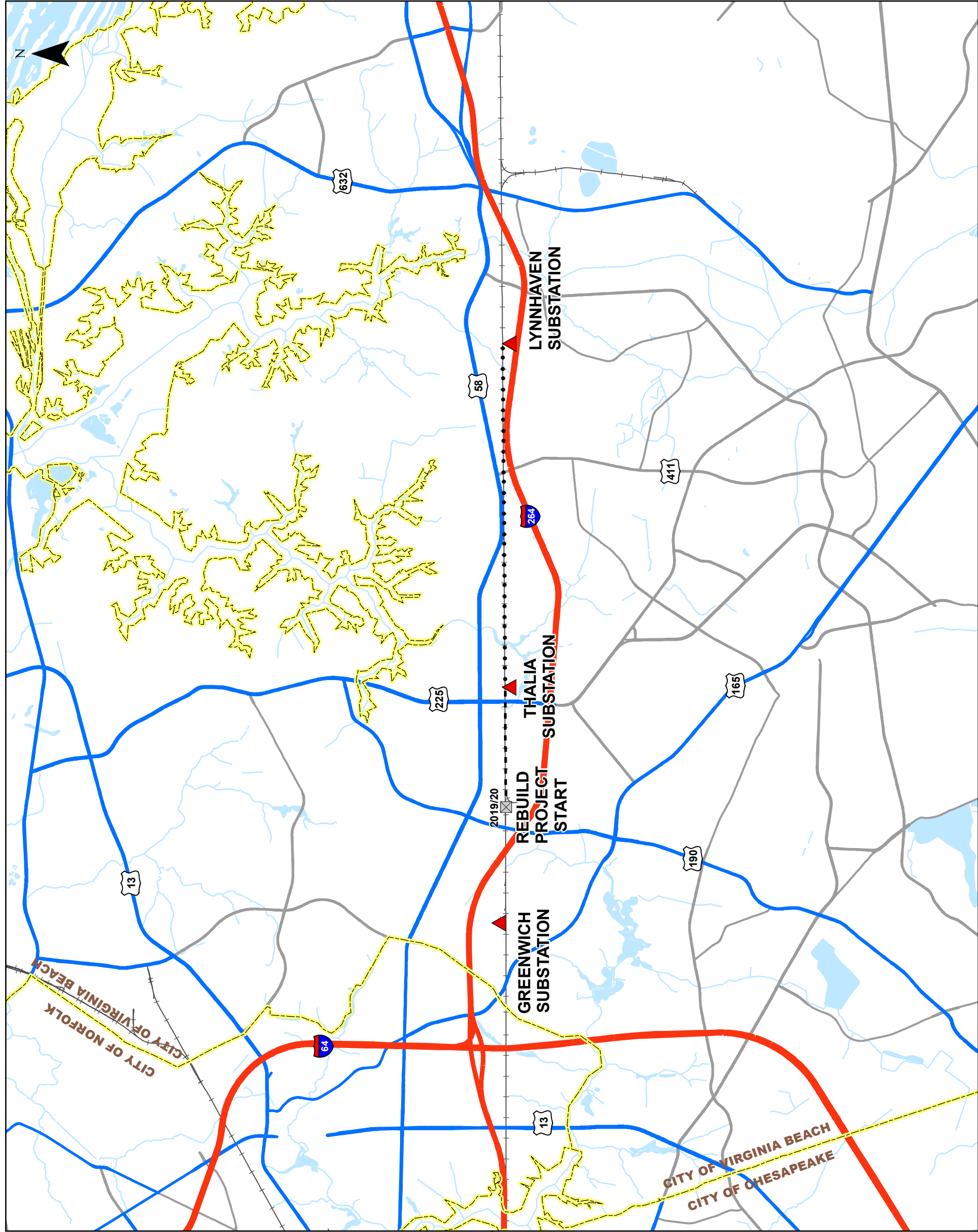
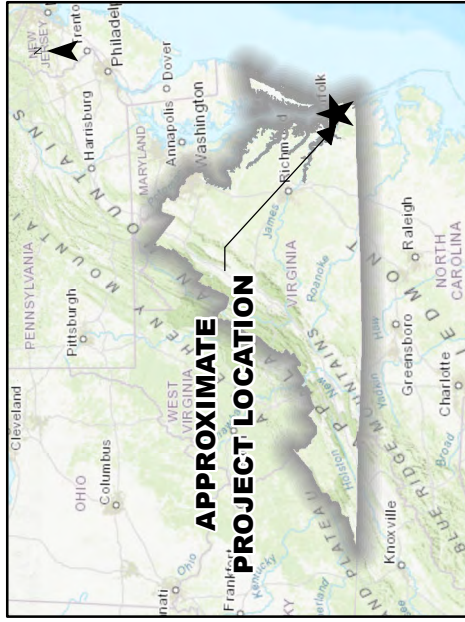
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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com



June 29, 2022

BY EMAIL

Ms. Tiffany Birge
Habitat Management Division
Virginia Marine Resources Commission
Building 96, 380 Fenwick Road
Fort Monroe, Virginia 23651

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Ms. Birge,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

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Jason P. Ericson
Director, Environmental Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

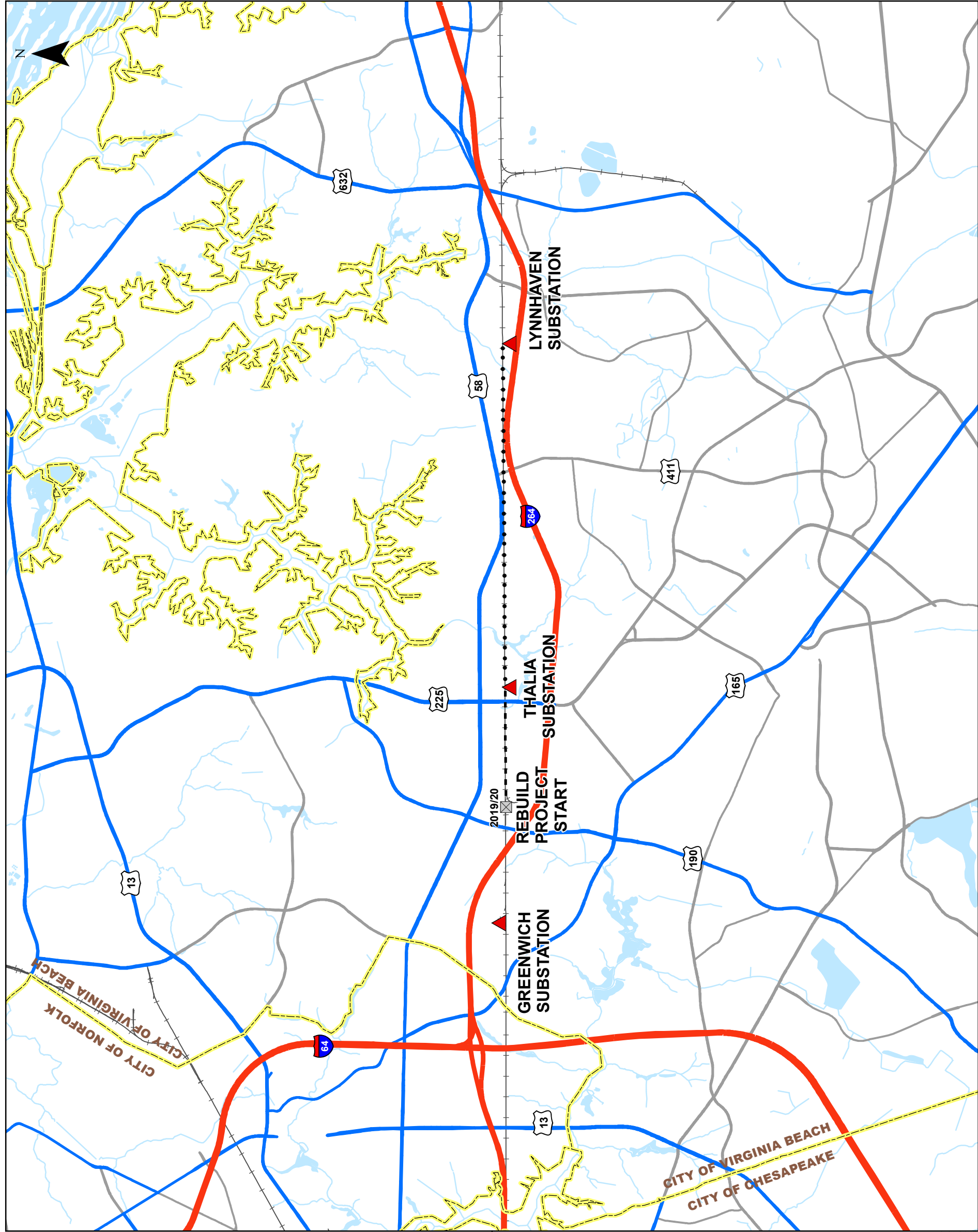
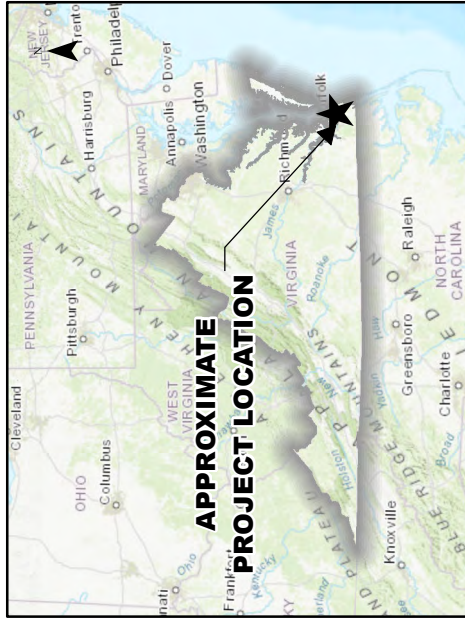
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- Notes:
1. Basemap from ESRI Topographic Map
 2. Project centerline provided by Dominion Energy
 3. Roads and railroads from VGIN
 4. Streams, rivers and waterbodies from USGS National Hydrography Data



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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com



June 29, 2022

BY EMAIL

Mr. Karl Didier, PhD
Forestland Conservation Division
Virginia Department of Forestry
900 Natural Resources Drive, Suite 800
Charlottesville, Virginia 22903

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Mr. Didier,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

Specifically, as part of the Rebuild Project, the Company is proposing to rebuild an approximately 1.17-mile segment of 230 kV Greenwich-Thalia Line #2019 from Structure #2019/20 to the Company's existing Thalia Substation and rebuild the entire approximately 3.37-mile 230 kV Lynnhaven-Thalia Line #2007 between the Company's existing Lynnhaven and Thalia Substations. The Rebuild Project will include replacement of structures, as well as conductors and shield wire, within the existing right-of-way. Additionally, the Rebuild Project will require work at the Company's existing Greenwich, Thalia and Lynnhaven Substations.

The Company is in the process of preparing an application for a certificate of public convenience and necessity ("CPCN") from the State Corporation Commission of Virginia (the "Commission"). At this time, in advance of filing an application for a CPCN from the Commission, the Company respectfully requests that you submit any comments or additional information that would have bearing on the proposed Rebuild Project within 30 days of the date of this letter. If you would like to receive a GIS shapefile of the transmission line routes to assist in the project review or if there are any questions, please do not hesitate to contact Stacey Ellis at (434) 532-9034 or Stacey.T.Ellis@DominionEnergy.com.

We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia

A handwritten signature in black ink, appearing to read "J-P E".

Jason P. Ericson
Director, Environmental Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

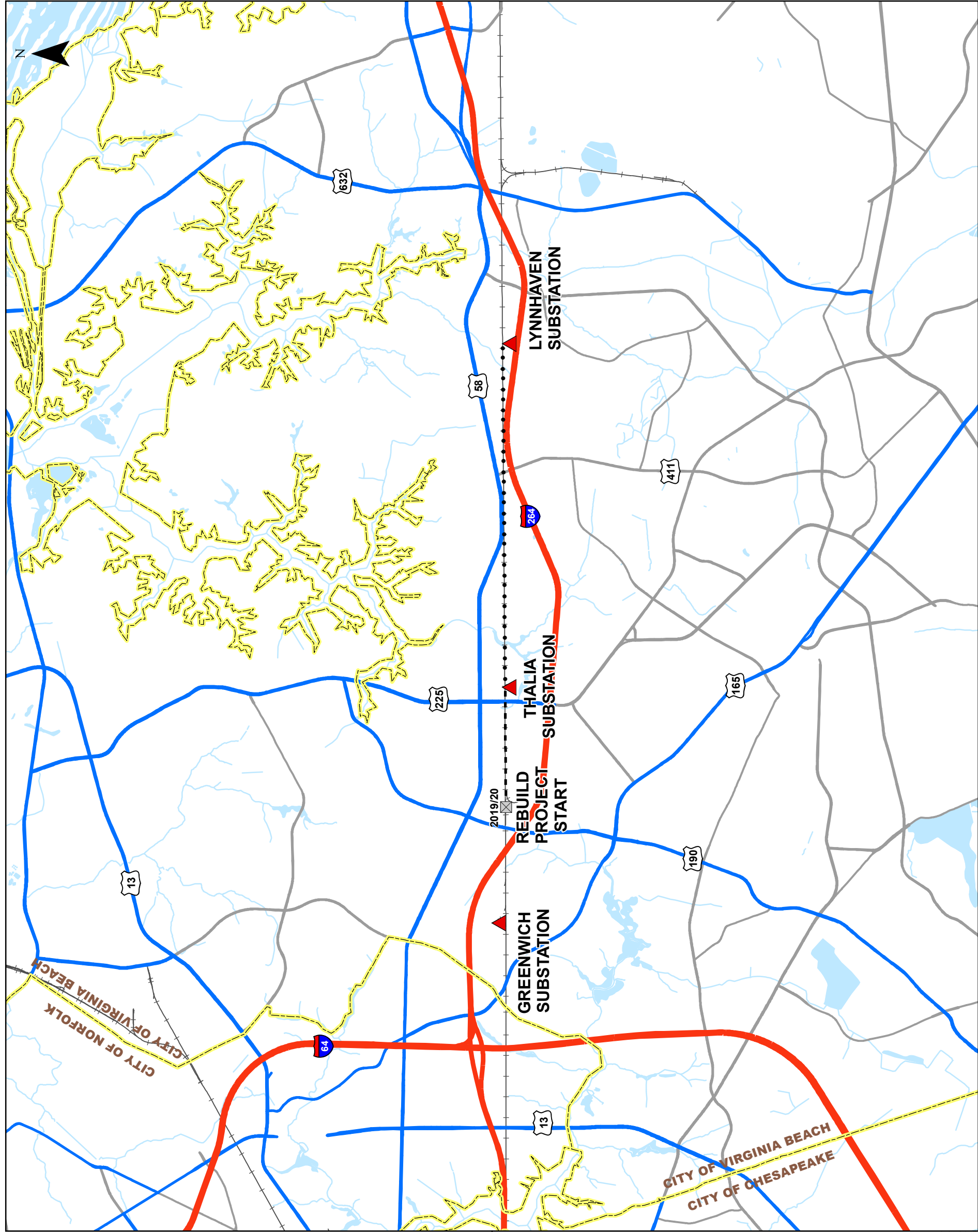
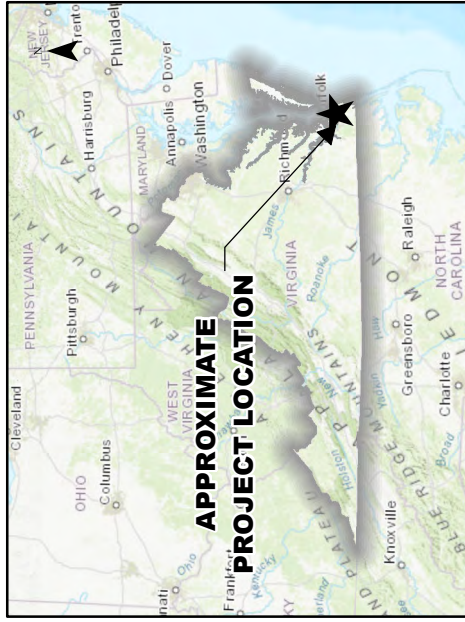
Date: 06/22/22



LEGEND

- - Existing Line #2019
- Existing Line #2007
- Existing Structure 2019/20
- Existing Substation
- Limited Access Highway
- US or VA Primary Highway
- Local or Main Road
- Railroad
- County Boundary
- NHD Stream/River
- NHD Waterbody

- Notes:
1. Basemap from ESRI Topographic Map
 2. Project centerline provided by Dominion Energy
 3. Roads and railroads from VGIN
 4. Streams, rivers and waterbodies from USGS National Hydrography Data



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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com



June 29, 2022

BY EMAIL

Ms. Michelle Henicheck
Office of Wetlands and Streams
Department of Environmental Quality
1111 East Main Street, Suite 1400
Richmond, Virginia 23219

**RE: Dominion Energy Virginia’s Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Ms. Henicheck,

Dominion Energy Virginia (the “Company”) is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the “Rebuild Project”). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

Specifically, as part of the Rebuild Project, the Company is proposing to rebuild an approximately 1.17-mile segment of 230 kV Greenwich-Thalia Line #2019 from Structure #2019/20 to the Company’s existing Thalia Substation and rebuild the entire approximately 3.37-mile 230 kV Lynnhaven-Thalia Line #2007 between the Company’s existing Lynnhaven and Thalia Substations. The Rebuild Project will include replacement of structures, as well as conductors and shield wire, within the existing right-of-way. Additionally, the Rebuild Project will require work at the Company’s existing Greenwich, Thalia and Lynnhaven Substations.

The Company is in the process of preparing an application for a certificate of public convenience and necessity (“CPCN”) from the State Corporation Commission of Virginia (the “Commission”). Pursuant to the July 2003 Memorandum of Agreement between the Commission and the Department of Environmental Quality (the “DEQ”) regarding Wetlands Impact Consultation, Dominion Energy Virginia is sending this letter to initiate consultation with the DEQ prior to filing an application for a CPCN from the Commission.

A wetland delineation has not been conducted at this time. However, C2 Environmental, Inc. conducted a wetland desktop study to identify probable wetlands based on a review of multiple data sources. Table 1 below provides a summary of the wetlands expected to be affected within the Rebuild Project right-of-way.

Table 1: Estimated jurisdictional resources within the Rebuild Project Right-of-Way

Resource	Area/Length (±)
Palustrine Emergent/ Scrub Shrub Wetland	4.4 Acres
Estuarine Emergent/ Scrub Shrub Wetland	0.2 Acres
Non-Tidal Stream Channel	0.2 Acres/ 1,807 Linear Feet
Tidal Stream Channel	0.1 Acres/ 110 Linear Feet

The full Wetland Desktop Study is also attached for review. Subsequently, a wetland delineation will be conducted, and the limits of wetlands of other waters of the United States will be submitted to the U.S. Army Corps of Engineers for confirmation.

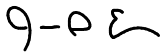
Dominion Energy Proposed Rebuild
Line #2019 and Line #2007
06/29/2022
Page 2 of 2

At this time, in advance of filing an application with the Commission, the Company respectfully requests that you submit any comments or additional information that would have bearing on the proposed Rebuild Project within 30 days of the date of this letter. If you would like to receive a GIS shapefile of the transmission line routes to assist in the project review or if there are any questions, please do not hesitate to contact Stacey Ellis at (434) 532-9034 or Stacey.T.Ellis@DominionEnergy.com.

We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia



Jason P. Ericson
Director, Environmental Services

Attachment:

1. Project Notice Map
2. Wetland Desktop Study

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

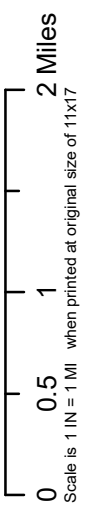
Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

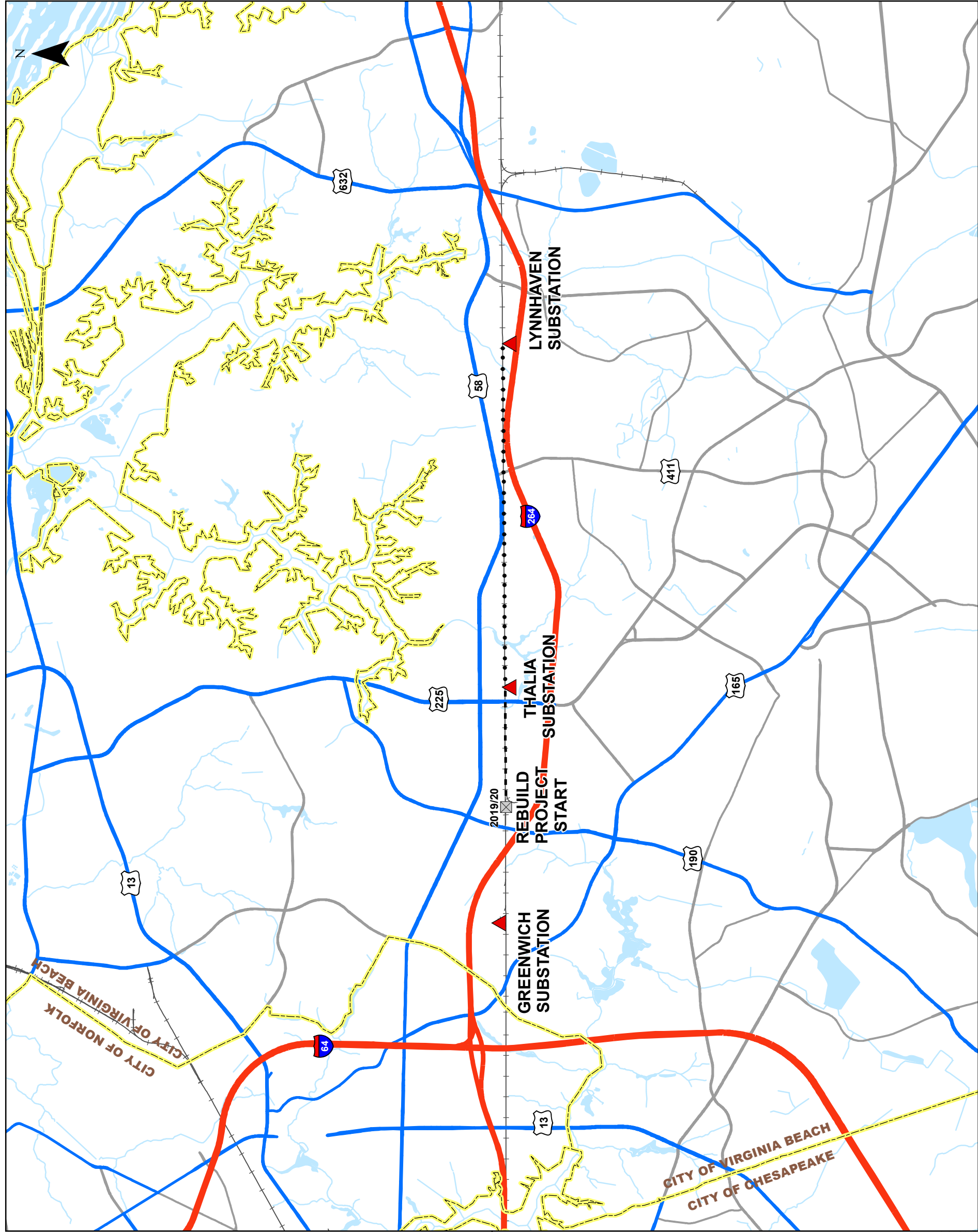
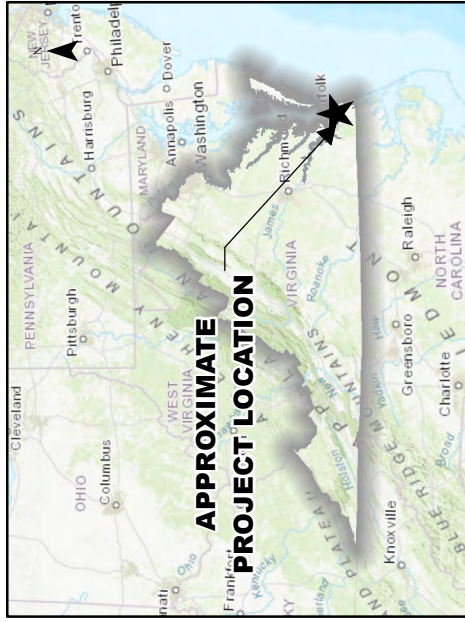
Date: 06/22/22



LEGEND

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- Notes:
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DESKTOP WETLAND REVIEW
LINES #2019 AND #2007 REBUILD

City of Virginia Beach, Virginia

Prepared For:

Dominion Energy Virginia
c/o Stacey Ellis
120 Tredegar Street
Richmond, Virginia 23219

Prepared By:

C2 Environmental, Inc.
11846 Rock Landing Drive, Suite A
Newport News, Virginia 23606
Project No. 0233

June 2022

TABLE OF CONTENTS

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1.0 Introduction.....	1
2.0 Desktop Data Sources	1
3.0 Methodology and Wetland Occurance Probability	1
4.0 Results.....	2
5.0 Conclusion	2

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Table 2. Results of Desktop Wetland Review	2

APPENDICES

Appendix A: Project Graphics

1.0 INTRODUCTION

C2 Environmental (C2 Env) has been retained by Dominion Energy Virginia (Dominion) to complete a desktop wetland review on the project known as Lines #2019 and #2007 Rebuild. The approximate 4.54-mile, 41.88-acre project area consists of an existing transmission line right-of-way (ROW) located in the City of Virginia Beach, Virginia. The project area originates at the intersection of Southern Boulevard and Pennsylvania Avenue and generally runs to the east, terminating at the Lynnhaven Substation located south of Pinewood Drive and north of Ansol Lane.

It should be noted that this study does not include any on-site wetland delineation field investigations utilizing the *1987 Army Corps of Engineers Wetland Delineation Manual* in conjunction with the *2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic Gulf Coastal Plain Region (version 2.0)*. Rather, publicly available data was used to identify the potential limits of wetlands and other Waters of the U.S. (WOUS).

2.0 DESKTOP DATA SOURCES

Resources used to complete the desktop review include the following:

- VGIN aerial imagery dated 2021;
- VGIN infrared imagery dated 2021;
- Google Earth historic imagery ranging from 1994 to 2021;
- U.S. Geologic Survey (USGS) topographic maps;
- USGS Digital Elevation Model (DEM) 2-foot contour data;
- U.S. Department of Agriculture National Resources Conservation Service (USDA-NRCS) hydric soil survey data;
- U.S. Fish and wildlife service (USFWS) National Wetland Inventory (NWI) wetland mapping;
- Federal Emergency Management Agency (FEMA) 100-year floodplain maps.

3.0 METHODOLOGY AND WETLAND OCCURANCE PROBABILITY

Using the available infrared and aerial imagery along with the DEM and USGS topography, potential wetland areas were identified within the study area. The areas identified using the aerial imagery were typically darker in color, which is indicative of inundation or saturated soil conditions associated with wetlands. In many instances these dark signature areas are confined to concave landscapes as defined by the topography. However, wetland occurrence is not limited to concave landforms and can occur in flat landscapes. A probability of occurrence was assigned to each potential wetland based upon the presence or absence of additional supporting data layers including USDA-NRCS hydric soil data, NWI wetland mapping, and FEMA 100-year floodplain maps. Table 1 lists the probability criteria of wetland occurrence based upon the number of layers present in a given area. It should be noted that streams have not been assigned a probability of occurrence and have been identified based upon their consistent presence in multiple years of aeriels.

Table 1: Criteria for Probability of Wetland Occurrence

Probability	Criteria
Low	Areas identified with only topography and aerials.
Medium	Areas identified with topography and aerials with one additional data source (NRCS hydric soil mapping, NWI wetland mapping, or FEMA 100-year floodplain maps).
High	Areas identified with topography and aerials with two or more additional data sources (NRCS hydric soil mapping, NWI wetland mapping, or FEMA 100-year floodplain maps).

4.0 RESULTS

The results of the desktop wetland review are provided in the Desktop Wetland Review Map (Appendix A). The Cowardin Classification of the wetlands within the project area have been combined into palustrine scrub-shrub (PSS) / palustrine emergent wetlands (PEM) and not separated. This is due to the fact that the study area is within a maintained ROW, and it is difficult to differentiate between scrub-shrub and emergent wetlands even with the highest resolution aerials. Furthermore, the distinction between tidal and non-tidal streams and wetlands has been made based on review of the NWI and USGS Topographic Maps as well as elevation data. Table 2 lists wetland acreages by probability as well as stream channels.

Table 2: Results of Desktop Wetland Review

	Low	Medium	High	Total
PEM/PSS Wetlands	1.2 AC	2.7 AC	0.5 AC	4.4 AC
E2EM/E2SS Wetlands			0.2 AC	0.2 AC
Tidal Stream Channels				0.1 AC (110 LF)
Non-Tidal Stream Channels				0.2 AC (1,807 LF)

5.0 CONCLUSION

C2 Env performed a Desktop Wetland Review on the Lines #2019 and #2007 Rebuild project to determine the potential limits of wetlands and other WOUS within the project area using publicly available off-site resources. Prior to any land disturbing activities, C2 Env recommends a detailed delineation of wetland and other WOUS followed by confirmation by U.S. Army Corps of Engineers.

APPENDIX A

Project Graphics

DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

Client:
Dominion Energy Virginia

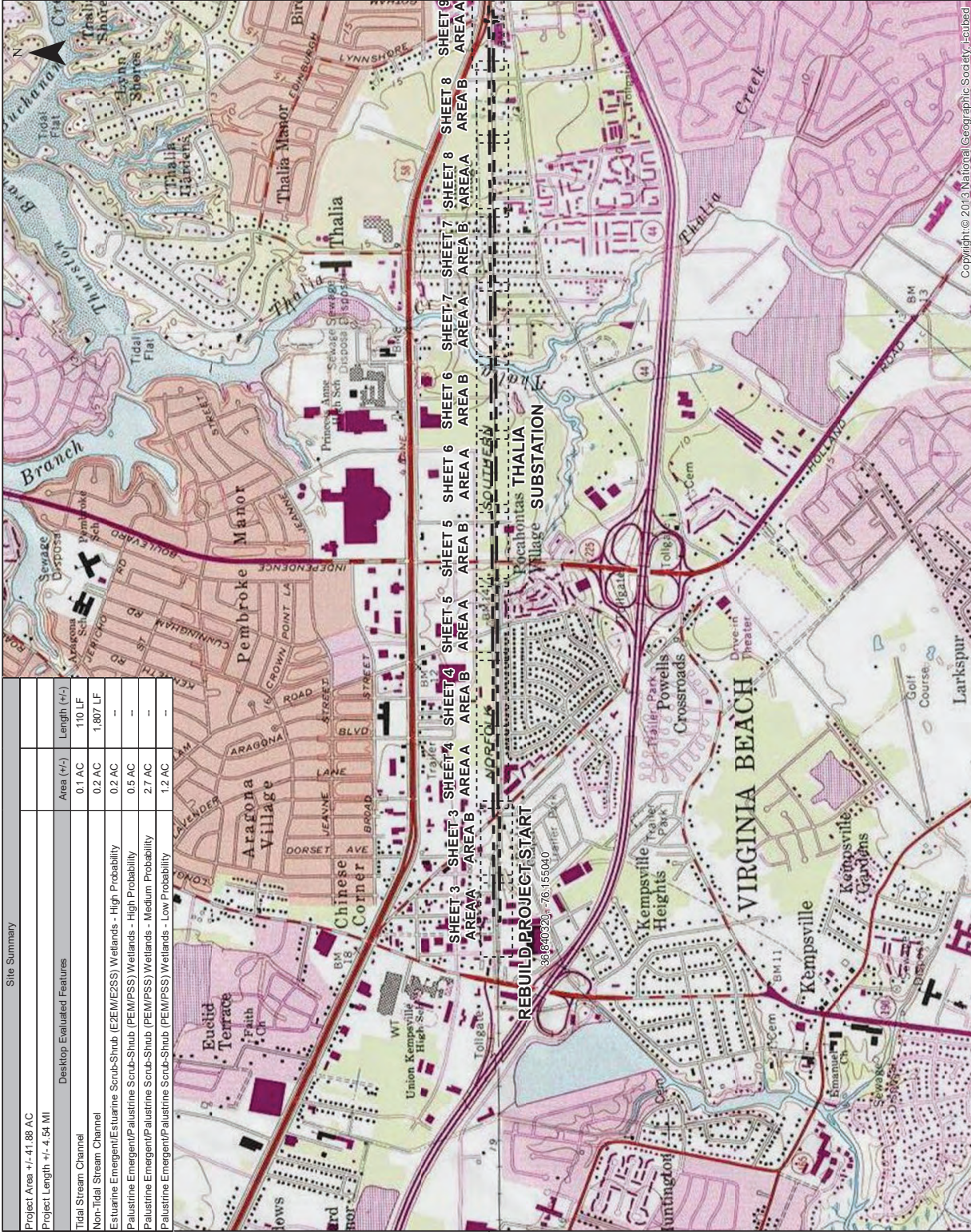
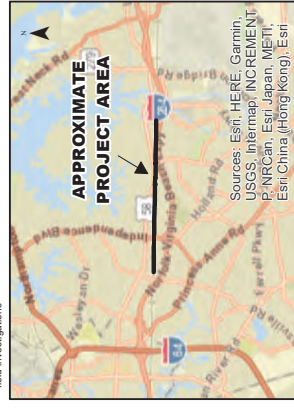
C2 Env Project: 0233
Prepared By: ELW
Date: 06/03/22

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0 750 1,500 3,000 Feet

SITE DATA

Project Area
Map Sheet

- Notes:**
1. Basemap from ESRI World Street Map, VGIN 2021 aerial imagery, USGS 1:250,000 topographic quad maps, and parcel data from VGIN.
 2. Road centerlines and parcels from VGIN.
 3. Project area and structure locations provided by Dominion Energy.
 4. Contours generated from USGS 1-meter DEM 409408 and 439408 Norfolk, VA.
 5. Wetland desktop evaluation was conducted by C2 Environmental Inc. during May 2022 using publicly available data. This study does not include any on-site wetland field investigations.



Site Summary

Project Area +/- 41.88 AC	Length +/- 4.54 MI	Area +/-	Length +/-
Desktop Evaluated Features		0.1 AC	110 LF
Tidal Stream Channel		0.2 AC	1,807 LF
Non-Tidal Stream Channel		0.2 AC	--
Estuarine Emergent/Estuarine Scrub-Shrub (E2EM/E2SS) Wetlands - High Probability		0.5 AC	--
Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - High Probability		2.7 AC	--
Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - Medium Probability		1.2 AC	--
Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - Low Probability		--	--

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Project: 2019-2007 Rebuild Project
Map Sheet: 27 of 51

DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

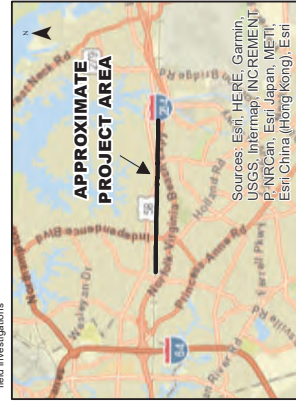
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0 750 1,500 3,000 Feet
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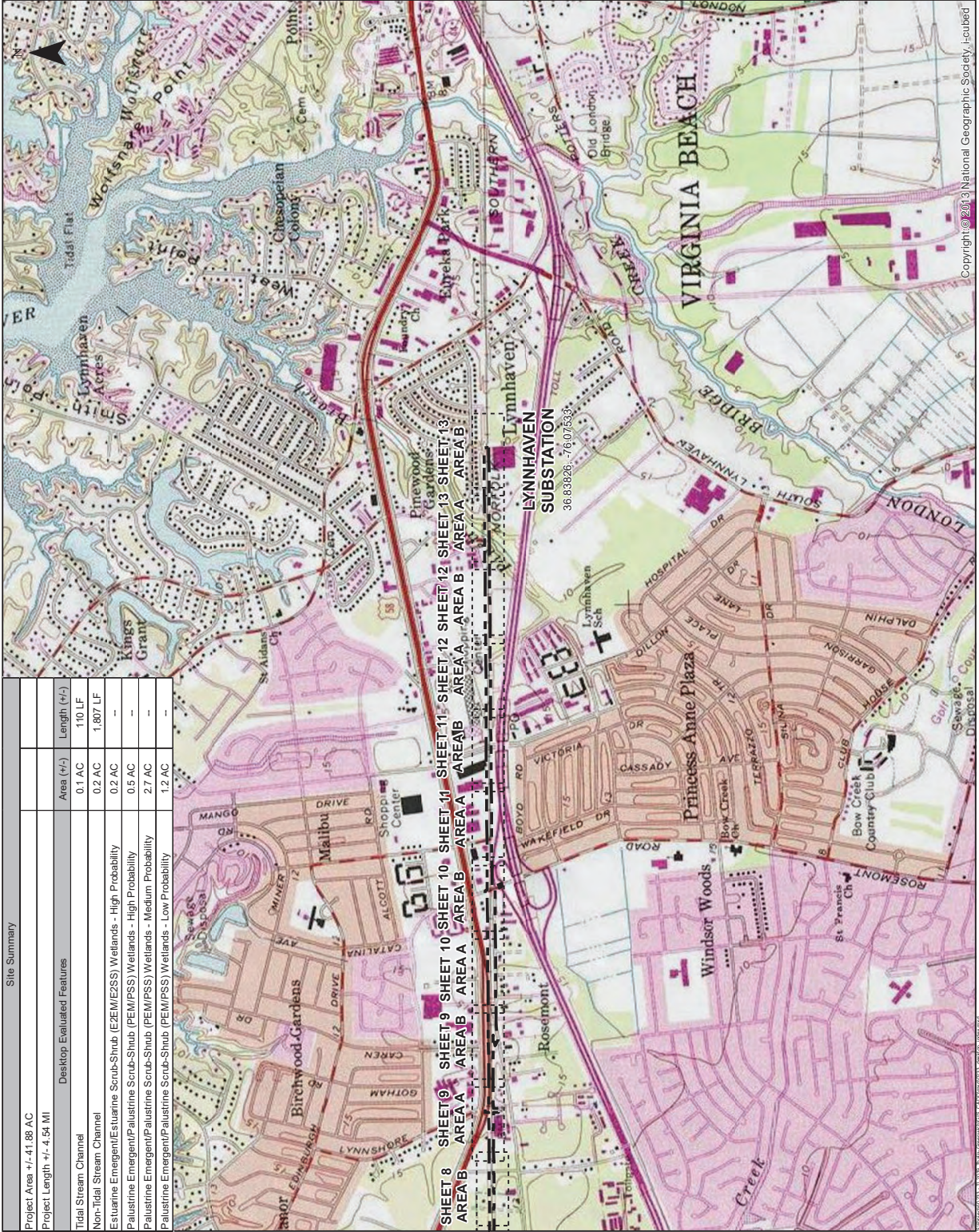
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- Notes:
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 5. Wetland desktop evaluation was conducted by C2 Environmental Inc. during May 2022 using publicly available data. This study does not include any on-site wetland field investigations



SHEET 2 OF 13

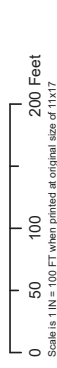


Site Summary			
Project Area +/- 41.88 AC	Area (+/-)	Length (+/-)	
Project Length +/- 4.54 MI	0.1 AC	110 LF	
Tidal Stream Channel	0.2 AC	1,807 LF	
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Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - Medium Probability	1.2 AC	--	
Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - Low Probability	--	--	

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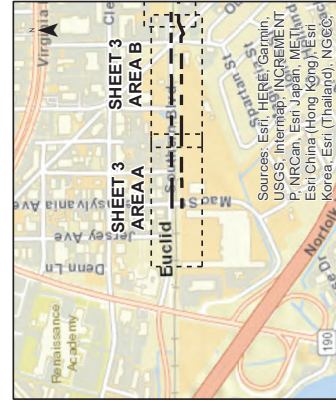
DESKTOP WETLAND REVIEW MAP

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City of Virginia Beach, Virginia
Client:
Dominion Energy/Virginia
C2 Env Project: 0233
Prepared By: ELW
Date: 06/03/22



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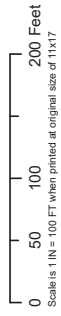
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- Existing 2 FT Contour
- Parcel Boundary



DESKTOP WETLAND REVIEW MAP

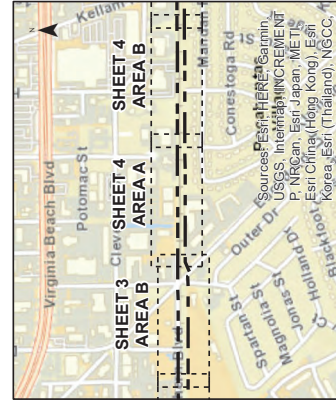
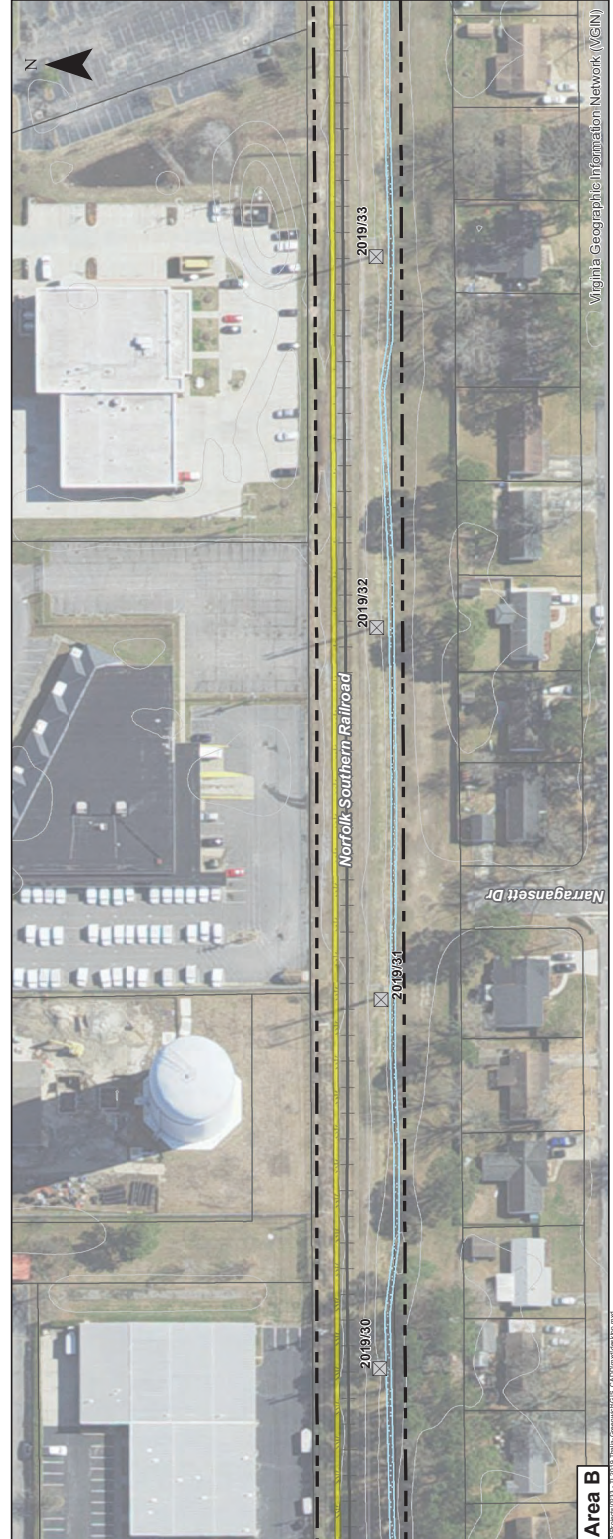
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City of Virginia Beach, Virginia

Client:
Dominion Energy/Virginia
C2 Env Project: ELW
Prepared By:
Date: 06/03/22



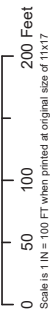
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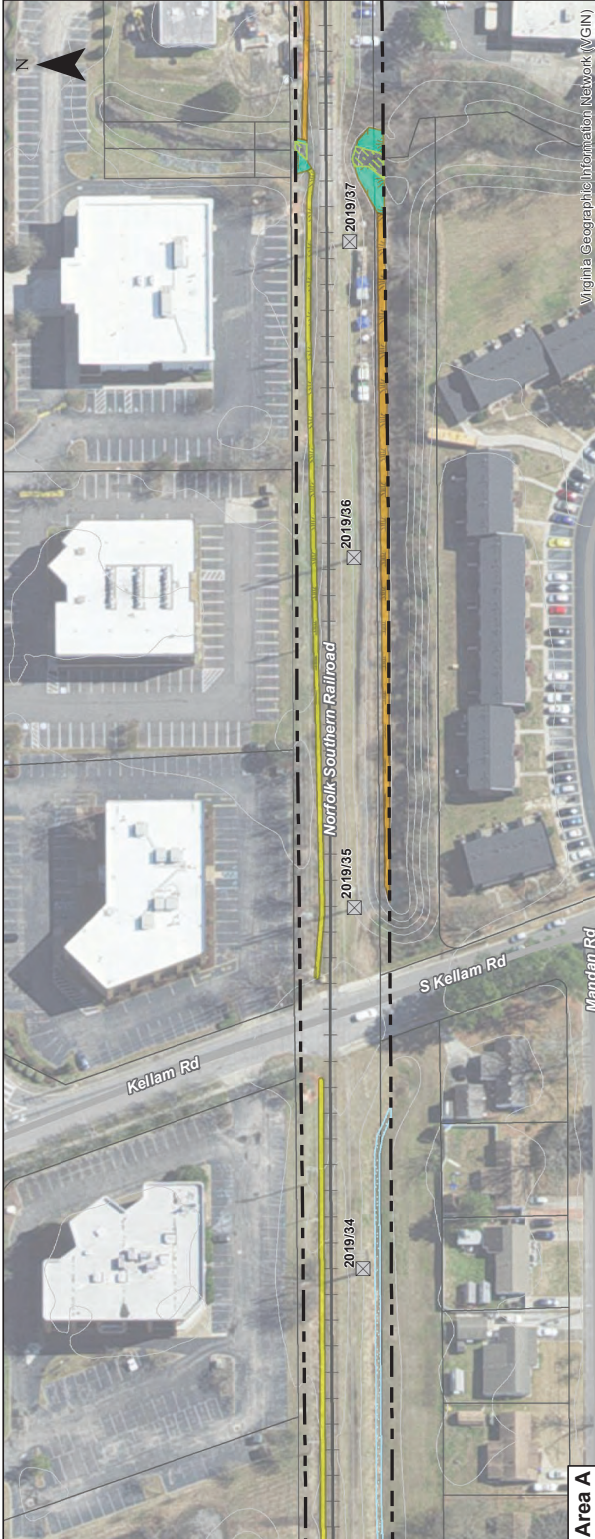
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City of Virginia Beach, Virginia
Client: Dominion Energy Virginia
Date: 06/03/22
C2 Env Project: ELW
Prepared By: ELW
0233

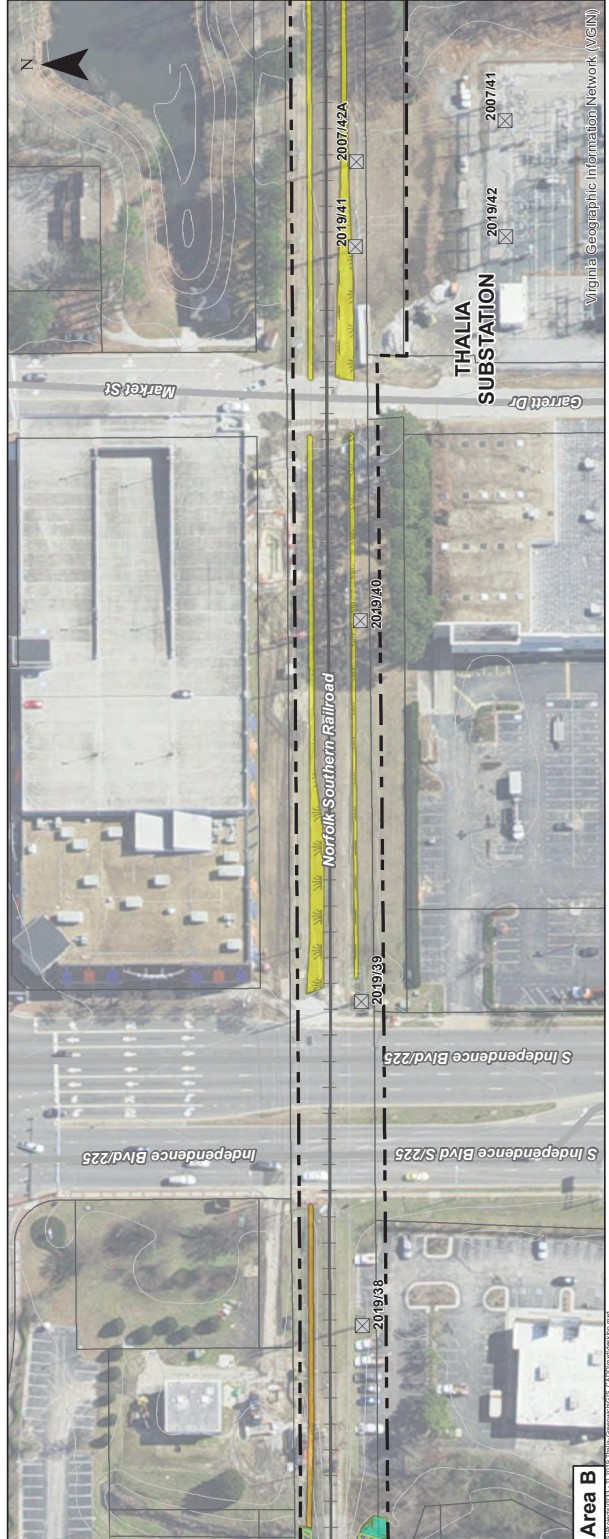


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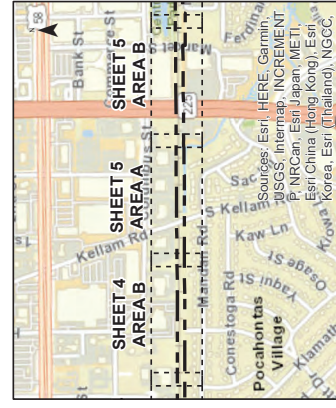
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- Parcel Boundary



Area A



Area B

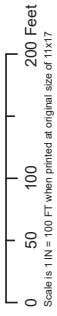


DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

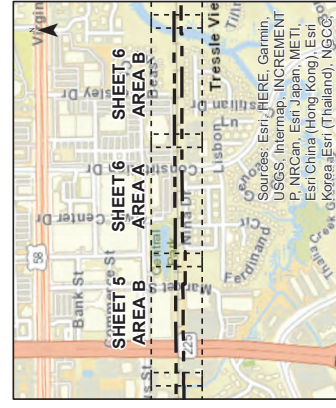
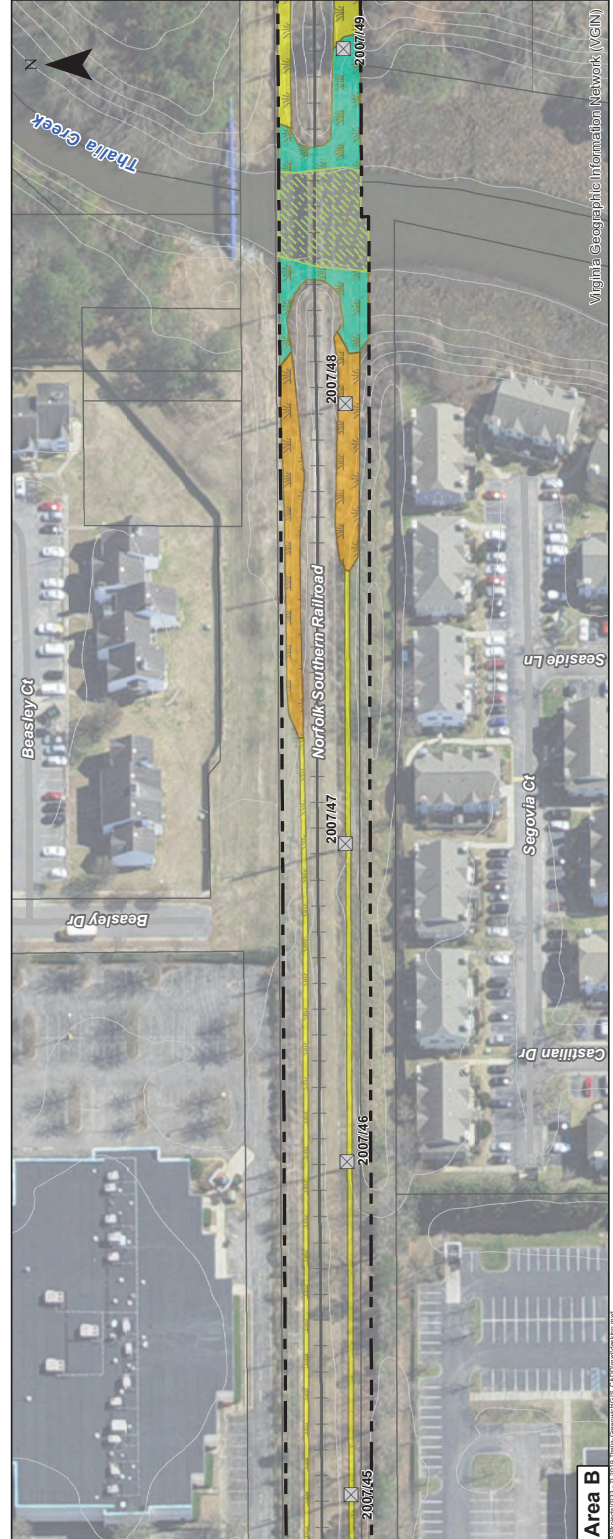
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Dominion Energy/Virginia

C2 Env Project: 0233
Prepared By: ELW
Date: 06/03/22



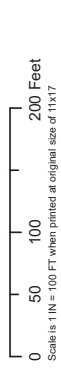
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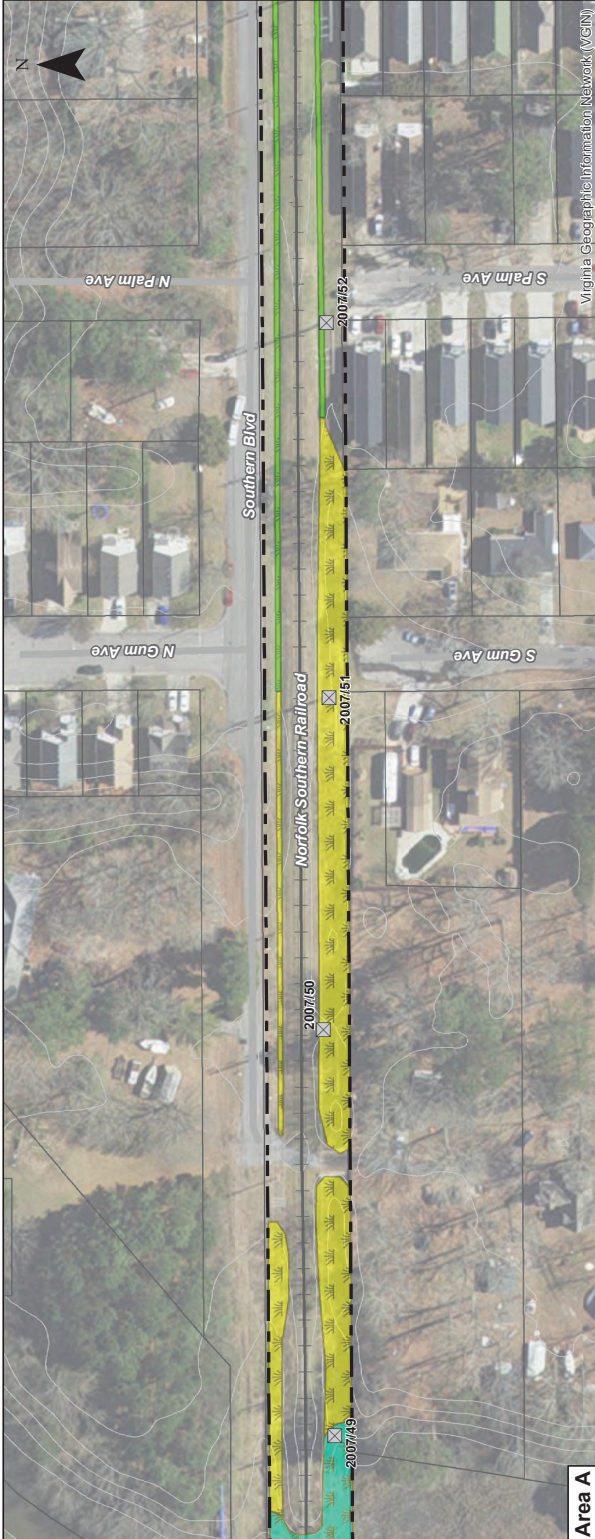
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Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia
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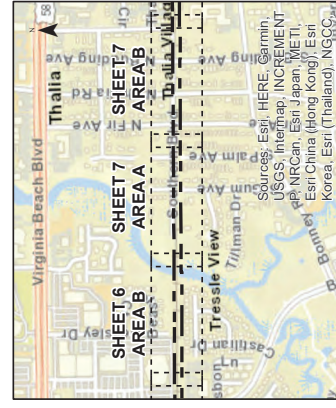
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Area A

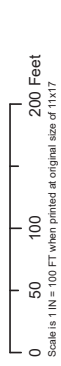


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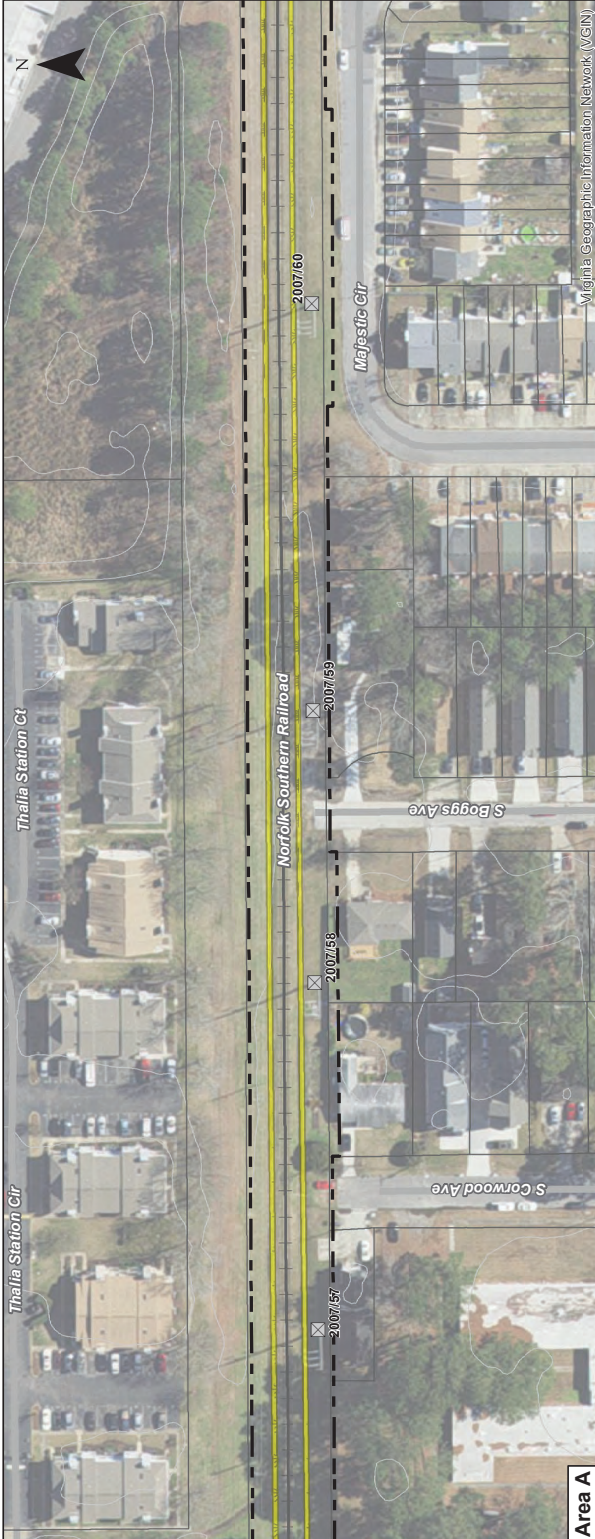
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City of Virginia Beach, Virginia
Client:
Dominion Energy/Virginia
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Prepared By: ELW
Date: 06/03/22

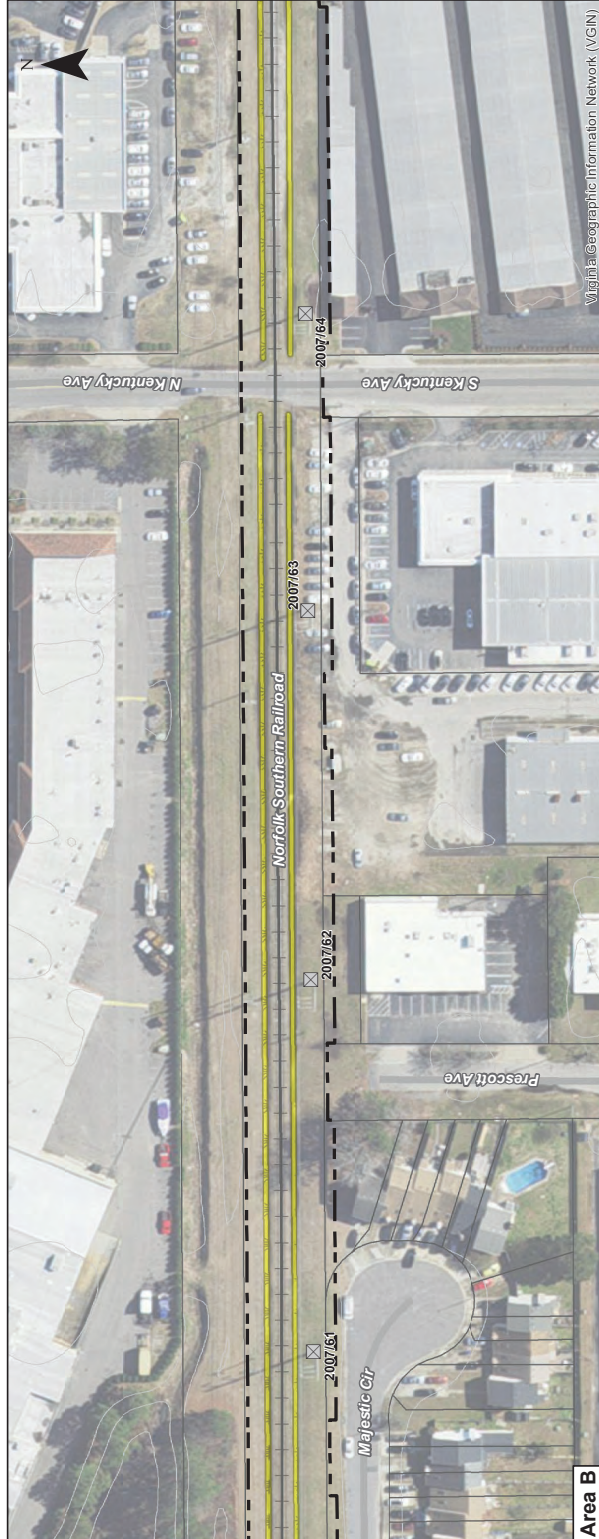


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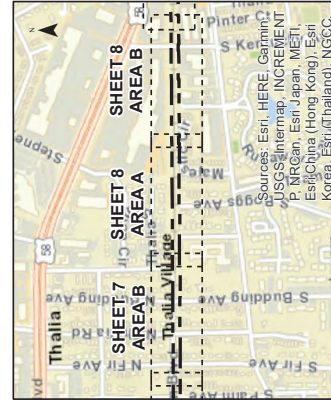
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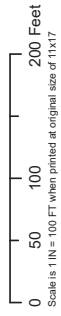


DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

Client:
Dominion Energy Virginia

C2 Env Project: 0233
Prepared By: ELW
Date: 06/03/22



SITE DATA

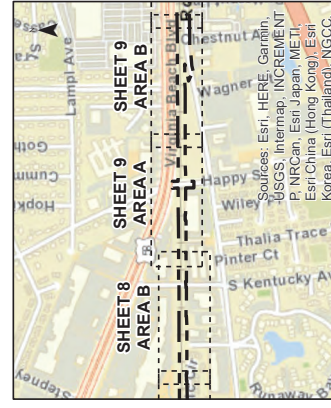
- Project Area
- Existing Structure Location
- Approximate Tidal Stream Channel Limits
- Approximate Non-Tidal Stream Channel Limits
- Approximate E2EM/EZSS Wetland Limits High Probability
- Approximate PEM/PSS Wetland Limits High Probability
- Approximate PEM/PSS Wetland Limits Medium Probability
- Approximate PEM/PSS Wetland Limits Low Probability
- Existing 2 FT Contour
- Parcel Boundary



Area A



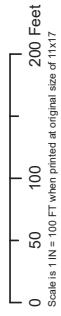
Area B



DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

Client: Dominion Energy Virginia
C2 Env Project: ELW
Prepared By: ELW
Date: 06/03/22

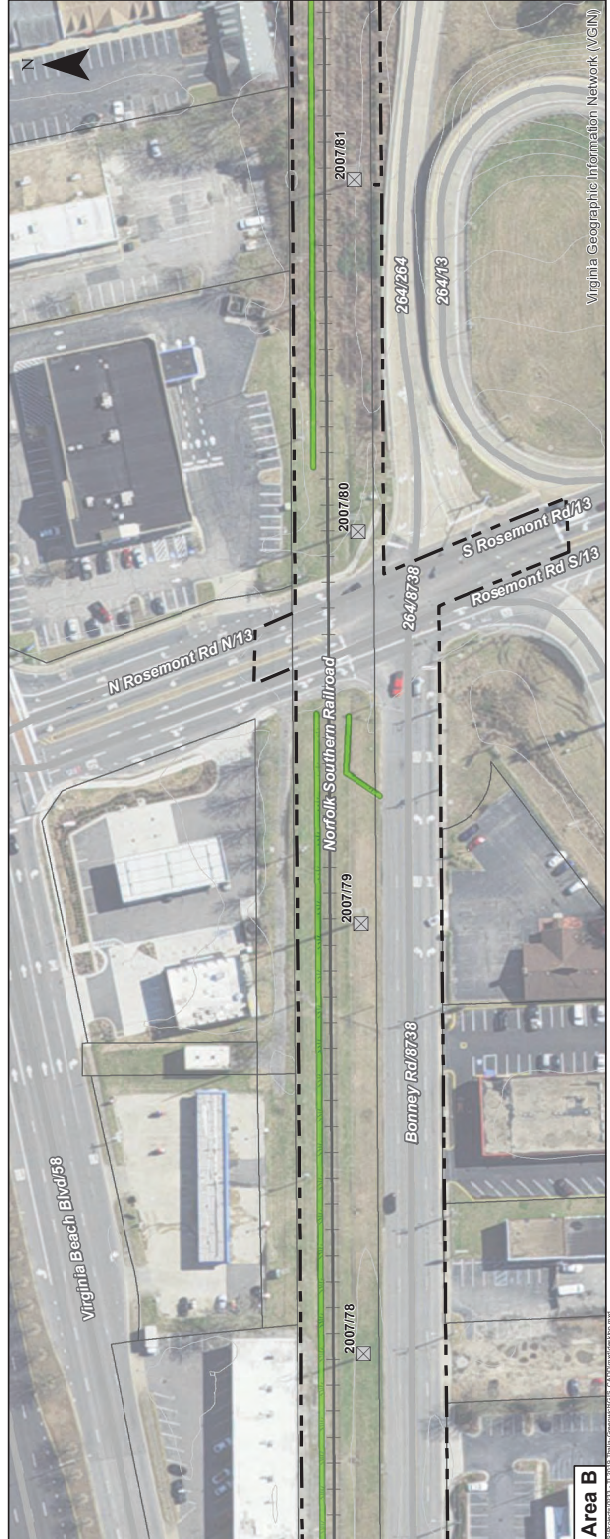


SITE DATA

- Project Area
- Existing Structure Location
- Approximate Tidal Stream Channel Limits
- Approximate Non-Tidal Stream Channel Limits
- Approximate E2EM/E2SS Wetland Limits High Probability
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Area A



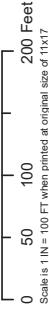
Area B



SHEET 10 OF 13

DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia
Client:
Dominion Energy/Virginia
C2 Env Project: ELW
Prepared By:
Date:
06/03/22

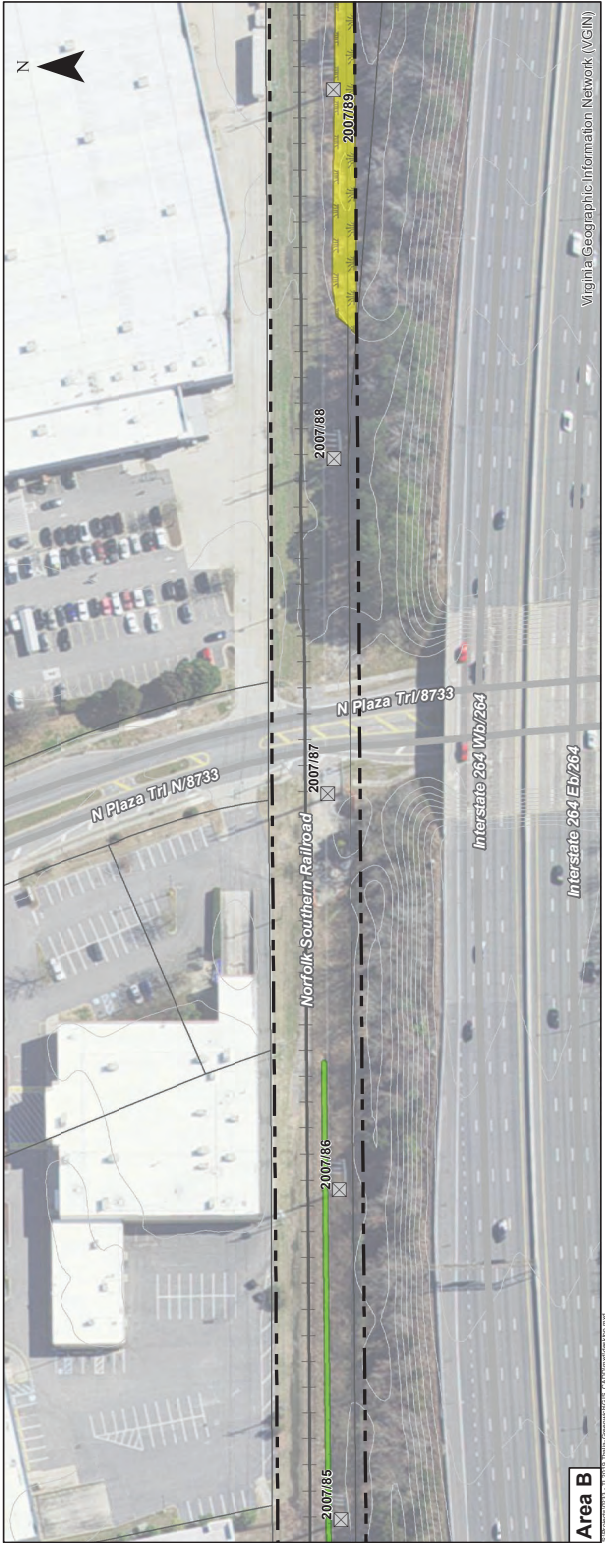


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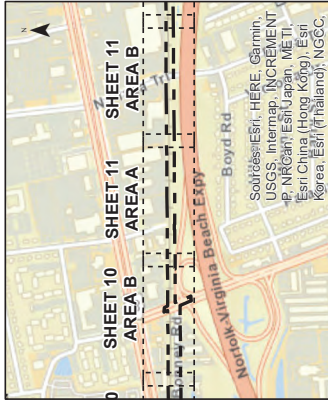
- Project Area
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- Parcel Boundary



Area A



Area B

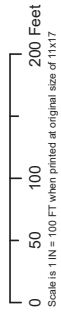


DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

Client:
Dominion Energy/Virginia

C2 Env Project: 0233
Prepared By: ELW
Date: 06/03/22



SITE DATA

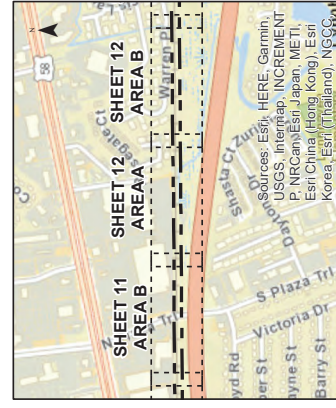
- Project Area
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- Existing 2 FT Contour
- Parcel Boundary



Area A



Area B



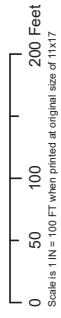
SHEET 12 OF 13

DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

Client:
Dominion Energy Virginia

C2 Env Project: 0233
Prepared By: ELW
Date: 06/03/22

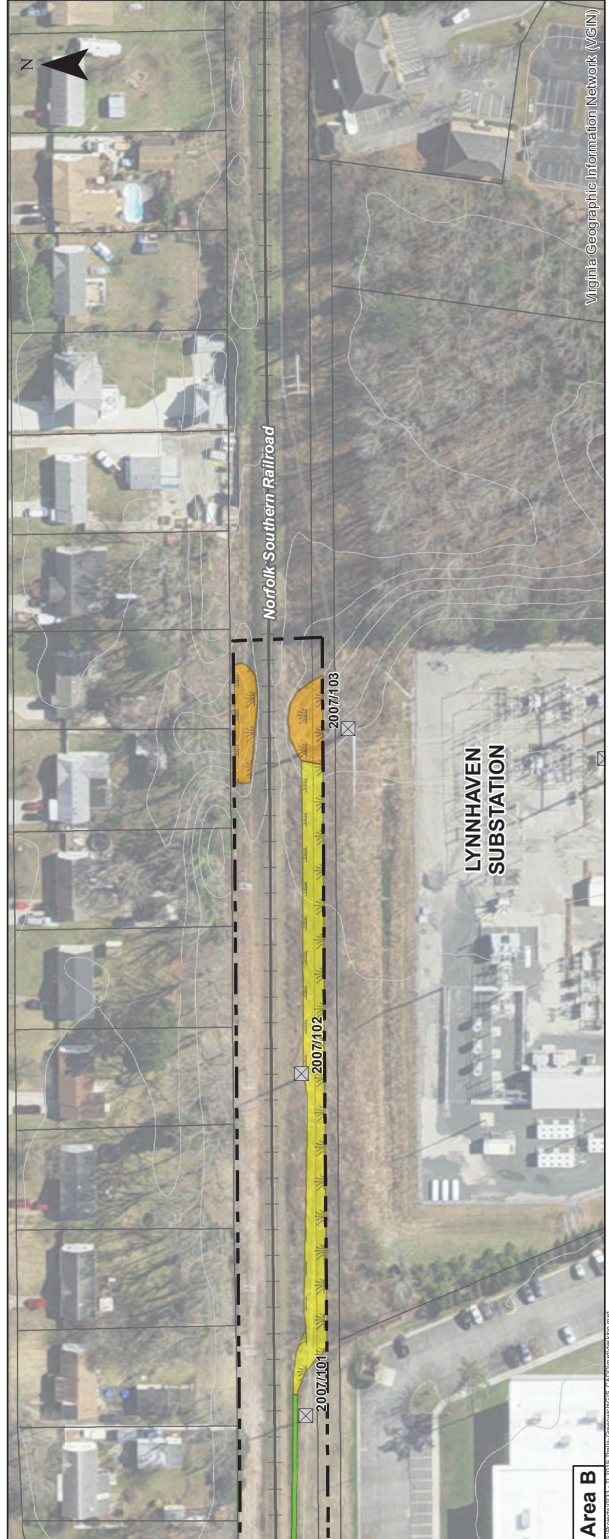


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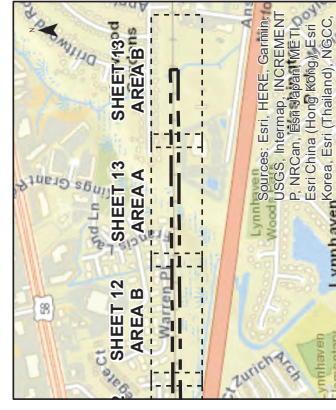
- Project Area
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- Approximate PEM/PSS Wetland Limits Medium Probability
- Approximate PEM/PSS Wetland Limits Low Probability
- Existing 2 FT Contour
- Parcel Boundary



Area A



Area B



Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com



June 29, 2022

BY EMAIL

Ms. Rene Hypes
Environmental Review Coordinator, Natural Heritage Program
Department of Conservation and Recreation
600 East Main Street, 24th Floor
Richmond, Virginia 23219

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Ms. Hypes,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

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We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia

A handwritten signature in black ink, appearing to read "J-P E".

Jason P. Ericson
Director, Environmental Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

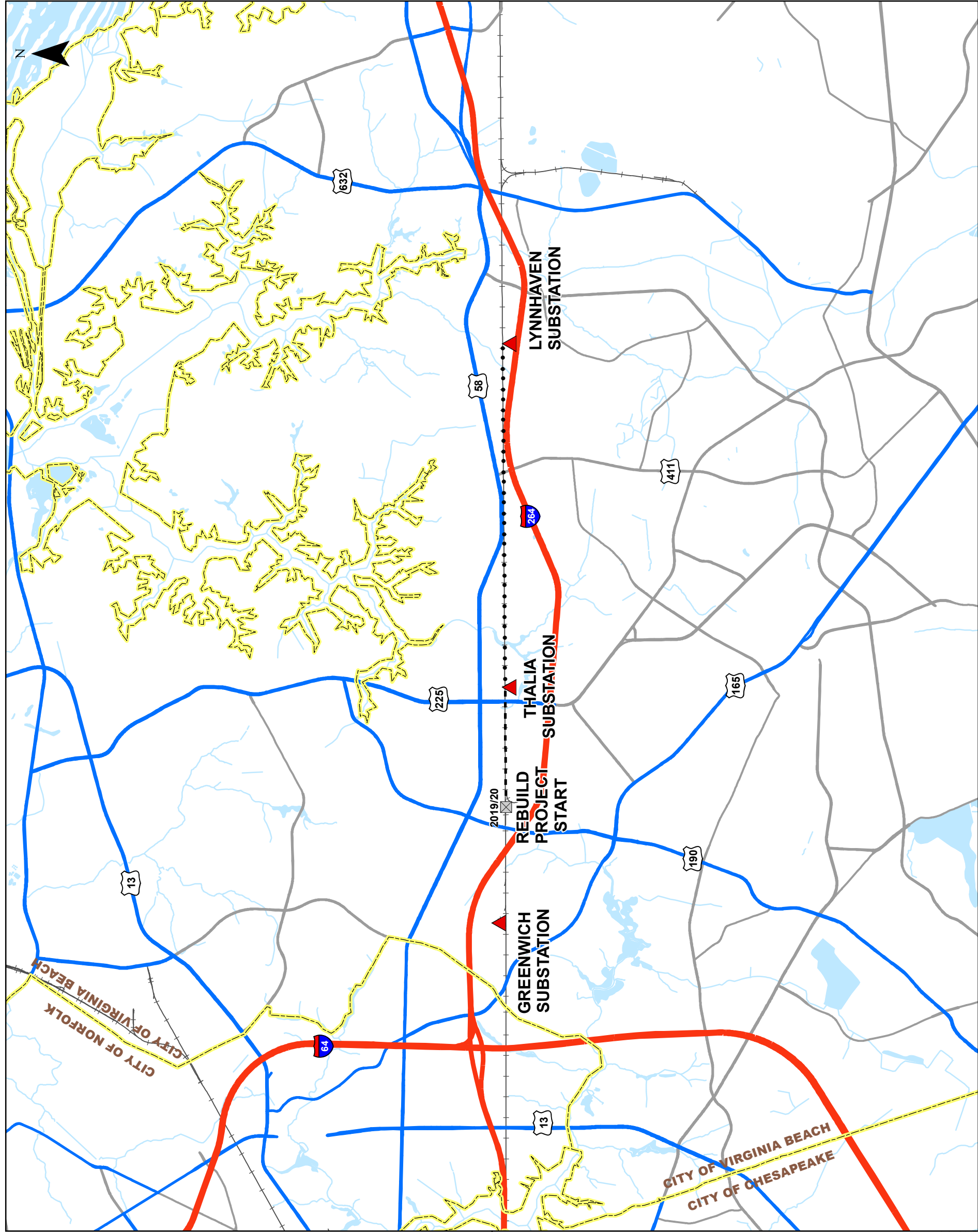
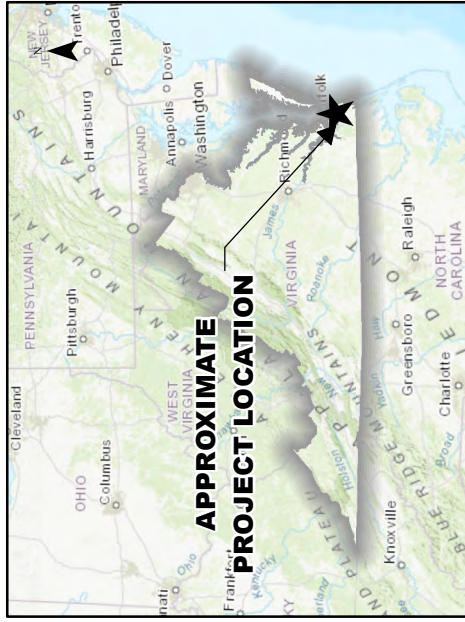
Date: 06/22/22



LEGEND

- - Existing Line #2019
- Existing Line #2007
- Existing Structure 2019/20
- Existing Substation
- Limited Access Highway
- US or VA Primary Highway
- Local or Main Road
- Railroad
- County Boundary
- NHD Stream/River
- NHD Waterbody

- Notes:
1. Basemap from ESRI Topographic Map
 2. Project centerline provided by Dominion Energy
 3. Roads and railroads from VGIN
 4. Streams, rivers and waterbodies from USGS National Hydrography Data



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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com



June 29, 2022

BY EMAIL

Mr. Pete Kube
U.S. Army Corps of Engineers
Norfolk District, Eastern Section
803 Front Street
Norfolk, Virginia 23510

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Mr. Kube,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

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We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia

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Jason P. Ericson
Director, Environmental Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

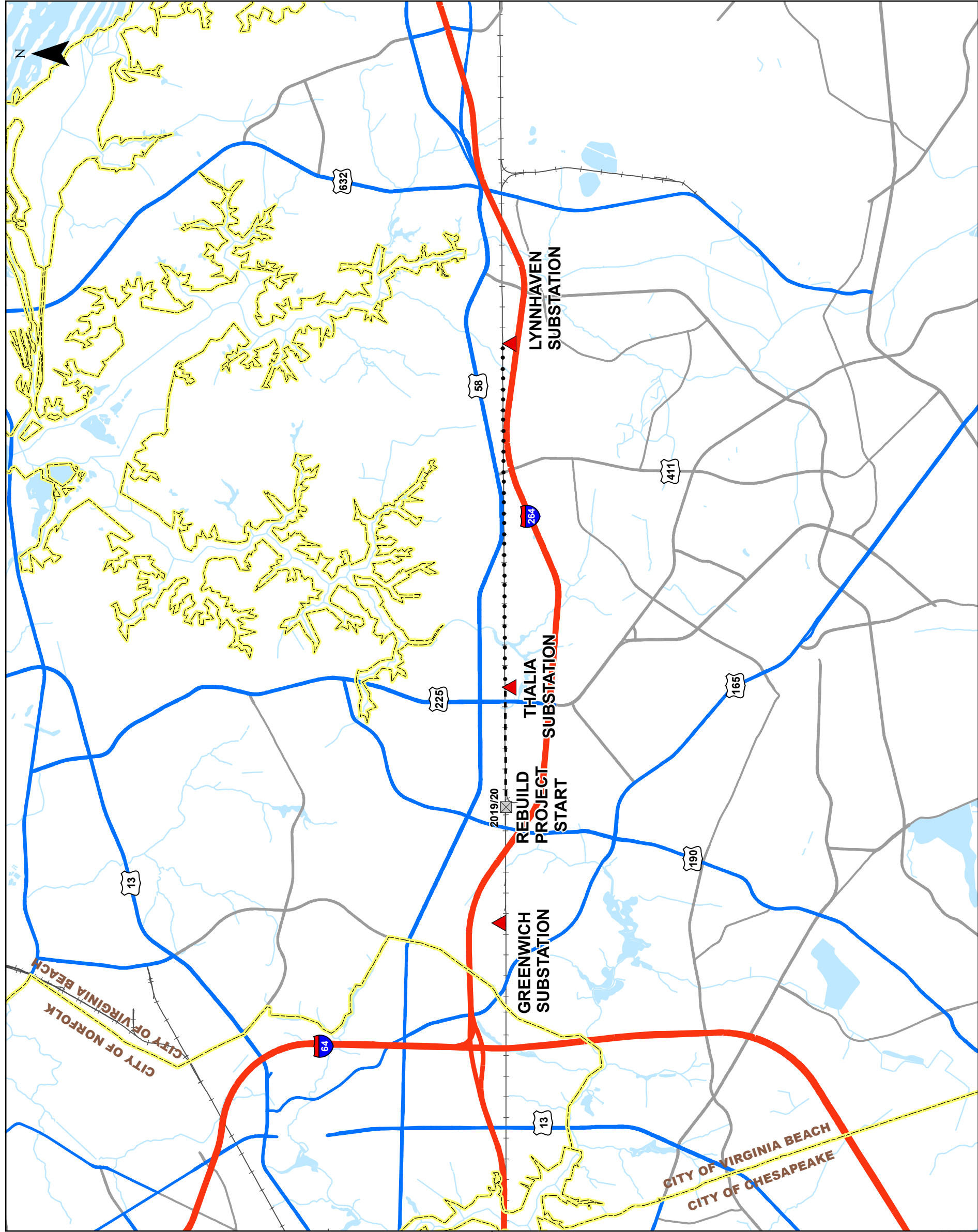
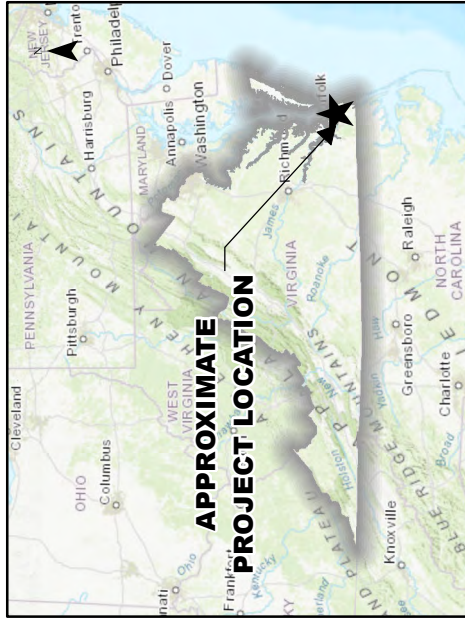
Date: 06/22/22



LEGEND

- Existing Line #2019
- Existing Line #2007
- Existing Structure 2019/20
- ▲ Existing Substation
- Limited Access Highway
- US or VA Primary Highway
- Local or Main Road
- +— Railroad
- County Boundary
- NHD Stream/River
- NHD Waterbody

- Notes:
1. Basemap from ESRI Topographic Map
 2. Project centerline provided by Dominion Energy
 3. Roads and railroads from VGIN
 4. Streams, rivers and waterbodies from USGS National Hydrography Data



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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com



June 29, 2022

BY EMAIL

Ms. Amy Martin
Environmental Services Biologist Manager
Virginia Department of Wildlife Resources
P.O. Box 90778
Henrico, Virginia 23228

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Ms. Martin,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

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We appreciate your assistance with this project review and look forward to any additional information you may have to offer.

Sincerely,

Dominion Energy Virginia

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Jason P. Ericson
Director, Environmental Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

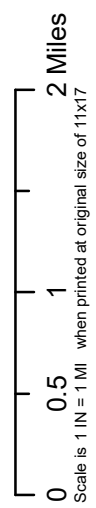
Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

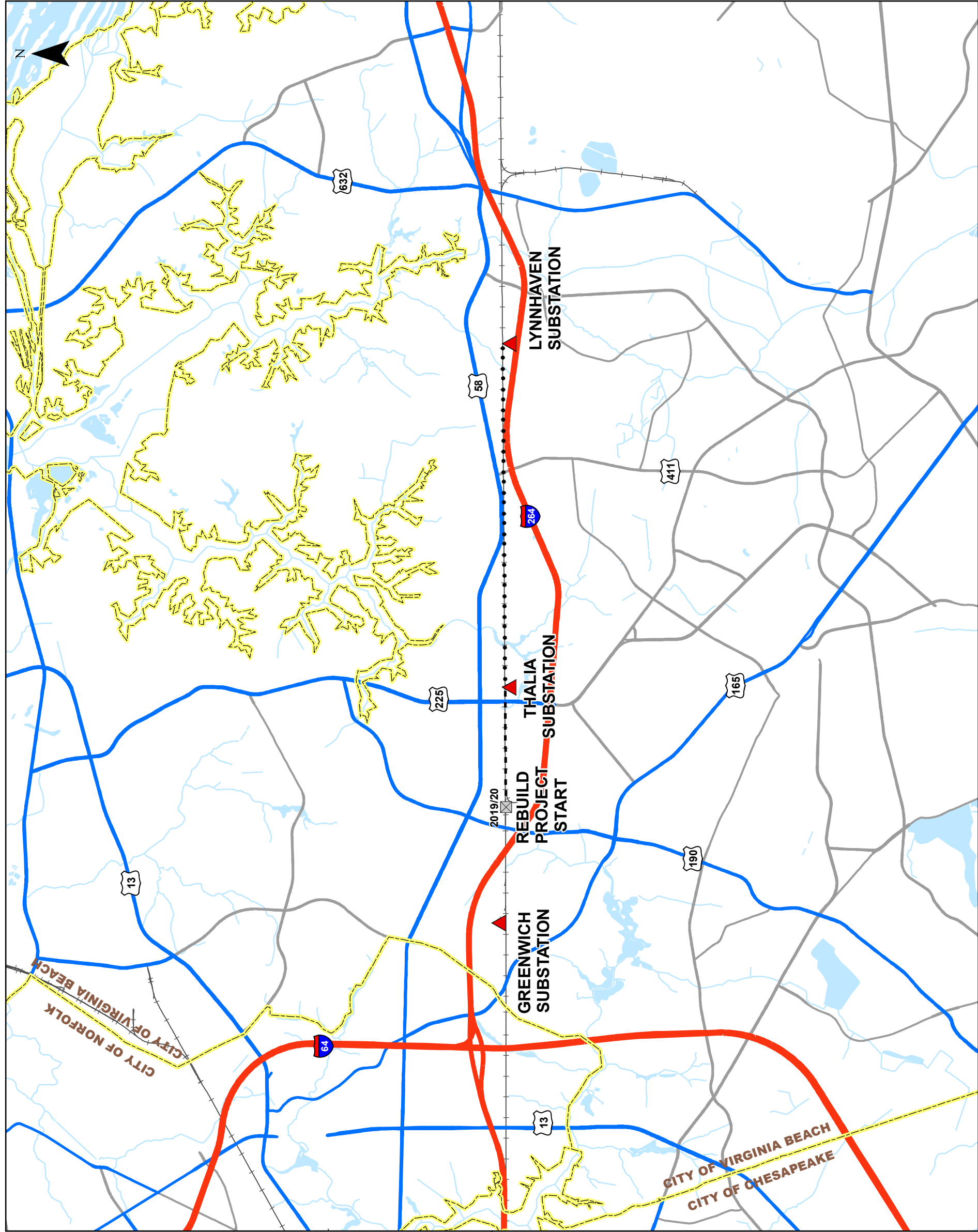
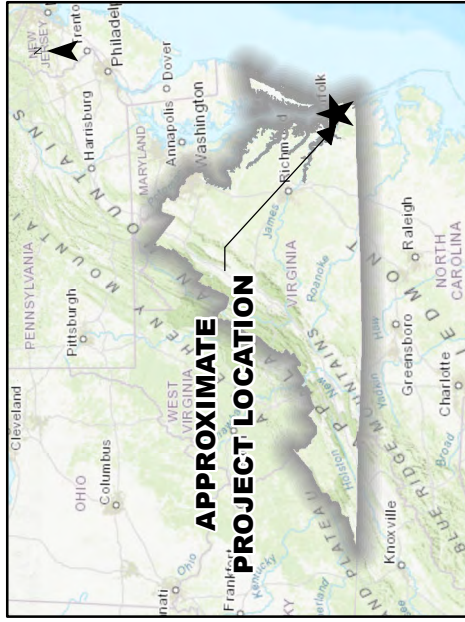
Date: 06/22/22



LEGEND

- - Existing Line #2019
- Existing Line #2007
- Existing Structure 2019/20
- Existing Substation
- Limited Access Highway
- US or VA Primary Highway
- Local or Main Road
- Railroad
- County Boundary
- NHD Stream/River
- NHD Waterbody

- Notes:
1. Basemap from ESRI Topographic Map
 2. Project centerline provided by Dominion Energy
 3. Roads and railroads from VGIN
 4. Streams, rivers and waterbodies from USGS National Hydrography Data



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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com



June 29, 2022

BY EMAIL

Ms. Bettina Rayfield
Manager, Environmental Impact Review and Long Range Priorities
Office of Environmental Impact Review
Department of Environmental Quality, Central Office
PO Box 1105
Richmond, Virginia 23218

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Ms. Rayfield,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

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Jason P. Ericson
Director, Environmental Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

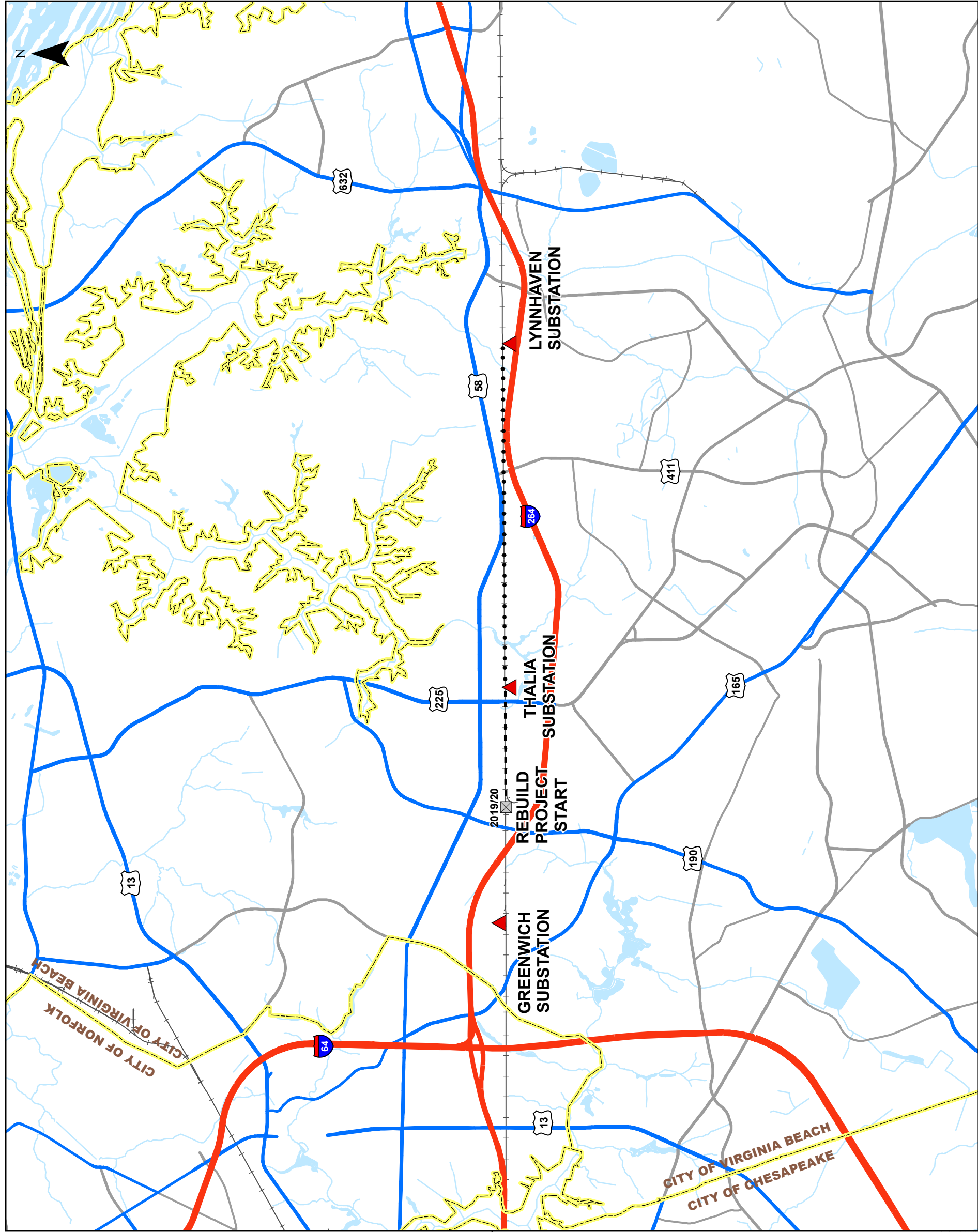
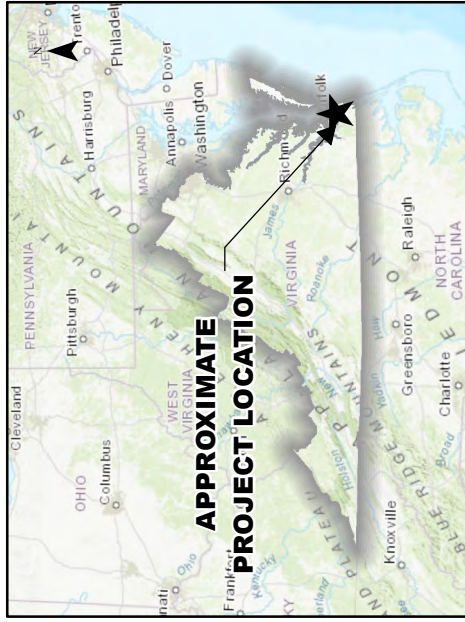
Date: 06/22/22



LEGEND

- - Existing Line #2019
- Existing Line #2007
- Existing Structure 2019/20
- Existing Substation
- Limited Access Highway
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- Local or Main Road
- Railroad
- County Boundary
- NHD Stream/River
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- Notes:
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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com



June 29, 2022

BY EMAIL

Ms. Robbie Rhur
Environmental Specialist, Planning & Recreation
Department of Conservation and Recreation
600 East Main Street, 24th Floor
Richmond, Virginia 23219

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Ms. Rhur,

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Jason P. Ericson
Director, Environmental Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

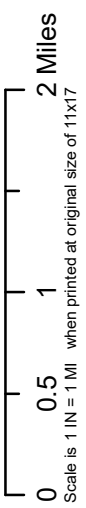
Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

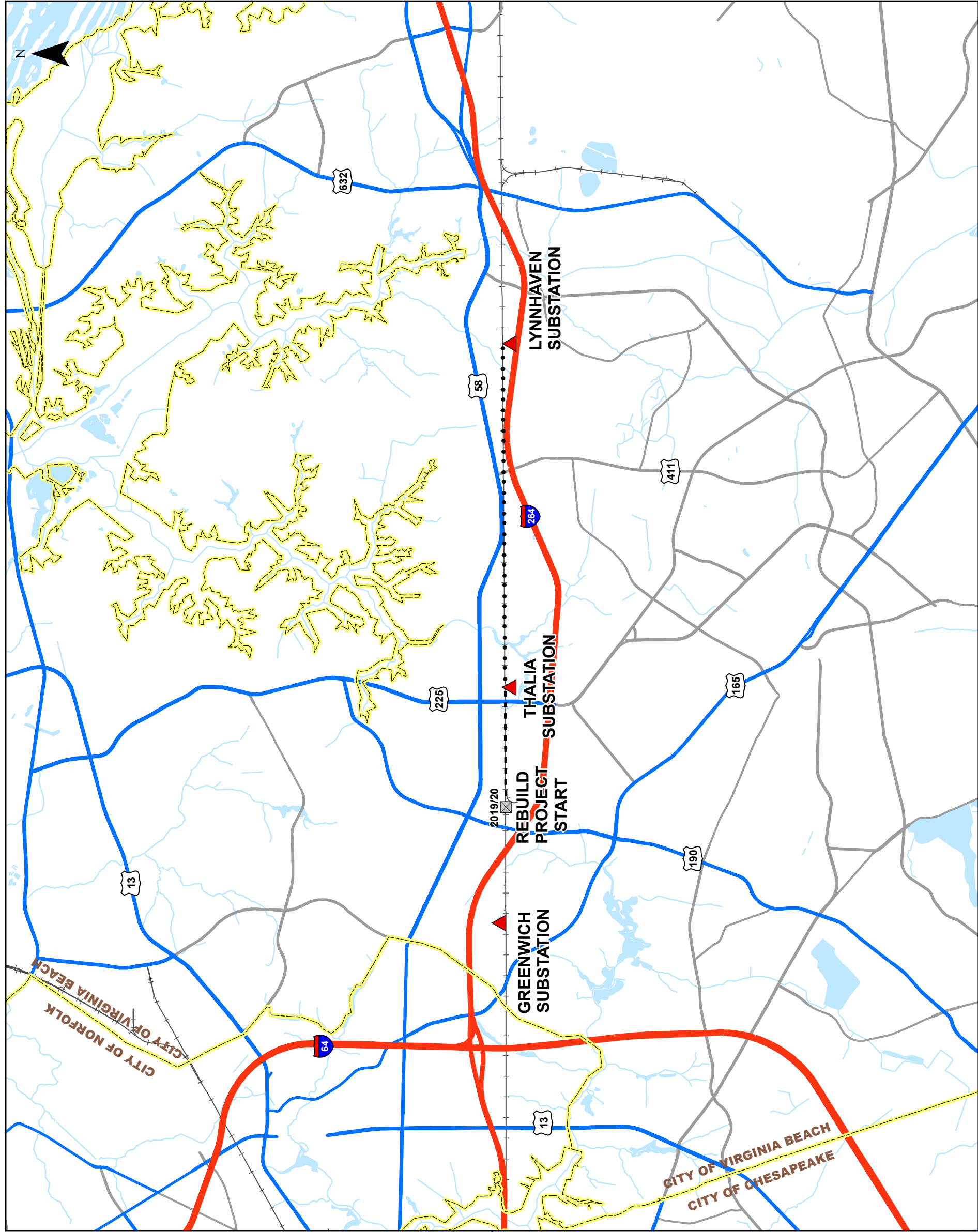
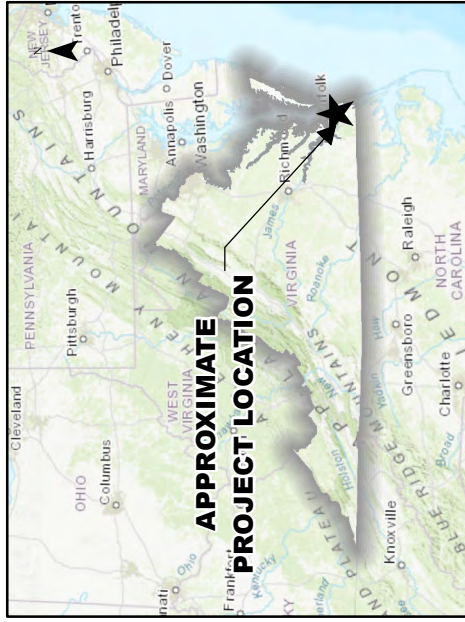
Date: 06/22/22



LEGEND

- - Existing Line #2019
- Existing Line #2007
- Existing Structure 2019/20
- Existing Substation
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- NHD Waterbody

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Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com



June 29, 2022

BY EMAIL

Mr. Keith Tignor
Endangered Plant and Insect Species Program
Virginia Department of Agriculture and Consumer Affairs
102 Governor Street
Richmond, Virginia 23219

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project
City of Virginia Beach, Virginia**

Dear Mr. Tignor,

Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia (the "Rebuild Project"). The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

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Jason P. Ericson
Director, Environmental Services

Attachment: Project Notice Map

PROJECT OVERVIEW MAP

Lines #2019 and #2007 Rebuild Project

City of Virginia Beach, Virginia

Owner/Applicant:

Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: GCF

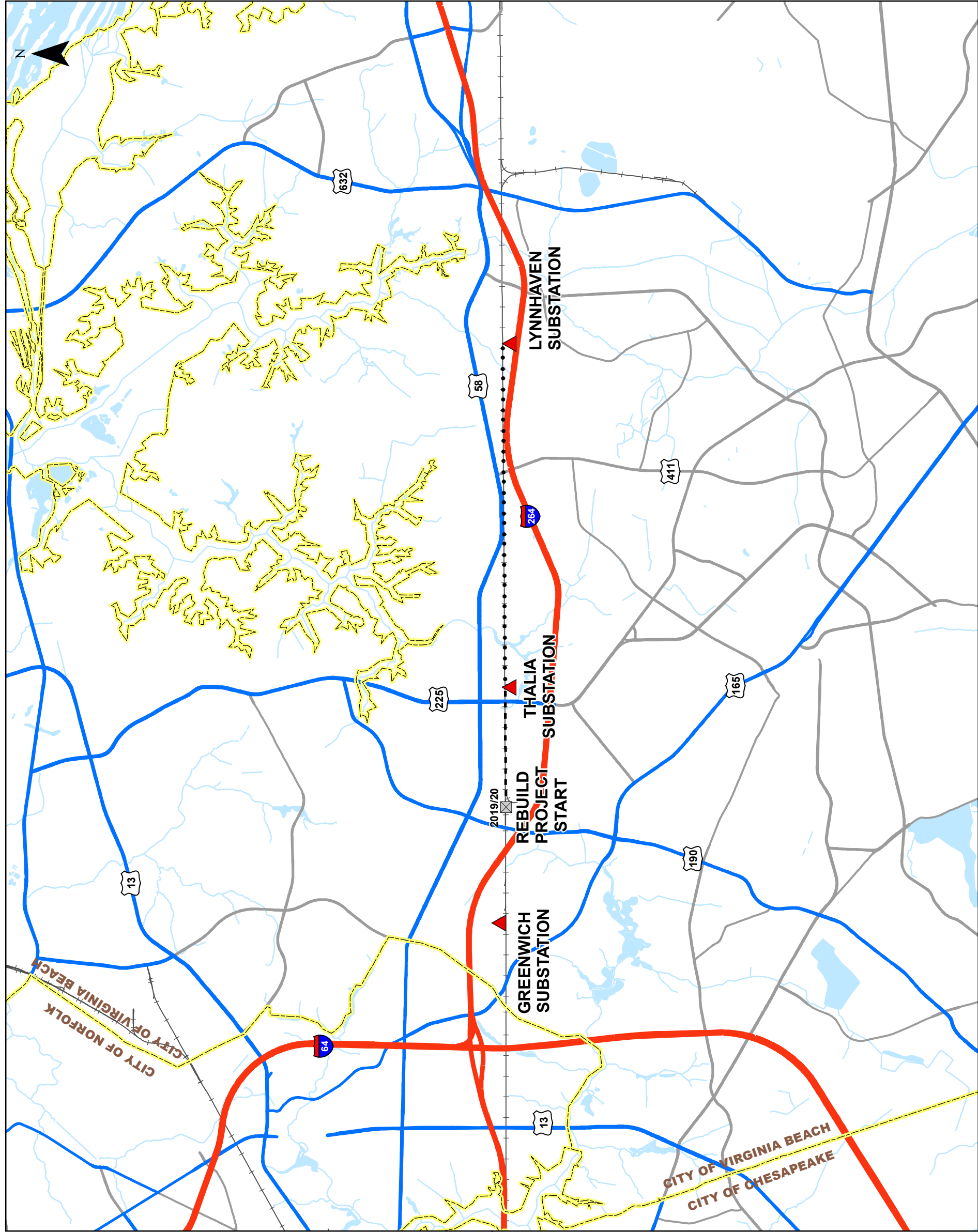
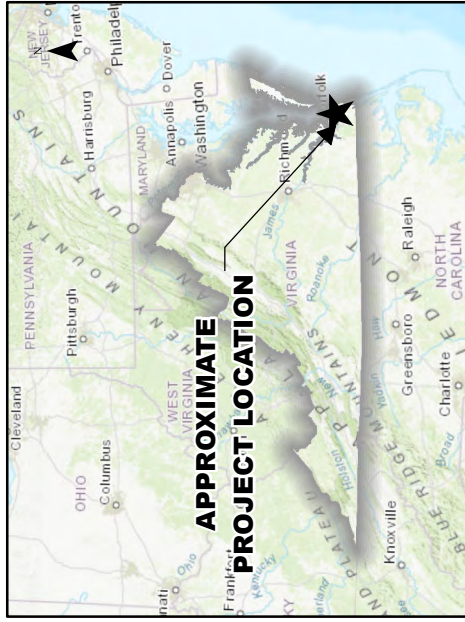
Date: 06/22/22



LEGEND

- - Existing Line #2019
- Existing Line #2007
- Existing Structure 2019/20
- Existing Substation
- Limited Access Highway
- US or VA Primary Highway
- Local or Main Road
- Railroad
- County Boundary
- NHD Stream/River
- NHD Waterbody

- Notes:
1. Basemap from ESRI Topographic Map
 2. Project centerline provided by Dominion Energy
 3. Roads and railroads from VGIN
 4. Streams, rivers and waterbodies from USGS National Hydrography Data



S:\projects\0233 - 12019 Thalia-Greenwich\GIS_CAD\mxd\SC0233_Attachment_1A_Overview.mxd

From: [Fulcher, Valerie](#)
To: [rr dgif-ESS Projects](#); [Keith Tignor](#); [rr DCR-PRR Environmental Review](#); [odwreview \(VDH\)](#); [Carlos Martinez](#); [Kotur Narasimhan](#); [Lawrence Gavan](#); [Daniel Moore](#); [Michelle Henicheck](#); [Scott Kudlas](#); [Jeffrey Hannah](#); [Roger Kirchen](#); [rr MRC - Scoping](#); [Ben McFarlane](#); [plan@vbgov.com](#); [ImpactReview](#); [rr EIR Coordination](#); [Terrance Lasher](#); [Karl Didier](#); [Parmelee, Sarah](#); [David Spears](#)
Cc: Stacey.T.Ellis@dominionenergy.com
Subject: [EXTERNAL] NEW SCOPING Dominion Energy Virginia Lines 2019 and 2007 Rebuild Project
Date: Friday, July 1, 2022 10:33:27 AM
Attachments: [TL2007-TL2019 Agency Letter - Rayfield.pdf](#)
[Proposed Line #2019 and Line #2007 Rebuild Project - Scoping Response.pdf](#)

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Good morning—attached is a **request for scoping comments** on the following:

**Dominion Energy Virginia’s Proposed Line #2019 and Line #2007 Rebuild Project,
City of Virginia Beach, Virginia**

If you choose to make comments, please send them directly to the project sponsor (Stacey.T.Ellis@DominionEnergy.com) and copy the DEQ Office of Environmental Impact Review: eir@deq.virginia.gov. We will coordinate a review when the environmental document is completed.

DEQ-OEIR’s scoping response is also attached.

If you have any questions regarding this request, please email our office at eir@deq.virginia.gov.

Valerie

--

Valerie A. Fulcher, CAP, OM, Admin/Data Coordinator Senior

Department of Environmental Quality

Environmental Enhancement - Office of Environmental Impact Review

1111 East Main Street

Richmond, VA 23219

NEW PHONE NUMBER: 804-659-1550

Email: Valerie.Fulcher@deq.virginia.gov

<https://www.deq.virginia.gov/permits-regulations/environmental-impact-review>

**OUR ENFORCEABLE POLICIES HAVE BEEN UPDATED FOR
2021: <https://www.deq.virginia.gov/permits-regulations/environmental-impact-review/federal-consistency>**

For program updates and public notices please subscribe to Constant
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Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

1111 E. Main Street, Suite 1400, Richmond, Virginia 23219

P.O. Box 1105, Richmond, Virginia 23218

(800) 592-5482 FAX (804) 698-4178

www.deq.virginia.gov

Travis A. Voyles
Acting Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director
(804) 698-4020

July 1, 2022

Jason Ericson
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219
DominionEnergy.com

RE: Proposed Line #2019 and Line #2007 Rebuild Project; City of Virginia Beach, Virginia

Dear Mr. Ericson:

This letter is in response to the scoping request for the above-referenced project.

As you may know, the Department of Environmental Quality, through its Office of Environmental Impact Review (DEQ-OEIR), is responsible for coordinating Virginia's review of environmental impacts for electric power generating projects and power line projects in conjunction with the licensing process of the State Corporation Commission.

DOCUMENT SUBMISSIONS

In order to ensure an effective coordinated review of the environmental impact analysis may be sent directly to OEIR. We request that you submit one electronic to eir@deq.virginia.gov (25 MB maximum) or make the documents available for download at a website, file transfer protocol (ftp) site or the VITA LFT file share system (Requires an "invitation" for access. An invitation request should be sent to eir@deq.virginia.gov.) The required "Wetlands Impact Consultation" can be sent directly to Michelle Henicheck at michelle.henicheck@deq.virginia.gov or at the address above.

ENVIRONMENTAL REVIEW UNDER VIRGINIA CODE 56-46.1

While this Office does not participate in scoping efforts beyond the advice given herein, other agencies are free to provide scoping comments concerning the preparation of the environmental impact analysis document. Accordingly, we have coordinated your request with the following state agencies and those localities and Planning District Commissions, including but not limited to:

Department of Environmental Quality:

- DEQ Regional Office
 - Air Division
 - Office of Wetlands and Stream Protection
 - Office of Local Government Programs
 - Division of Land Protection and Revitalization
 - Office of Stormwater Management
- Department of Conservation and Recreation
Department of Health
Department of Agriculture and Consumer Services
Department of Wildlife Resources
Virginia Marine Resources Commission
Department of Historic Resources
Department of Mines, Minerals, and Energy
Department of Forestry
Department of Transportation

DATA BASE ASSISTANCE

Below is a list of databases that may assist you in the preparation of a NEPA document:

- DEQ Online Database: Virginia Environmental Geographic Information Systems

Information on Permitted Solid Waste Management Facilities, Impaired Waters, Petroleum Releases, Registered Petroleum Facilities, Permitted Discharge (Virginia Pollution Discharge Elimination System Permits) Facilities, Resource Conservation and Recovery Act (RCRA) Sites, Water Monitoring Stations, National Wetlands Inventory:

- www.deq.virginia.gov/ConnectWithDEQ/VEGIS.aspx

- DEQ Virginia Coastal Geospatial and Educational Mapping System (GEMS)

Virginia's coastal resource data and maps; coastal laws and policies; facts on coastal resource values; and direct links to collaborating agencies responsible for current data:

- <http://128.172.160.131/gems2/>

- MARCO Mid-Atlantic Ocean Data Portal

The Mid-Atlantic Ocean Data Portal is a publicly available online toolkit and resource center that consolidates available data and enables users to visualize and analyze ocean resources and human use information such as fishing grounds, recreational areas, shipping lanes, habitat areas, and energy sites, among others.

<http://portal.midatlanticocean.org/visualize/#x=-73.24&y=38.93&z=7&logo=true&controls=true&basemap=Ocean&tab=data&legends=false&layers=true>

- DHR Data Sharing System.

Survey records in the DHR inventory:

- www.dhr.virginia.gov/archives/data_sharing_sys.htm
- DCR Natural Heritage Search
Produces lists of resources that occur in specific counties, watersheds or physiographic regions:
 - www.dcr.virginia.gov/natural_heritage/dbsearchtool.shtml
- DWR Fish and Wildlife Information Service
Information about Virginia's Wildlife resources:
 - <http://vafwis.org/fwis/>
- Total Maximum Daily Loads Approved Reports
 - <https://www.deq.virginia.gov/programs/water/waterqualityinformationtmdls/tmdl/tmdldevelopment/approvedtmdlreports.aspx>
- Virginia Outdoors Foundation: Identify VOF-protected land
 - <http://vof.maps.arcgis.com/home/index.html>
- Environmental Protection Agency (EPA) Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) Database: Superfund Information Systems
Information on hazardous waste sites, potentially hazardous waste sites and remedial activities across the nation, including sites that are on the National Priorities List (NPL) or being considered for the NPL:
 - www.epa.gov/superfund/sites/cursites/index.htm
- EPA RCRAInfo Search
Information on hazardous waste facilities:
 - www.epa.gov/enviro/facts/rcrainfo/search.html
- Total Maximum Daily Loads Approved Reports
 - <https://www.deq.virginia.gov/programs/water/waterqualityinformationtmdls/tmdl/tmdldevelopment/approvedtmdlreports.aspx>
- EPA Envirofacts Database
EPA Environmental Information, including EPA-Regulated Facilities and Toxics Release Inventory Reports:
 - www.epa.gov/enviro/index.html
- EPA NEPAassist Database
Facilitates the environmental review process and project planning:
 - <http://nepaassisttool.epa.gov/nepaassist/entry.aspx>

If you have questions about the environmental review process, please feel free to contact me (telephone (804) 659-1915 or e-mail bettina.rayfield@deq.virginia.gov).

I hope this information is helpful to you.

Sincerely,

A handwritten signature in black ink that reads "Bettina Rayfield". The signature is written in a cursive style with a long horizontal flourish at the end of the name.

Bettina Rayfield, Program Manager
Environmental Impact Review and
Long-Range Priorities

Jennifer Johnson

From: Stacey.T.Ellis@dominionenergy.com
Sent: Wednesday, July 6, 2022 2:49 PM
To: Lawson, Trevor
Cc: Grist, Joseph; Scott Kudlas; Ryan Green
Subject: RE: [EXTERNAL] GIS Shapefile Request: Dominion Energy Virginia Proposed Line #2019 & #2007 Rebuild Project
Attachments: project_row.zip

Good Afternoon Trevor,

Please find the attached shapefile for the Project.

Thanks,
Stacey

From: Lawson, Trevor <trevor.lawson@deq.virginia.gov>
Sent: Wednesday, July 6, 2022 9:02 AM
To: Stacey T Ellis (Services - 6) <Stacey.T.Ellis@dominionenergy.com>
Cc: Grist, Joseph <joseph.grist@deq.virginia.gov>; Scott Kudlas <scott.kudlas@deq.virginia.gov>; Ryan Green <ryan.green@deq.virginia.gov>
Subject: [EXTERNAL] GIS Shapefile Request: Dominion Energy Virginia Proposed Line #2019 & #2007 Rebuild Project

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Good morning Stacey,

To aid in review of Dominion's proposed rebuild project of lines #2019 and #2007 I am requesting the shapefile noted in the scoping document provided on June 26th to DEQ.

Thank you,
Trevor

--
Trevor Lawson
Water Supply Planner
Department of Environmental Quality
1111 East Main Street Richmond
(804)-698-4113
Trevor.Lawson@deq.virginia.gov
[Water Supply Planning-DEQ](#)

Grace Flick

Subject: FW: Re: NEW SCOPING Dominion Energy Virginia Lines 2019 and 2007 Rebuild Project

From: Warren, Arlene <arlene.warren@vdh.virginia.gov>
Sent: Wednesday, July 13, 2022 12:21 PM
To: Stacey T Ellis (Services - 6) <Stacey.T.Ellis@dominionenergy.com>
Cc: rr Environmental Impact Review <eir@deq.virginia.gov>
Subject: [EXTERNAL] Re: NEW SCOPING Dominion Energy Virginia Lines 2019 and 2007 Rebuild Project

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Project Name: SCOPING Dominion Energy Virginia Lines 2019 and 2007 Rebuild Project
Project #: N/A
UPC #: N/A
Location: Virginia Beach

VDH – Office of Drinking Water has reviewed the above project. Below are our comments as they relate to proximity to **public drinking water sources** (groundwater wells, springs and surface water intakes). Potential impacts to public water distribution systems or sanitary sewage collection systems **must be verified by the local utility.**

There are no public groundwater wells within a 1-mile radius of the project site.

The following surface water intakes are located within a 5 mile radius of the project site:

PWS ID Number	System Name	Facility Name
3710100	NORFOLK, CITY OF	IN-TOWN LAKES

The project is not within the watershed of any public surface water intakes.

Best Management Practices should be employed, including Erosion & Sedimentation Controls and Spill Prevention Controls & Countermeasures on the project site.

Materials should be managed while on site and during transport to prevent impacts to nearby surface water.
The Virginia Department of Health – Office of Drinking Water appreciates the opportunity to provide comments. If you have any questions, please let me know.

Best Regards,

Arlene F. Warren
GIS Program Support Technician
Virginia Department of Health, Office of Drinking Water
109 Governor Street, 6th Floor
Richmond, VA 23219
804-356-6658 (office/cell/text)

On Fri, Jul 1, 2022 at 10:32 AM Fulcher, Valerie <valerie.fulcher@deq.virginia.gov> wrote:

Good morning—attached is a request for scoping comments on the following:

Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project, City of Virginia Beach, Virginia

If you choose to make comments, please send them directly to the project sponsor (Stacey.T.Ellis@DominionEnergy.com) and copy the DEQ Office of Environmental Impact Review: eir@deq.virginia.gov. We will coordinate a review when the environmental document is completed.

DEQ-OEIR's scoping response is also attached.

If you have any questions regarding this request, please email our office at eir@deq.virginia.gov.

Valerie

--

Valerie A. Fulcher, CAP, OM, Admin/Data Coordinator Senior

Department of Environmental Quality

Environmental Enhancement - Office of Environmental Impact Review

1111 East Main Street

Richmond, VA 23219

NEW PHONE NUMBER: 804-659-1550

Email: Valerie.Fulcher@deq.virginia.gov

<https://www.deq.virginia.gov/permits-regulations/environmental-impact-review>

OUR ENFORCEABLE POLICIES HAVE BEEN UPDATED FOR 2021: <https://www.deq.virginia.gov/permits-regulations/environmental-impact-review/federal-consistency>

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COMMONWEALTH of VIRGINIA

*Marine Resources Commission
380 Fenwick Road
Bldg 96
Fort Monroe, VA 23651-1064*

Jamie L. Green
Commissioner

July 15, 2022

Dominion Energy Environmental Services
Attn: Stacey Ellis
120 Tredegar Street
Richmond, VA 23219

Re: Dominion Energy Notification of Line #2019 and Line
#2007 Rebuild Project

Dear Ms. Ellis,

This will respond to the request for comments regarding the Dominion Energy Notification of Line #2019 and Line #2007 Rebuild Project, prepared by Dominion Energy Virginia (Dominion Energy). Specifically, Dominion Energy has proposed to rebuild a 1.17-mile segment of 230 kV Greenwich-Thalia Line #2019 and a 3.37-mile segment of 230 kV Lynnhaven-Thalia Line #2007. The approximate total 4.54 miles of proposed rebuild, in addition to proposed maintenance of existing substations along the rebuild route, is to occur within existing right-of-way or on property owned by Dominion Energy. The project is located in Virginia Beach, Virginia.

We reviewed the provided project documents and found the proposed project may be within jurisdictional areas of the Virginia Marine Resources Commission (VMRC) and may require a permit from this agency. Please be advised that the VMRC pursuant to Chapters 12, 13 and 14 of Title 28.2 of the Code of Virginia, administers permits required for submerged lands, tidal wetlands, and beaches and dunes. Any jurisdictional impacts will be reviewed by the VMRC during the Joint Permit Application process.

Please contact me at (757) 247-2254 or by email at tiffany.birge@mrc.virginia.gov if you have questions. Thank you for the opportunity to comment.

Sincerely,

A handwritten signature in black ink that reads "Tiffany L. Birge".

Tiffany Birge
Environmental Engineer, Habitat Management

TB/al
HM



DESKTOP WETLAND REVIEW
LINES #2019 AND #2007 REBUILD

City of Virginia Beach, Virginia

Prepared For:

Dominion Energy Virginia
c/o Stacey Ellis
120 Tredegar Street
Richmond, Virginia 23219

Prepared By:

C2 Environmental, Inc.
11846 Rock Landing Drive, Suite A
Newport News, Virginia 23606
Project No. 0233

June 2022

TABLE OF CONTENTS

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2.0 Desktop Data Sources	1
3.0 Methodology and Wetland Occurance Probability	1
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5.0 Conclusion	2

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APPENDICES

Appendix A: Project Graphics

1.0 INTRODUCTION

C2 Environmental (C2 Env) has been retained by Dominion Energy Virginia (Dominion) to complete a desktop wetland review on the project known as Lines #2019 and #2007 Rebuild. The approximate 4.54-mile, 41.88-acre project area consists of an existing transmission line right-of-way (ROW) located in the City of Virginia Beach, Virginia. The project area originates at the intersection of Southern Boulevard and Pennsylvania Avenue and generally runs to the east, terminating at the Lynnhaven Substation located south of Pinewood Drive and north of Ansol Lane.

It should be noted that this study does not include any on-site wetland delineation field investigations utilizing the *1987 Army Corps of Engineers Wetland Delineation Manual* in conjunction with the *2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic Gulf Coastal Plain Region (version 2.0)*. Rather, publicly available data was used to identify the potential limits of wetlands and other Waters of the U.S. (WOUS).

2.0 DESKTOP DATA SOURCES

Resources used to complete the desktop review include the following:

- VGIN aerial imagery dated 2021;
- VGIN infrared imagery dated 2021;
- Google Earth historic imagery ranging from 1994 to 2021;
- U.S. Geologic Survey (USGS) topographic maps;
- USGS Digital Elevation Model (DEM) 2-foot contour data;
- U.S. Department of Agriculture National Resources Conservation Service (USDA-NRCS) hydric soil survey data;
- U.S. Fish and wildlife service (USFWS) National Wetland Inventory (NWI) wetland mapping;
- Federal Emergency Management Agency (FEMA) 100-year floodplain maps.

3.0 METHODOLOGY AND WETLAND OCCURANCE PROBABILITY

Using the available infrared and aerial imagery along with the DEM and USGS topography, potential wetland areas were identified within the study area. The areas identified using the aerial imagery were typically darker in color, which is indicative of inundation or saturated soil conditions associated with wetlands. In many instances these dark signature areas are confined to concave landscapes as defined by the topography. However, wetland occurrence is not limited to concave landforms and can occur in flat landscapes. A probability of occurrence was assigned to each potential wetland based upon the presence or absence of additional supporting data layers including USDA-NRCS hydric soil data, NWI wetland mapping, and FEMA 100-year floodplain maps. Table 1 lists the probability criteria of wetland occurrence based upon the number of layers present in a given area. It should be noted that streams have not been assigned a probability of occurrence and have been identified based upon their consistent presence in multiple years of aeriels.

Table 1: Criteria for Probability of Wetland Occurrence

Probability	Criteria
Low	Areas identified with only topography and aerials.
Medium	Areas identified with topography and aerials with one additional data source (NRCS hydric soil mapping, NWI wetland mapping, or FEMA 100-year floodplain maps).
High	Areas identified with topography and aerials with two or more additional data sources (NRCS hydric soil mapping, NWI wetland mapping, or FEMA 100-year floodplain maps).

4.0 RESULTS

The results of the desktop wetland review are provided in the Desktop Wetland Review Map (Appendix A). The Cowardin Classification of the wetlands within the project area have been combined into palustrine scrub-shrub (PSS) / palustrine emergent wetlands (PEM) and not separated. This is due to the fact that the study area is within a maintained ROW, and it is difficult to differentiate between scrub-shrub and emergent wetlands even with the highest resolution aerials. Furthermore, the distinction between tidal and non-tidal streams and wetlands has been made based on review of the NWI and USGS Topographic Maps as well as elevation data. Table 2 lists wetland acreages by probability as well as stream channels.

Table 2: Results of Desktop Wetland Review

	Low	Medium	High	Total
PEM/PSS Wetlands	1.2 AC	2.7 AC	0.5 AC	4.4 AC
E2EM/E2SS Wetlands			0.2 AC	0.2 AC
Tidal Stream Channels				0.1 AC (110 LF)
Non-Tidal Stream Channels				0.2 AC (1,807 LF)

5.0 CONCLUSION

C2 Env performed a Desktop Wetland Review on the Lines #2019 and #2007 Rebuild project to determine the potential limits of wetlands and other WOUS within the project area using publicly available off-site resources. Prior to any land disturbing activities, C2 Env recommends a detailed delineation of wetland and other WOUS followed by confirmation by U.S. Army Corps of Engineers.

APPENDIX A

Project Graphics

DESKTOP WETLAND REVIEW MAP

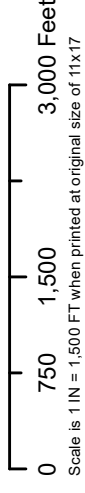
Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

Client:
Dominion Energy Virginia

C2 Env Project: 0233

Prepared By: ELW

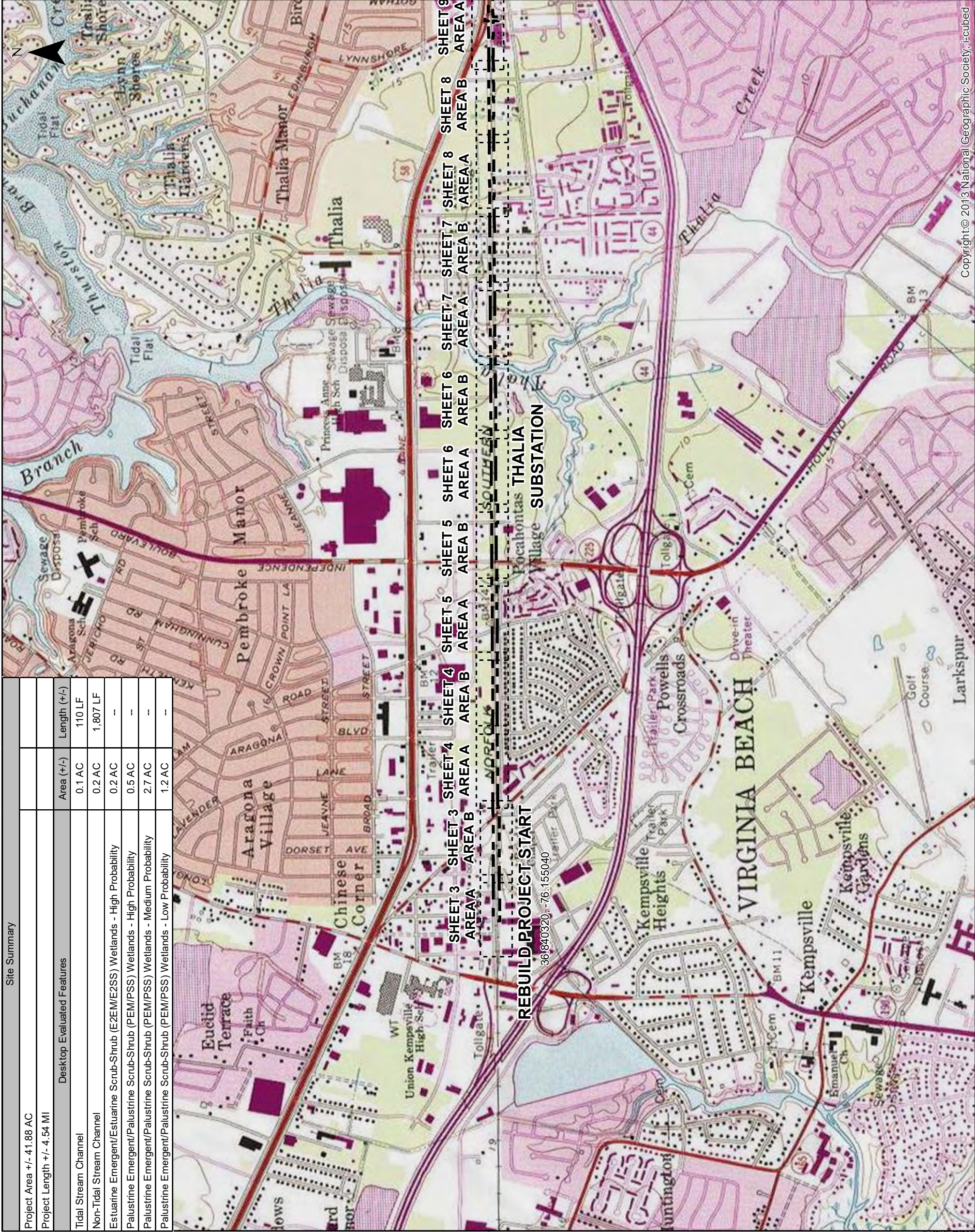
Date: 06/03/22



SITE DATA

- Project Area
- Map Sheet

- Notes:
1. Basemap from ESRI World Street Map, VGIN 2021 aerial imagery, USGS Kempsville and Princess Anne, VA Topographic Quad Maps
 2. Road centerlines and parcels from VGIN
 3. Project area and structure locations provided by Dominion Energy
 4. Contours generated from USGS 1-meter DEM x40y408 and x39y408 Norfolk VA 2013
 5. Wetland desktop evaluation was conducted by C2 Environmental Inc. during May 2022 using publicly available data. This study does not include any on-site wetland field investigations



Site Summary			
Project Area +/-	Length +/-	Area +/-	Length +/-
41.88 AC	4.54 MI	0.1 AC	110 LF
Desktop Evaluated Features			
Tidal Stream Channel		0.2 AC	1,807 LF
Non-Tidal Stream Channel		0.2 AC	--
Estuarine Emergent/Estuarine Scrub-Shrub (E2EM/E2SS) Wetlands - High Probability		0.5 AC	--
Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - High Probability		2.7 AC	--
Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - Medium Probability		1.2 AC	--
Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - Low Probability			

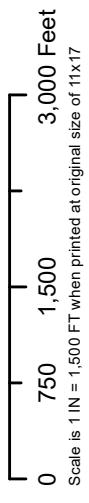


DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

Client:
Dominion Energy Virginia

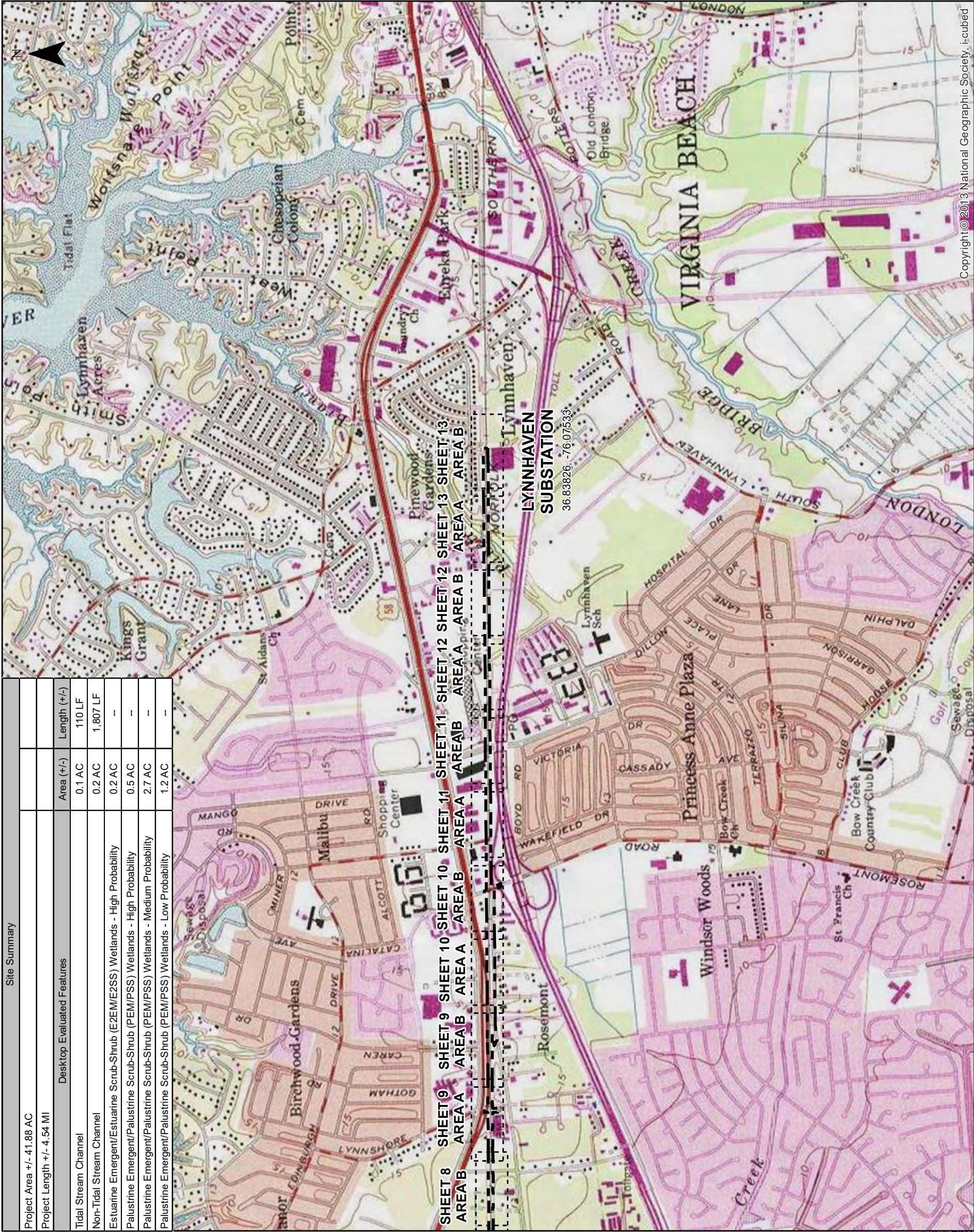
C2 Env Project: 0233
Prepared By: ELW
Date: 06/03/22



SITE DATA

- Project Area
- Map Sheet

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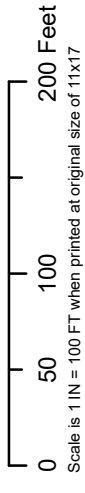
Site Summary			
Project Area +/-	41.88 AC		
Project Length +/-	4.54 MI		
Desktop Evaluated Features			
Tidal Stream Channel		Area (+/-)	Length (+/-)
Non-Tidal Stream Channel		0.1 AC	110 LF
Estuarine Emergent/Estuarine Scrub-Shrub (E2EM/E2SS) Wetlands - High Probability		0.2 AC	1,807 LF
Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - High Probability		0.2 AC	--
Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - Medium Probability		0.5 AC	--
Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - Low Probability		2.7 AC	--
Palustrine Emergent/Palustrine Scrub-Shrub (PEM/PSS) Wetlands - Low Probability		1.2 AC	--

DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

Client:
Dominion Energy Virginia

C2 Env Project: 0233
Prepared By: ELW
Date: 06/03/22

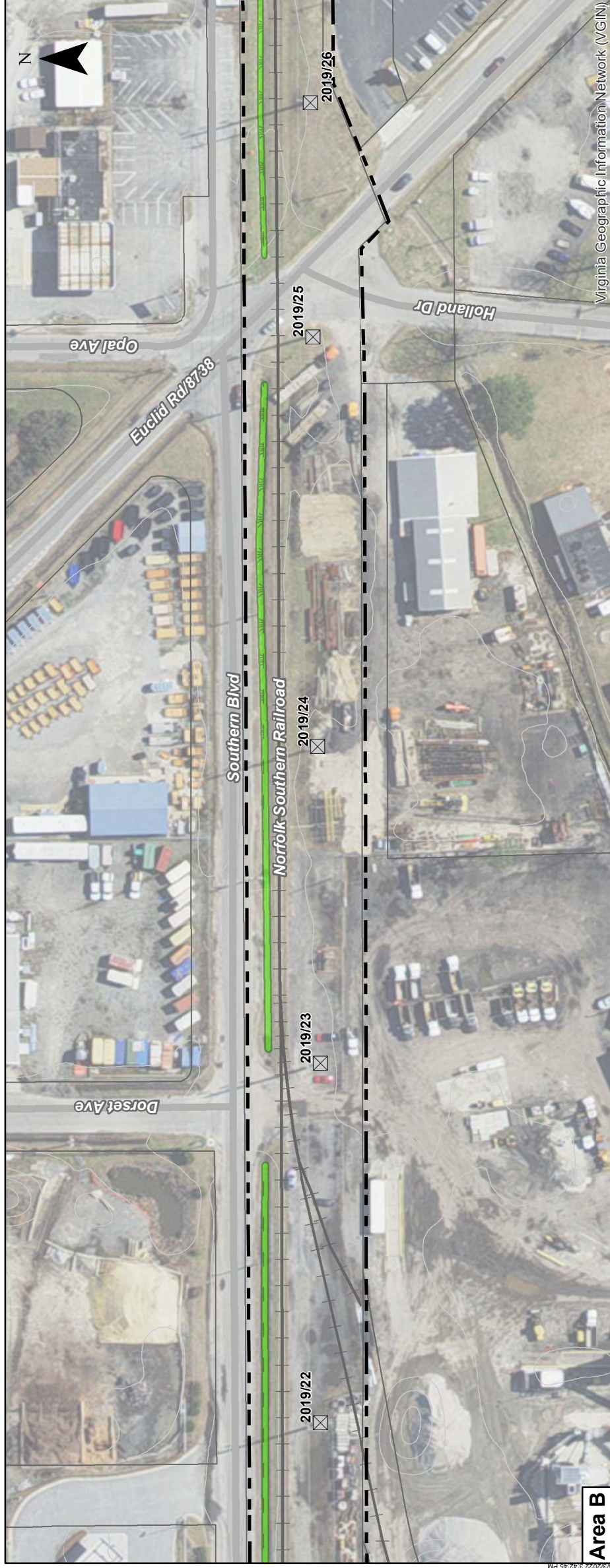


SITE DATA

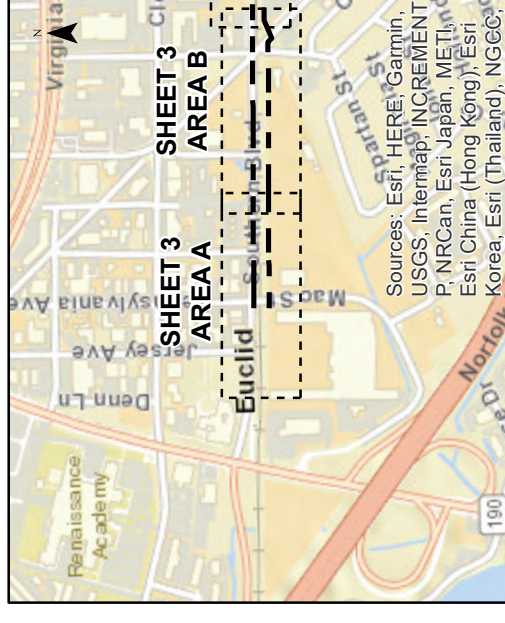
- Project Area
- Existing Structure Location
- Approximate Tidal Stream Channel Limits
- Approximate Non-Tidal Stream Channel Limits
- Approximate E2EM/E2SS Wetland Limits High Probability
- Approximate PEM/PSS Wetland Limits High Probability
- Approximate PEM/PSS Wetland Limits Medium Probability
- Approximate PEM/PSS Wetland Limits Low Probability
- Existing 2 FT Contour
- Parcel Boundary



Area A



Area B

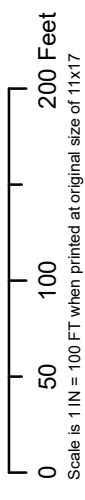


DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

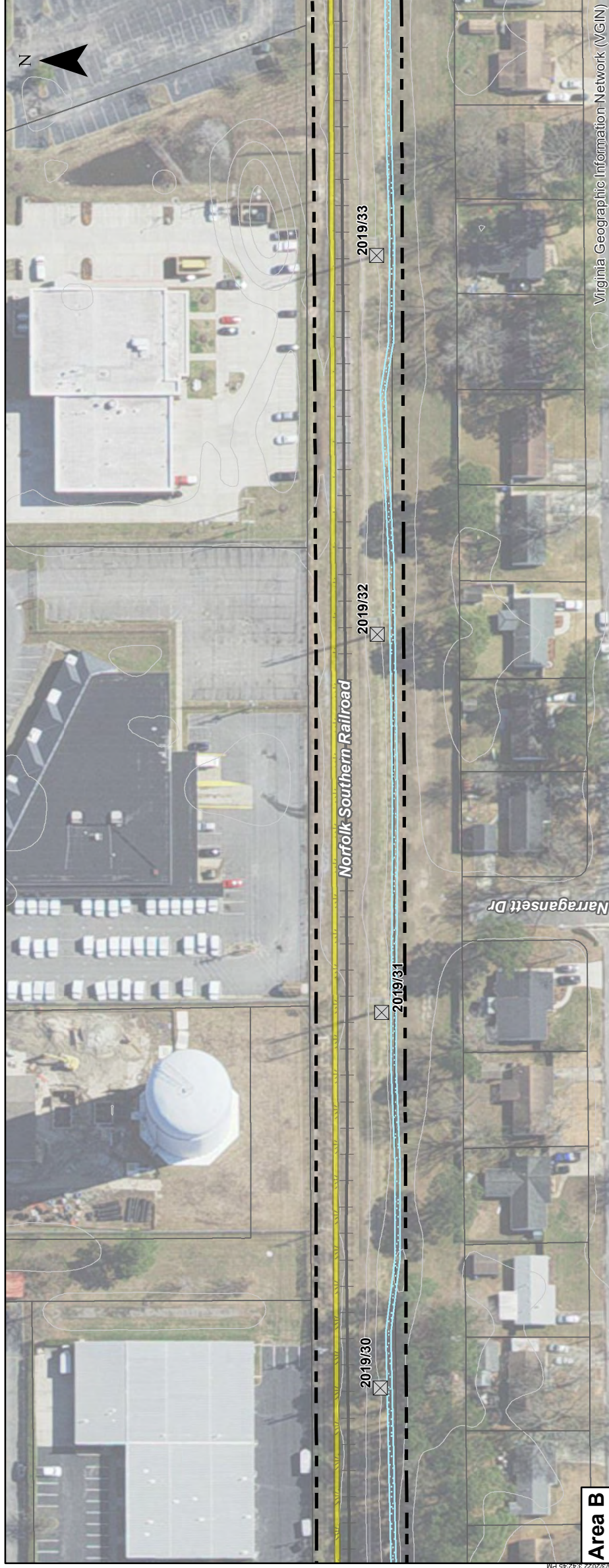
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SITE DATA

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- Approximate PEM/PSS Wetland Limits Low Probability
- Existing 2 FT Contour
- Parcel Boundary



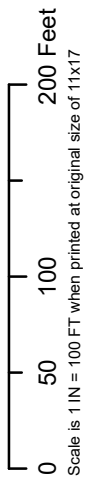
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DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

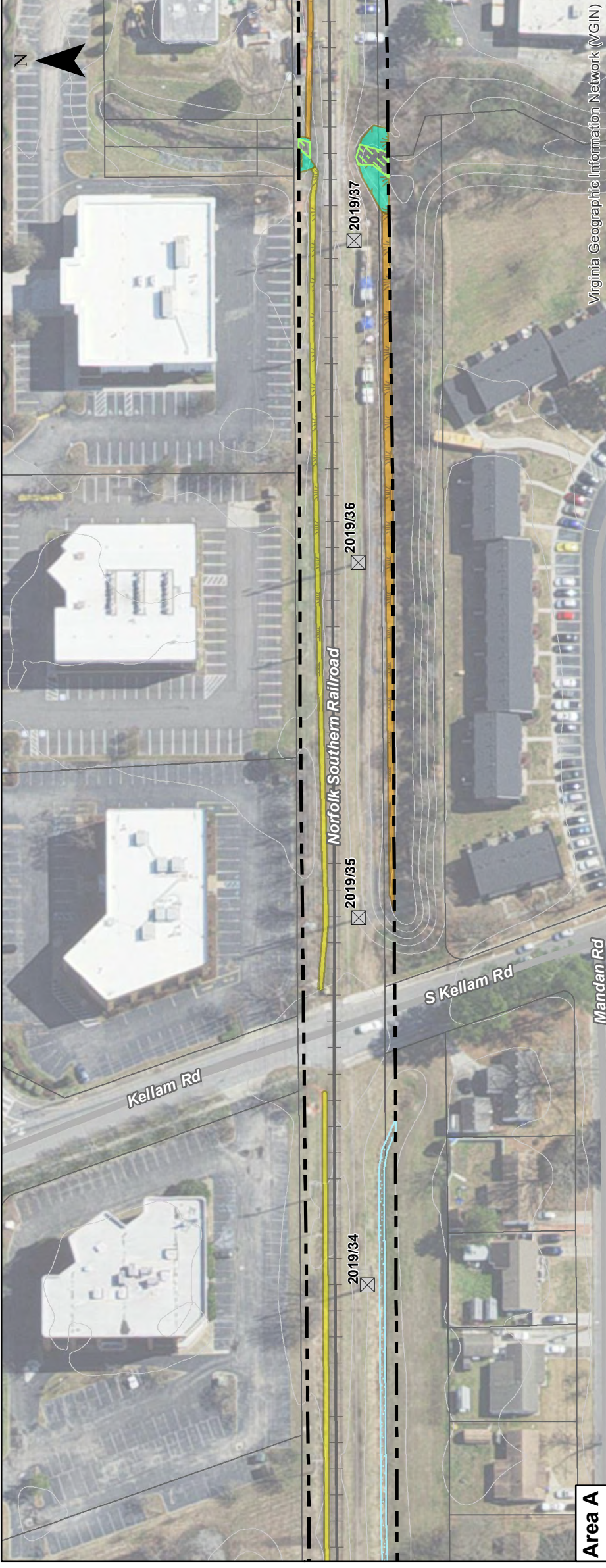
Client:
Dominion Energy Virginia

C2 Env Project: 0233
Prepared By: ELW
Date: 06/03/22

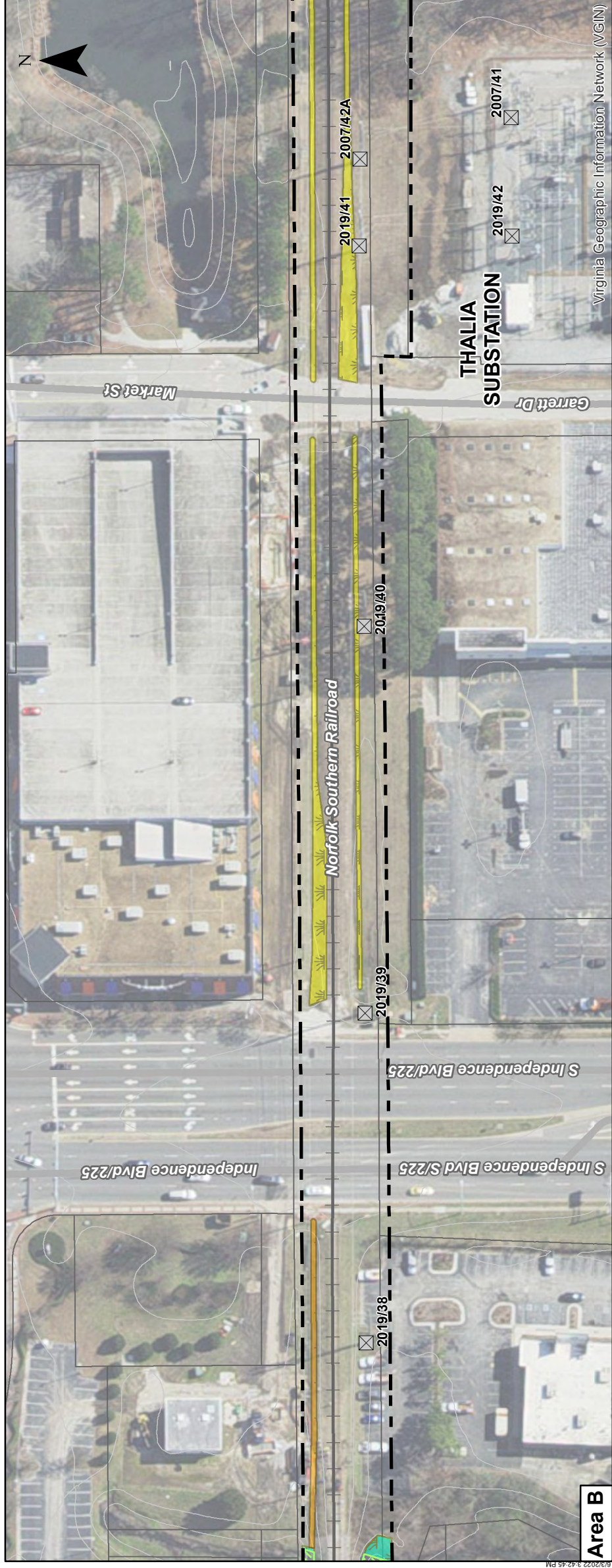


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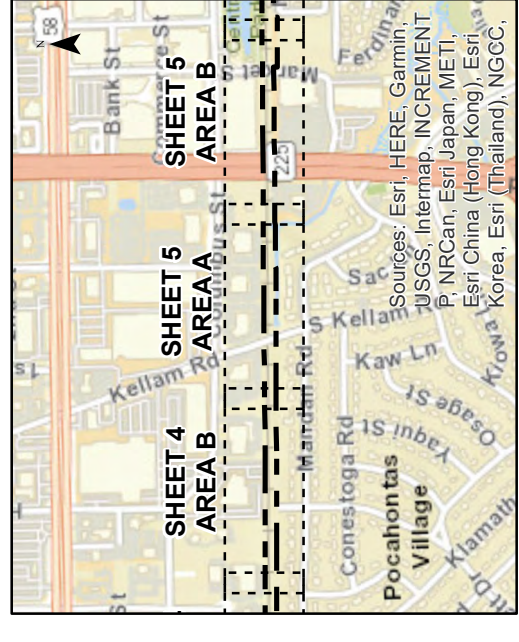
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- Approximate PEM/PSS Wetland Limits Low Probability
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- Parcel Boundary



Area A



Area B

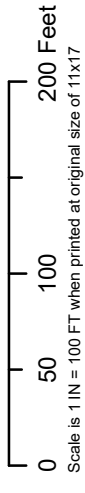


DESKTOP WETLAND REVIEW MAP

Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

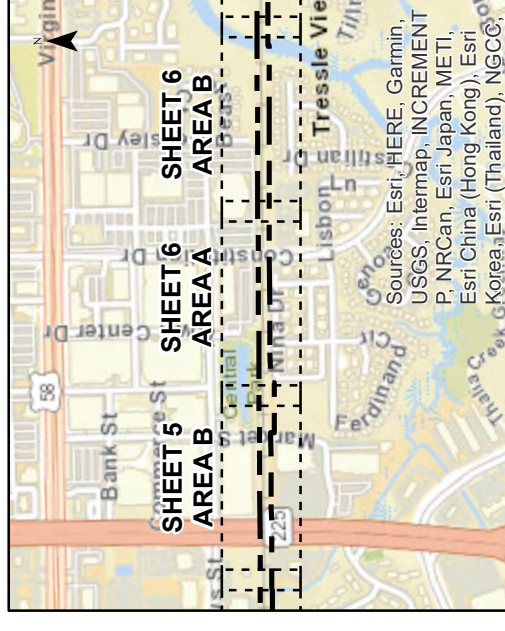
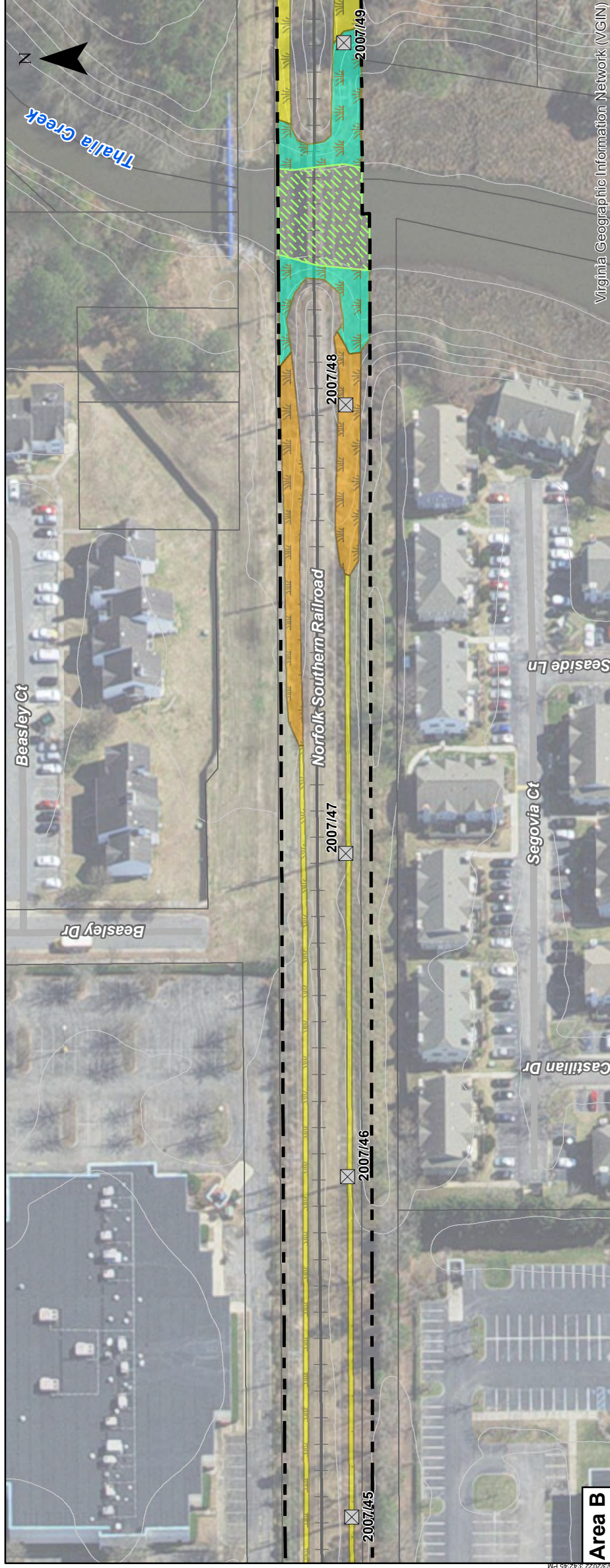
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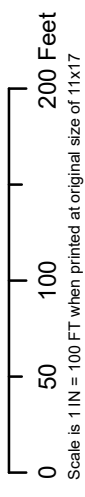


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Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

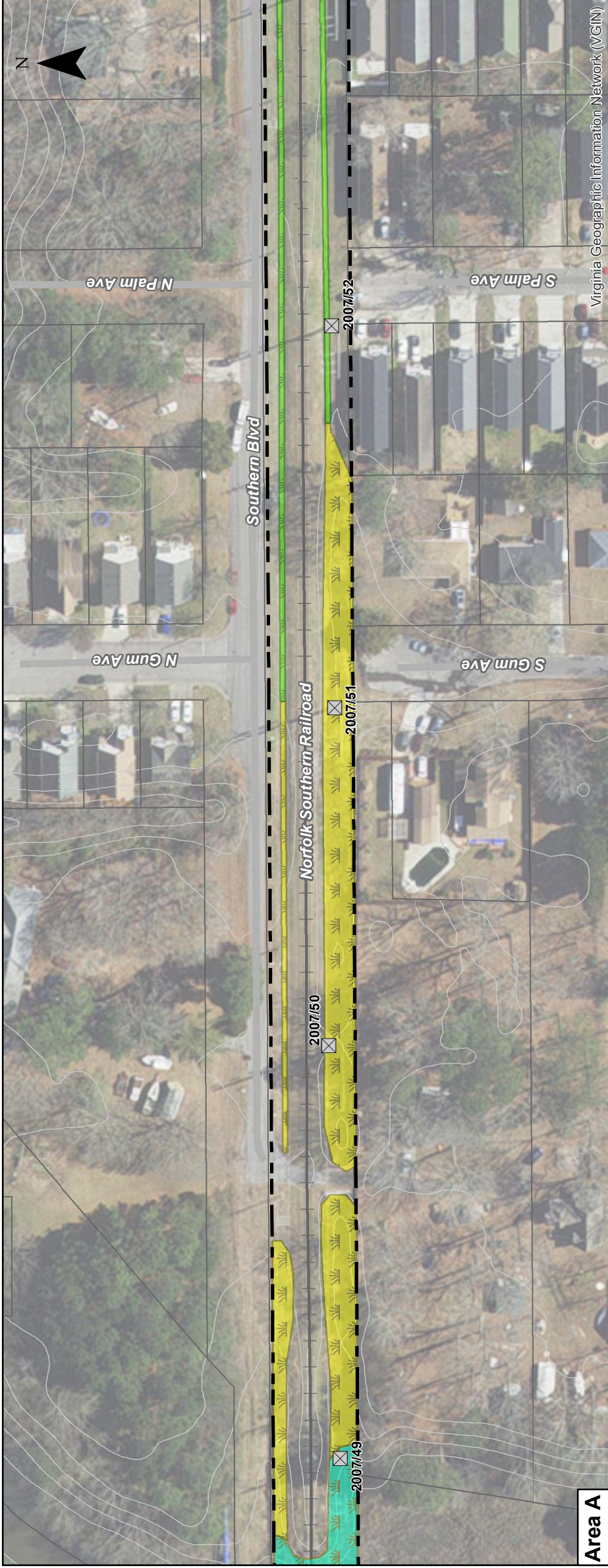
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Dominion Energy Virginia

C2 Env Project: 0233
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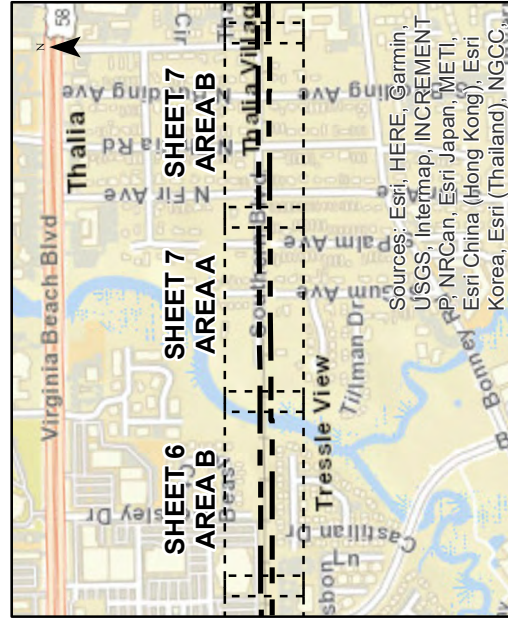
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Area B

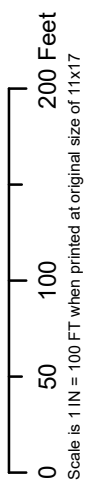


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Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

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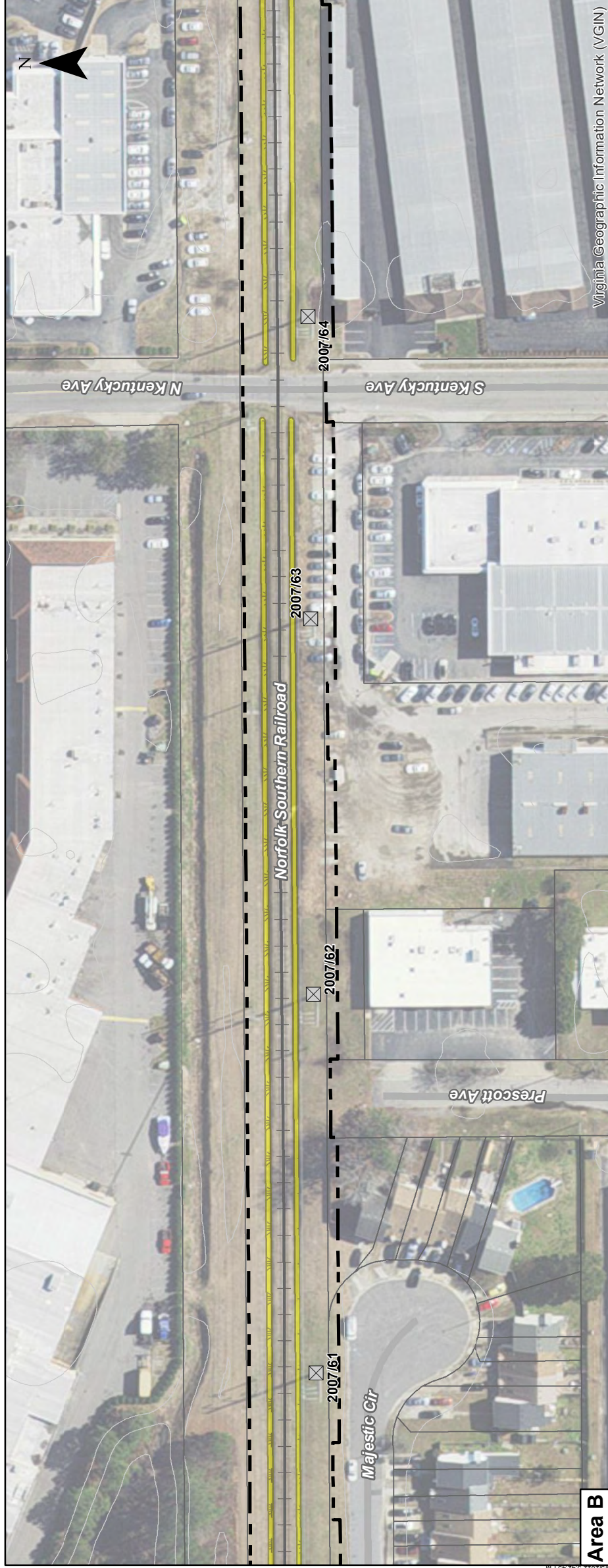


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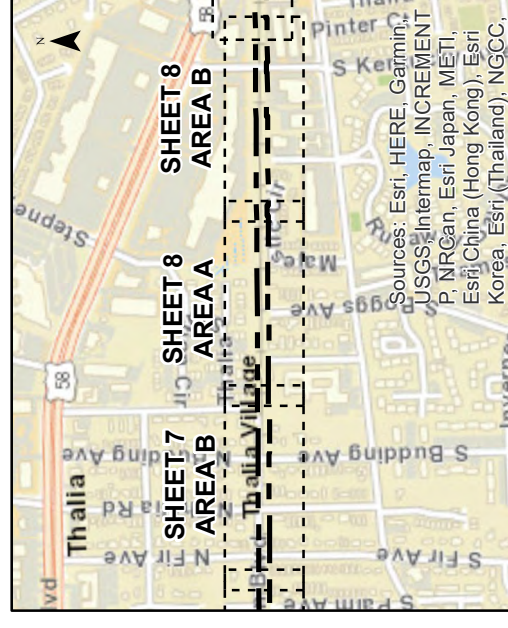
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Area A



Area B



Sources: Esri, HERE, Garmin,
USGS, Intermap, INCREMENT
P, NRCAN, Esri Japan, METI,
Esri China (Hong Kong), Esri
Korea, Esri (Thailand), NGCC,
Inventaris



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City of Virginia Beach, Virginia

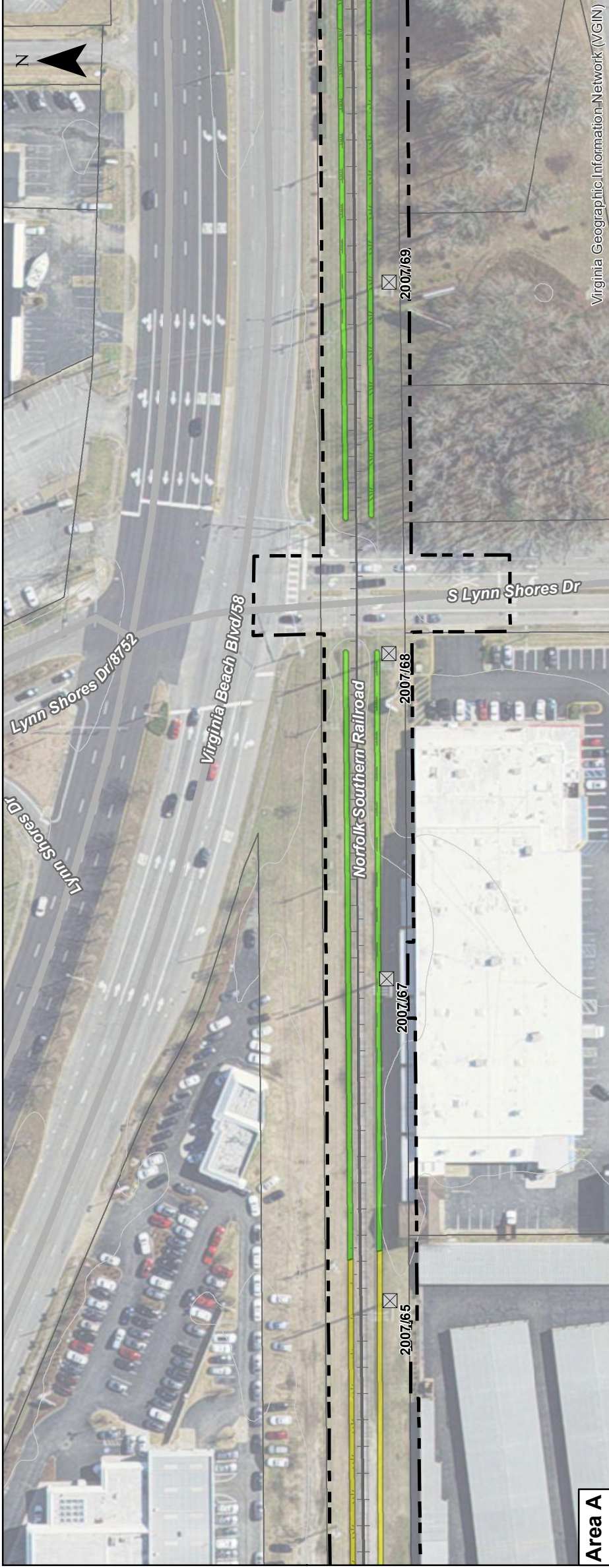
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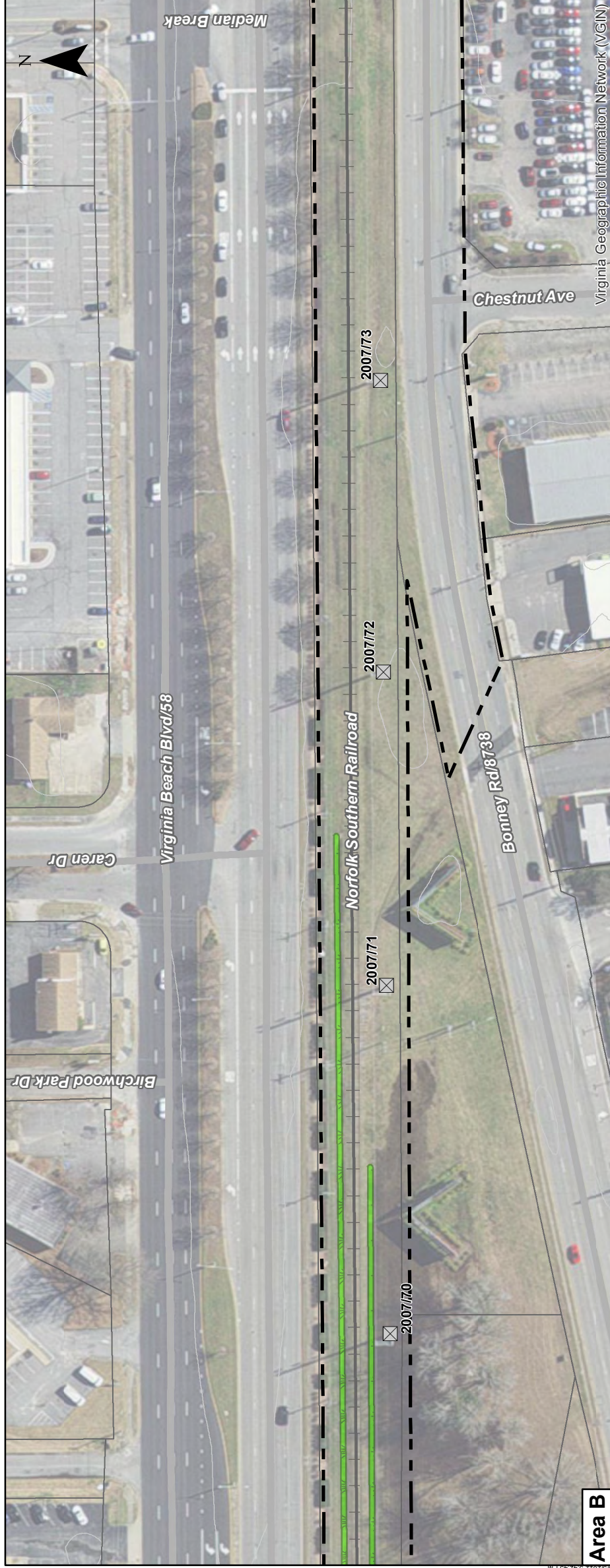


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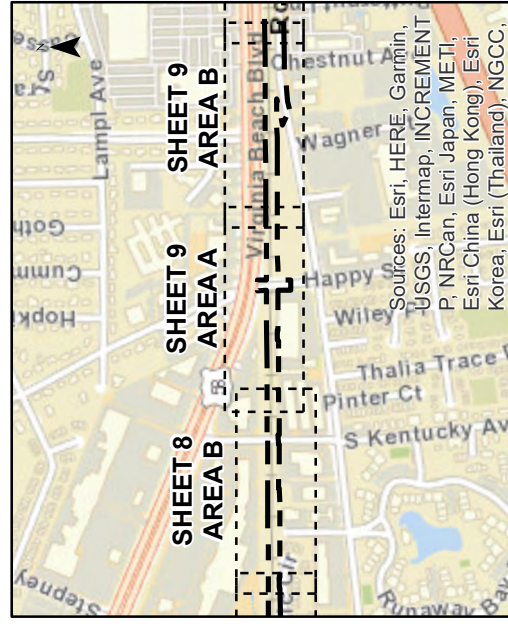
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Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC,

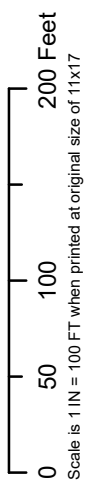


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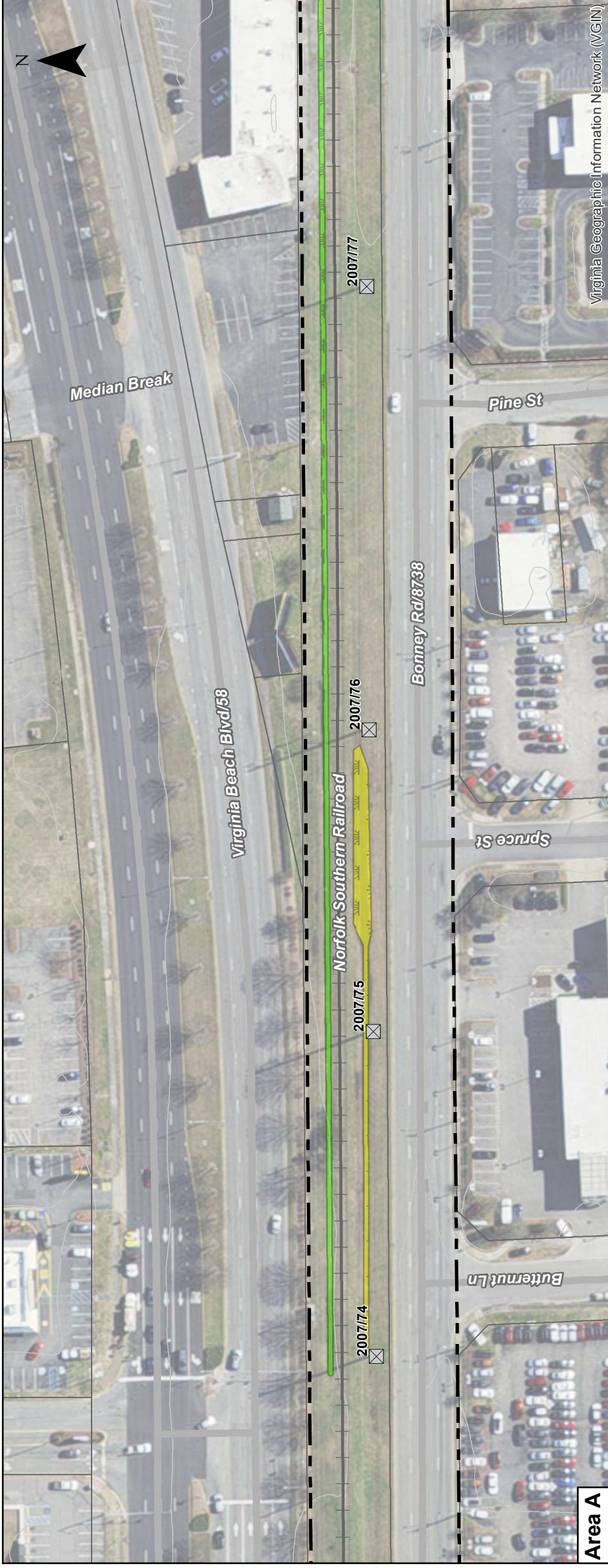
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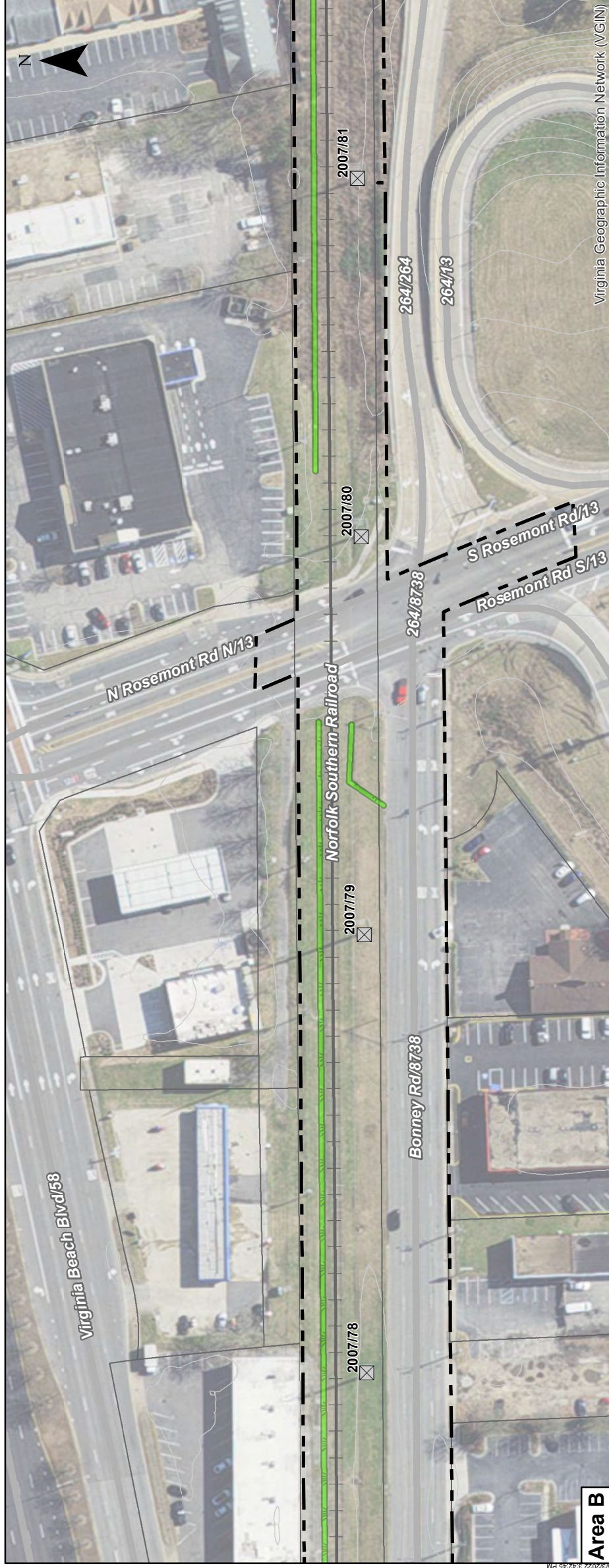


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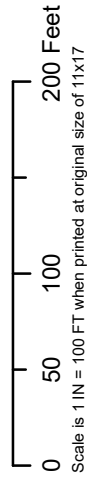


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Lines #2019 and #2007 Rebuild Project
City of Virginia Beach, Virginia

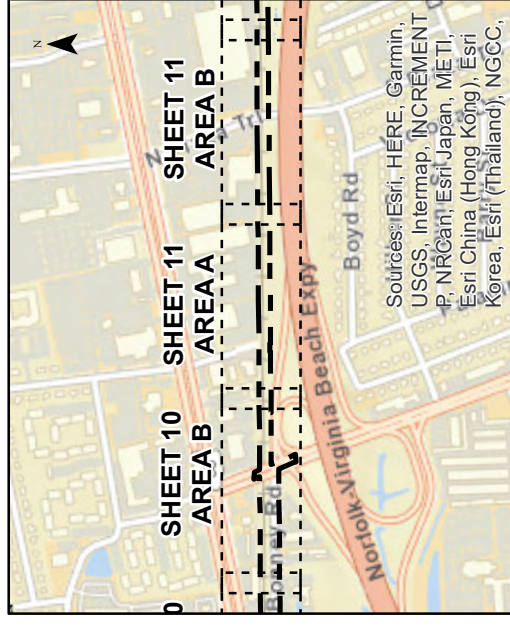
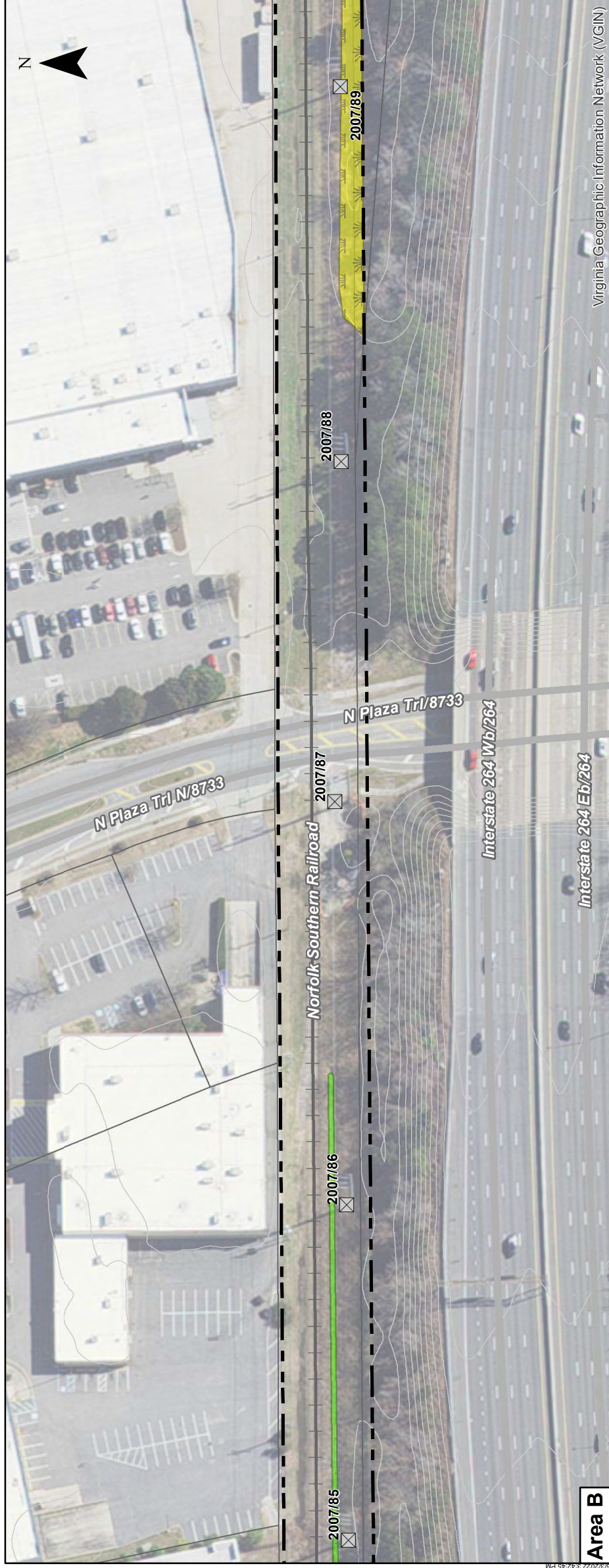
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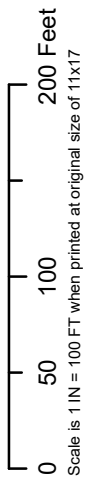
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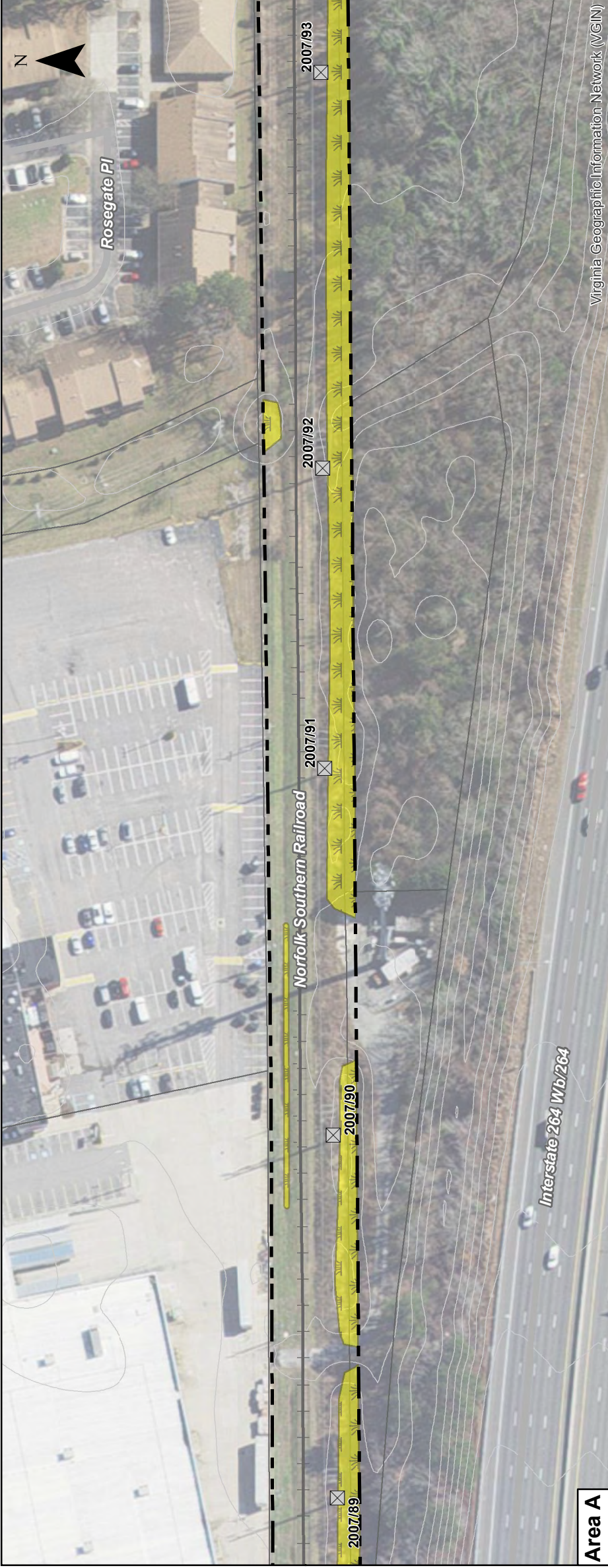
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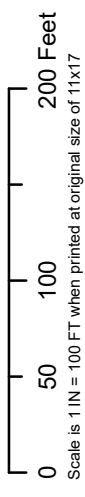
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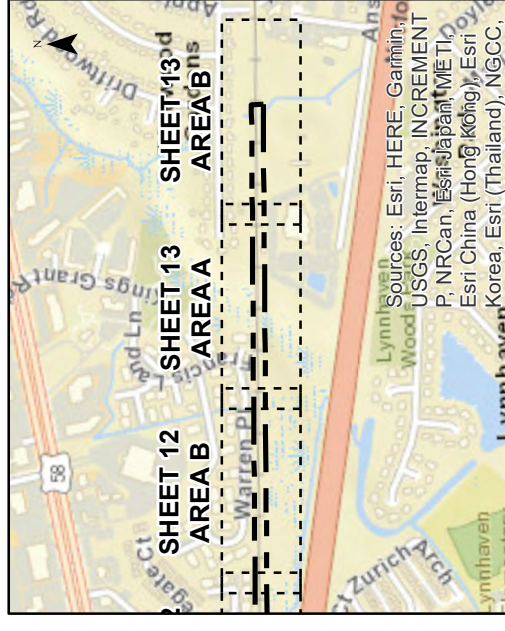
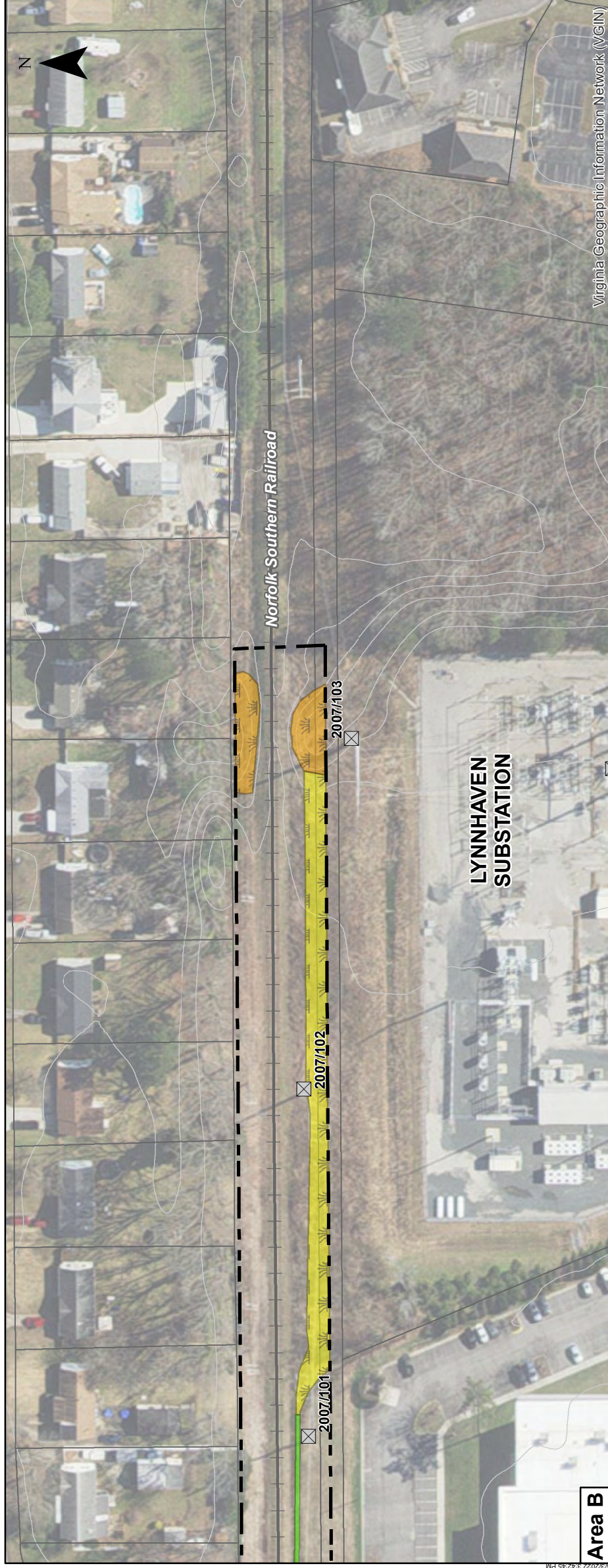
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Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

1111 E. Main Street, Suite 1400, Richmond, Virginia 23219

P.O. Box 1105, Richmond, Virginia 23218

(800) 592-5482 FAX (804) 698-4178

www.deq.virginia.gov

Andrew R. Wheeler
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director
(804) 698-4020

July 15, 2022

Stacey T. Ellis
Dominion Energy Environmental Services
120 Tredegar Street
Richmond, VA 23219

**RE: Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project,
City of Virginia Beach, Virginia**

Dear Ms. Ellis;

In accordance with the Department of Environmental Quality-State Corporation Commission *Memorandum of Agreement Regarding Wetland Impact Consultation* (July 2003), we have reviewed the information submitted by Dominion Energy Virginia (here after, Dominion) regarding potential wetland impacts on the above referenced project. Dominion proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach, Virginia. The proposed Rebuild Project will replace aging infrastructure that is at the end of its service life.

Specifically, as part of the Rebuild Project, the Company is proposing to rebuild an approximately 1.17-mile segment of 230 kV Greenwich-Thalia Line #2019 from Structure #2019/20 to the Company's existing Thalia Substation and rebuild the entire approximately 3.37-mile 230 kV Lynnhaven-Thalia Line #2007 between the Company's existing Lynnhaven and Thalia Substations. The Rebuild Project will include replacement of structures, as well as conductors and shield wire, within the existing right-of-way. Additionally, the Rebuild Project will require work at the Company's existing Greenwich, Thalia and Lynnhaven Substations.

Summary of Findings

A wetland delineation has not been conducted at this time. However, C2 Environmental, Inc. conducted a wetland desktop study to identify probable wetlands based on a review of multiple data sources.

Resources used to complete the desktop review include the following:

- VGIN aerial imagery dated 2021;

- VGIN infrared imagery dated 2021;
- Google Earth historic imagery ranging from 1994 to 2021;
- U.S. Geologic Survey (USGS) topographic maps;
- USGS Digital Elevation Model (DEM) 2-foot contour data;
- U.S. Department of Agriculture National Resources Conservation Service (USDA-NRCS) hydric soil survey data;
- U.S. Fish and wildlife service (USFWS) National Wetland Inventory (NWI) wetland mapping;
- Federal Emergency Management Agency (FEMA) 100-year floodplain maps

Table 1 below provides a summary of the wetlands expected to be affected within the Rebuild Project right-of-way.

Table 1: Estimated jurisdictional resources within the Rebuild Project Right-of-Way

Resource	Area/Length (±)
Palustrine Emergent/ Scrub Shrub Wetland	4.4 Acres
Estuarine Emergent/ Scrub Shrub Wetland	0.2 Acres
Non-Tidal Stream Channel	0.2 Acres/ 1,807 Linear Feet
Tidal Stream Channel	0.1 Acres/ 110 Linear Feet

Water Quality and Wetlands. Measures such as but not limited to Best Management Practices (BMPs) must be taken to avoid and minimize impacts to surface waters during construction activities, including potential water quality impacts resulting from construction site runoff. The disturbance of land and surface waters, which include wetlands, open water, and streams, may require prior approval by DEQ; the U.S. Army Corps of Engineers; the Virginia Marine Resources Commission (VMRC); and/or local government wetlands boards (generally in the northern and piedmont regions of Virginia). The Army Corps of Engineers and DEQ work in conjunction to provide official confirmation of whether there are federal and/or state jurisdictional surface waters that may be impacted by the proposed project. VMRC provides its own review to determine its agency jurisdiction. Review of National Wetland Inventory maps or topographic maps for locating wetlands, open waters, or streams may not be sufficient; there may need to be a site-specific review by a qualified professional. If construction activities will occur in or along any streams (perennial, intermittent, or ephemeral), open water or wetlands, the applicant should contact the DEQ-VWP managers at our Tidewater Regional Office to determine the need for any permits prior to commencing work that could impact surface waters. DEQ’s permit need decisions neither replace nor supersede requirements set forth by other local, state, federal, and Tribal laws, nor eliminate the need to obtain additional permits, approvals, consultations, or authorizations as required by law before proposed activities may commence.

Recommendations and Potential Permits

DEQ offers the following recommendations:

1. Prior to commencing project work, all surface waters on the project site should be delineated by a qualified professional and verified by the U.S. Army Corps of Engineers (the Corps) for federal jurisdictional waters and by DEQ for state jurisdictional waters.
2. Wetland and stream impacts should be avoided and minimized to the maximum extent practicable.

3. If the scope of the project changes, additional review will be necessary by one or more offices in the Commonwealth's Secretariat of Natural Resources and/or the Corps.
4. At a minimum, any required compensation for impacts to State Waters, including the compensation for permanent conversion of forested wetlands to emergent wetlands, should be in accordance with all applicable state regulations and laws. Consider mitigating impacts to forested or converted wetlands by establishing new forested wetlands within the impacted watershed.
5. Any temporary impacts to surface waters associated with this project should be restored to pre-existing conditions.
6. No activity may substantially disrupt the movement of aquatic life indigenous to the water body, including those species, which normally migrate through the area, unless the primary purpose of the activity is to impound water. Culverts placed in streams must be installed to maintain low flow conditions. No activity may cause more than minimal adverse effect on navigation. Furthermore the activity must not impede the passage of normal or expected high flows and the structure or discharge must withstand expected high flows.
7. Erosion and sedimentation controls should be designed in accordance with the Virginia Erosion and Sediment Control Handbook, Third Edition, 1992. These controls should be placed prior to clearing and grading and maintained in good working order to minimize impacts to state waters. These controls should remain in place until the area is stabilized and should then be removed. Any exposed slopes and streambanks should be stabilized immediately upon completion of work in each permitted area. All denuded areas should be properly stabilized in accordance with the Virginia Erosion and Sediment Control Handbook, Third Edition, 1992.
8. No machinery may enter surface waters, unless authorized by a Virginia Water Protection (VWP) individual permit, general permit, or general permit coverage.
9. Heavy equipment in temporarily impacted surface waters should be placed on mats, geotextile fabric, or other suitable material, to minimize soil disturbance to the maximum extent practicable. Equipment and materials should be removed immediately upon completion of work.
10. Activities should be conducted in accordance with any Time-of-Year restriction(s) as recommended by the Department of Game and Inland Fisheries, the Department of Conservation and Recreation, or the Virginia Marine Resources Commission. The permittee should retain a copy of the agency correspondence concerning the Time-of-Year restriction(s), or the lack thereof, for the duration of the construction phase of the project.
11. All construction, construction access, and demolition activities associated with this project should be accomplished in a manner that minimizes construction materials or waste materials from entering surface waters, unless authorized by a Virginia Water Protection (VWP) individual permit, general permit, or general permit coverage. Wet, excess, or waste concrete should be prohibited from entering surface waters.
12. Herbicides used in or around any surface water should be approved for aquatic use by the United States Environmental Protection Agency (EPA) or the U.S. Fish & Wildlife Service. These herbicides should be applied according to label directions by a licensed herbicide applicator. A non-petroleum based surfactant should be used in or around any surface waters.

Permits:

Based on DEQ's review of the Desktop Wetland Review report dated June 2022 provided by Dominion, the proposed project may require a Virginia Water Protection (VWP) individual permit or general permit coverage. The applicant may submit a Joint Permit Application (JPA) in accordance with form instructions for further evaluation and final permit need determination by DEQ.

Should you have any questions, please don't hesitate to contact me at 804-965-4329 or at michelle.henichuck@deq.virginia.gov.

Sincerely,

Michelle Henichuck

Michelle Henichuck, PWS
Senior Wetland Ecologist
Office of Wetlands & Stream Protection

Cc: Jeff Hannah, DEQ TRO, VWP
Bettina Sullivan, DEQ Office of Environmental Review

From: Stacey.T.Ellis@dominionenergy.com
To: [Kube, Peter R CIV USARMY CENAO \(USA\)](#)
Cc: [Grace Flick](#); Charles.H.Weil@dominionenergy.com
Subject: RE: Dominion Energy Notification of Line #2019 and Line #2007 Rebuild Project
Date: Thursday, June 30, 2022 9:58:16 AM

Good Morning Peter,

Dominion will be conducting field delineations soon for the Project and will provide the Corps with a JPA if there are any impacts to wetlands or waters of the US.

Thank you,
Stacey

From: Kube, Peter R CIV USARMY CENAO (USA) <Peter.R.Kube@usace.army.mil>
Sent: Thursday, June 30, 2022 9:40 AM
To: Stacey T Ellis (Services - 6) <Stacey.T.Ellis@dominionenergy.com>
Subject: [EXTERNAL] RE: Dominion Energy Notification of Line #2019 and Line #2007 Rebuild Project

CAUTION! This message was NOT SENT from DOMINION ENERGY

Are you expecting this message to your DE email? Suspicious? Use PhishAlarm to report the message. Open a browser and type in the name of the trusted website instead of clicking on links. DO NOT click links or open attachments until you verify with the sender using a known-good phone number. Never provide your DE password.

Ms. Ellis,

Will Dominion be submitting an application to The Corps for the rebuild?

Thanks.

Peter Kube, Chief
Eastern Virginia Regulatory Section
US Army Corps of Engineers
803 Front Street
Norfolk, VA 23510

Phone (757) 201-7504

The Norfolk District is committed to providing the highest level of support to the public. In order for us to better serve you, we would appreciate you completing our Customer Satisfaction Survey located at <http://per2.nwp.usace.army.mil/survey.html>. We value your comments and appreciate your taking the time to complete the survey.

From: Stacey.T.Ellis@dominionenergy.com <Stacey.T.Ellis@dominionenergy.com>
Sent: Thursday, June 30, 2022 8:53 AM

To: Kube, Peter R CIV USARMY CENAO (USA) <Peter.R.Kube@usace.army.mil>
Subject: [Non-DoD Source] Dominion Energy Notification of Line #2019 and Line #2007 Rebuild Project

Mr. Kube,

Please see the attached letter and project map notifying you of Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project in City of Virginia Beach, Virginia. Please contact me with any questions or for additional information.

Thank you,

Stacey T. Ellis

Environmental Specialist III
Dominion Energy Environmental Services
120 Tredegar Street, Richmond, VA 23219
[REDACTED]



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MEMORANDUM

To: Stacey Ellis, Dominion Energy Virginia
From: Grace Flick, C2 Environmental, Inc.
Date: June 17, 2022
Project: Lines #2019 and #2007 Rebuild Project
Reference: Solid and Hazardous Waste Review

On behalf of Dominion Energy Virginia (Dominion), C2 Environmental, Inc. (C2Env) has completed online database searches for solid and hazardous wastes and petroleum release sites within a 0.5-mile radius of the proposed Lines #2019 and #2007 Rebuild Project. The proposed project includes the rebuild of approximately 4.54 miles of existing 230 kV overhead electric transmission line. This project will take place in the existing, cleared transmission line right-of-way (ROW) that begins at Structure 2019/20 and terminates at the Lynnhaven Substation in Virginia Beach, Virginia.

Publicly available data from the Environmental Protection Agency (EPA) Facility Registry System (FRS) were obtained, which provide information about facilities, sites, or places subject to environmental regulation or of environmental interest. Although this dataset includes all sites subject to environmental regulation by the EPA or other state authority, such as sites that fall under air emissions or wastewater programs, the results reported here only include those sites which fall under the EPA's hazardous waste, solid waste, remediation, and underground storage tank programs. These sites include the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)/Superfund; Resource Conservation and Recovery Act (RCRA); and brownfield sites. Per this database, there are 93 registered RCRA sites, and no Superfund or brownfield sites present within 0.5-mile of the project

The Virginia Department of Environmental Quality (DEQ) records were also searched for the presence of solid waste permits, Voluntary Remediation Program (VRP) sites, petroleum releases and registered tank facilities within 0.5-mile of the proposed project. A total of 2 solid waste permits, 1 VRP site, 129 petroleum release sites, and 115 registered tank facilities are present within 0.5-mile of the project.

Of the petroleum release sites, the closest site (PC Number: 19952337) is located approximately 43.9 linear feet from the project centerline. This site falls outside of the ROW and has been closed. Additionally, none of the other identified petroleum release

sites identified within 0.5-mile of the proposed project intersect with the project ROW and only one site (PC Number: 20215228) is open. Of the registered tank facilities, 4 are located within the ROW (Facility IDs: 5025580, 5010773, 5000328, and 5024025). Each of these sites contain active underground storage tanks (UST) and Facility ID 5000328 contains one active above ground storage tank (AST). Dominion has a procedure in place to handle petroleum contaminated soil if encountered; however, as all the release sites are located outside of the project area, none of the petroleum release sites are expected to have an impact on the proposed project.

In conclusion, there are no Superfund or brownfield sites, 93 RCRA sites, 2 solid waste permits, 1 VRP site, 129 petroleum release sites, and 115 registered tank facilities within a 0.5-mile radius of the project site. These sites are summarized in Tables 1-5 below.

Table 1. RCRA sites identified by the EPA within 0.5-mile of the project

Site Name	Registry ID	Location	Latitude	Longitude	Proximity to Centerline (feet)
Rite Aid # 11263	110000884213	Virginia Beach, VA	36.84044	-76.09713	369.6
Exxon Co. USA #24686	110000884213	Virginia Beach, VA	36.84044	-76.09713	369.6
Exxon Co. USA 27294	110000884311	Virginia Beach, VA	36.84368	-76.13739	1320
Virginia Paving Company Norfolk Plant	110001889779	Norfolk, VA	36.838894	-76.104281	264
Albano Cleaners, Inc.	110001899937	Virginia Beach, VA	36.84356	-76.077	1636.8
Heritage Cleaners	110001900970	Virginia Beach, VA	36.8411	-76.10934	528
Prewett Enterprises LLC T/A Eagle	110001908507	Virginia Beach, VA	36.84061	-76.09726	422.4
Gatton Bill Body Shop	110001911343	Bristol, VA	36.83778	-76.068383	1953.6
Shell Oil Co.	110005212741	Virginia Beach, VA	36.8436	-76.13163	1320
Pearle Express	110005212787	Virginia Beach, VA	36.83953	-76.13678	739.2
Coastal Engine & Head Exch., Inc.	110005213866	Virginia Beach, VA	36.840783	-76.156174	369.6
ATEC Associates, Inc.	110005214874	Virginia Beach, VA	36.84099	-76.13934	1531.2
Sunoco Service Station	110005217719	Virginia Beach, VA	36.84385	-76.14935	1320
Sherwin-Williams Co.	110005218013	Virginia Beach, VA	36.847242	-76.136862	2587.2
Guille Steel Products Co.	110005219003	Virginia Beach, VA	36.839691	-76.158857	1161.6
Virginia Paving Company Virginia Beach Plant	110005219334	Virginia Beach, VA	36.84027	-76.14993	0
Phillips Olds, Inc.	110005220821	Virginia Beach, VA	36.84365	-76.14898	1214.4
Beverley Enterprises	110005221991	Virginia Beach, VA	36.84238	-76.08506	1108.8
Checked Red Flag Lynnhaven	110005223114	Virginia Beach, VA	36.84393	-76.0698	2323.2
Atlantic X-ray Service, Inc.	110005223169	Virginia Beach, VA	36.84286	-76.15517	897.6
Waco Equipment Co.	110005223800	Virginia Beach, VA	36.8378	-76.15553	950.4
Hall Chrysler Dodge Jeep Ram Virginia Beach	110005224541	Virginia Beach, VA	36.84309	-76.08027	1425.6
Colormasters, Inc.	110005225924	Virginia Beach, VA	36.842769	-76.146318	950.4
MAACO of Virginia Beach, Inc.	110005226139	Virginia Beach, VA	36.83938	-76.09924	52.8

Dominion Chrysler Plymouth, Inc.	110005227637	Virginia Beach, VA	36.84337	-76.12786	1267.2
Konica Business Machines USA	110005228280	Virginia Beach, VA	36.84177	-76.1612	1900.8
TWI Inc.	110005228798	Virginia Beach, VA	36.842018	-76.153574	633.6
Chesapeake & Potomac Telephone Co.	110005228896	Virginia Beach, VA	36.84312	-76.1521	1003.2
Chesapeake & Potomac Telephone Co.	110005229038	Virginia Beach, VA	36.83766	-76.0898	633.6
Virginia Beach Salvage Exchange	110005229369	Virginia Beach, VA	36.84287	-76.15414	897.6
Albano Cleaners, Inc.	110005230721	Virginia Beach, VA	36.846098	-76.131166	2217.6
Continental Imports	110005231891	Virginia Beach, VA	36.84388	-76.1506	1320
Holiday Cleaners, Inc.	110005231944	Virginia Beach, VA	36.83843	-76.1148	475.2
BOXER REBELLION	110005233130	Virginia Beach, VA	36.8393	-76.14879	369.6
Larry & Dons Auto Body Shop	110005233951	Virginia Beach, VA	36.844121	-76.151112	1372.8
VA Beach City Public Schools	110005234754	Virginia Beach, VA	36.842591	-76.158055	1214.4
Builder Square #1515	110005235290	Virginia Beach, VA	36.84352	-76.13989	2059.2
BE AUTO SERVICE INC	110005235307	Virginia Beach, VA	36.84255	-76.15262	792
Hall Nissan Virginia Beach	110005235922	Virginia Beach, VA	36.839387	-76.103363	52.8
DeSimones Auto Body	110005236173	Virginia Beach, VA	36.84118	-76.15101	316.8
Virginia Beach Dodge	110005236486	Virginia Beach, VA	36.841	-76.09332	580.8
NATIONAL TIRE & BATTERY #7416	110005239857	Virginia Beach, VA	36.84359	-76.13107	1320
A W S OF VIRGINIA INC	110005241461	Virginia Beach, VA	36.84194	-76.14767	633.6
CAREER DEVELOPMENT CENTER	110005241988	Virginia Beach, VA	36.84441	-76.15721	1584
THALJA EXXON	110005242790	Virginia Beach, VA	36.84344	-76.12134	1320
EXXON CO USA #26015	110005242790	Virginia Beach, VA	36.84344	-76.12134	1320
EXXON CO USA #24219	110005243469	Virginia Beach, VA	36.84027	-76.0983	264
CHEVRON STATION #64839	110005243496	Virginia Beach, VA	36.84141	-76.09047	739.2
AMOCO #1956-TANKS	110005244627	Virginia Beach, VA	36.84345	-76.07779	1531.2
CHECKERED FLAG	110005245154	Virginia Beach, VA	36.84343	-76.07661	1584

LEXUS VIRGINIA BEACH	110005245485	Virginia Beach, VA	36.83997	-76.109089	105.6
CHECKERED FLAG HYUNDAIA/ISUZU	110005245751	Virginia Beach, VA	36.84332	-76.07734	1531.2
EXXON CO USA 26500	110005245813	Virginia Beach, VA	36.84594	-76.15684	2112
FIRESTONE TIRE & SERVICE CENTER	110005246661	Virginia Beach, VA	36.84377	-76.14363	1320
NATIONAL TIRE & BATTERY #7407	110005248570	Virginia Beach, VA	36.84211	-76.08565	1003.2
MARTIN SCREEN PRINTS	110005255810	Virginia Beach, VA	36.84204	-76.15487	633.6
SEARS #1265/6575	110005255909	Virginia Beach, VA	36.843648	-76.135378	1372.8
SEARS #8345	110005257916	Virginia Beach, VA	36.83998	-76.15878	1108.8
STANDARD MEDICAL IMAGING	110005258372	Virginia Beach, VA	36.84093	-76.15521	211.2
HECHINGER HOME Q TRS #1062	110005259326	Virginia Beach, VA	36.84163	-76.08893	844.8
METRO TOWING CO TA METRO AUTO SVC	110005287171	Virginia Beach, VA	36.84207	-76.15651	739.2
DRIVERSMART OF VA	110005288394	Virginia Beach, VA	36.83524	-76.0993	1531.2
ORCA YACHTS LLC	110005289678	Virginia Beach, VA	36.83788	-76.15558	897.6
PAUL'S AUTO SERVICE	110005291665	Virginia Beach, VA	36.83777	-76.1086	686.4
WAWA FOOD MARKET # 671	110012214549	Virginia Beach, VA	36.83354	-76.09524	2164.8
SAM'S CLUB # 4711	110012261337	Virginia Beach, VA	36.84163	-76.08893	844.8
PRECISION POWDER COATING, INC.	110018897531	Virginia Beach, VA	36.83788	-76.15558	897.6
COLLAR AND CUFF CLEANERS INC	110020670237	Virginia Beach, VA	36.845709	-76.092047	2270.4
PRINCESS ANNE HIGH SCHOOL	110020784365	Virginia Beach, VA	36.843626	-76.126317	1372.8
WAWA FOOD MARKET # 694	110021018129	Virginia Beach, VA	36.844196	-76.073039	1953.6
CARMAX # 7130	110024259489	Virginia Beach, VA	36.83916	-76.10664	158.4
AMERICAN ROAD MARKINGS	110024830325	Virginia Beach, VA	36.83787	-76.15739	1161.6
BJ'S WHOLESALE CLUB	110032662660	Virginia Beach, VA	36.84015	-76.10042	211.2

#036									
HOME DEPOT 4614	110032992965	Virginia Beach, VA	36.84176	-76.08934	897.6				
HALL COLLISION CENTER, LLC	110044300280	Virginia Beach, VA	36.837681	-76.103047	686.4				
KMART 3801	110045993109	Virginia Beach, VA	36.84504	-76.131058	1848				
FARM FRESH #6248	110046541809	Virginia Beach, VA	36.844214	-76.070645	2270.4				
FARM FRESH #6266	110046541845	Virginia Beach, VA	36.84164	-76.11387	686.4				
TARGET STORE T2770	110046541907	Virginia Beach, VA	36.843696	-76.134675	1320				
COLUMBUS LOOP WATER TANK	110054872143	Virginia Beach, VA	36.84181	-76.14416	580.8				
NATIONAL COATINGS & SUPPLIES	110057068774	Virginia Beach, VA	36.84496	-76.15691	1742.4				
CSA-VAB, LLC - DBA: FREEDOM SHOOTING CENTER	110060291456	Virginia Beach, VA	36.84547	-76.15572	1848				
WALMART SUPERCENTER #4064	110062924064	Virginia Beach, VA	36.843572	-76.14299	1214.4				
WALMART NEIGHBORHOOD MARKET #6574	110062924439	Virginia Beach, VA	36.844198	-76.070486	2323.2				
RENAISSANCE ACADEMY	110064665937	Virginia Beach, VA	36.84208	-76.15981	1531.2				
7-ELEVEN, INC. #20165	110066979229	Virginia Beach, VA	36.83644	-76.15972	2006.4				
7-ELEVEN #33537	110066980565	Virginia Beach, VA	36.84237	-76.14596	792				
FO TEK CORP T/A THE FILM FACTORY	110066987559	Virginia Beach, VA	36.84126	-76.11228	580.8				
CARQUEST AUTO PARTS #1125	110069459455	Virginia Beach, VA	36.84207	-76.15646	739.2				
UNITED AMERICAS, LTD	110070123161	Virginia Beach, VA	36.84267	-76.1562	897.6				
SPEEDWAY 4659	110070123285	Virginia Beach, VA	36.83443	-76.09539	1848				
WEGMANS FOOD MARKET #120	110070558487	Virginia Beach, VA	36.843523	-76.139773	1214.4				
NATIONAL COATINGS & SUPPLIES	110070676880	Virginia Beach, VA	36.844196	-76.156165	1425.6				

Table 2. Solid waste permits identified by DEQ within 0.5-mile of the project

Facility Name	Facility ID	Operating Status	Distance from Centerline (feet)
Soilex Corporation - Virginia Beach	900000000811	Clean Closed	304.6
VA Beach Health District	900000001701	Closed	1200

Table 3. VRP sites identified by DEQ within 0.5-mile of the project

Site Name	Site Number	Primary Status	Secondary Status	Location	Distance from Centerline (feet)
Rose Hall Apartments	VRP00043	Pre-VRP	Completed	Virginia Beach	171.7

Table 4. Petroleum release sites identified by DEQ within 0.5-mile of the project

Site Name	PC Number	Federally Registered Tank	Status	Type of Release	Location	Latitude	Longitude	Proximity to Centerline (feet)
Asphalt Roads and Materials Co., Inc.	19952337	Y	Closed	Confirmed	Virginia Beach	36.84017	-76.152	43.9
City of VA Beach	19910017	N	Closed	Confirmed	Virginia Beach	36.84028	-76.1375	72
Princess Anne Plaza Phase II	19952378	Y	Closed	Confirmed	Virginia Beach	36.83952	-76.0858	81
Independence Blvd. Pumping Station	19941109	Y	Closed	Confirmed	Virginia Beach	36.84035	-76.1376	94.4
Ford Pile Foundations, Inc.	19982286	Y	Closed	Confirmed	Virginia Beach	36.84001	-76.1503	100.9
Green Roger Residence	20035099	N	Closed	Confirmed	Virginia Beach	36.84015	-76.1208	116.3
C S Hines	19992325	Y	Closed	Confirmed	Virginia Beach	36.83912	-76.1	142.3
Charles Barker Lexus	19900037	N	Closed	Confirmed	Virginia Beach	36.84008	-76.1105	145.8

CBC Hostess Thrift Shop VA Beach Branch	19911987	Y	Closed	Confirmed	Virginia Beach	36.83928	-76.1131	156
Euclid Maintenance Yard	19911410	Y	Closed	Confirmed	Virginia Beach	36.84084	-76.1539	183.2
Exxon S/S #2-4686	19992334	N	Closed	Suspected	Virginia Beach	36.83999	-76.098	185.2
Priority Lexus Virginia Beach	20225077	Y	Closed	Confirmed	Virginia Beach	36.84021	-76.1113	189.7
Exxon S/S #2-4219 / Rosemont	19931541	Y	Closed	Confirmed	Virginia Beach	36.84001	-76.098	194.9
Exxon S/S #2-4686	19880971	Y	Closed	Confirmed	Virginia Beach	36.84001	-76.0974	196
PAPCO Oil Company	19962223	Y	Closed	Confirmed	Virginia Beach	36.84085	-76.1517	204.1
PAPCO Oil Company	19952227	N	Closed	Confirmed	Virginia Beach	36.84087	-76.1517	208.6
PAPCO Oil Company	19920757	Y	Closed	Confirmed	Virginia Beach	36.84087	-76.1517	208.9
Former Amoco Service Station	20145064	Y	Closed	Confirmed	Virginia Beach	36.83969	-76.1497	216.6
Cleveland Street Property	20175253	N	Closed	Suspected	Virginia Beach	36.84087	-76.1475	230.1
County View Mobile Home Park	19952317	N	Closed	Suspected	Virginia Beach	36.83958	-76.1495	256.8
Sav-A-Ton #87	20015074	Y	Closed	Confirmed	Virginia Beach	36.83892	-76.1137	288.7
Rowe Nissan	19941930	Y	Closed	Confirmed	Virginia Beach	36.83873	-76.1035	304.1
Sav A Ton 8797	20035026	Y	Closed	Confirmed	Virginia Beach	36.83886	-76.1137	311.9
Former Virginia Beach Dodge Dealership	20125120	N	Closed	Confirmed	Virginia Beach	36.84029	-76.0931	323.7
Sav-A-Ton #87	19962399	Y	Closed	Confirmed	Virginia Beach	36.83876	-76.1137	347
Hall Nissan	20065131	N	Closed	Suspected	Virginia Beach	36.83859	-76.1039	356.2
Euclid Maintenance Yard	19942684	Y	Closed	Confirmed	Virginia Beach	36.84144	-76.1537	404.9
Riverpointe	19992258	Y	Closed	Confirmed	Virginia Beach	36.83884	-76.1183	503

Former Kempsville Building Materials	20165121	N	Closed	Confirmed	Virginia Beach	36.84089	-76.1567	535.1
Polynesian Pools	20035141	Y	Closed	Confirmed	Virginia Beach	36.83801	-76.1027	560.7
Town Center Block 9 Development Property	20175243	N	Closed	Confirmed	Virginia Beach	36.8416	-76.1345	577.3
Rennies Shell #639	19891572	Y	Closed	Confirmed	Virginia Beach	36.84098	-76.0905	586
Rennies Shell #639	19891803	Y	Closed	Confirmed	Virginia Beach	36.84098	-76.0905	589.5
Rennies Shell #639	20015080	Y	Closed	Confirmed	Virginia Beach	36.84103	-76.0904	606.3
Rennies Shell #639	20005173	Y	Closed	Suspected	Virginia Beach	36.84105	-76.0905	614
Citgo - Rennies - Former	20065158	Y	Closed	Confirmed	Virginia Beach	36.84106	-76.0904	618.1
Rennies Shell #639	19880450	Y	Closed	Confirmed	Virginia Beach	36.84108	-76.0904	623.6
Sunrise Health Care	19992381	Y	Closed	Confirmed	Virginia Beach	36.84149	-76.1081	676.5
Guille Steel Products Co.	19921310	Y	Closed	Confirmed	Virginia Beach	36.83998	-76.1573	687.5
Hall Honda	19931623	Y	Closed	Confirmed	Virginia Beach	36.84135	-76.0946	701.4
Emmanuel Lutheran Church Property	20135084	N	Closed	Confirmed	Virginia Beach	36.84161	-76.11	706.7
Mechanical Equipment Sales	19962312	N	Closed	Confirmed	Virginia Beach	36.84226	-76.1529	708.4
Contractors Paving Co.	19940106	Y	Closed	Confirmed	Virginia Beach	36.8376	-76.1043	722.5
Plaza Trail U-HAUL #825-57	19972275	Y	Closed	Confirmed	Virginia Beach	36.83724	-76.0892	768
Metro Towing and Auto Repair	20005155	N	Closed	Confirmed	Virginia Beach	36.84227	-76.1563	795.5
Sears Roebuck & Co.	19941307	Y	Closed	Confirmed	Virginia Beach	36.84006	-76.1577	800
Contractors Paving Company Inc	20035012	Y	Closed	Confirmed	Virginia Beach	36.83728	-76.1043	835.4
McLeskey Site	19891272	Y	Closed	Confirmed	Virginia Beach	36.8419	-76.0904	922.9
Merchants Tire and Auto # 5017	20025068	N	Closed	Confirmed	Virginia Beach	36.84184	-76.0855	928.3

HQ Building - Former	20085003	Y	Closed	Confirmed	Virginia Beach	36.8427	-76.1407	930.3
Birchwood Sewage Pump Station	19992204	Y	Closed	Suspected	Virginia Beach	36.84222	-76.1049	956.7
Berglund Residence	19982320	N	Closed	Confirmed	Virginia Beach	36.84236	-76.1103	977.1
Dominion Chrysler-Plymouth, Inc.	19982401	Y	Closed	Confirmed	Virginia Beach	36.84264	-76.1281	986.8
BP Service Station No. 7490	19921305	Y	Closed	Confirmed	Virginia Beach	36.83668	-76.0968	1011.7
Endowment & Foundation Realty, LTD	20005228	Y	Closed	Confirmed	Virginia Beach	36.84281	-76.1325	1024.9
Shomiers General Merchandise Property	20105014	N	Closed	Confirmed	Virginia Beach	36.84211	-76.0827	1039.1
Town Center	20015142	N	Closed	Confirmed	Virginia Beach	36.84298	-76.1337	1083.9
Pembroke Auto Sales	19921534	Y	Closed	Suspected	Virginia Beach	36.84313	-76.1415	1086.9
Two Pesos	19932332	Y	Closed	Confirmed	Virginia Beach	36.84308	-76.1365	1097.1
Euclid Data Fuels	20005214	Y	Closed	Confirmed	Virginia Beach	36.84347	-76.1558	1157.5
Euclid Data Fuels	20035001	Y	Closed	Confirmed	Virginia Beach	36.84347	-76.1558	1160
Petes Transmission and Auto Service	20015058	Y	Closed	Confirmed	Virginia Beach	36.8425	-76.0862	1162.1
Miller Joseph Residence	20085055	N	Closed	Confirmed	Virginia Beach	36.83677	-76.1503	1280.4
Dumas Allan Property	20195195	N	Closed	Confirmed	Virginia Beach	36.83616	-76.1116	1282.7
Intravato la Property	20155038	N	Closed	Confirmed	Virginia Beach	36.84321	-76.1107	1286.9
Former Blue Linx Corporation	20175278	Y	Closed	Confirmed	Virginia Beach	36.83677	-76.1535	1293.4
Anderson Johan Residence	20165195	N	Closed	Confirmed	Virginia Beach	36.84323	-76.1073	1316
Anderson Johan Residence	20205007	N	Closed	Confirmed	Virginia Beach	36.84323	-76.1073	1316

US Post Office - 129 N Witchduck Rd	19911928	N	Closed	Suspected	Virginia Beach	36.84122	-76.1594	1321.7
Virginia Beach City - Renaissance Academy	20095080	N	Closed	Confirmed	Virginia Beach	36.84287	-76.1583	1322.3
Roden (Former Williams) Residence	20135096	N	Closed	Confirmed	Virginia Beach	36.84335	-76.1059	1368
Exxon S/S #2-6015	19940860	N	Closed	Confirmed	Virginia Beach	36.84367	-76.1212	1394.2
Thalia Enterprises, LLC	19920968	Y	Closed	Suspected	Virginia Beach	36.84385	-76.1314	1407.6
Aragona Village Shopping Center	20095058	Y	Closed	Confirmed	Virginia Beach	36.84409	-76.1462	1412.1
Action Graphics and Signs	20215277	N	Closed	Confirmed	Virginia Beach	36.84407	-76.1418	1425.5
Gardner William W Property	20215139	N	Closed	Confirmed	Virginia Beach	36.84362	-76.111	1435.3
Exxon S/S #2-7294	19982227	Y	Closed	Suspected	Virginia Beach	36.84404	-76.1372	1440.8
Exxon S/S #2-7294	19901698	Y	Closed	Confirmed	Virginia Beach	36.84404	-76.1371	1442.1
Exxon S/S #2-6015	19880658	Y	Closed	Confirmed	Virginia Beach	36.84381	-76.1212	1445.3
Captain Johns Seafood	20025091	N	Closed	Confirmed	Virginia Beach	36.84423	-76.1379	1502.2
Bill Story Propoerty	19931466	N	Closed	Confirmed	Virginia Beach	36.84326	-76.075	1522.9
Cycle World	20065051	Y	Closed	Confirmed	Virginia Beach	36.84456	-76.1496	1555.9
Hall Chrysler Jeep Display Lot Used Cars and Servi	20065133	N	Closed	Suspected	Virginia Beach	36.84353	-76.0818	1562.4
Kings Grant Auto Center	20035016	Y	Closed	Suspected	Virginia Beach	36.84354	-76.0787	1579.4
Pearson Jeff Residence	20225023	N	Closed	Confirmed	Virginia Beach	36.84398	-76.1068	1589.3
Thalia Lynn Baptist Church	19962412	Y	Closed	Confirmed	Virginia Beach	36.84429	-76.1253	1599.1
Newcomb James P Residence	20105046	N	Closed	Confirmed	Virginia Beach	36.83546	-76.1235	1603.9

Hall Auto Mall of Virginia Beach	19992308	Y	Closed	Confirmed	Virginia Beach	36.84368	-76.0816	1619.4
Merchants Tire and Auto Store # 5004	20025035	N	Closed	Confirmed	Virginia Beach	36.84455	-76.1299	1668
Amoco Oil Co. S/S 1956	19920820	Y	Closed	Confirmed	Virginia Beach	36.84377	-76.0778	1669
D M Allison Management LLC - Great Neck Auto Sales	20105051	Y	Closed	Confirmed	Virginia Beach	36.83482	-76.0951	1678.2
School Plant & Supply Services	19921599	Y	Closed	Confirmed	Virginia Beach	36.84288	-76.1599	1689
Toll Road Area HQ	19952221	Y	Closed	Confirmed	Virginia Beach	36.83479	-76.1109	1780.3
Thalia Used Auto Parts - Former	20025038	N	Closed	Confirmed	Virginia Beach	36.83493	-76.1287	1824.1
Fuller Residence/ City Property	19972377	N	Closed	Confirmed	Virginia Beach	36.83489	-76.1312	1852.4
Beach Funeral Home	20105027	N	Closed	Confirmed	Virginia Beach	36.83486	-76.131	1863
Bendix Road Site - Parcel D1	19992363	N	Closed	Confirmed	Virginia Beach	36.83481	-76.1282	1863.8
7-Eleven Store 1012-20165	19920017	Y	Closed	Confirmed	Virginia Beach	36.83698	-76.16	1892.6
7 Eleven 20165	20085061	Y	Closed	Confirmed	Virginia Beach	36.83698	-76.1599	1892.6
Texaco	19921450	Y	Closed	Confirmed	Virginia Beach	36.8438	-76.0722	1922
Danner Residence	20155022	N	Closed	Confirmed	Virginia Beach	36.84502	-76.1105	1944.8
Widgeon Professional Center	20155003	Y	Closed	Confirmed	Virginia Beach	36.83895	-76.0681	2018.1
Cornick Pearlline Residence	20175318	N	Closed	Confirmed	Virginia Beach	36.83429	-76.0713	2024.7
Gresham Residence	20135036	N	Closed	Confirmed	Virginia Beach	36.8452	-76.1068	2033.6
Abandoned Gas Station	19931612	Y	Closed	Confirmed	Virginia Beach	36.84592	-76.1557	2035.6
Bendix Road Refuse Collection	19932516	Y	Closed	Confirmed	Virginia Beach	36.83424	-76.1249	2058.4

Checkered Flag Toyota	19920570	Y	Closed	Suspected	Virginia Beach	36.84313	-76.0701	2078
Checkered Flag Lynnhaven	19932039	Y	Closed	Suspected	Virginia Beach	36.84319	-76.0701	2093.7
Richard Land and Nora Williams Estate Property	20225124	N	Closed	Confirmed	Virginia Beach	36.84554	-76.1105	2133.9
Exxon S/S #2-6500	19900973	Y	Closed	Confirmed	Virginia Beach	36.84612	-76.1567	2158
Exxon S/S #2-6500	19911776	Y	Closed	Confirmed	Virginia Beach	36.84614	-76.1568	2169.5
Bendix Road Refuse Collection	19911412	Y	Closed	Confirmed	Virginia Beach	36.83381	-76.1271	2223.9
Virginia Beach City Property-218 S Witchduck Rd	20095041	N	Closed	Confirmed	Virginia Beach	36.83507	-76.1593	2291.5
U-Filler-Up #46	19940149	Y	Closed	Confirmed	Virginia Beach	36.84657	-76.1564	2302.2
Smith Theresa Residence	20075120	N	Closed	Confirmed	Virginia Beach	36.83533	-76.16	2335.5
Virginia Beach City Property - 215 S Witchduck Rd	20095049	N	Closed	Confirmed	Virginia Beach	36.83532	-76.16	2348.1
Sears Roebuck & Co.	19941289	Y	Closed	Suspected	Virginia Beach	36.84657	-76.1357	2375
Virginia Beach City Property - 222 S Witchduck Rd	20095040	N	Closed	Confirmed	Virginia Beach	36.83482	-76.1594	2382.5
Farm Fresh	19891724	Y	Closed	Confirmed	Virginia Beach	36.84433	-76.0698	2459.1
Sears 1265 (Former Sears Automotive Center)	20165094	N	Closed	Confirmed	Virginia Beach	36.84688	-76.1357	2483.8
Armstrong Edgar B Sr Residence	20085013	N	Closed	Confirmed	Virginia Beach	36.83475	-76.16	2510.4
Calvert Residence	20155084	N	Closed	Confirmed	Virginia Beach	36.84655	-76.1093	2511.7
Killmon Earl and Rhonda Residence	20035034	N	Closed	Confirmed	Virginia Beach	36.84662	-76.1114	2526.6

Virginia Beach City Property - 228 S Witchduck Rd	20095039	N	Closed	Confirmed	Virginia Beach	36.83419	-76.1593	2563.4
County View Mobile Court	19997411	N	Closed	Confirmed	Virginia Beach	36.83316	-76.1508	2594.9
Kramer Tire Company Incorporated	20045143	N	Closed	Suspected	Virginia Beach	36.84721	-76.136	2604.9
Holland Michelle Residence	20215228	N	Open	Confirmed	Virginia Beach	36.83334	-76.157	2615.8
Beachy Residence	20145223	N	Closed	Confirmed	Virginia Beach	36.84688	-76.1089	2633
Virginia Beach City Property - 234 S Witchduck Rd	20095053	N	Closed	Confirmed	Virginia Beach	36.83399	-76.1593	2638.6

Table 5 . Registered petroleum tanks identified by DEQ within 0.5-mile of the project

Facility Name	Facility ID	Location	Facility Active	Federally Registered	Number of Active USTs	Number of Inactive USTs	Number of Active ASTs	Number of Inactive ASTs	Latitude	Longitude	Distance from Centerline (feet)
Wawa Food Market #671	5038444	Virginia Beach	Y	Y	5	0	0	0	36.83385212	76.09577393	2035.7
VA0480	5004481	Virginia Beach	Y	Y	6	0	0	0	36.834287	76.09590068	1878.4
VDOT - Expressway Area Headquarters	5019787	Virginia Beach	Y	Y	2	3	2	0	36.83482863	76.11165499	1768.6
GUILLE STEEL PRODUCTS CO	5026394	Virginia Beach	N	Y	0	1	0	0	36.835984	-76.159599	2080.7
7-Eleven #37124	5042698	Virginia Beach	Y	Y	3	1	0	0	36.83600756	76.15544385	1587.3
UNION #56-9656-202	5014502	Virginia Beach	N	Y	0	4	0	0	36.834796	-76.095476	1690.0

LYNNHAVEN ELEM SCHOOL	5001180	Virginia Beach	N	Y	0	1	0	0	0	36.83468101	-76.085953	1682.7
U S POSTAL SERV /WITCHDUCK STA	5014242	Virginia Beach	N	Y	0	1	0	0	0	36.836535	- 76.15963301	1938.5
UNION #55- 9655-220	5014511	Virginia Beach	N	Y	0	4	0	0	0	36.83527452	- 76.08848331	1477.8
7-Eleven Store 20165	5004855	Virginia Beach	N	Y	0	5	0	0	0	36.83682045	-76.1599433	1940.3
Waco Equipment Co	5000707	Virginia Beach	N	Y	0	1	0	0	0	36.83743017	- 76.15566985	8081.5
BP SERVICE STATION NO 7490	5015180	Virginia Beach	N	Y	0	3	0	0	0	36.836252	-76.096288	1166.1
former Blue Linx Corporation	5000022	Virginia Beach	N	Y	0	4	0	0	0	36.83749878	- 76.15487599	1038.6
Pavano Paul Property - Former Gas Station	5039289	Virginia Beach	N	N	0	2	0	0	0	36.836627	-76.096308	1029.7
McDonalds Restaurant Store #6542	5010235	Virginia Beach	N	Y	0	1	0	0	0	36.8376	- 76.13687899	890.6
BAILEY WELDING CORP	5012824	Virginia Beach	N	Y	0	2	0	0	0	36.83808948	- 76.15510376	824.8
INDEPENDENT AUTOMOTIVE WHSE INC	5000521	Virginia Beach	N	Y	0	1	0	0	0	36.83816062	- 76.15533879	804.0
PLAZA TRAIL U- HAUL #825-57	5011486	Virginia Beach	N	Y	0	4	0	0	0	36.837242	- 76.08953999	769.2
Carmax #7130	5039863	Virginia Beach	Y	Y	1	0	2	0	0	36.83761427	- 76.10654521	724.8
Verizon-Plaza Trail	5005385	Virginia Beach	Y	Y	0	1	1	0	0	36.83748	-76.089673	683.0

River Pointe Rehabilitation & Healthcare Cent	5019410	Virginia Beach	N	Y	0	2	0	0	0	0	36.838191	-76.118181	580.1
SOUTH PLAZA THRIFT STORE	5001357	Virginia Beach	N	Y	0	1	0	0	0	0	36.837846	-	550.2
COUNTY VIEW MOBILE HOME PARK	5027372	Virginia Beach	N	N	0	1	0	0	0	0	36.839129	-76.150133	422.6
VIRGINIA BEACH BRANCH	5007787	Virginia Beach	N	Y	0	2	0	0	0	0	36.83861799	-76.113084	395.9
Happy Shopper #7	5007884	Virginia Beach	Y	Y	4	0	0	0	0	0	36.83873378	-	358.0
SEARS ROEBUCK & CO	5018563	Virginia Beach	N	Y	0	1	0	0	0	0	36.83993063	-	842.7
FLAIR PROPERTIES ASSOC	5006804	Virginia Beach	N	Y	0	1	0	0	0	0	36.838235	-76.072902	662.8
Polynesian Pools	5038862	Virginia Beach	N	N	0	1	0	0	0	0	36.839141	-76.103065	155.8
Contractors Paving Company Inc	5018579	Virginia Beach	N	Y	0	5	0	0	4	0	36.839193	-76.104316	147.6
Hall Nissan	5025580	Virginia Beach	N	Y	0	2	0	0	0	0	36.839373	-	101.8
FORD PILE FOUNDATIONS INC	5010773	Virginia Beach	N	Y	0	4	0	0	0	0	36.8404	-76.1501	45.7
Virginia Paving Company - VA Beach Plant	5000328	Virginia Beach	Y	Y	1	6	6	3	0	0	36.8404	-76.1501	45.7
Papco Inc - Southern Blvd	5001239	Virginia Beach	Y	Y	4	7	30	0	0	0	36.840427	-76.151141	50.1
Euclid Maintenance Yard	5010624	Virginia Beach	N	Y	0	3	0	0	0	0	36.840527	-76.154165	71.0

Virginia Beach Euclid Consolidated Fuel Site	5024991	Virginia Beach	Y	Y	2	0	0	0	0	0	0	36.840557	-76.154165	70.0
ENDOWMENT & FOUND REALTY LTD	5016349	Virginia Beach	N	Y	0	2	0	0	0	0	0	36.840237	-76.131259	101.1
HRSD - Independence Blvd Pumping Station	5016816	Virginia Beach	Y	Y	1	1	0	0	0	0	0	36.84036633	76.13761417	104.2
Pro-Blue	5024025	Virginia Beach	N	Y	0	1	0	0	0	0	0	36.839431	-76.090334	25.8
7-Eleven #38165	5015726	Virginia Beach	Y	Y	3	10	0	0	0	0	0	36.83979033	76.09781972	114.9
PRINCESS ANNE PLAZA PHASE II	5027423	Virginia Beach	N	Y	0	2	0	0	0	0	0	36.83965	-76.085902	126.6
US Postal Service - Witchduck Station	5022088	Virginia Beach	N	Y	0	1	0	0	0	0	0	36.841019	-76.140213	319.1
Columbus Street Water Pump Station	5010618	Virginia Beach	Y	Y	1	1	0	0	0	0	0	36.84121404	76.14459411	371.1
AARON RENTS, INC	5023158	Virginia Beach	N	Y	0	1	0	0	0	0	0	36.840226	-76.095814	283.9
EXXON S/S #2-4686	5009970	Virginia Beach	N	Y	0	8	0	0	0	0	0	36.840281	-76.097757	275.7
VIRGINIA BEACH DODGE	5008081	Virginia Beach	N	Y	0	3	0	0	0	0	0	36.84037	-76.093318	351.9
TAYLORS DO-IT CENTER	5002616	Virginia Beach	N	Y	0	1	0	0	0	0	0	36.840442	-76.092203	382.9
Priority Lexus Virginia Beach	5009545	Virginia Beach	N	Y	0	10	0	0	0	0	0	36.840866	76.11187599	429.4
BJs Wholesale Club 36	5039883	Virginia Beach	Y	Y	3	0	0	0	0	0	0	36.84083025	76.10042666	479.0

HARRIS J E & E PERREL	5016861	Virginia Beach	N	Y	0	2	0	0	0	36.842073	-	76.15630101	730.0
VIRGINIA BEACH SCHOOL SUPPLY FACILITY	5001151	Virginia Beach	N	Y	0	2	0	0	0	36.842127	-	76.15877801	1275.9
SUNRISE HEALTHCARE/ LYNN SHORES MANOR	5028855	Virginia Beach	N	Y	0	1	0	0	0	36.84115	-76.109332		544.2
Air Specialty Corp	5003167	Virginia Beach	N	N	0	1	0	0	0	36.842408	-76.157984		1145.9
Rennies #639	5016176	Virginia Beach	N	Y	0	6	0	0	0	36.84116822	-	76.09034865	656.9
7 Eleven 33537	5039820	Virginia Beach	Y	Y	2	0	0	0	0	36.84229195	-	76.14551255	758.2
Virginia Beach City - Renaissance Academy	5001150	Virginia Beach	N	Y	0	2	0	0	0	36.842587	-76.158096		1213.6
MECHANICAL EQUIPMENT SALES	5027595	Virginia Beach	N	N	0	1	0	0	0	36.842693	-76.152859		867.1
Hall Honda	5026661	Virginia Beach	N	Y	0	2	0	0	0	36.841576	-76.094765		781.6
Sams Club 4711	5038527	Virginia Beach	Y	Y	3	0	0	0	0	36.84149262	-	76.08741227	790.6
SHELL SERVICE STATION	5014361	Virginia Beach	N	Y	0	4	0	0	0	36.841627	-76.091194		820.9
Social Services	5010654	Virginia Beach	N	Y	0	1	0	0	0	36.841807	-76.092769		876.6
MCLESKEY SITE	5024943	Virginia Beach	N	Y	0	1	0	0	0	36.841864	-76.090392		910.0
Central Library	5000519	Virginia Beach	N	Y	0	1	0	0	0	36.842448	-76.115468		986.6

Birchwood Sewage Pump Station	5010611	Virginia Beach	Y	Y	0	1	1	0	0	36.842473	-76.105453	1047.7
Phillips Automotive Inc	5008876	Virginia Beach	Y	Y	0	6	3	0	0	36.843573	-76.148382	1207.0
Ren Corp	5020707	Virginia Beach	N	Y	0	2	0	0	0	36.843573	-76.147965	1209.5
PEMBROKE AUTO SALES	5026390	Virginia Beach	N	N	0	0	0	0	0	36.843473	-76.141035	1212.8
Krispy Kreme Doughnut Corp	5017310	Virginia Beach	N	Y	0	1	0	0	0	36.843573	-76.145934	1223.1
TWO PESOS	5026742	Virginia Beach	N	Y	0	1	0	0	0	36.843381	-76.134898	1220.5
Kroger Fuel Center- R539	5041826	Virginia Beach	Y	Y	3	0	0	0	0	36.84246744	76.08811177	1142.7
DOMINION CHRYSLER-PLYMOUTH, INC	5021950	Virginia Beach	N	Y	0	1	0	0	0	36.843283	-76.126837	1226.9
PETES TRANSMISSION SERVICE	5021605	Virginia Beach	N	Y	0	2	0	0	0	36.842473	-76.08622	1153.2
WESTERN TERMITE AND PEST CONTROL	5025940	Virginia Beach	N	Y	0	1	0	0	0	36.843173	-76.119327	1226.3
Verizon - VRBVACC	5005381	Virginia Beach	Y	Y	0	2	1	0	0	36.84386239	76.15200366	1299.1
Heritage Transmission	5014924	Virginia Beach	N	Y	0	5	0	0	0	36.843805	-76.145934	1307.6
Phillips VoIvo Virginia Beach	5020719	Virginia Beach	Y	Y	0	1	1	0	0	36.84390001	76.14965401	1316.5
Continental Imports	5000664	Virginia Beach	Y	Y	0	2	1	0	0	36.84390001	76.14965401	1316.5
PARR INTERNATIONAL AUTO	5018259	Virginia Beach	N	Y	0	4	0	0	0	36.8439	-76.149032	1319.9

FIRESTONE SERVICE CENTER	5005205	Virginia Beach	N	Y		0	0	1	0	0	0	36.8438	-76.143865	1316.9
WESTERN AUTO SUPPLY COMPANY	5022885	Virginia Beach	N	Y		0	0	1	0	0	0	36.8438	76.14364901	1317.9
ARAGONA U-HAUL 825-51	5011482	Virginia Beach	N	Y		0	0	5	0	0	0	36.8439	76.14849799	1323.9
Euclid	5007077	Virginia Beach	Y	Y		4	0	0	0	0	0	36.84410682	76.15714726	1501.8
PRINCESS ANNE HIGH SCHOOL	5001191	Virginia Beach	N	Y		0	0	1	0	0	0	36.8435	-76.125845	1310.7
SEARS ROEBUCK & CO	5018567	Virginia Beach	N	Y		0	0	1	0	0	0	36.84368	-76.134595	1335.5
THALIA LYNN BAPTIST CHURCH	5000674	Virginia Beach	N	Y		0	0	1	0	0	0	36.8435	-76.125485	1290.6
Thalia BP	5010040	Virginia Beach	N	Y		0	0	4	0	0	0	36.843414	76.12102999	1307.4
Budget Service Co	5000354	Virginia Beach	N	Y		0	0	1	0	0	0	36.842805	-76.087089	1269.7
BECKER WMH & S J TEITELMAN	5021796	Virginia Beach	N	Y		0	0	1	0	0	0	36.84384901	-76.136693	1394.0
7 Eleven #38167	5009930	Virginia Beach	Y	Y		3	0	4	0	0	0	36.84387732	76.13732202	1381.9
City OF Virginia Beach	5025015	Virginia Beach	N	Y		0	0	1	0	0	0	36.843947	-76.136688	1411.6
Thalia Shell #2217	5014324	Virginia Beach	N	Y		0	0	4	0	0	0	36.84391214	76.13156943	1429.8
Harold Clemet	5021379	Virginia Beach	N	N		0	0	1	0	0	0	36.843421	-76.103765	1401.6
CHECKERED FLAG MITSUBUSHI & HYUNDAI/ISUZU	5021496	Virginia Beach	Y	Y		0	0	3	1	0	0	36.842922	-76.077359	1364.0

BILLSTORY PROPERTY	5026640	Virginia Beach	N	N	0	1	0	0	0	36.843187	-76.074981	1506.3
Chevron	5015731	Virginia Beach	N	Y	0	5	0	0	0	36.843576	-76.078718	1593.9
Thalia Fire Station #7	5010655	Virginia Beach	N	Y	0	1	0	0	0	36.844479	-76.12084	1692.3
Hall Chrysler Jeep	5008050	Virginia Beach	N	Y	0	7	0	0	0	36.843741	-76.081568	1642.6
Kings Grant BP	5003727	Virginia Beach	N	Y	0	8	0	0	0	36.843752	-76.077922	1662.0
FARM FRESH	5024956	Virginia Beach	N	Y	0	3	0	0	0	36.84359799	-76.067991	2637.8
FORMER TEXACO 23-194-0241	5019114	Virginia Beach	N	Y	0	4	0	0	0	36.84373	-76.072091	1915.5
CHECKERED FLAG SUZUKI	5024479	Virginia Beach	N	Y	0	1	0	0	0	36.843775	-76.071046	2081.4
CHECKERED FLAG PORSCHE	5000554	Virginia Beach	Y	Y	0	2	1	0	0	36.84388	76.06994301	2304.3
Checked Flag Toyota	5015614	Virginia Beach	Y	Y	0	2	4	0	0	36.844037	-76.071365	2113.8
ABANDONED GAS STATION	5026691	Virginia Beach	N	Y	0	2	0	0	0	36.84591079	76.15581026	2036.5
Giant Gas Station #10	5007009	Virginia Beach	N	Y	0	3	0	0	0	36.844199	-76.070074	2371.7
Wawa Food Market 694	5039545	Virginia Beach	Y	Y	5	0	0	0	0	36.844288	-76.07411	1941.2
MISTER JIMS	5000531	Virginia Beach	N	Y	0	4	0	0	0	36.844295	-76.071834	2133.5
EXXON S/S #2-6500	5009748	Virginia Beach	N	Y	0	5	0	0	0	36.84607849	76.15679124	2147.9
PINE TREE INN	5037713	Virginia Beach	N	N	0	1	0	0	0	36.844467	-76.074645	1979.6
HRSO - Pine Tree Pumping Station	5016814	Virginia Beach	Y	Y	1	1	0	0	0	36.84448	-76.073164	2063.0

Witchduck Citgo	5020006	Virginia Beach	N	Y	0	0	3	0	0	0	36.84665431	76.15639761	2329.2
Albano Cleaners Inc	5012756	Virginia Beach	N	Y	0	0	1	0	0	0	36.846173	76.131119399	2255.1
ZAYRE DEPT STORE #2536	5020008	Virginia Beach	N	Y	0	0	1	0	0	0	36.84719085	76.15672661	2539.0
THALIA ELEMENTARY SCHOOL	5001195	Virginia Beach	N	Y	0	0	2	0	0	0	36.846619	-76.120833	2471.3
7-Element 22727	5004856	Virginia Beach	Y	Y	2	0	3	0	0	0	36.84734823	76.13800832	2634.5
MALIBU ELEM SCHOOL	5001182	Virginia Beach	N	Y	0	0	1	0	0	0	36.846629	-76.097504	2606.0



MEMORANDUM

To: Stacey Ellis, Dominion Energy Virginia
From: Grace Flick, C2 Environmental, Inc.
Date: June 17, 2022
Project: Lines #2019 and #2007 Rebuild Project
Reference: Threatened and Endangered Species Review

On behalf of Dominion Energy Virginia (Dominion), C2 Environmental, Inc. (C2Env) has completed online database searches for federal and state threatened and endangered species for the Lines #2019 and #2007 Rebuild Project. The proposed project includes the rebuild of approximately 4.54 miles of existing 230kV overhead electric transmission line. The project will take place within the existing, cleared transmission line right-of-way (ROW) that begins at Structure 2019/20 and terminates at the Lynnhaven Substation in Virginia Beach, Virginia. The online database searches included the following:

- U.S. Fish & Wildlife Service (USFWS) Information, Planning, and Conservation (IPaC)
- USFWS Critical Habitat for Threatened and Endangered Species Mapper
- USFWS Bald Eagle Concentration Area Map
- Center for Conservation Biology (CCB) Eagle and Osprey Nest Locator for Virginia
- Department of Wildlife Resources (DWR) Virginia Fish and Wildlife Information Service (VAFWIS)
- DWR Northern Long-eared Bat (NLEB) Winter Habitat and Roost Trees Map
- Virginia Department of Conservation and Recreation (DCR) Natural Heritage Data Explorer (NHDE)

Database searches were completed on March 10, 2022 and revised June 16, 2022.

Results

Species identified by the database searches to have a confirmed or potential presence within the project vicinity are discussed below in Table 1.

Table 1. Database Search Results

Species	Status	Database	Results
Northern long-eared bat (<i>Myotis septentrionalis</i>)	FT, ST	USFWS	Noted as potentially occurring in the project area. No known hibernacula or maternity roosts are identified in the project area
Monarch Butterfly (<i>Danaus plexippus</i>)	FC	USFWS	Noted as potentially occurring in the project area.
West Indian manatee (<i>Trichechus manatus</i>)	FT, SE	VAFWIS	Observed within the vicinity of the project
Canebrake rattlesnake (<i>Crotalus horridus</i>)	SE	VAFWIS	Observed within the vicinity of the project
Peregrine falcon (<i>Falco peregrinus</i>)	ST	VAFWIS	Observed within the vicinity of the project
Eastern big-eared bat (<i>Corynorhinus rafinesquii macrotis</i>)	SE	DCR	Noted as potentially occurring in the vicinity of the project
Chicken turtle (<i>Deirochelys reticularia</i>)	SE	DCR	Noted as potentially occurring in the vicinity of the project
Bald eagle (<i>Haliaeetus leucocephalus</i>)	FP	CCB Eagle Nest Locator, USFWS Bald Eagle Concentration Map	No bald eagle nests are located within 660 feet of the project area. No bald eagle concentration areas are present within the project vicinity.

FT: federally threatened, FE: federally endangered, FP: federally protected, ST: state threatened, SE: state endangered, FC: federal candidate

Conclusions

The following conclusions are based upon the proposed scope of work, as described by Dominion. The proposed scope of work assumes construction access will avoid stream crossings where practical or use crane mats to span stream crossings, and erosion and sediment controls will be used as appropriate throughout the project to protect wetlands and water resources. The scope of work assumes the work will occur within the existing, cleared and maintained ROW, although limited clearing of danger trees may be required within the existing ROW easement and construction access roads.

The project is located within the White Nose Syndrome Zone for the federal and state threatened northern long-eared bat (NLEB). The NLEB has been identified by USFWS as potentially occurring within the proposed project area. However, DWR records indicate that

no known hibernacula or maternity roost trees occur within the vicinity. The proposed project will occur within an existing maintained ROW and tree removal is expected to be limited to danger trees and select limbing. The project is expected to rely upon the Programmatic Biological Opinion for the Final 4(d) Rule on the NLEB with no required time of year restriction for tree removal.

USFWS identified the federal candidate species monarch butterfly as potentially occurring in the project area. The species is found in herbaceous and scrub-shrub areas particularly with the presence of milkweed. Although vegetation may be temporarily disturbed due to construction access, no long-term effects to this species or its habitat are expected.

DWR identified the federal threatened and state endangered west Indian manatee as occurring within the vicinity of the project. This species prefers shallow freshwater or saltwater water habitat with dense aquatic vegetation particularly in warmer climates, such as near the Gulf of Mexico. No impacts to this species are expect as no in-stream work is proposed.

The state endangered canebrake rattlesnake was identified by DWR as occurring within the project vicinity. This species can be found in forests, swampy areas, and floodplains. Although vegetation within the ROW may be temporarily disturbed due to construction access, no long-term effects to this species or its habitat are expected.

The state threatened peregrine falcon has been identified by DWR as occurring within the project vicinity. This species can be found nesting on tall ledges, such as cliffs or buildings, to allow for hunting in open areas below. No adverse effect to this species or its habitat is expected as a result of this project as tree clearing will be limited to danger tree removal.

The state endangered eastern-big eared bat has been identified by DCR as potentially occurring within the project vicinity. The species' preferred habitat includes hollow trees which may occur near the project area. No adverse effect to this species or its habitat are expected as a result of this project as tree clearing will be limited to danger tree removal.

The state threatened chicken turtle been identified by DCR as potentially occurring within the project vicinity. This species tends to occupy a variety of habitat types, generally preferring unmoving, shallow water where dense vegetation is present and avoiding ponds and reservoirs. No impacts to this species are expected as no in-stream or open water work is anticipated in conjunction with this project.

The CCB Bald Eagle Nest Locator identified no bald eagle nests within 660-feet of the project. The closest identified nest is approximately 1.1 miles from the project area. The

Lines #2019 and #2007 Rebuild Project
Threatened and Endangered Species Review
Page **4** of **4**

USFWS Bald Eagle Concentration Area Map confirms that the project is not located within a designated Eagle Concentration Area.

The complete results from the database searches are attached for your reference. If you have any questions, please contact me at your earliest convenience.

Attachments: USFWS-IPaC Database Search Results
USFWS VA Field Office Critical Habitat Map
USFWS Bald Eagle Concentration Area Map
CCB Bald Eagle Nest Locator Map
DWR - VAFWIS Database Search Results
DWR NLEB Winter Habitat and Roost Tree Map
DCR-NHDE Database Search Results

USFWS-IPaC



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Virginia Ecological Services Field Office
6669 Short Lane
Gloucester, VA 23061-4410
Phone: (804) 693-6694 Fax: (804) 693-9032

In Reply Refer To:
Project Code: 2022-0045126
Project Name: Lines #2019 and #2007 Rebuild Project

June 16, 2022

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

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A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see <https://www.fws.gov/birds/policies-and-regulations.php>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Project Code in the header of this

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letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
 - Migratory Birds
-

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Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

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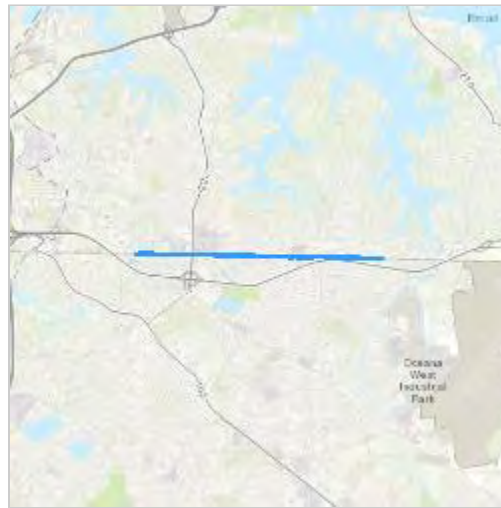
Project Summary

Project Code: 2022-0045126
Event Code: None
Project Name: Lines #2019 and #2007 Rebuild Project
Project Type: Transmission Line - Maintenance/Modification - Above Ground
Project Description: Transmission restoration from Structure 2019/20 to the Lynnhaven Substation in Virginia Beach, Virginia

Project Location:

Approximate location of the project can be viewed in Google Maps: [https://](https://www.google.com/maps/@36.839739,-76.11322058000002,14z)

www.google.com/maps/@36.839739,-76.11322058000002,14z



Counties: Virginia Beach County, Virginia

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Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

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USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

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Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

-
1. The [Migratory Birds Treaty Act](#) of 1918.
 2. The [Bald and Golden Eagle Protection Act](#) of 1940.
 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern \(BCC\) list](#) or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Oct 15 to Aug 31
Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10

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NAME	BREEDING SEASON
Blue-winged Warbler <i>Vermivora pinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds May 1 to Jun 30
Bobolink <i>Dolichonyx oryzivorus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
Canada Warbler <i>Cardellina canadensis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 10
Kentucky Warbler <i>Oporornis formosus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 20
Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Prairie Warbler <i>Dendroica discolor</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Jul 31
Prothonotary Warbler <i>Protonotaria citrea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10
Rusty Blackbird <i>Euphagus carolinus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds elsewhere
Short-billed Dowitcher <i>Limnodromus griseus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480	Breeds elsewhere
Wood Thrush <i>Hylocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Aug 31

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the

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FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (—)

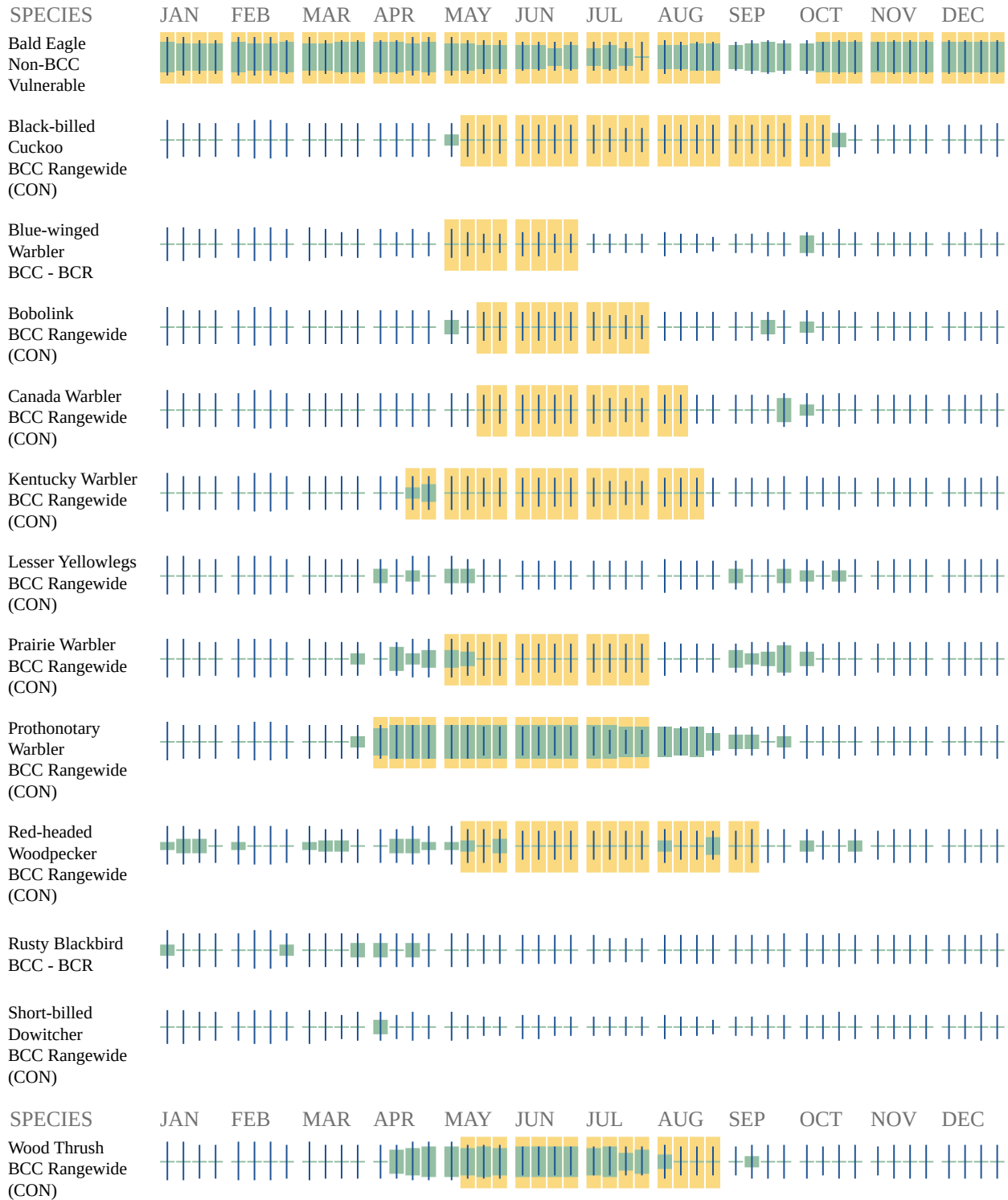
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

■ probability of presence ■ breeding season | survey effort — no data

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Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>

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- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#) .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

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To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

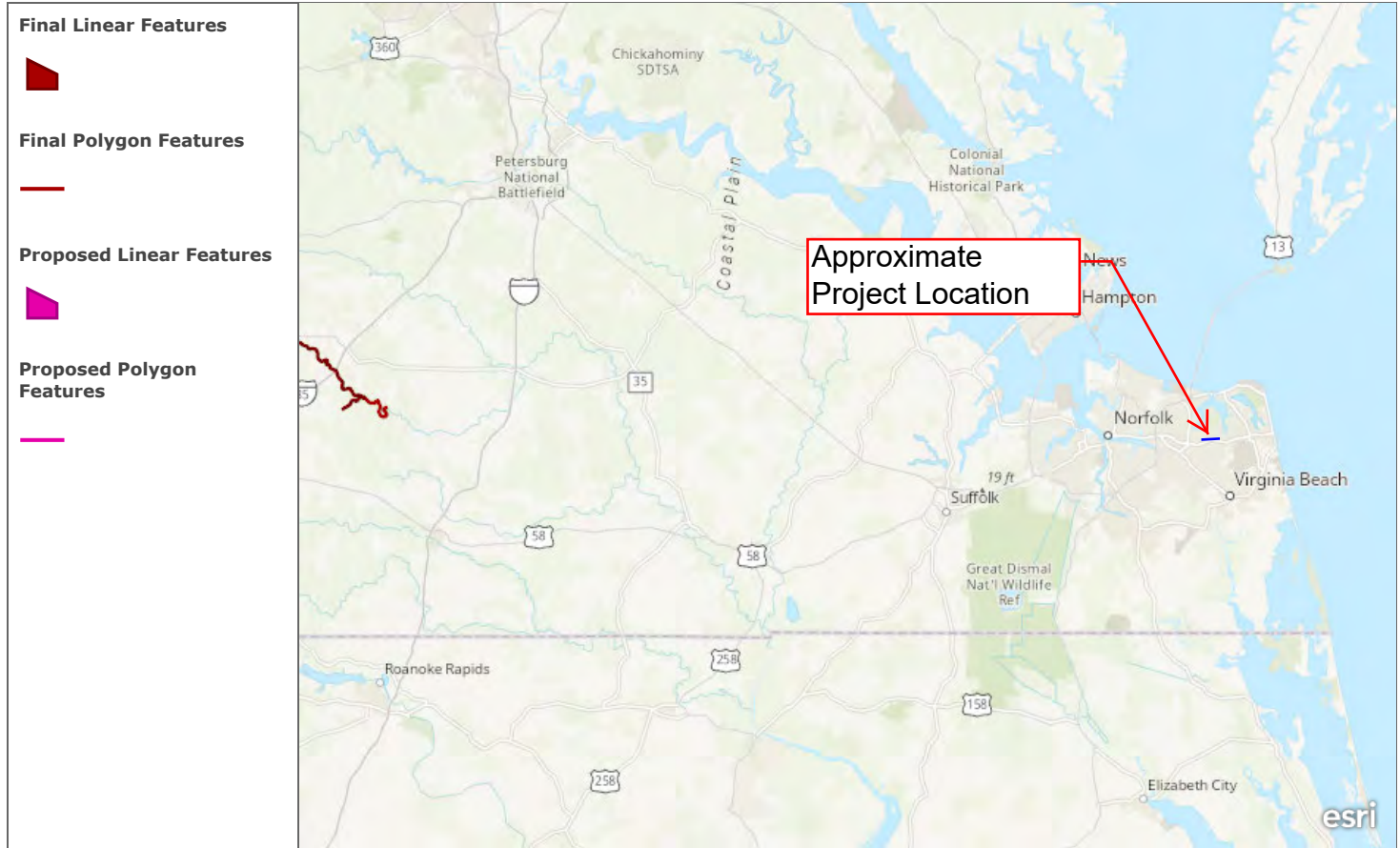
The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

IPaC User Contact Information

Agency: C2 Environmental
Name: Thomas Peery
Address: 11846 Rock Landing Drive, Suite A
City: Newport News
State: VA
Zip: 23606
Email: tpeery@c2environmental.com
Phone: 7572230071

USFWS Critical Habitat

Critical Habitat for Threatened & Endangered Species [USFWS]

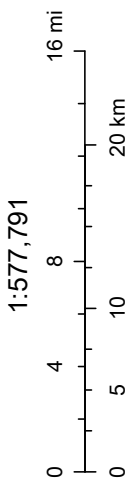
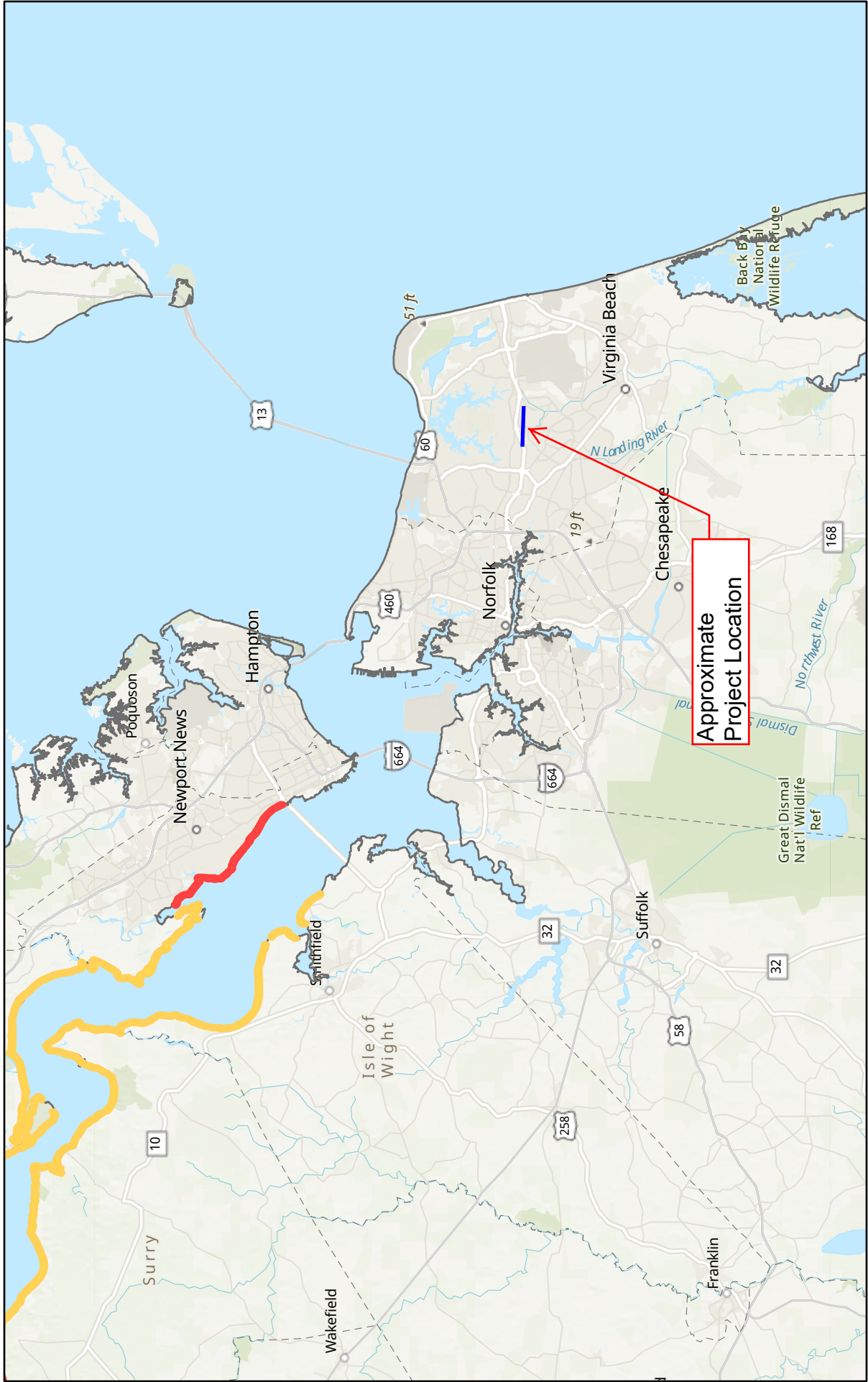


A specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection.

U.S. Fish and Wildlife Service | Esri, CGIAR, USGS | VITA, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS

USFWS Bald Eagle Concentration Map

Bald Eagle Concentration Areas



March 10, 2022

CCB Bald Eagle Nest Locator Map



The CENTER for
CONSERVATION
BIOLOGY

CCB Mapping Portal



Layers: VA Eagle Nest Locator, VA Eagle Nest Buffers

Map Center [longitude, latitude]: [-76.1312198638916, 36.8435677992892]

Map Link:

<https://ccbbirds.org/maps/#layer=VA+Eagle+Nest+Locator&layer=VA+Eagle+Nest+Buffers&zoom=14&lat=36.8435677992892&lng=-76.1312198638916&base=World+Imagery+%28ESRI%29>

Report Generated On: 03/10/2022

The Center for Conservation Biology (CCB) provides certain data online as a free service to the public and the regulatory sector. CCB encourages the use of its data sets in wildlife conservation and management applications. These data are protected by intellectual property laws. All users are reminded to view the [Data Use Agreement](#), to ensure compliance with our data use policies. For additional data access questions, view our [Data Distribution Policy](#), or contact our Data Manager, Marie Pitts, at mlpitts@wm.edu or 757-221-7503.

Report generated by [The Center for Conservation Biology Mapping Portal](#).

To learn more about CCB visit ccbbirds.org or contact us at info@ccbbirds.org

DWR-VAFWIS Database Search Results

VaFWIS - Department of Game and Inland Fisheries

36.83971 -76.11506
is the Search Point

Submit Cancel

Search Point

- Change to "clicked" map point
- Fixed at 36.83971 -76.11506

Show Position Rings

- Yes No
- 1 mile and 1/4 mile at the Search Point

Show Search Area

- Yes No
- 2 Search distance miles buffer

Search Point is at map center

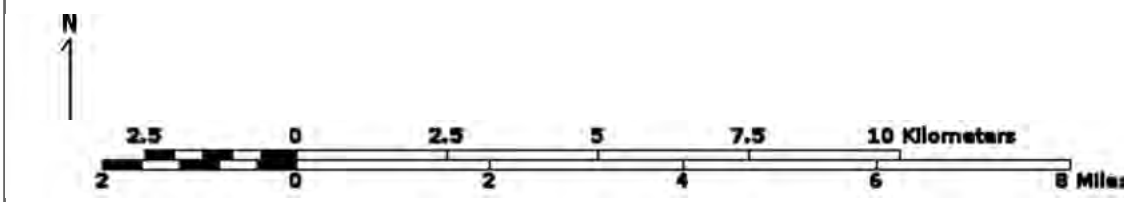
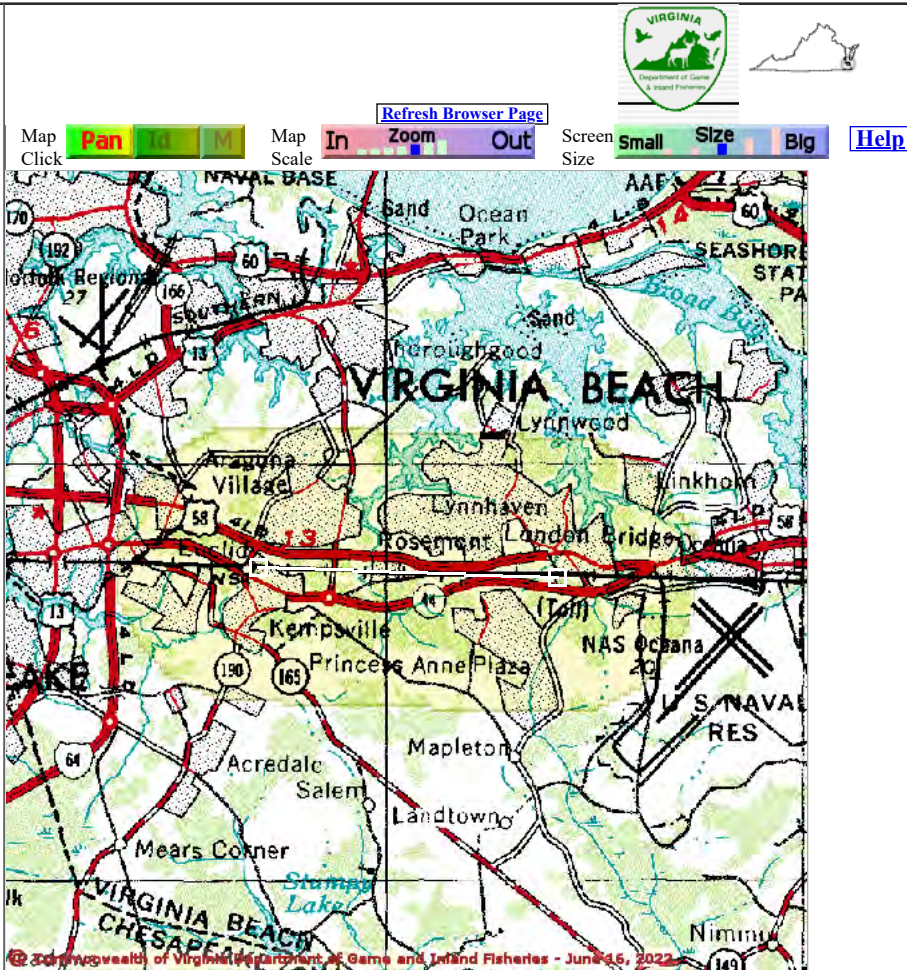
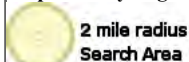
Base Map Choices

Topography

Map Overlay Choices

Current List: Search

Map Overlay Legend



Point of Search 36.83971 -76.11506
Map Location 36.83971 -76.11506

- Select **Coordinate System**:
- Degrees,Minutes,Seconds Latitude - Longitude
 - Decimal Degrees Latitude - Longitude
 - Meters UTM NAD83 East North Zone
 - Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terraserver-usa.com](http://Microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 390978 and top 4087272. Pixel size is 22. . Coordinates displayed are decimal Degrees North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 19200 meters east to west by 19200 meters north to south for a total of 368.6 square kilometers. The map display represents 63002 feet east to west by 63002 feet north to south for a total of 142.3 square miles.

Topographic maps and Black and white aerial photography for year 1990+- are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network. Shaded topographic maps are from TOPO! ©2006 National Geographic <http://www.national.geographic.com/topo> All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries.

map assembled 2022-06-16 21:24:32 (qa/qc March 21, 2016 12:20 - tn=1189800 dist=3218 I)
\$poi=36.8404200 -76.1551100

VaFWIS Search Report Compiled on 6/16/2022, 2:06:12 PM[Help](#)

Known or likely to occur within a **2 mile buffer around line beginning 36,50,27.6 -76,10,28.3**
in **710 Norfolk City, 810 Virginia Beach City, VA**

[View Map of
Site Location](#)

643 Known or Likely Species ordered by Status Concern for Conservation
(displaying first 47) (47 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
010031	FESE	Ia	Sturgeon, shortnose	Acipenser brevirostrum		BOVA
030074	FESE	Ia	Turtle, Kemp's ridley sea	Lepidochelys kempii		BOVA,HU6
010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus		BOVA
030075	FESE	Ic	Turtle, leatherback sea	Dermochelys coriacea		BOVA
030073	FESE		Turtle, Hawksbill Sea	Eretmochelys imbricata		BOVA
040183	FESE		Tern, roseate	Sterna dougallii dougallii		BOVA,HU6
030071	FTST	Ia	Turtle, loggerhead sea	Caretta caretta		BOVA,HU6
040144	FTST	Ia	Knot, red	Calidris canutus rufa		BOVA,HU6
040110	FTSE	Ia	Rail, eastern black	Laterallus jamaicensis jamaicensis		BOVA
050022	FTST	Ia	Bat, northern long-eared	Myotis septentrionalis		BOVA
030072	FTST	Ib	Turtle, green sea	Chelonia mydas		BOVA,HU6
040120	FTST	IIa	Plover, piping	Charadrius melodus		BOVA
120030	FTSE	IVb	Manatee, West Indian	Trichechus manatus	Yes	BOVA,SppObs,HU6
030064	SE	Ia	Turtle, eastern chicken	Deirochelys reticularia reticularia		BOVA,HU6
040118	SE	Ia	Plover, Wilson's	Charadrius wilsonia		BOVA
050034	SE	Ia	Bat, Rafinesque's eastern big-eared	Corynorhinus rafinesquii macrotis		BOVA,HU6
050027	SE	Ia	Bat, tri-colored	Perimyotis subflavus		BOVA

030013	SE	Ia	Rattlesnake, canebrake	Crotalus horridus	Yes	BOVA,Habitat,SppObs,HU6
040096	ST	Ia	Falcon, peregrine	Falco peregrinus	Yes	BOVA,SppObs
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus		BOVA
040379	ST	Ia	Sparrow, Henslow's	Centronyx henslowii		BOVA
040179	ST	Ia	Tern, gull-billed	Gelochelidon nilotica		BOVA
030010	ST	Ia	Lizard, eastern glass	Ophisaurus ventralis		BOVA
040403	ST		Falcon, Arctic peregrine	Falco peregrinus tundrius		BOVA
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
030067	CC	Ia	Terrapin, northern diamond-backed	Malaclemys terrapin terrapin	Potential	BOVA,Habitat,HU6
030063	CC	IIIa	Turtle, spotted	Clemmys guttata		BOVA,HU6
030031	CC	IIIc	Kingsnake, scarlet	Lampropeltis elapsoides		BOVA
040092		Ia	Eagle, golden	Aquila chrysaetos		BOVA
040040		Ia	Ibis, glossy	Plegadis falcinellus		BOVA,HU6
040213		Ic	Owl, northern saw-whet	Aegolius acadicus		BOVA,HU6
040422		Ic	Warbler, Wayne's	Setophaga virens waynei	Potential	Habitat,HU6
020063		Ia	Toad, oak	Anaxyrus quercicus		HU6
020002		Ia	Treefrog, barking	Hyla gratiosa		BOVA,HU6
040052		Ia	Duck, American black	Anas rubripes		BOVA,HU6
040033		Ia	Egret, snowy	Egretta thula		BOVA
040029		Ia	Heron, little blue	Egretta caerulea caerulea		BOVA
040036		Ia	Night-heron, yellow-crowned	Nyctanassa violacea violacea	Yes	BOVA,BBA,SppObs,CWB
040114		Ia	Oystercatcher, American	Haematopus palliatus		BOVA
040192		Ia	Skimmer, black	Rynchops niger		BOVA
040181		Ia	Tern, common	Sterna hirundo	Potential	BOVA,BBA,HU6
040320		Ia	Warbler, cerulean	Setophaga cerulea		BOVA,HU6
040140		Ia	Woodcock, American	Scolopax minor		BOVA,HU6
040203		Ib	Cuckoo, black-billed	Coccyzus erythrophthalmus		BOVA

040105	Iib	Rail, king.	Rallus elegans	Potential	BOVA,Habitat,HU6
040304	Iic	Warbler, Swainson's	Limnothlypis swainsonii		BOVA,HU6
110353	Iic	SPIDER, FUNNEL-WEB	Barronopsis jeffersi		HU6

To view **All 643 species** [View 643](#)

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need; III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

Virginia Wildlife Action Plan Conservation Opportunity Ranking:

- a - On the ground management strategies/actions exist and can be feasibly implemented.;
- b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;
- c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

[View Map of All Query Results from All Observation Tables](#)

Bat Colonies or Hibernacula: **Not Known**

Anadromous Fish Use Streams (1 records)

[View Map of All Anadromous Fish Use Streams](#)

Stream ID	Stream Name	Reach Status	Anadromous Fish Species			View Map
			Different Species	Highest TE *	Highest Tier **	
P195	North Landing River	Potential	0			Yes

Impediments to Fish Passage (1 records)

[View Map of All Fish Impediments](#)

ID	Name	River	View Map
155	KINGS LAKE DAM	HEBDEN COVE	Yes

Colonial Water Bird Survey (8 records)

[View Map of All Query Results Colonial Water Bird Survey](#)

Colony_Name	N Obs	Latest Date	N Species			View Map
			Different Species	Highest TE *	Highest Tier **	
Lynnhaven Mall	1	Jul 16 2008	1		III	Yes
Urban, Princess Anne, Virginia Beach	10	Jun 15 2013	2		II	Yes
Urban, Kempsville, Norfolk	1	Jun 14 2013	1		II	Yes

Avalon Terrace	1	Jul 11 2003	1		II	Yes
Gilbert	1	Jul 11 2003	1		II	Yes
Picket	1	Jul 11 2003	1		II	Yes
West Point	1	Jul 11 2003	1		II	Yes
Easton Place	1	Jun 1 1993	1		II	Yes

Displayed 8 Colonial Water Bird Survey

Threatened and Endangered Waters

N/A

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests

N/A

Species Observations (46 records - displaying first 20 , 3 Observations with Threatened or Endangered species)

[View Map of All Query Results Species Observations](#)

obsID	class	Date Observed	Observer	N Species			View Map
				Different Species	Highest TE*	Highest Tier**	
62900	SppObs	Oct 13 1992	Mark Swingle, Marine Science Museum	1	FTSE	IV	Yes
4931	SppObs	Nov 1 1990	Don Schwab, VDGIF	1	SE	II	Yes
62360	SppObs	Sep 24 1999	Michael A. Yates	1	ST	I	Yes
777	SppObs	Jan 1 1900		1		II	Yes
776	SppObs	Jan 1		1		II	Yes

		1900				
603933	SppObs	Jun 30 2008	Jason Hill and Mike Hutch	6		III Yes
426742	SppObs	Dec 1 2005	VCU - INSTAR	6		III Yes
632358	SppObs	Jun 15 2015	Morgan Ingalls; Amanda Bailey	2		IV Yes
614951	SppObs	Dec 15 2012	Robert ; Rose	2		Yes
616837	SppObs	Jul 31 2012	Jeff; Thompson	1		Yes
616836	SppObs	Jul 31 2012	Jeff; Thompson Maureen; Fender	1		Yes
611305	SppObs	Dec 2 2010	Museum; Staff	1		Yes
426744	SppObs	Sep 21 2007	VCU - INSTAR	5		Yes
303281	SppObs	May 28 2003	Alex Barron	4		Yes
55359	SppObs	May 27 1998	R. Browder, , DEQ	4		Yes
58851	SppObs	May 5 1998	Alan H. Savitzky (Principle Permittee) & Konrad Mebert, Dept. of Biological Science ODU	1		Yes
7641	SppObs	Nov 1 1994	LOU SEIVARD	5		Yes
60534	SppObs	Sep 7 1987	PAGUE, C A	1		Yes
28187	SppObs	Jan 1 1900	Mitchell, J. C.	1		Yes
366426	SppObs	Jan 1 1900		1		Yes

Displayed 20 Species Observations

Selected 46 Observations [View all 46 Species Observations](#)

Habitat Predicted for Aquatic WAP Tier I & II Species

N/A

Habitat Predicted for Terrestrial WAP Tier I & II Species (4 Species)

[View Map of Combined Terrestrial Habitat Predicted for 4 WAP Tier I & II Species Listed Below](#)

ordered by Status Concern for Conservation

BOVA Code	Status*	Tier**	Common Name	Scientific Name	View Map
030013	SE	IIa	Rattlesnake, canebrake	Crotalus horridus	Yes

030067	CC	IIa	Terrapin, northern diamond-backed	Malaclemys terrapin terrapin	Yes
040422		Ic	Warbler, Wayne's	Setophaga virens waynei	Yes
040105		IIb	Rail, king	Rallus elegans	Yes

Virginia Breeding Bird Atlas Blocks (4 records)

[View Map of All Query Results Virginia Breeding Bird Atlas Blocks](#)

BBA ID	Atlas Quadrangle Block Name	Breeding Bird Atlas Species			View Map
		Different Species	Highest TE *	Highest Tier **	
61033	Kempsville, CW	3		II	Yes
61032	Kempsville, NE	3		II	Yes
61031	Kempsville, NW	50		II	Yes
62032	Princess Anne, NE	56		III	Yes

Public Holdings: (1 names)

Name	Agency	Level
Oceana Naval Air Station	Department of the Navy	Federal

Summary of BOVA Species Associated with Cities and Counties of the Commonwealth of Virginia:

FIPS Code	City and County Name	Different Species	Highest TE	Highest Tier
710	Norfolk City	445	FESE	I
810	Virginia Beach City	556	FESE	I

USGS 7.5' Quadrangles:

Kempsville
Princess Anne

USGS NRCS Watersheds in Virginia:

N/A

USGS National 6th Order Watersheds Summary of Wildlife Action Plan Tier I, II, III, and IV Species:

HU6 Code	USGS 6th Order Hydrologic Unit	Different Species	Highest TE	Highest Tier
AS12	Chesapeake Canal	84	FTSE	I
AS13	Upper North Landing River	86	FTSE	I
CB25	Lynnhaven River	97	FESE	I
CB26	Lower Chesapeake Bay-Little Creek	94	FESE	I
JL54	Eastern Branch Elizabeth River	91	FTSE	I

Compiled on 6/16/2022, 2:06:12 PM 11189644.0 report=all searchType=L dist= 3218 poi= 36,50,27.6 -76,10,28.3 siteDD= 36.8410277 -76.1745387;36.8392083 -76.0754276;
PixelSize=64; Anadromous=0.021947; BBA=0.037961; BECAR=0.017952; Bats=0.018264; Buffer=0.147367; County=0.06485; HU6=0.077871; Impediments=0.02106; Init=0.177385;
PublicLands=0.023761; Quad=0.042058; SppObs=0.284139; TEWaters=0.025665; TierReaches=0.040087; TierTerrestrial=0.138745; Total=1.337204; Tracking_BOVA=0.273269; Trout=0.022986;
huva=0.043406

1 Species Observations where Manatee, West Indian (120030) observed

36,50,25.5 -76,09,18.4 is the Search Point

Show Position Rings

Yes No
1 mile and 1/4 mile at the Search Point

Show Search Area

Yes No
2 Search distance miles buffer

Display Search Point is not at center

Base Map Choices

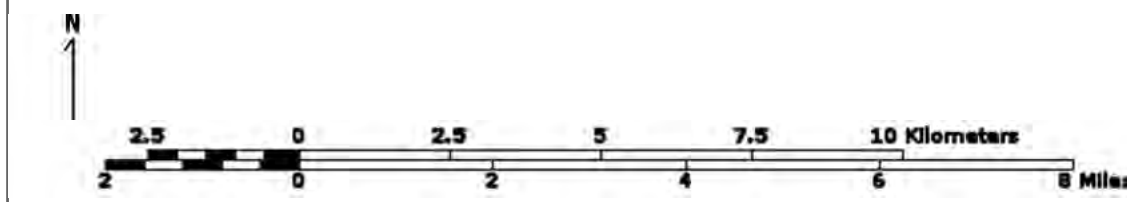
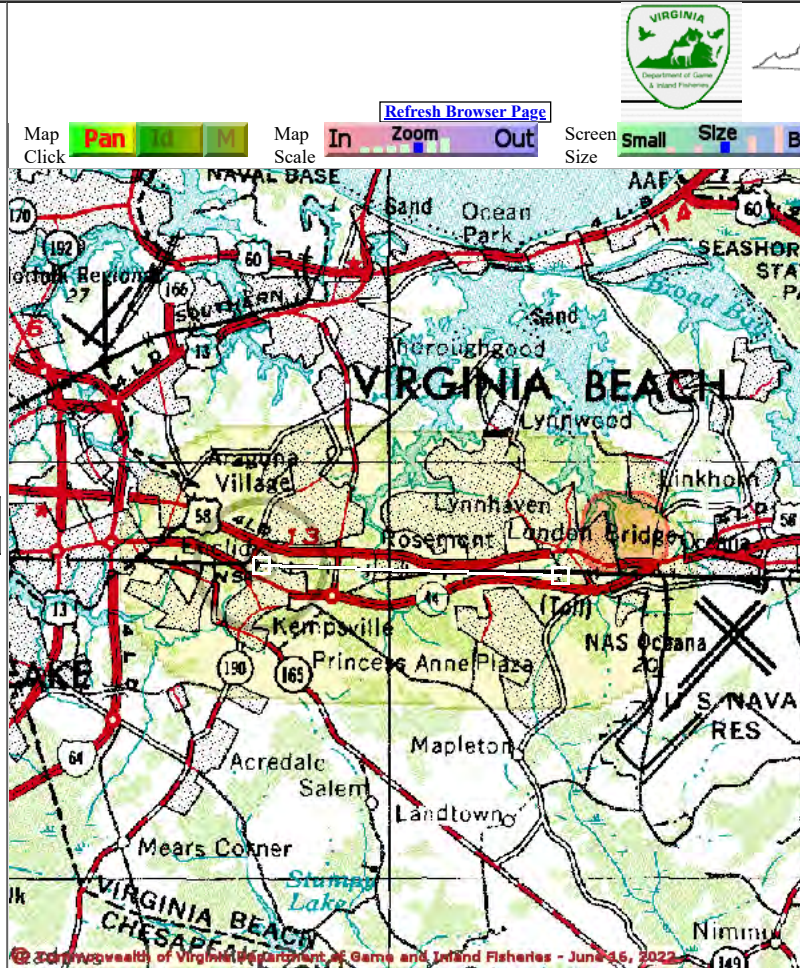
Topography

Map Overlay Choices

Current List: Position, Search, SppObs

Map Overlay Legend

-  Position Rings
1 mile and 1/4 mile at the Search Point
-  2 mile radius Search Area
-  Data Observation Site



Point of Search 36,50,25.5 -76,09,18.4
Map Location 36,50,22.9 -76,06,54.2

- Select Coordinate System:
- Degrees,Minutes,Seconds Latitude - Longitude
 - Decimal Degrees Latitude - Longitude
 - Meters UTM NAD83 East North Zone
 - Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terraserver-usa.com](http://Microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 390978 and top 4087272. Pixel size is 22. . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 19200 meters east to west by 19200 meters north to south for a total of 368.6 square kilometers. The map display represents 63002 feet east to west by 63002 feet north to south for a total of 142.3 square miles.

Topographic maps and Black and white aerial photography for year 1990+- are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network.

Shaded topographic maps are from TOPO! ©2006 National Geographic
<http://www.national.geographic.com/topo>

All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries.

map assembled 2022-06-16 21:25:35 (qa/qc March 21, 2016 12:20 - tn=1189800.1 dist=3218
1)
\$poi=36.8404200 -76.1551099

1 Species Observations where Rattlesnake, canebrake (030013) observed

36,50,25.5 -76,09,18.4 is the Search Point

Show Position Rings

Yes No
1 mile and 1/4 mile at the Search Point

Show Search Area

Yes No
2 Search distance miles buffer

Display Search Point is not at center

Base Map Choices

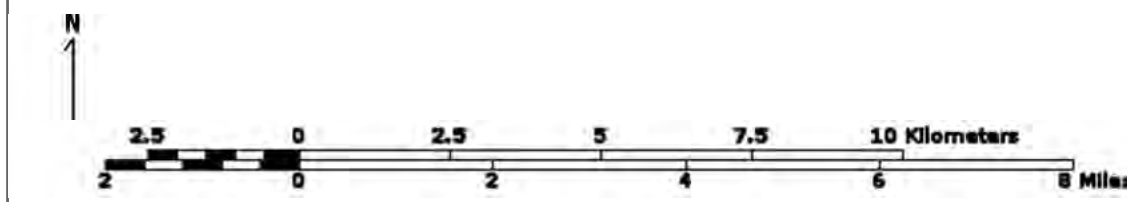
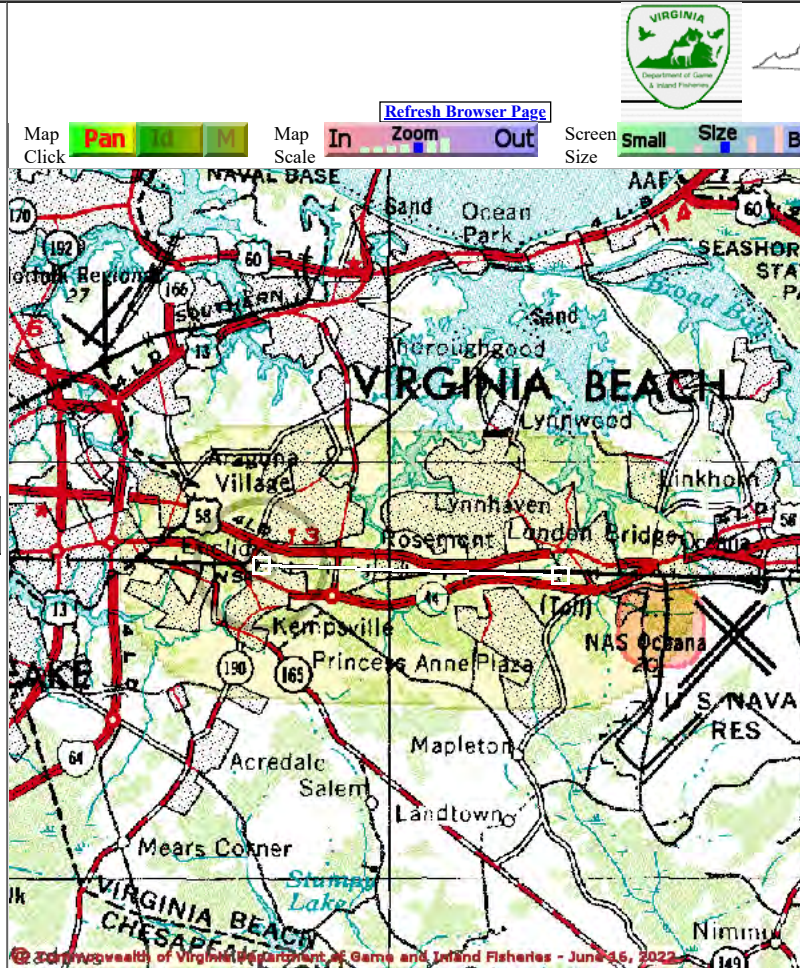
Topography

Map Overlay Choices

Current List: Position, Search, SppObs

Map Overlay Legend

-  Position Rings
1 mile and 1/4 mile at the Search Point
-  2 mile radius Search Area
-  Data Observation Site



Point of Search 36,50,25.5 -76,09,18.4
Map Location 36,50,22.9 -76,06,54.2

- Select Coordinate System:
- Degrees,Minutes,Seconds Latitude - Longitude
 - Decimal Degrees Latitude - Longitude
 - Meters UTM NAD83 East North Zone
 - Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terraserver-usa.com](http://Microsoft.terraserver-usa.com) for details)

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All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries.

map assembled 2022-06-16 21:30:28 (qa/qc March 21, 2016 12:20 - tn=1189800.1 dist=3218 1)
\$poi=36.8404200 -76.1551099

1 Species Observations where Falcon, peregrine (040096) observed

36,50,25.5 -76,09,18.4 is the Search Point

Show Position Rings

Yes No
1 mile and 1/4 mile at the Search Point

Show Search Area

Yes No
2 Search distance miles buffer

Display Search Point is not at center at map center

Base Map Choices

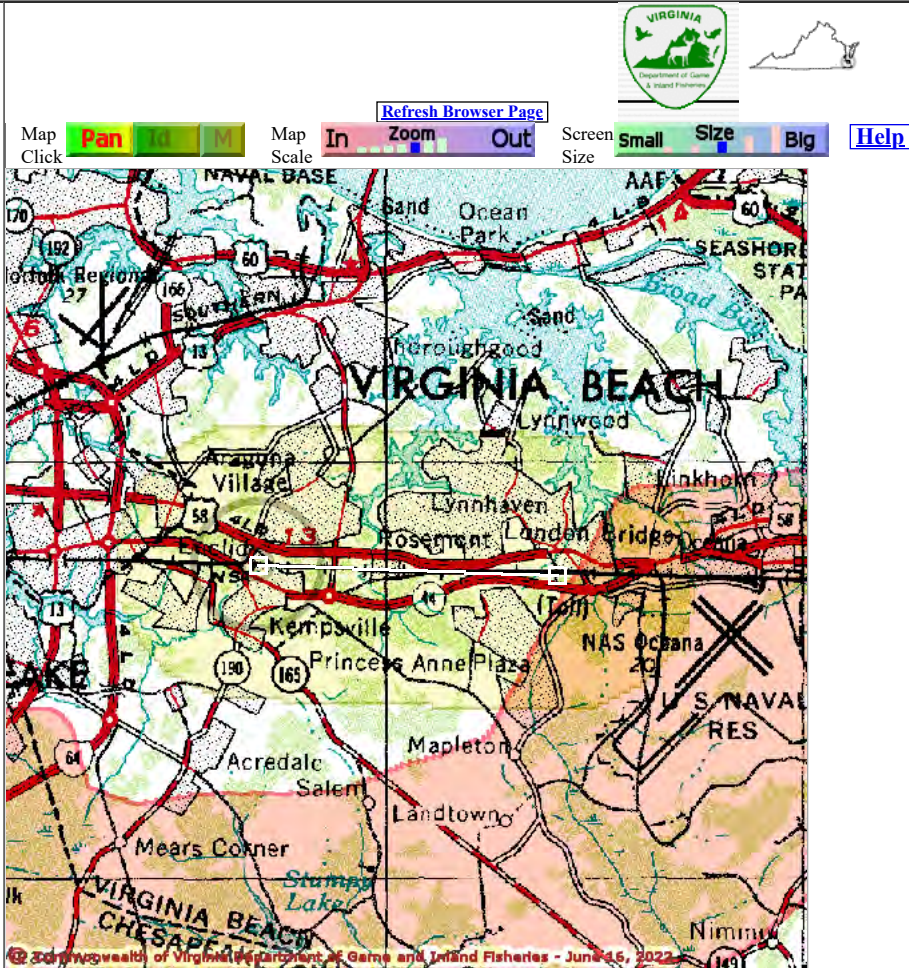
Topography

Map Overlay Choices

Current List: Position, Search, SppObs

Map Overlay Legend

-  **Position Rings**
1 mile and 1/4 mile at the Search Point
-  **2 mile radius Search Area**
-  **Data Observation Site**



Point of Search 36,50,25.5 -76,09,18.4
Map Location 36,50,22.9 -76,06,54.2

- Select **Coordinate System:**
- Degrees,Minutes,Seconds Latitude - Longitude
 - Decimal Degrees Latitude - Longitude
 - Meters UTM NAD83 East North Zone
 - Meters UTM NAD27 East North Zone

Base Map source: USGS 1:250,000 topographic maps (see [Microsoft terraserver-usa.com](http://Microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 390978 and top 4087272. Pixel size is 22. . Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 19200 meters east to west by 19200 meters north to south for a total of 368.6 square kilometers. The map display represents 63002 feet east to west by 63002 feet north to south for a total of 142.3 square miles.

Topographic maps and Black and white aerial photography for year 1990+- are from the United States Department of the Interior, United States Geological Survey. Color aerial photography aquired 2002 is from Virginia Base Mapping Program, Virginia Geographic Information Network.

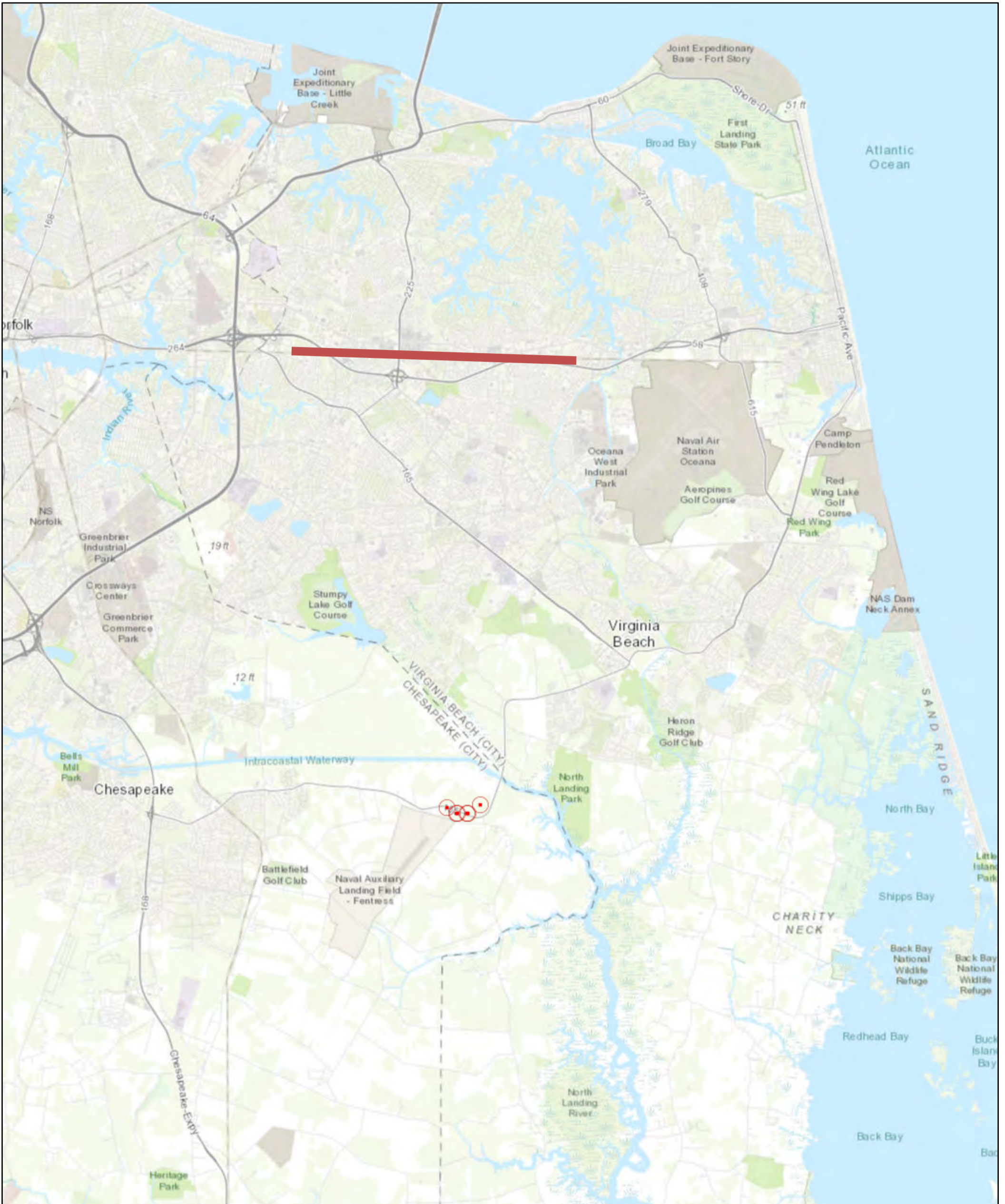
Shaded topographic maps are from TOPO! ©2006 National Geographic
<http://www.national.geographic.com/topo>

All other map products are from the Commonwealth of Virginia Department of Game and Inland Fisheries.

map assembled 2022-06-16 21:30:57 (qa/qc March 21, 2016 12:20 - tn=1189800.1 dist=3218 1)
\$poi=36.8404200 -76.1551099

DWR NLEB Winter Habitat and Roost Map

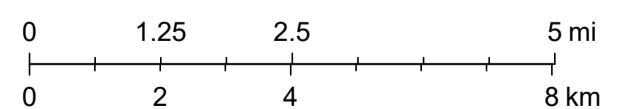
NLEB Locations and Roost Trees



5/24/2022, 3:25:57 PM

 NLEB Known Occupied Maternity Roost (Summer Habitat)

1:144,448



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

DCR-NHDE Search Results

Natural Heritage Resources

Your Criteria

Federal Legal Status: LE - Listed endangered,LT - Listed threatened

State Legal Status: LE - Listed endangered,LT - Listed threatened

Watershed (8 digit HUC): 02080108 - Lynnhaven-Poquoson

Subwatershed (12 digit HUC): CB25 - Lynnhaven River-Broad Bay

Search Run: 6/16/2022 14:23:45 PM

Result Summary

Total Species returned: 2

Total Communities returned: 0

Click scientific names below to go to NatureServe report.

Click column headings for an explanation of species and community ranks.

Common Name/Natural Community	Scientific Name	Scientific Name Linked	Global Conservation Status Rank	State Conservation Status Rank	Federal Legal Status	State Legal Status	Statewide Occurrences	Virginia Coastal Zone
Lynnhaven-Poquoson								
Lynnhaven River-Broad Bay								
MAMMALS								
Eastern Big-eared Bat	Corynorhinus rafinesquii macrotis	Corynorhinus rafinesquii macrotis	G3G4T3	S2	None	LE	44	Y
REPTILES								
Chicken Turtle	Deirochelys reticularia	Deirochelys reticularia	G5	S1	None	LE	2	Y

Note: On-line queries provide basic information from DCR's databases at the time of the request. They are NOT to be substituted for a project review or for on-site surveys required for environmental assessments of specific project areas.

For Additional Information on locations of Natural Heritage Resources please submit an [information request](#).

To Contribute information on locations of natural heritage resources, please fill out and submit a [rare species sighting form](#).

Matthew S. Wells
Director



COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

Frank N. Stovall
Deputy Director
for Operations

Darryl Glover
Deputy Director for
Dam Safety,
Floodplain Management and
Soil and Water Conservation

Laura Ellis
Interim Deputy Director for
Administration and Finance

July 28, 2022

Grace Flick
C2 Environmental, Inc.
11846 Rock Landing Drive, Suite A
Newport News, VA 23606

Re: Lines 2019 and 2007 Rebuild Project

Dear Ms. Flick:

The Department of Conservation and Recreation's Division of Natural Heritage (DCR) has searched its Biotics Data System for occurrences of natural heritage resources from the area outlined on the submitted map. Natural heritage resources are defined as the habitat of rare, threatened, or endangered plant and animal species, unique or exemplary natural communities, and significant geologic formations.

According to the information currently in Biotics, natural heritage resources have not been documented within the submitted project boundary including a 100 foot buffer. The absence of data may indicate that the project area has not been surveyed, rather than confirm that the area lacks natural heritage resources. In addition, the project boundary does not intersect any of the predictive models identifying potential habitat for natural heritage resources.

Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the DCR, DCR represents VDACS in comments regarding potential impacts on state-listed threatened and endangered plant and insect species. The current activity will not affect any documented state-listed plants or insects.

There are no State Natural Area Preserves under DCR's jurisdiction in the project vicinity.

New and updated information is continually added to Biotics. Please re-submit a completed order form and project map for an update on this natural heritage information if the scope of the project changes and/or six months has passed before it is utilized.

A fee of \$90.00 has been assessed for the service of providing this information. Please find attached an invoice for that amount. Please return one copy of the invoice along with your remittance made payable to the Treasurer of Virginia, DCR Finance, 600 East Main Street, 24th Floor, Richmond, VA 23219. Payment is due within thirty days of the invoice date. Please note late payment may result in the suspension of project review service for future projects.

The Virginia Department of Wildlife Resources (VDWR) maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters that may contain information not

600 East Main Street, 24th Floor | Richmond, Virginia 23219 | 804-786-6124

*State Parks • Soil and Water Conservation • Outdoor Recreation Planning
Natural Heritage • Dam Safety and Floodplain Management • Land Conservation*

documented in this letter. Their database may be accessed from <http://vafwis.org/fwis/> or contact Amy Martin at (804-367-2211) or amy.martin@dwr.virginia.gov.

Should you have any questions or concerns, please contact me at 804-225-2429. Thank you for the opportunity to comment on this project.

Sincerely,

A handwritten signature in cursive script that reads "Tyler Meader".

Tyler Meader
Natural Heritage Locality Liaison



Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

1111 E. Main Street, Suite 1400, Richmond, Virginia 23219

P.O. Box 1105, Richmond, Virginia 23218

(800) 592-5482

www.deq.virginia.gov

Matthew J. Strickler
Secretary of Natural Resources

David K. Paylor
Director
(804) 698-4000

August 13, 2019

Mr. Jason E. Williams
Director Environmental Services
Dominion Energy
5000 Dominion Boulevard
Glen Allen, VA 23060

Transmitted electronically: jason.e.william@dominionenergy.com

Subject: Dominion Energy (Electric Transmission) – Annual Standards and Specifications for Erosion & Sediment Control and Stormwater Management (AS&S for ESC and SWM)

Dear Mr. Williams:

The Virginia Department of Environmental Quality ("DEQ") hereby approves the Annual Standards and Specifications for Erosion & Sediment Control and Stormwater Management for Dominion Energy (Electric Transmission) dated "May 29, 2019". This coverage is effective from August 13, 2019 to August 12, 2020.

To ensure compliance with approved specifications, the Virginia Erosion and Sediment Control Law and the Virginia Stormwater Management Act, DEQ staff will conduct random site inspections, respond to complaints, and provide on-site technical assistance with specific erosion and sediment control and stormwater management measures and plan implementation.

Please note that your approved Annual Standards and Specifications include the following requirements:

1. Variance, exception, and deviation requests must be submitted separately from this Annual Standards and Specifications submission to DEQ. DEQ may require project-specific plans associated with variance requests to be submitted for review and approval.
2. The following information must be submitted to DEQ for each project at least two weeks in advance of the commencement of regulated land-disturbing activities. Notifications shall be sent by email to: StandardsandSpecs@deq.virginia.gov
 - i: Project name or project number;
 - ii: Project location (including nearest intersection, latitude and longitude, access point);
 - iii: On-site project manager name and contact info;
 - iv: Responsible Land Disturber (RLD) name and contact info;
 - v: Project description;

Dominion Energy (Electric Transmission) – AS&S for ESC and SWM
August 12, 2019
Page 2 of 2

- vi: Acreage of disturbance for project;
 - vii: Project start and finish date; and
 - viii: Any variances/exceptions/waivers associated with this project.
3. Project tracking of all regulated land disturbing activities (LDA) must be submitted to the DEQ on a bi-annual basis. Project tracking records shall contain the same information as required in the two week e-notifications for each regulated LDA.
 4. Erosion & Sediment Control and Stormwater Management plan review and approval must be conducted by DEQ-Certified plan reviewers and documented in writing.

To ensure an efficient information exchange and response to inquiries, the DEQ Central Office is your primary point of contact. Central Office staff will coordinate with our Regional Office staff as appropriate.

Thank you very much for your submission and continued efforts to conserve and protect Virginia's precious natural resources.

Sincerely,



Jaime B. Robb, Manager
Office of Stormwater Management

Cc: Amelia Boschen, Amelia.h.boschen@dominionenergy.com
Elizabeth Hester, Elizabeth.l.hester@dominionenergy.com
Stacey Ellis, Stacey.t.ellis@dominionenergy.com

Case Decision Information:

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.



COMMONWEALTH of VIRGINIA

Travis A. Voyles
Acting Secretary of Natural
and Historic Resources

Department of Historic Resources
2801 Kensington Avenue, Richmond, Virginia 23221

Julie V. Langan
Director
Tel: (804) 367-2323
Fax: (804) 367-2391
www.dhr.virginia.gov

July 18, 2022

Rob Richardson
Dominion Energy Virginia
Electric Transmission
P.O. Box 26666
Richmond, VA 23261

Re: Greenwich Thalia Lynnhaven 230 kV Electric Transmission Line Rebuild
Virginia Beach, Virginia
DHR File No. 2022-4397

Dear Mr. Richardson,

We have received your request for comments on the project referenced above. The undertaking, as presented, involves the rebuild of 5 miles of existing transmission line. Our comments are provided as technical assistance to Dominion. We have not been notified by any state or federal agency of their involvement in this project; however, we reserve the right to provide additional comment pursuant to the National Historic Preservation Act, if applicable.

The submission states that Dominion plans to prepare an application for a certificate of public convenience and necessity (CPCN) from the State Corporation Commission (SCC). Typically, we recommend that Dominion follows the *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia*, developed by DHR and the SCC to assist project proponents in developing transmission line projects that minimize impacts to historic resources.

Generally, we recommend that the project proponent establish a study area for each route alternative under consideration and gather information on known resources. A qualified cultural resources consultant in the appropriate discipline should perform an assessment of impact for each known historic resource present within the proposed study area.

Once the route alternatives have been finalized, DHR recommends that full archaeological and architectural surveys be performed to determine the effect of the project on all historic resources listed in or eligible for listing in the National Register. This process involves the identification and recordation of all archaeological sites and structures greater than 50 years of age, the evaluation of those resources for listing in the National Register, determining the degree of impact of the project on eligible resources, and developing a plan to avoid, minimize, or mitigate any negative impacts. Comments received from the public or other stakeholder

Western Region Office
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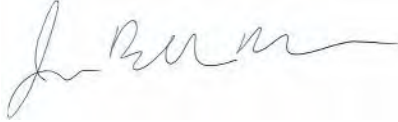
Northern Region Office
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Fax: (540) 868-7033

Eastern Region Office
2801 Kensington Avenue
Richmond, VA 23221
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regarding impacts to specific historic resources should be addressed as part of this survey and assessment process.

Thank you for seeking our comments on this project. If you have any questions at this time, please do not hesitate to contact me at jennifer.bellville-marrion@dhr.virginia.gov.

Sincerely,



Jenny Bellville-Marrion, Project Review Archaeologist
Review and Compliance Division

REDACTED

REPORT >

**Pre-Application Analysis
of Cultural Resources for the
Lines# 2019 and 2007 Rebuild Project**

LOCATION > Virginia Beach, Virginia

DATE > JUNE 2022

PREPARED FOR >

Dominion Energy



PREPARED BY >

Dutton + Associates, LLC

PROJECT REVIEW # >

Dutton + Associates

CULTURAL RESOURCE SURVEY, PLANNING, AND MANAGEMENT

**SCC Pre-Application Analysis
of Cultural Resources for the
Lines# 2019 and 2007 Rebuild Project**

Virginia Beach, Virginia

PREPARED FOR:

DOMINION ENERGY
10900 NUCKOLS ROAD, 4TH FLOOR
GLEN ALLEN, VA 23060

PREPARED BY:

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1115 Crowder Drive
Midlothian, Virginia 23236
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PRINCIPAL INVESTIGATOR:

Robert J. Taylor, Jr. M.A.

June 2022

ABSTRACT

In June 2022, Dutton + Associates, LLC (D+A) completed a Pre-Application Analysis (analysis) of cultural resources for the Lines# 2019 and 2007 Rebuild Project in Virginia Beach, Virginia. The analysis was performed for Dominion Energy Virginia (Dominion) in support of a State Corporation Commission (SCC) application. The analysis was conducted in accordance with Virginia Department of Historic Resources' (VDHR) guidance titled Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia (January 2008) and Commonwealth of Virginia State Corporation Commission Division of Public Utility Regulation Guidelines for Transmission Line Applications Filed Under Title 56 of the Code of Virginia (August 2017).

The Lines# 2019 and 2007 Rebuild Project entails the partial rebuild of two existing 230kV transmission lines stretching a distance of approximately 4.5 miles through urban Virginia Beach. Currently, both lengths of transmission are suspended from concrete structures installed in 1970. Over time, these structures have developed significant structural concerns, and as such, Dominion proposes to replace the existing structures and rebuild the lines to current 230kV standards. The structures will be replaced on a one-to-one basis in generally the same locations with structures of similar design and configuration. All improvements will take place within existing right-of-way (ROW).

The background research conducted as part of this analysis was consistent with VDHR guidance and designed to identify all previously recorded National Historic Landmarks (NHL) located within 1.5-miles of the proposed project or closer, all National Register of Historic Places (NRHP)-listed properties, battlefields, and historic landscapes located within 1-mile of the proposed project or closer, all historic properties considered eligible for listing in the NRHP located within 0.5-miles of the proposed project or closer, and all archaeological sites located directly within the proposed project area. Historic properties include architectural and archaeological (terrestrial and underwater) resources, historic and cultural landscapes, battlefields, and historic districts. For each historic property within the defined tiers, a review of existing documentation and a field reconnaissance was undertaken to assess each property's significant character-defining features, as well as the character of its current setting. Following identification of historic properties, D+A assessed the potential for impacts to any identified properties as a result of the proposed project. Specific attention was given to determining whether or not construction related to the project could introduce new visual elements into the property's viewshed or directly impact the property through construction, which would either directly or indirectly alter those qualities or characteristics that qualify the historic property for listing in the NRHP.

Review of the VDHR VCRIS inventory records revealed a total of one-hundred-ninety-six (196) previously recorded architectural resources are located within 1.5 mile of the project area. Of these, there are no (0) NHLs located within 1.5 mile of the proposed project or closer, three (3) property listed in the NRHP located within 1.0 mile or closer of the project, and two (2) properties that have been determined eligible or potentially eligible for listing in the NRHP within 0.5 mile or closer of the project. One of the NRHP-eligible resources is directly crossed by the project area. VCRIS also revealed that the entire length of the project area has been subject to previous Phase

I survey and one (1) previously recorded archaeological site is located directly within or crossed by the project area. This site has been determined not eligible for listing in the NRHP by the VDHR.

*Inspection from the considered architectural resources found that they are all located within a highly urbanized setting with extensive nonhistoric and ongoing development. The project area roughly parallels the Virginia Beach Boulevard and the Interstate-264 corridors, both of which are flanked by dense commercial and residential areas. Due to the dense development patterns in the area, coupled with vegetation scattered throughout the area, the existing transmission line is not visible from the majority of the resources and it is anticipated that despite the increase in structure height as a result of the project, the replacement structures will remain screened. The exception is from one resource, a former railroad corridor which is collocated with the project ROW. The existing structures are clearly visible from within and in the vicinity of this corridor and it is expected that the replacement structures will be increasingly visible, however, will continue to be seen in conjunction with extensive nonhistoric development in a compromised setting around the railroad. **It is therefore D+A's opinion that the proposed Lines# 2019 and 2007 Rebuild Project will have no more than a minimal impact on any architectural resources that are designated an NHL, listed in the NRHP, or determined eligible or potentially eligible for listing.***

Potential impacts summary for architectural resources.

VDHR #	Resource Name, Address	NRHP-Status	Distance from Project	Recommended Impact
134-0026	Pembroke Manor	NRHP-Listed	~0.83 Mile	No Impact
134-0027	Pleasant Hall	NRHP-Listed	~0.94 Mile	No Impact
134-0031	Francis Land House/Rose Hall	NRHP-Listed	~0.14 Mile	No Impact
134-5052	Princess Anne Training School/Union Kempsville High School	NRHP-Eligible	~0.22 Mile	No Impact
134-5145	Norfolk and Virginia Beach Railroad	NRHP-Eligible	Directly within ROW	Minimal Impact

*With regards to archaeology, the entire project ROW has been subject to survey and one previously recorded site is crossed by it. This site is that of the former Kempsville Canal. Although some evidence of this feature can be observed on the landscape throughout discrete lengths of its overall alignment, it has been completely eradicated by development in the vicinity of the project area. As such, it has previously been determined not eligible for listing in the NRHP by the VDHR. No archaeological field work was conducted as part of this effort and previously recorded sites within or adjacent to the project were not visited or assessed at this time, however, **it is D+A's opinion that based upon previous survey data, there will be no impact to previously recorded archaeological sites within the project area, and no further consideration or survey for archaeological resources is warranted.***

Summary of potential impacts summary for archaeological resources.

VDHR#	NRHP Status	Proximity to Project Area	Impacts
44VB0060 (Kempsville Canal)	DHR Staff: Not Eligible	Directly Crossed	No Impact

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1. INTRODUCTION

In June 2022, Dutton + Associates, LLC (D+A) completed a Pre-Application Analysis (analysis) of cultural resources for the Lines# 2019 and 2007 Rebuild Project in Virginia Beach, Virginia (Figure 1-1). The analysis was performed for Dominion Energy Virginia (Dominion) in support of a State Corporation Commission (SCC) application. The analysis was conducted in accordance with Virginia Department of Historic Resources' (VDHR) guidance titled *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia* (January 2008) and Commonwealth of Virginia State Corporation Commission Division of Public Utility Regulation *Guidelines for Transmission Line Applications Filed Under Title 56 of the Code of Virginia* (August 2017).

This analysis was performed at a level that meets the purpose and intent of VDHR and the SCC's guidance. It provides information on the presence of previously recorded National Historic Landmark (NHL) properties located within a 1.5-mile buffer area established around the project area, properties listed on the National Register of Historic Places (NRHP), battlefields, and historic landscapes located within a 1-mile buffer around the project area, and properties previously determined eligible for listing in the NRHP located within a 0.5-mile buffer area around the project area, and previously identified archaeological resources directly within the project area. This analysis will not satisfy Section 106 identification and evaluation requirements in the event federal permits or licenses are needed; however, it can be used as a planning document to assist in making decisions under Section 106 as to whether further cultural resource identification efforts may be warranted.

This report contains a research design which describes the scope and methodology of the analysis, discussion of previously identified historic properties, and an assessment of potential impacts. D+A Senior Architectural Historian Robert J. Taylor, Jr. M.A. served as Principal Investigator and oversaw the general course of the project and supervised all aspects of the work. Copies of all notes, maps, correspondence, and historical research materials are on file at the D+A main office in Midlothian, Virginia.

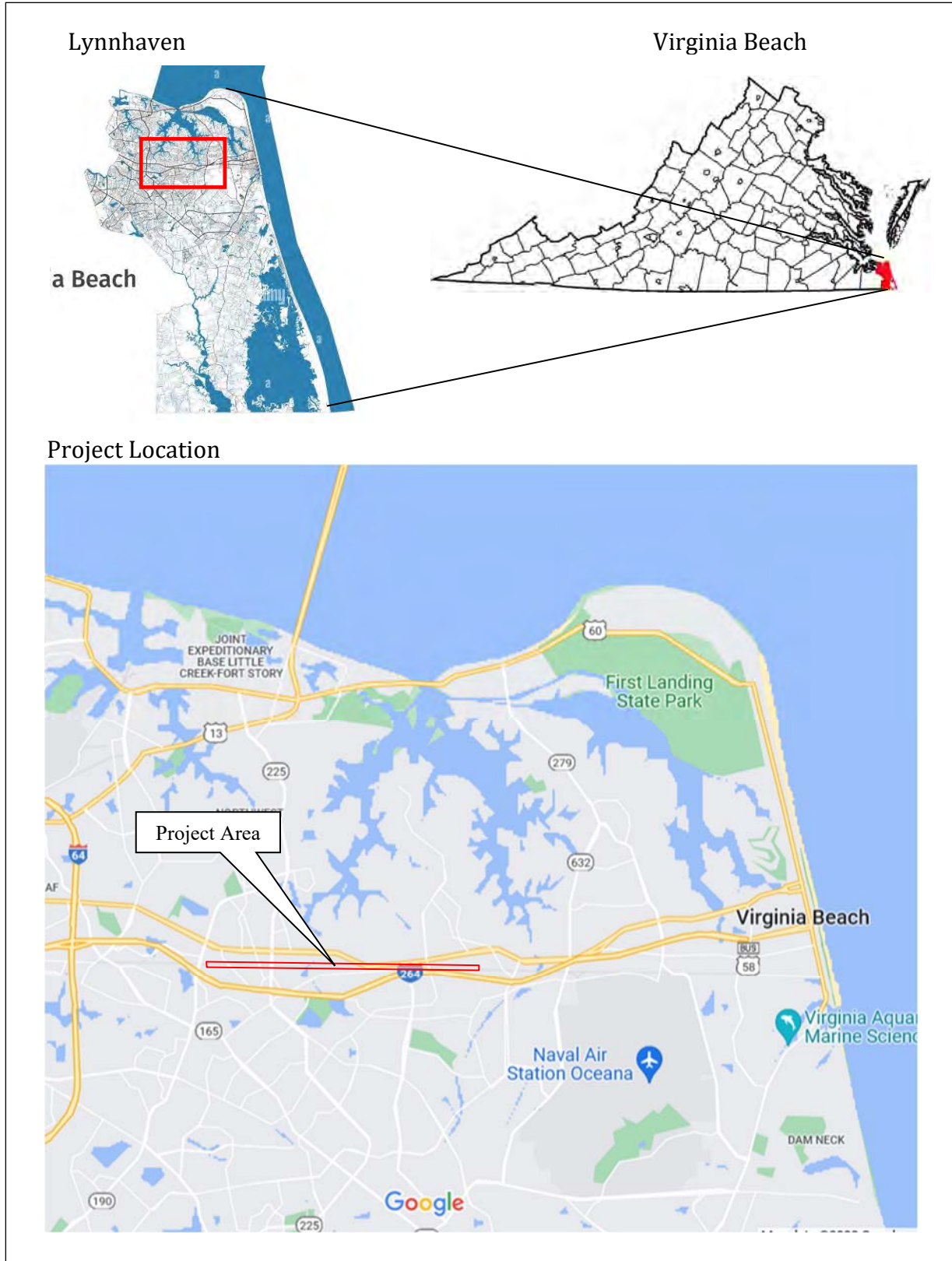


Figure 1-1: Project Area general location

2. PROJECT DESCRIPTION

The Lines# 2019 and 2007 Rebuild Project entails the partial rebuild of two existing 230kV transmission lines stretching a distance of approximately 4.54 miles through urban Virginia Beach, including 3.37 miles of Line# 2007 from the Lynnhaven substation to the Thalia substation, and 1.17 miles of Line# 2019 from the Thalia substation to structure 2019/20 just east of the Greenwich substation. Currently, both lengths of transmission are suspended from concrete structures installed in 1970. The aging infrastructure has reached the end of its service life, as indicated by hairline cracking at a minimum, and more advanced cracking on some that has exposed some of the interior reinforcing bars and cables. The cracks allow for significant water infiltration which can accelerate the deterioration of the concrete and cause rusting of the steel reinforcing components.

As such, Dominion proposes to replace the existing structures and rebuild the lines to current 230kV standards. The existing concrete structures are monopoles that range from 82 to 96 feet in height and will be replaced with galvanized steel monopole structures with a similar configuration that will generally range in height from 92 to 117 feet (Table 2-1 and Figure 2-1). The structures will be replaced on a one-to-one basis in generally the same locations. All improvements will take place within existing right-of-way (ROW) (Figures 2-2 through 2-5).

Table 2-1: Existing and proposed structure information.

Structure Number	Existing Structure Height AGL (ft.)	Proposed Structure Height AGL (ft.)
2019/20, 245/38*	101	101
2019/21	83	92
2019/22	83	102
2019/23	88	102
2019/24	83	107
2019/25	95	117
2019/26	95	117
2019/27	85	107
2019/28	85	102
2019/29	87	102
2019/30	86	102
2019/31	86	102
2019/32	86	102
2019/33	86	102
2019/34	87	102
2019/35	84	102
2019/36	87	102
2019/37	87	92

Structure Number	Existing Structure Height AGL (ft.)	Proposed Structure Height AGL (ft.)
2019/38	86	107
2019/39	87	107
2019/40	89	92
2019/41	83	92
2019/42*	35	35
2019/42A	N/A	77
2019/42B	N/A	77
2007/41A	N/A	77
2007/41B	N/A	77
2007/41*	35	35
2007/42A	83	92
2007/42	84	92
2007/43	83	102
2007/44	89	107
2007/45	84	102
2007/46	84	102
2007/47	93	97
2007/48	95	97
2007/49	90	107
2007/50	94	107
2007/51	89	97
2007/52	86	97
2007/53	95	112
2007/54	96	117
2007/55	91	112
2007/56	89	107
2007/57	84	102
2007/58	84	107
2007/59	94	112
2007/60	84	107
2007/61	84	102
2007/62	95	107
2007/63	90	112
2007/64	90	112

Structure Number	Existing Structure Height AGL (ft.)	Proposed Structure Height AGL (ft.)
2007/65	84	107
2007/67	84	102
2007/68	85	107
2007/69	91	107
2007/70	86	107
2007/71	96	112
2007/72	86	102
2007/73	89	102
2007/74	93	102
2007/75	94	102
2007/76	94	102
2007/77	84	102
2007/78	84	92
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2007/89	86	102
2007/90	87	102
2007/91	89	102
2007/92	90	102
2007/93	84	102
2007/94	84	102
2007/95	84	102
2007/96	94	102
2007/97	90	102
2007/98	94	112
2007/99	94	112

Structure Number	Existing Structure Height AGL (ft.)	Proposed Structure Height AGL (ft.)
2007/100	84	107
2007/101	90	97
2007/102	94	107
2007/103A	N/A	77
2007/103, 2072/1*	101	101
2007/104, 2025/90*	70	70
Minimum**	82	92
Maximum**	95	117
Average**	88	102

* Existing structure included as part of the Rebuild Project but not to be replaced.

** of structures not being replaced.

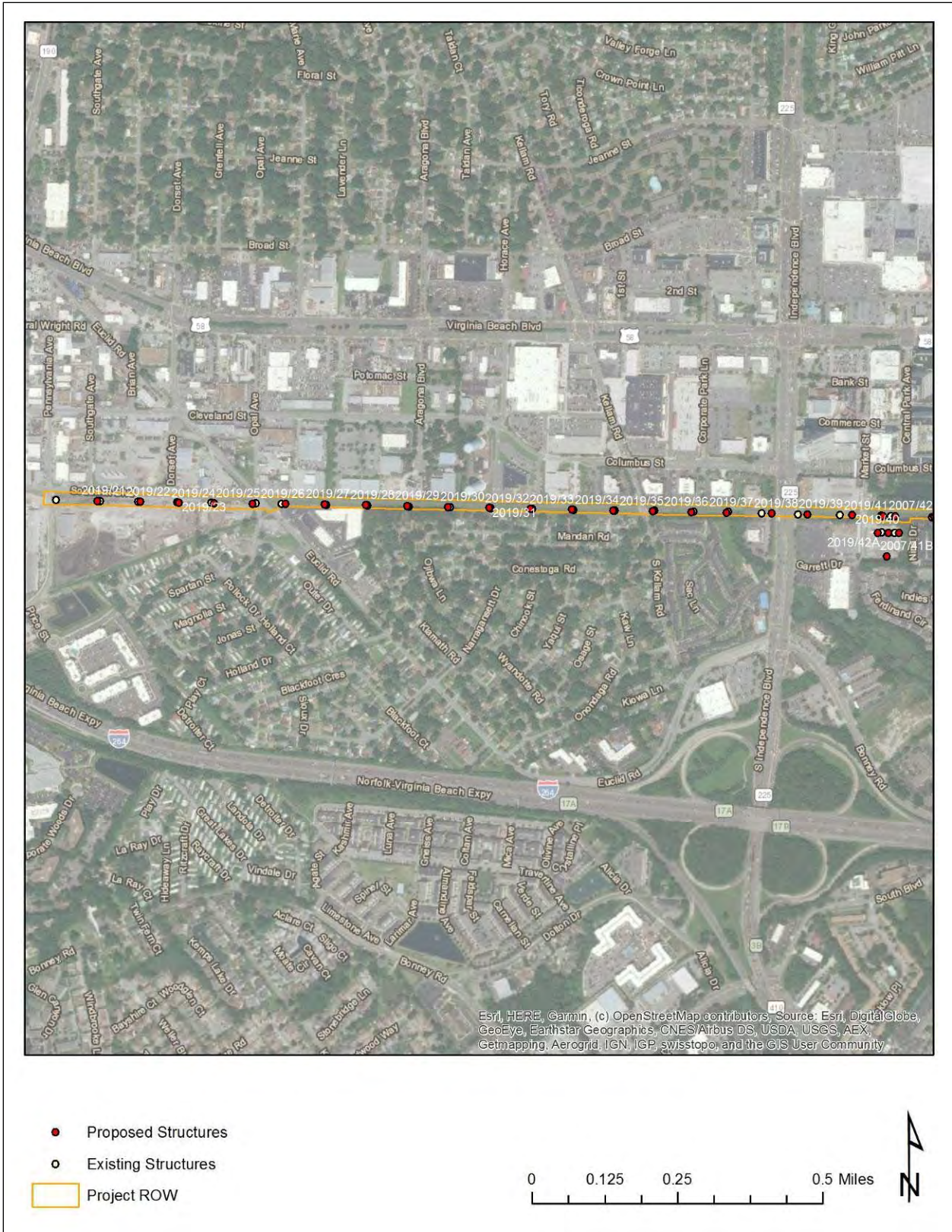


Figure 2-1: Lines# 2019 and 2007 Rebuild Project Map (1 of 4)

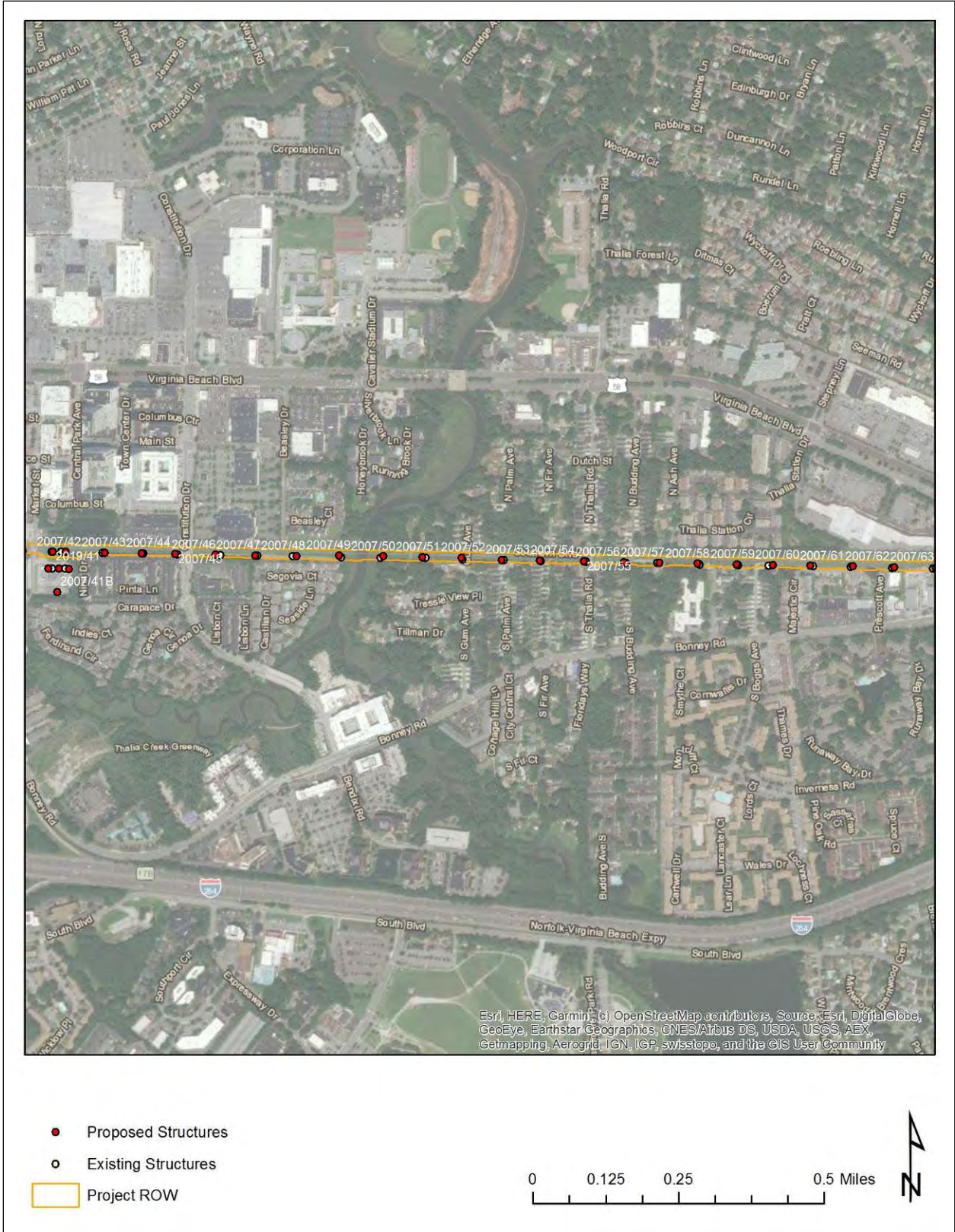


Figure 2-2: Lines# 2019 and 2007 Rebuild Project Map (2 of 4)

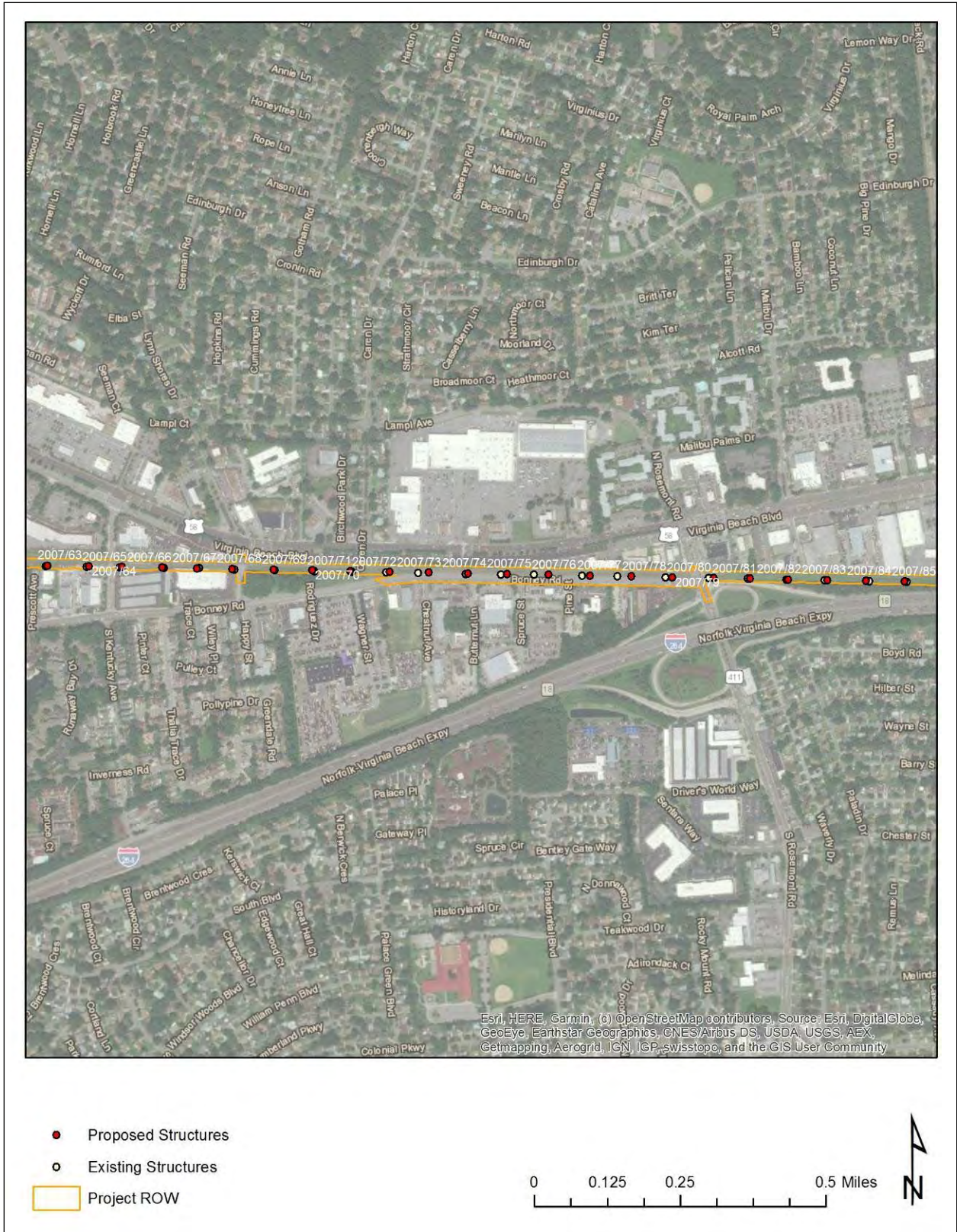


Figure 2-3: Lines# 2019 and 2007 Rebuild Project Map (3 of 4)

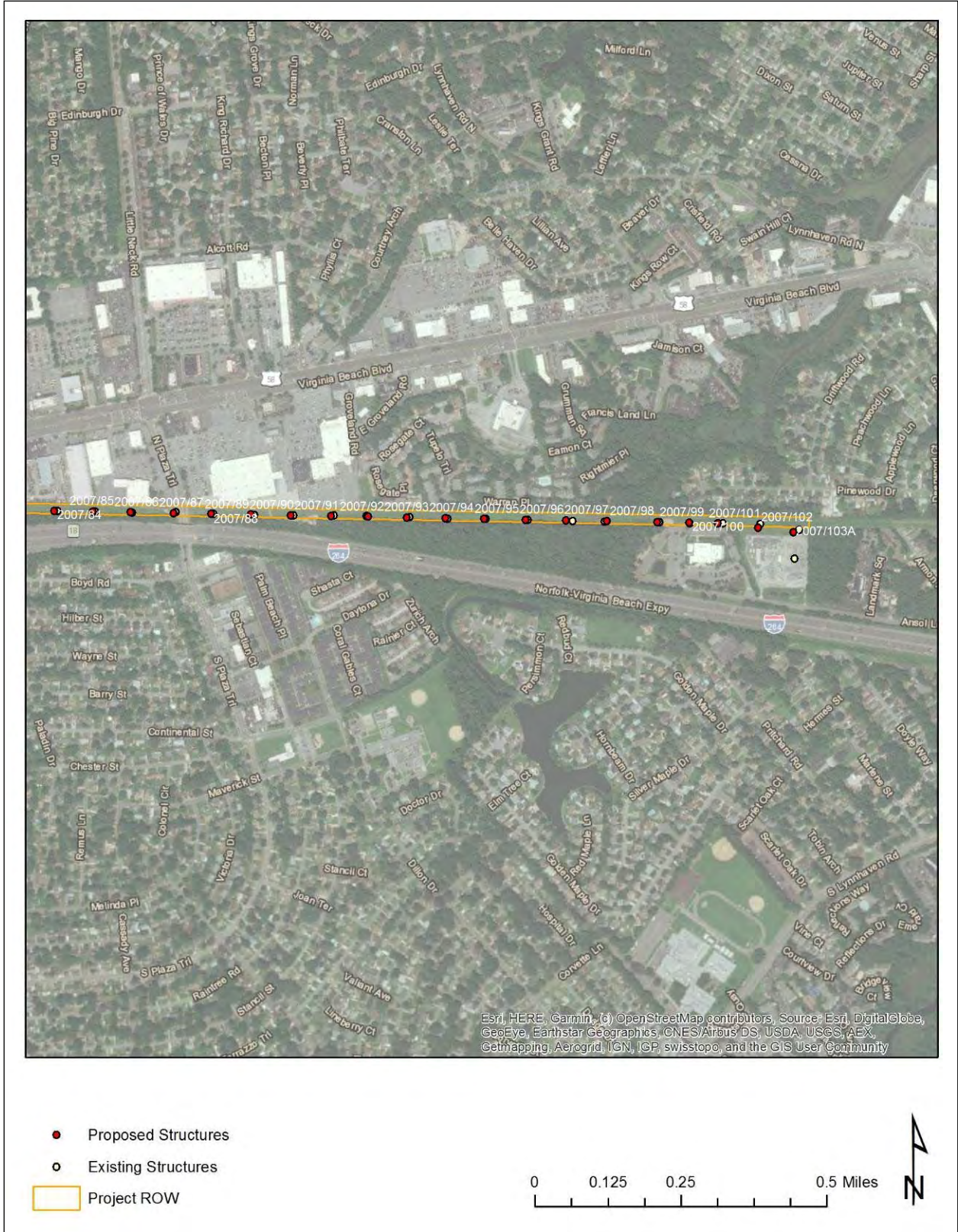


Figure 2-4: Lines# 2019 and 2007 Rebuild Project Map (4 of 4)

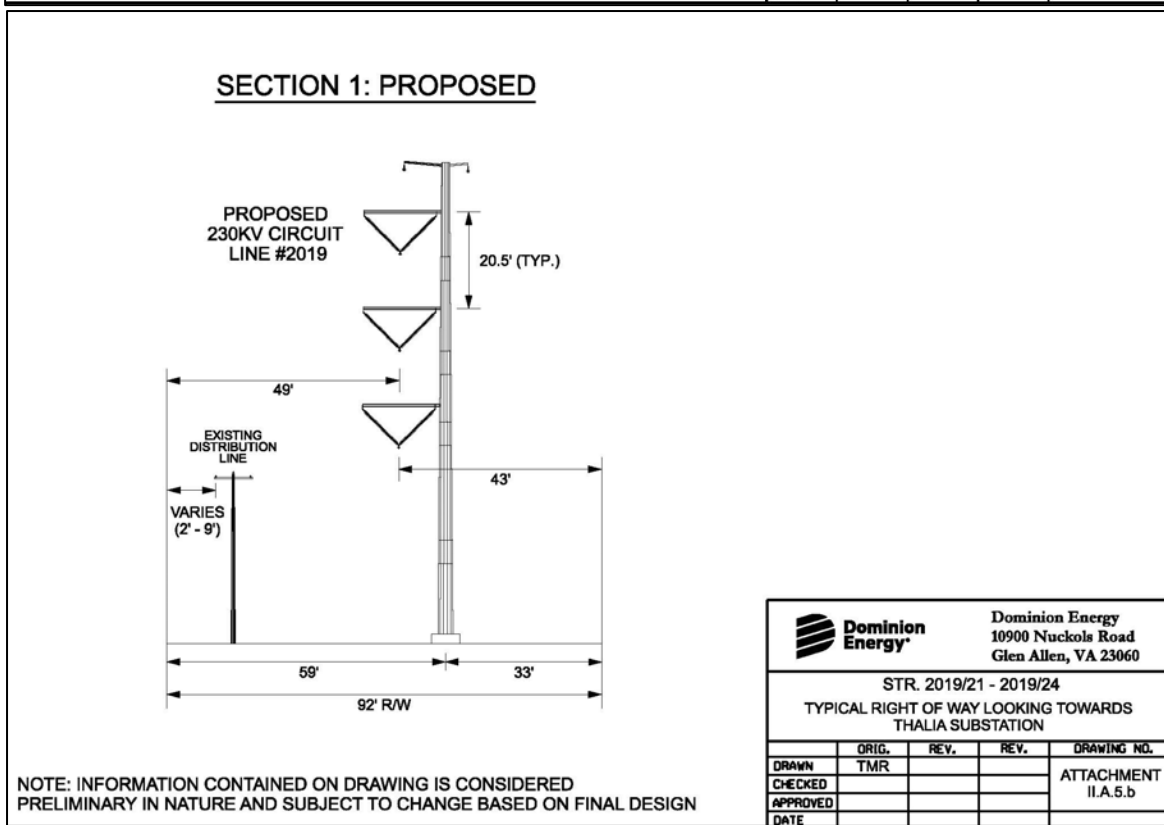
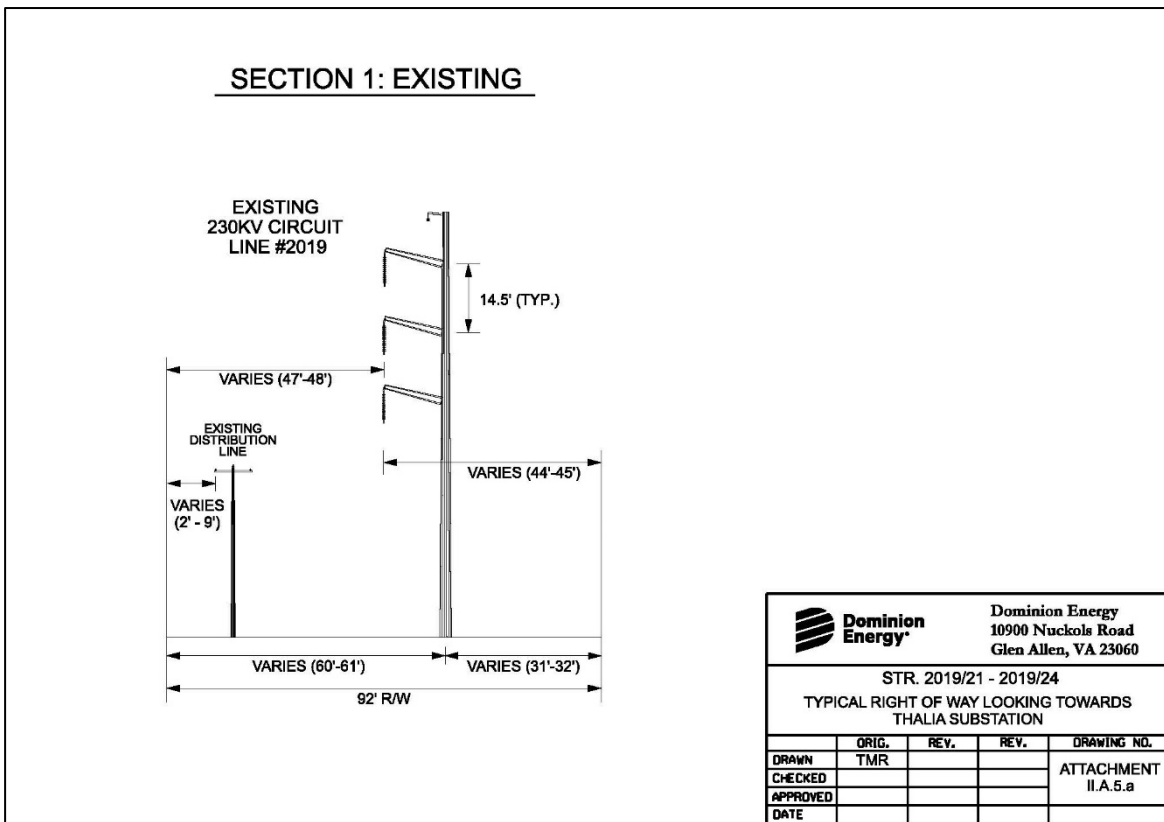


Figure 2-5: Detail of typical existing and proposed structures within ROW. Source: Dominion Energy Virginia

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3. RESEARCH DESIGN

The intent of this effort was to identify all known historic properties within the vicinity of the proposed project area in order to assess them for potential impacts brought about by the project. Historic properties include architectural and archaeological (terrestrial and underwater) resources, historic and cultural landscapes, battlefields, and historic districts. For each previously recorded historic property, an examination of property documentation, current aerial photography, and a field reconnaissance was undertaken to assess each property's integrity of feeling, setting, and association, and to provide photo documentation of the property including views toward the proposed project. The D+A personnel who directed and conducted this survey meet the professional qualification standards of the Department of the Interior (48 FR 44738-9).

ARCHIVAL RESEARCH

In May 2022, D+A conducted archival research with the goal of identifying all previously recorded historic properties and any additional historic property locations referred to in historic documents and other archives, as well as consultation with local informants and other professionals with intimate knowledge of the project area as appropriate. Background research was conducted at the VDHR and on the internet and included the following sources:

- VDHR Virginia Cultural Resource Information System (VCRIS) site files; and
- National Park Service (NPS), American Battlefield Protection Program (ABPP), maps and related documentation.

Data collection was performed according to VDHR guidance in *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia* (January 2008) and was organized in a multi-tier approach. As such, the effort was designed to identify all previously recorded NHL's located within 1.5-miles of the proposed project area, all historic properties listed in the NRHP, battlefields, and historic landscapes located within 1-mile of the project area, all historic properties previously determined eligible for listing in the NRHP located within 0.5-mile of the project area, and all properties located directly within the project area.

FIELD RECONNAISSANCE

Field reconnaissance included visual inspection of those previously recorded historic properties identified within the defined study tiers. Visual inspection included digital photo documentation of each property's existing conditions including its setting and views toward the proposed project. Photographs were taken of primary resource elevations, general setting, and existing viewsheds. All photographs were taken from public right-of-way or where property access was granted. No subsurface archaeological testing was conducted as part of this effort.

ASSESSMENT OF POTENTIAL IMPACTS

Following identification and field inspection of historic properties, D+A assessed each resource for potential impacts brought about by the proposed project. Assessment of impacts was conducted

through a combination of field inspection, digital photography, review of topography and aerial photography. As the overall increase in structure height between the existing and proposed does not meet the threshold of a “substantial increase” as outlined by the VDHR in *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia* (January 2008), no photo simulation was conducted as part of this effort.

When assessing impacts, D+A considered those qualities and characteristics that qualify the property for listing and whether the project has the potential to alter or diminish the integrity of the property and its associated significance. Specific attention was given to determining whether or not the proposed project would introduce new visual elements into a property’s viewshed, which would either directly or indirectly alter those qualities or characteristics that qualify the historic property for listing in the NRHP. Identified impacts were characterized as severe, moderate, minimal, or none in accordance with the following guidance:

- **None** – Project is not visible from the property
- **Minimal** – Occur within viewsheds that have existing transmission lines, locations where there will only be a minor change in tower height, and/or views that have been partially obstructed by intervening topography and vegetation.
- **Moderate** – Include viewsheds with expansive views of the transmission line, more dramatic changes in the line and tower height, and/or an overall increase in the visibility of the route from the historic properties.
- **Severe** – Occur within viewsheds that do not have existing transmission lines and where the views are primarily unobstructed, locations where there will be a dramatic increase in tower visibility due to the close proximity of the route to historic properties, and viewsheds where the visual introduction of the transmission line is a significant change in the setting of the historic properties.

REPORT PREPARATION

The results of the archival resource, field inspection, and analysis were synthesized and summarized in a summary report accompanied by maps, illustrations, and photographs as appropriate. All research material and documentation generated by this project is on file at D+A’s office in Midlothian, Virginia.

4. ARCHIVES SEARCH

This section includes a summary of efforts to identify previously known and recorded cultural resources within the tiered project buffers. It includes lists, maps, and descriptive data on all previously conducted cultural resource surveys, and previously recorded architectural resources and archaeological sites according to the VDHR archives and VCRIS database.

PREVIOUSLY SURVEYED AREAS

VDHR and VCRIS records indicate that there have been five (5) prior Phase I cultural resource surveys within 1-mile of the project area, including one of which that overlaps portions of the project area. These surveys are at a minimum archaeological in nature, although some include architectural resources as well. The one survey that overlaps the project area was a linear effort conducted as part of a study for a light rail alignment. As a result of that survey, the entire project ROW has been subject to Phase I archaeological identification. The five previously conducted cultural resource surveys within 1-mile of the project area are listed in Table 4-1 and are illustrated in Figure 4-1.

Table 4-1: Previously conducted cultural resource surveys within one mile of the project area. The survey that includes portions of the project area are highlighted in orange. Source: VDHR.

VDHR Survey #	Title	Author	Date
NR-049	Phase I Cultural Resources Survey of the Proposed Norfolk/Virginia Beach Light Rail, Cities of Norfolk and Virginia Beach, Virginia	Gray and Pape, Inc.	1998
NR-065	An Archaeological Survey of the Proposed I-64/I-264 Interchange Project, Cities of Norfolk and Virginia Beach, Virginia	(College of) William and Mary Center for Archaeological Research	2008
VB-054	Phase I Archaeological Survey of the Corporate Woods Property, City of Virginia Beach, Virginia	James River Institute for Archaeology	1994
VB-123	An Archaeological Survey of the Proposed I-264/Lynnhaven and Great Neck Interchanges Project, City of Virginia Beach, Virginia	(College of) William and Mary Center for Archaeological Research	2007
VB-178	Phase I Cultural Resources Survey of the Proposed Mezzo Apartment Homes Property, City of Virginia Beach, Virginia	Circa-Cultural Resource Management, LLC	2017



Figure 4-1: Previously conducted surveys within 1-mile of the project area. Source: VCRIS

ARCHITECTURAL RESOURCES

Review of the VDHR VCRIS inventory records revealed a total of one-hundred-ninety-six (196) previously recorded architectural resources are located within 1.5 mile of the project area. Of these, there are no (0) NHLs located within 1.5 mile of the proposed project or closer, three (3) property listed in the NRHP located within 1.0 mile or closer of the project, and two (2) properties that have been determined eligible or potentially eligible for listing in the NRHP within 0.5 mile or closer of the project. One of the NRHP-eligible resources is directly crossed by the project area.

Table 4-2 lists all NHLs, NRHP-listed, and NRHP-eligible resources within their respective buffered tiers. A map of all previously recorded architectural resources within 1.5 mile of the project area is depicted in Figure 4-2 and a map of considered resources within their respective study tiers is included in Figure 4-3.

Table 4-2: Previously recorded cultural resources within their respective tiered buffer zones for the Lines# 2019 and 2007 Transmission Line Rebuild as specified in the VDHR Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia

Buffer(miles)	Considered Resources	VDHR #	Description
1.5	National Historic Landmarks	None	None
1.0	National Historic Landmarks	None	None
	National Register- Listed	134-0026	Pembroke Manor (VDHR Easement)
		134-0027	Pleasant Hall (VDHR Easement)
	Battlefields	None	None
Historic Landscapes	None	None	
0.5	National Historic Landmarks	None	None
	National Register- Listed	134-0031	Francis Land House/ Rose Hall
	Battlefields	None	None
	Historic Landscapes	None	None
	National Register- Eligible	134-5052	Princess Anne Training School/Union Kempsville High School (Demolished)

0.0 (ROW)	National Historic Landmarks	None	None
	National Register- Listed	None	None
	Battlefields	None	None
	Historic Landscapes	None	None
	National Register- Eligible	134-5145	Norfolk and Virginia Beach Railroad

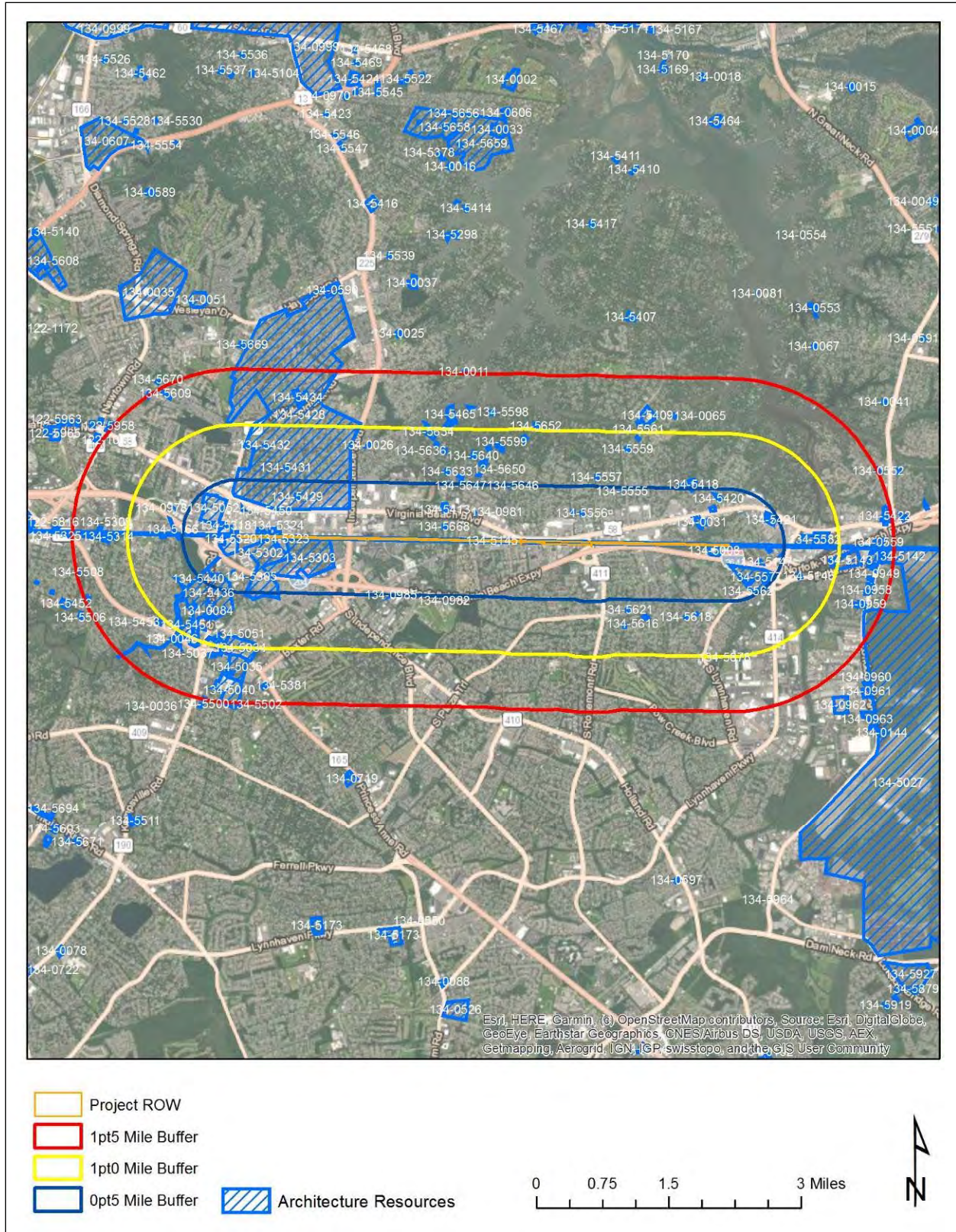


Figure 4-2: All previously identified architectural resources within 1.5 miles of the project area. Source: VCRIS

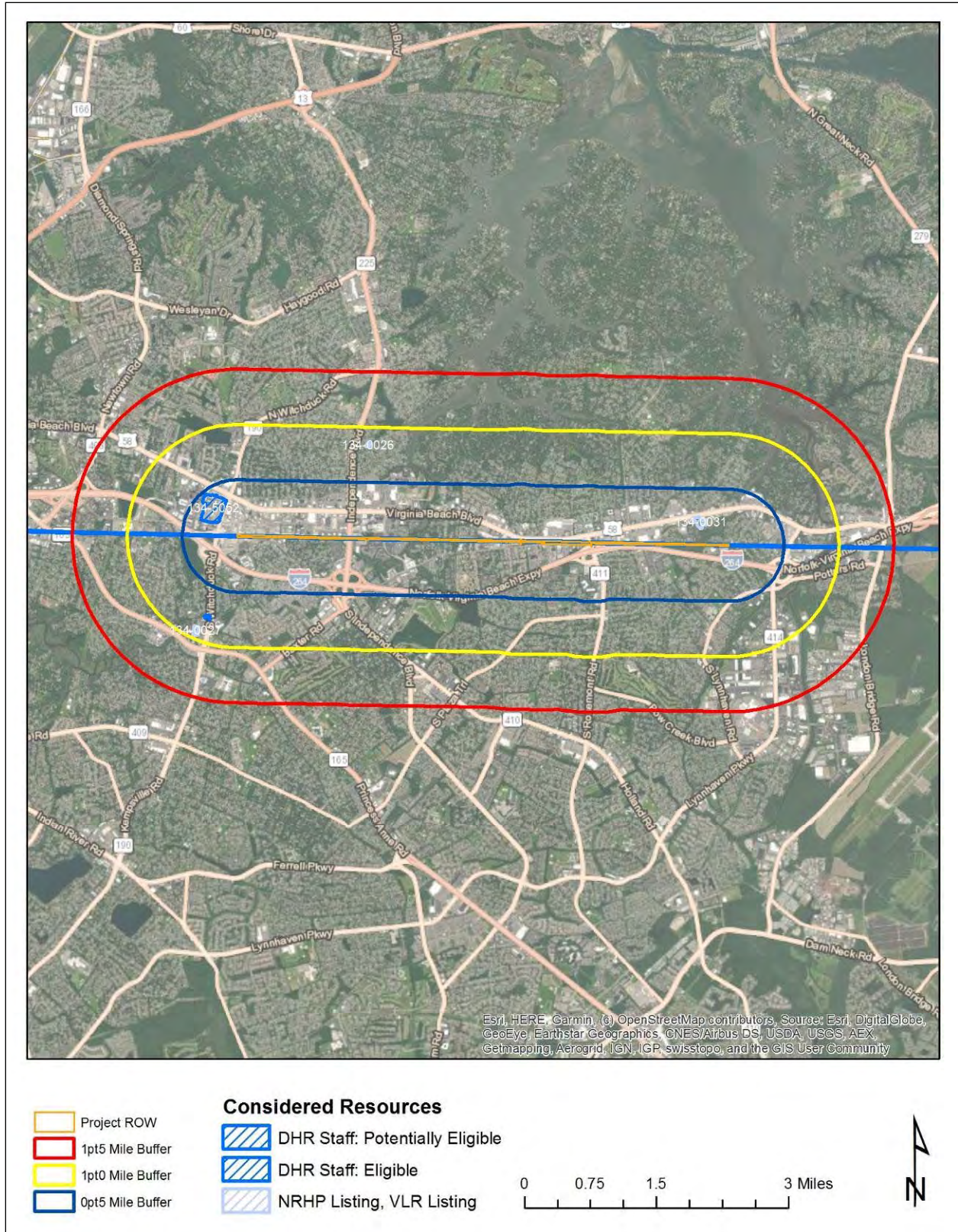


Figure 4-3: Considered architectural resources within their respective tiers around the project area.
 Source: VCRIS

NPS AMERICAN BATTLEFIELD PROTECTION PROGRAM (ABPP)

A review of the National Park Service (NPS) ABPP records reveals that the project area is not located within one mile of any portions of any defined battlefields.

ARCHAEOLOGICAL SITES

Review of the VDHR VCRIS records reveals there are ten (10) previously recorded archaeological sites within one mile of the project area. These include prehistoric lithic scatters and camps; as well as historic domestic sites, farmsteads, a canal, and cemetery. Of these, three (3) have been determined not eligible for listing in the NRHP and the remaining sites have not been formally evaluated. One (1) of these sites is located directly within or crossed by the project ROW. This is a portion of the Kempsville Canal alignment which has been determined not eligible for listing in the NRHP by the VDHR.

Table 4-3 lists the previously recorded archaeological resources within one-mile of the project area. Figure 4-4 illustrates the locations of the previously recorded sites within one mile of the project study area and Figure 4-5 illustrates the locations of the site located within or adjacent to the ROW for the project.

Table 4-3: Previously recorded archaeological resources within one mile of the project area. Orange highlight denotes site is located within or crossed by the project ROW.

VDHR #	Type	Temporal Association	NRHP Status
44VB0046	Artifact scatter	Early Archaic Period (8500 - 6501 B.C.E), Middle Archaic Period (6500 - 3001 B.C.E), Late Archaic Period (3000 - 1201 B.C.E)	Not Evaluated
44VB0060	Canal	Contact Period (1607 - 1750), Colony to Nation (1751 - 1789)	DHR Staff: Not Eligible
44VB0093	Farmstead	Contact Period (1607 - 1750), Colony to Nation (1751 - 1789), Early National Period (1790 - 1829)	Not Evaluated
44VB0094	Farmstead	Contact Period (1607 - 1750), Colony to Nation (1751 - 1789), Early National Period (1790 - 1829)	Not Evaluated
44VB0286	Camp	Late Archaic Period (3000 - 1201 B.C.E), Early Woodland (1200 B.C.E - 299 C.E)	Not Evaluated
44VB0287	Camp	Late Archaic Period (3000 - 1201 B.C.E), Early Woodland (1200 B.C.E - 299 C.E)	Not Evaluated
44VB0351	Dwelling, single	Early National Period (1790 - 1829), Antebellum Period (1830 - 1860), Civil War (1861 - 1865), Reconstruction and Growth (1866 - 1916), World War I to World War II (1917 - 1945), The New Dominion (1946 - 1991), Post Cold War (1992 - Present)	DHR Staff: Not Eligible
44VB0352	Dwelling, single	Early National Period (1790 - 1829), Antebellum Period (1830 - 1860), Civil War (1861 - 1865), Reconstruction and Growth (1866 - 1916), World War I to World War II (1917 - 1945), The New Dominion (1946 - 1991)	DHR Staff: Not Eligible
44VB0375	Church, Church-related residence	Colony to Nation (1751 - 1789), Early National Period (1790 - 1829), Antebellum Period (1830 - 1860), Civil War (1861 - 1865), Reconstruction and Growth (1866 - 1916), World War I to World War II (1917 - 1945), The New Dominion (1946 - 1988), Post Cold War (1989 - Present)	Not Evaluated
44VB0407	Cemetery, Dwelling, single	Reconstruction and Growth (1866 - 1916), World War I to World War II (1917 - 1945), The New Dominion (1946 - 1991), Post Cold War (1992 - Present)	Not Evaluated



Redacted – Contains Archaeological Site Information

**Figure 4-4: Previously recorded archaeological resources located within 1- mile of project project area.
Source: VCRIS**



Redacted – Contains Archaeological Site Information

Figure 4-5: Detail of previously recorded archaeological resource crossed by the project ROW. Source: VCRIS

5. RESULTS OF FIELD RECONNAISSANCE

In accordance with the VDHR guidelines for assessing impacts of proposed electric transmission lines on historic resources, previously recorded historic architectural properties designated an NHL, or either listed or determined eligible or potentially eligible for listing in the NRHP located within 1.5 mile, 1.0 mile, or 0.5 mile of the project area (Table 5-1) were field verified for existing conditions and photo documented. Inspection and analysis of the setting around the resource and views towards the project alignment were also investigated to assess potential impacts. The results of the field reconnaissance for each resource are organized by NRHP-status, and summarized in the following pages.

Previously recorded archaeological sites located directly within the project ROW were not field inspected or subject to assessment at this time.

Table 5-1: Considered Architectural Resources within their Respective Tiered Buffer Zones for the Lines# 2019 and 2007 Rebuild Project

VDHR #	Resource Name, Address	NRHP-Status	Distance from Project
134-0026	Pembroke Manor	NRHP-Listed	~0.83 Mile
134-0027	Pleasant Hall	NRHP-Listed	~0.94 Mile
134-0031	Francis Land House/Rose Hall	NRHP-Listed	~0.14 Mile
134-5052	Princess Anne Training School/Union Kempsville High School	NRHP-Eligible	~0.22 Mile
134-5145	Norfolk and Virginia Beach Railroad	NRHP-Eligible	Directly within ROW

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**NATIONAL REGISTER OF HISTORIC PLACES – LISTED
PROPERTIES BATTLEFIELDS, AND LANDSCAPES**
Located within 1.0 Mile of the Project or Closer

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Pembroke Manor (VDHR# 134-0026)

The Pembroke Manor site consist of a 1764 brick building that was once part of the Pembroke Manor estate, a historic eight-hundred-acre farm and the namesake of a section of modern Virginia Beach. The Georgian style brick building is two rooms deep and two stories tall with a belt course running between the first and second floors. The structure is topped with a hipped roof sheathed in wood shingles and embellished with a fine modillion cornice. Two brick interior central chimneys interrupt the roof. The brick walls are laid in Flemish bond above and below a quarter-round water table but are damaged in some sections. The central front door is surrounded by a wooden segmental pediment supported by pilasters, all of which appear to be of twentieth-century origin. The original windows consisted of wood nine-over-nine double hung sash windows, and while most of the original window frames have survived, the sash has been replaced by one-over-one sash. The plan of the structure consists of two rooms on either side of a central hall both upstairs and down, although the level of the second floor has been lowered since initial construction. The interior has also been altered considerably as the only original woodwork that survives are several doors and their frames, some paneled wainscotting, and possibly some flooring, all in fine condition.

Much of the land that would become the Pembroke Manor estate was part of the original grant acquired by Adam Thoroughgood in 1635. The extant structure was likely constructed in 1764 by Jonathan Saunders, the third generation of the Saunders family to live at Pembroke, evidenced by a brick on the north side of the house inscribed with a set of initials and the year. After Saunders died, the property passed to his son, John, who lost the property when he declared his loyalty to the British at the start of the Revolutionary War. Since 1796, the Pembroke property has been bought and sold several times. The building is related to a group of classic Virginia Georgian mansions whose design are often attributed to Richard Taliaferro. Unfortunately, the setting of the site has been marred by modern development, as the house now stands in the center of a traffic circle amid an ordinary housing project. To recognize its significance as an example of colonial Virginia architecture, it was listed in the NRHP and put under a Preservation Easement held by the VDHR in 1969.

In order to assess the potential impact of the proposed project, visual inspection was conducted of the setting around the Pembroke Manor house and photographs were taken to document viewshed with emphasis on views from the resource towards the project alignment. Pembroke Manor is set within a suburban area north of the project area and is roughly 0.83 mile away at its nearest point. The home is oriented generally to the southwest, with the project alignment stretching across the landscape to the front and side.

A site visit to the property found that the historic setting has been severely compromised by nonhistoric development. The home now sits on a small lot bordered by suburban development with a cul-de-sac located immediately to the front. It is bordered by streets to both sides and the front that are lined by a complex of attached townhouses and a modern church property. Views of and towards the home are short and limited to vantage points in the immediate vicinity as development and vegetation within the area inhibits distant or wide views.

Inspection from the property towards the project area revealed similarly obstructed views screened by extensive development and vegetation in the immediate vicinity, as well as stretching between the property and the project area. The most distant views in the direction of the project area are due south down a street corridor, however, the distance and curvature of the road inhibit visibility of the project area and existing transmission line.

Although the replacement transmission line structures are proposed to be 10 to 23 feet taller than the existing structures, it is expected that the intervening vegetation and development will continue to provide complete screening of views in the direction of the project area.

Visual impacts are defined as the introduction of visual elements that might diminish or alter the setting of any historic property listed on or eligible for listing on the NRHP. Pembroke Manor is considered significant for its representation of eighteenth-century architecture, however it has been acknowledged that its historic setting is no longer intact. As such, the immediate yardscape and views from it towards the house are considered important for interpretation and appreciation, while the surrounding setting and viewshed outwards are not inherently linked to its significance. As the project is not anticipated to be visible, it will not further detract from or compromise those qualities and characteristics that make the property eligible for listing in the NRHP. It is therefore D+A's opinion that the Lines# 2019 and 2007 Rebuild Project will pose *no impact* on Pembroke Manor.

Figure 5-1 depicts the location of Pembroke Manor in relation to the project area and viewshed buffers, with the location and direction of all representative photographs. Figures 5-2 through 5-7 are representative photographs of the property, as well as those taken from locations within and near the property towards the project area.

RESULTS OF FIELD RECONNAISSANCE

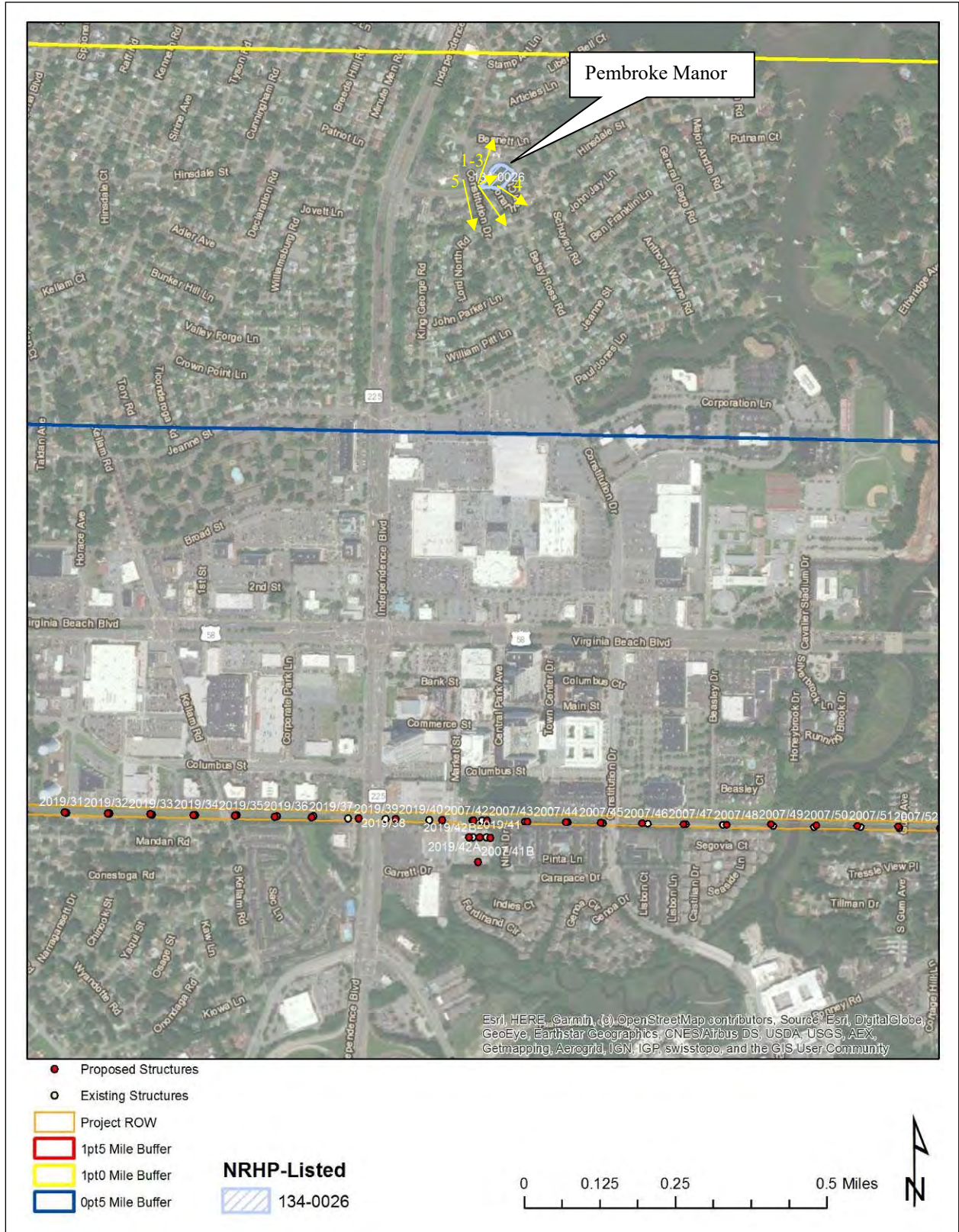


Figure 5-1: Location of Pembroke Manor in relation to the project area (Representative photographs and views towards the project area depicted in yellow).



Figure 5-2: Photo location 1- View of Pembroke Manor, front façade, facing northeast.



Figure 5-3: Photo location 2- General view of Pembroke Manor setting, facing northeast.



Figure 5-4: Photo location 3- View from front of Pembroke Manor towards the project area (not visible – screened by development and vegetation), facing southeast.



Figure 5-5: Photo location 4- View from side of Pembroke Manor towards the project area (not visible – screened by development and vegetation), facing southeast.



Figure 5-6: Photo location 5- View from front of Pembroke Manor towards the project area (not visible – screened by development and vegetation), facing south.



Figure 5-7: Photo location 6- from front of Pembroke Manor towards the project area (not visible – screened by development and vegetation), facing southwest.

Pleasant House (VDHR# 134-0027)

The Pleasant House stands near what used to be the crossroads that once defined the old town of Kempsville but is now an area of suburban sprawl. The site consists of Georgian style brick house that has maintained much of its original material with few alterations having been made to the structure. The double-pile, two-story, five-bay house is topped by a side gable roof clad in standing seam metal. The roof also features a modillion and dentil cornice running along the eaves. Two interior end chimneys with corbeled caps interrupt the roof. A belt course and beveled water table characterize the brick walls, which are laid in a Flemish bond. Additions to the structure include a one-story lean-to in the rear and a Greek Revival porch which obscured the front entrance. The nine-over-nine double hung, wood sash windows have molded sills and rubbed brick jack arches, and many retain their original sashes. The structure was built using a central hall plan with a central arch supported by fluted Doric pilasters. The stairwell, located on the west side of the northern end of the central hall, features turned newels and a wide molded handrail. The most elaborately decorated room in the house is the parlor, which is surrounded by a modillion and dentil cornice and includes a projecting chimney piece with fluted Corinthian pilasters. Most of the other rooms are plainer but many feature paneling as well. Much of the interior woodwork and hardware remain intact with the only significant alteration being the Greek Revival door cut between the east first floor rooms.

Built in 1779 by Peter Singleton, a wealthy Princess Anne County landowner, Pleasant Hall still stands as an excellent example of second period Georgian architecture. The property was sold by the Singletons in 1804 has since passed through numerous different owners. At one point, it served as a funeral home. Today it is the reception center for the Kempsville Baptists Church. The fine workmanship of both the exterior and interior have remained virtually unaltered. The structure also features unique architectural features such as the king post truss system and full paneled parlor. The house has survived in near perfect condition while its surrounding areas of broad flat fields have been transformed into suburban housing tracts. Few Virginia houses of its age have survived with so much original material intact, making the site architecturally significant. With that in mind, the property was listed in the NRHP and put under a Preservation Easement held by the VDHR in 1973.

In order to assess the potential impact of the proposed project, visual inspection was conducted of the setting around the Pleasant House property and photographs were taken to document viewshed with emphasis on views from the resource towards the project alignment. Pleasant House is set within a mixed-use suburban area south of the project area and is roughly 0.94 mile away at its nearest point. The home is oriented to the south, with the project alignment stretching across the landscape to the rear and east side.

A site visit to the property found that the historic setting has been severely compromised by nonhistoric development. The home now sits on a small lot bordered by suburban development to all sides, including a mix of residential and commercial buildings of various size and scale. Views of and towards the home are short and limited to vantage points in the immediate vicinity as development and vegetation within the area inhibits distant or wide views.

Inspection from the property towards the project area revealed similarly obstructed views screened by extensive development and vegetation in the immediate vicinity, as well as stretching between the property and the project area. From the front of the property, the buildings and trees that line the road generally inhibit views beyond. The longest views in the direction of the project are across the one-story commercial buildings set to the east of the Pleasant House property, although vegetation and treelines behind them screen all views of the exiting transmission line and the raised interstate situated in front of it. Views from the rear of the property are also a bit more distant across an open parking lot, however, again, trees lining the rear of the property and beyond prevent any visibility of the existing transmission line.

Although the replacement transmission line structures are proposed to be 10 to 23 feet taller than the existing structures, it is expected that the intervening vegetation and development will continue to provide complete screening of views in the direction of the project area.

Visual impacts are defined as the introduction of visual elements that might diminish or alter the setting of any historic property listed on or eligible for listing on the NRHP. Pleasant House is considered significant for its representation of eighteenth-century architecture, however it has been acknowledged that its historic setting is no longer intact. As such, the immediate yardscape and views from it towards the house are considered important for interpretation and appreciation, while the surrounding setting and viewshed outwards are not inherently linked to its significance. As the project is not anticipated to be visible, it will not further detract from or compromise those qualities and characteristics that make the property eligible for listing in the NRHP. It is therefore D+A's opinion that the Lines# 2019 and 2007 Rebuild Project will pose *no impact* on Pleasant House.

Figure 5-8 depicts the location of Pleasant House in relation to the project area and viewshed buffers, with the location and direction of all representative photographs. Figures 5-9 through 5-14 are representative photographs of the property, as well as those taken from locations within and near the property towards the project area.

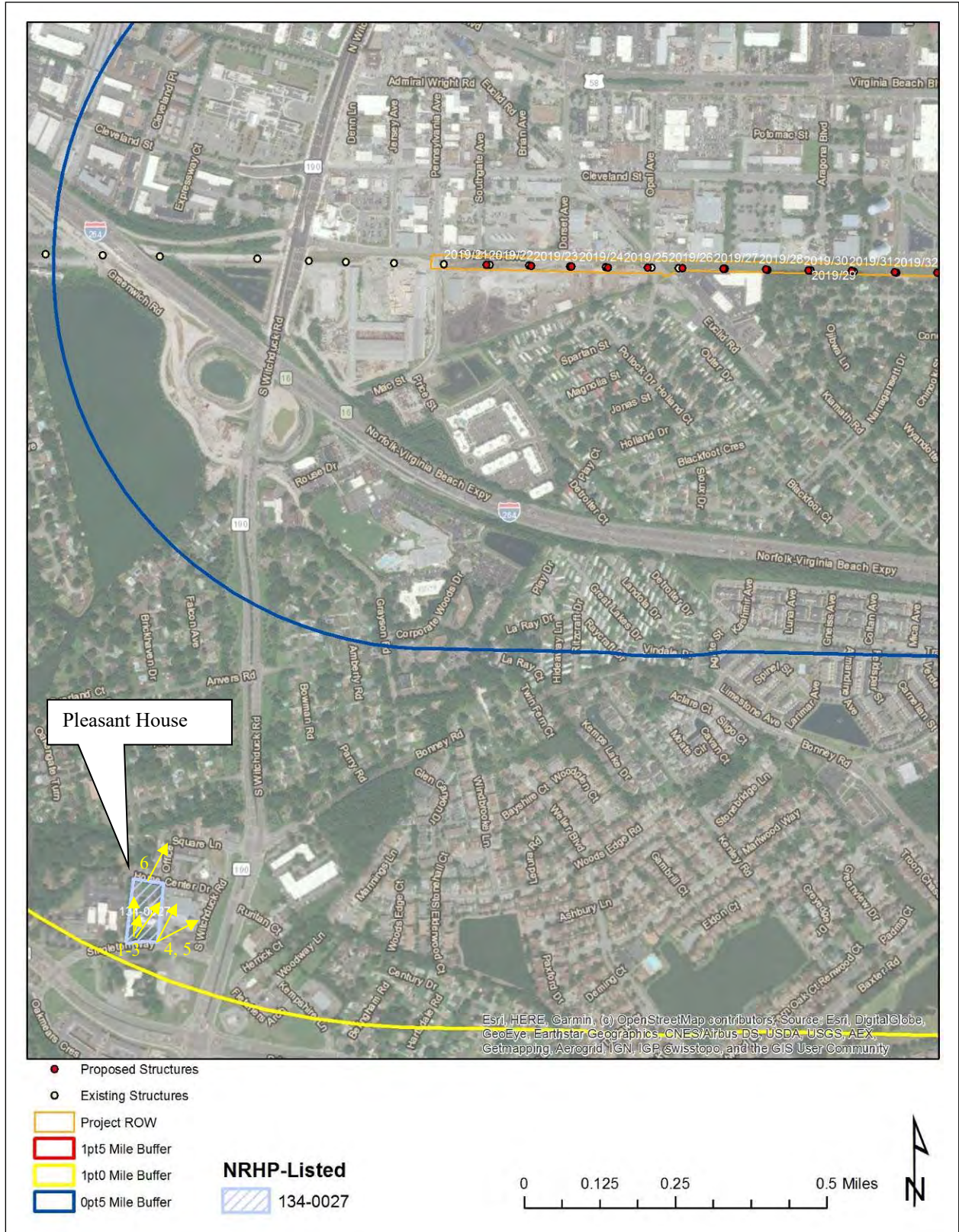


Figure 5-8: Location of Pleasant House in relation to the project area (Representative photographs and views towards the project area depicted in yellow).



Figure 5-9: Photo location 1- View of Pleasant House, front façade, facing north.



General location of the project area
(roughly 0.96 mile away - screened
behind buildings and trees)

Figure 5-10: Photo location 2- General view of Pleasant House setting looking towards the project area (not visible – screened by development and vegetation), facing northeast.



Figure 5-11: Photo location 3- View from front of Pleasant House towards the project area (not visible – screened by development and vegetation), facing north.



Figure 5-12: Photo location 4- View from side of Pleasant House property towards the project area (not visible – screened by development and vegetation), facing north.



Figure 5-13: Photo location 5- View from side of Pleasant House property towards the project area (not visible – screened by development and vegetation), facing northeast.



Figure 5-14: Photo location 6- View from rear of Pleasant House towards the project area (not visible – screened by development and vegetation), facing north.

Rose Hall and Francis Land House (VDHR# 134-0031)

The Rose Hall and Francis Land House site consists of a Colonial-style single-family dwelling located just south of Virginia Beach Boulevard, a highly commercialized sections of the modern city of Virginia Beach. The two-story, five-bay house is covered by a gambrel roof which is clad with wood shingles. The roof is interrupted by two brick interior end chimneys and five pedimented gable dormers with six-over-six double-hung, wood sash windows. The raised entry is covered by a similarly pedimented gable portico with a solid brick foundation, and accessed via a straight-flight stair.

The house was built in 1732 by Captain Francis Land, III, a descendant of a wealthy family who had owned property in Princess Anne County since the mid-seventeenth century. The gambrel roof of the house stands a testament to the wealth and affluence of the Land family. Originally a residence and farm, the site served a variety of different purposes throughout its lifetime. It remained a residence and farm when it passed from the Land family in 1836, but was used as a prison for Confederate loyalists at one point during the Civil War, as was tradition at the time. The house was then remodeled and enlarged in the 1950s to be used as a commercial building, operating as the “Rose Hall” dress shop. Today, the site is open to the public, having been purchased by the city of Virginia Beach in 1975. With the house in good condition, it serves as an excellent example of early Colonial Virginia architecture. As such, it was listed in the NRHP in 1975 under Criterion C, denoting architectural significance.

In order to assess the potential impact of the proposed project, visual inspection was conducted of the setting around the Francis Land House property and photographs were taken to document viewshed with emphasis on views from the resource towards the project alignment. The Francis Land House is set within a mixed-use suburban and commercial area north of the project area and is roughly 0.14 mile away at its nearest point. The home is oriented to the northwest, with the project alignment stretching across the landscape to the rear.

A site visit to the property found that the historic setting has been substantially compromised by nonhistoric development, although the setting of the immediate homesite and property remains generally intact. The home now sits on a small lot bordered by suburban development to all sides, including commercial development flanking it along the road, another commercial complex to the rear, and a complex of townhouses to the side. Views of and towards the home are limited to from the road immediately in front of the property as commercial development and vegetation screens more distant views.

Inspection from the property towards the project area revealed that existing vegetation in and around the property inhibits views looking outwards and prevents visibility of the existing transmission line. The thick and mature trees that characterize much of the vegetation also largely screen views of the neighboring development, even that in close proximity. The most distant views outward from the property are across a small garden tract to the side of the home, however, a line of tall pine trees along the rear edge prevent visibility of the existing transmission line.

Although the replacement transmission line structures are proposed to be 10 to 23 feet taller than the existing structures, it is expected that the intervening vegetation and development will continue to provide complete screening of views in the direction of the project area due to angle of view.

Visual impacts are defined as the introduction of visual elements that might diminish or alter the setting of any historic property listed on or eligible for listing on the NRHP. The Francis Land House is considered significant for its representation of eighteenth-century Colonial architecture and is open to the public for interpretation. A small yardscape around the home has also been preserved, although the larger surrounding setting has been encroached by nonhistoric development. As such, the immediate yardscape and views from it towards the house are considered important for interpretation and appreciation, while the surrounding setting and viewshed outwards are not inherently linked to its significance. As the project is not anticipated to be visible, it will not further detract from or compromise those qualities and characteristics that make the property eligible for listing in the NRHP. It is therefore D+A's opinion that the Lines# 2019 and 2007 Rebuild Project will pose *no impact* on the Francis Land House.

Figure 5-15 depicts the location of Francis Land House in relation to the project area and viewshed buffers, with the location and direction of all representative photographs. Figures 5-16 through 5-23 are representative photographs of the property, as well as those taken from locations within and near the property towards the project area.

RESULTS OF FIELD RECONNAISSANCE

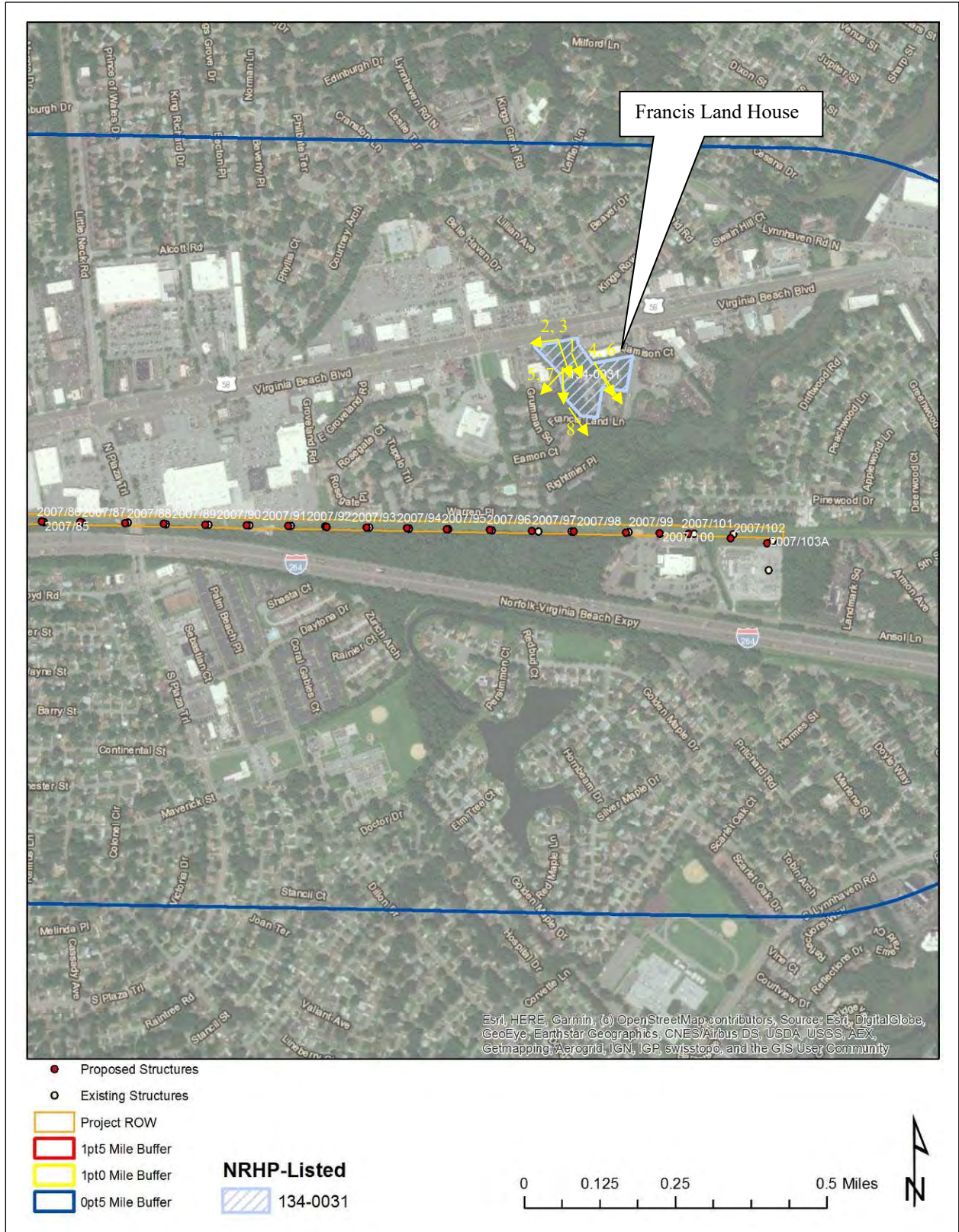


Figure 5-15: Location of Francis Land House in relation to the project area (Representative photographs and views towards the project area depicted in yellow).



Figure 5-16: Photo location 1- View of Francis Land House, front façade, facing southeast.



Figure 5-17: Photo location 2- General view of Francis Land House setting looking towards the project area (not visible – screened by vegetation), facing southeast.



Figure 5-18: Photo location 3- View from front of Francis Land House property showing setting, facing west.



Figure 5-19: Photo location 4- View from side of Francis Land House towards the project area (not visible – screened by vegetation), facing southeast.



Figure 5-20: Photo location 5- View from side of Francis Land House towards the project area (not visible – screened by vegetation), facing southeast.



Figure 5-21: Photo location 6- View from side of Francis Land House towards the project area (not visible – screened by vegetation), facing southwest.



Figure 5-22: Photo location 7- View from Francis Land House garden towards the project area (not visible – screened by vegetation), facing southeast.



Figure 5-23: Photo location 8- View from rear of Francis Land House property towards the project area (not visible – screened by vegetation), facing south.

**NATIONAL REGISTER OF HISTORIC PLACES – ELIGIBLE
PROPERTIES**

Located within 0.5 Mile of the Project or Closer

Princess Anne Training School/Union Kempsville High School, Union Kempsville High School, Center for Effective Learning Middle School, and Virginia Beach Central Academy High School (VDHR# 134-5052)

The Union Kempsville High School site, originally known as Princess Anne County Training School, served as the first public high school for African American children in Princess Anne County, however, has since been demolished. Fronting North Witchduck Road, the original Beaux Arts-style, one-story school building was constructed in 1938. The form of this structure followed its function, as the Beaux Arts massing and details were meant to represent modern ideas about education institutions and curriculum. The structure was covered by a flat roof with no eaves and little decoration. The long, exterior masonry walls were accented with pilasters and three pedimented pavilions along the east section. Fixed windows were arranged together in groups of four or more with simple stone sills, and some original doors had transoms. Most of the building was clad in plain stucco or painted concrete block. The structure was a major departure from the one-room schoolhouses that were common during this time, and the school grew into a complex and irregular design through years of constructing additions.

Up until the 1930s, Princess Anne County was one of the only counties in Virginia that did not provide school facilities for African American children. In an era of strict segregation, this meant that Black children could only receive up to a seventh-grade education before they had to travel to Norfolk to get any higher education. To mitigate this issue, the local African American community raised funds to open the Princess Anne County Training School. The school experienced many changes during its active years, including a name change in 1961 to Union Kempsville High School. The structure also saw many additions to its original layout, which reflected the changing educational needs of the institution over time. The school closed in 1969 as desegregation finally began taking effect and children started to have access to schools closer to their homes, and the building was later demolished. Although the structure was not particularly architecturally significant, the opening of the school was significant because it was funded by the local African American community for African American education during segregation. Considering this, the site was recommended eligible for listing in the NRHP under either Criterion A or D.

In order to assess impacts, the current conditions of the property were taken into consideration in conjunction with the qualities and characteristics that make it eligible for the NRHP. Visual inspection confirmed that the original building has been demolished and no evidence remains, and also revealed that the site has been further compromised by recent redevelopment with a large modern building. The surrounding setting is characterized by extensive large-scale nonhistoric development. It is roughly 0.21 mile away from the project area at its nearest point. While the existing transmission line is visible from the site, it is seen in conjunction with extensive other modern development and infrastructure, including the raised Virginia Beach Expressway corridor.

Visual impacts are defined as the introduction of visual elements that might diminish or alter the setting of any historic property listed on or eligible for listing on the NRHP. As this building has been demolished, its former site is considered important, however, its significance is primarily derived from its history and the research/interpretative potential it offers. As the

setting around the site is already severely compromised, this project which entails the rebuild of an existing transmission line already within the viewshed will not alter or diminish the history of the property or the qualities that make it eligible for listing. It is therefore D+A's opinion that the Lines# 2019 and 2007 Rebuild Project will have *no impact* on the Princess Anne Training School.

Figure 5-24 depicts the location of the Princess Anne Training School site in relation to the project area and viewshed buffers. Figure 5-25 provides a representative photograph of the property and its existing conditions.

RESULTS OF FIELD RECONNAISSANCE

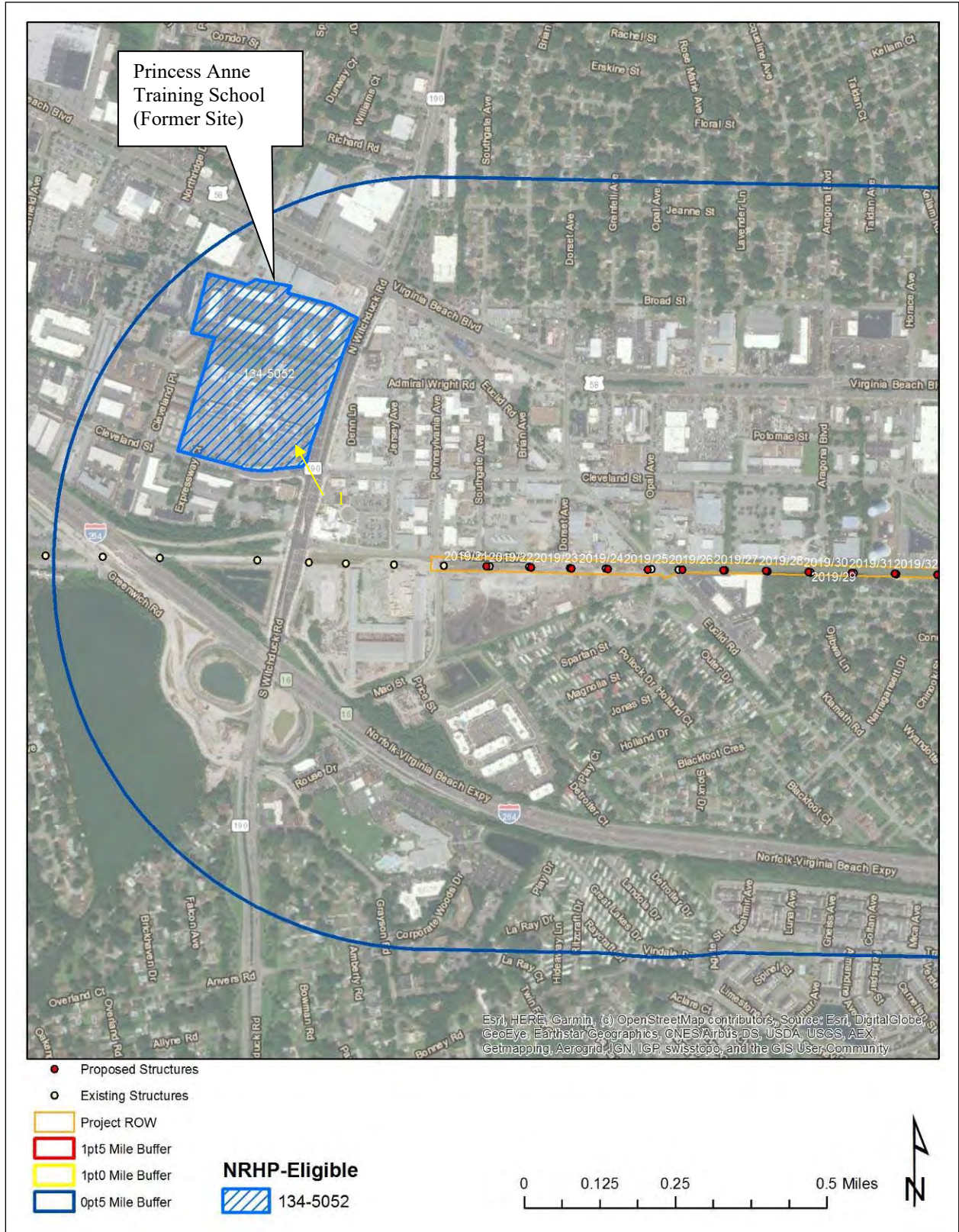


Figure 5-24: Location of Princess Anne Training School Site in relation to the project area (Representative photographs and views towards the project area depicted in yellow).



Figure 5-25: Photo location 1- View of Princess Anne Training School site depicting modern building, facing northwest.

Norfolk and Virginia Beach Railroad

The Norfolk and Virginia Beach Railroad runs in a west to east direction, from Norfolk to Broad Creek, then from Broad Creek approximately fourteen miles to the Virginia Beach oceanfront. The western portion of the railroad is currently used by the Norfolk Tide Light Rail system while the remainder, including the project area, is abandoned. The site remains largely unaltered and has maintained much of its original fabric. The rail bed, wood ties, and metal rails are still intact, although portions have been covered with dirt or paved over with roadway surfaces.

The Norfolk and Virginia Beach Railroad dates to the genesis of Virginia Beach as a resort area. In the early 1880s, the Norfolk and Virginia Beach Railroad and Improvement Company purchased oceanfront property to build a hotel and a railroad, which began operation in 1883. The Norfolk Southern Railway purchased the railway in 1899 and upgraded it the narrow gauge to a standard gauge. The line carried passengers between Norfolk and Virginia Beach until 1947, when service stopped due to the growing prevalence of the automobile. Currently the western portion of the railway is used by the Norfolk Tide Light Rail system. The railroad is associated with the development of the commercial and transportation industries in Virginia Beach, and has been recommended eligible for listing in the NRHP under Criterion A.

In order to assess the potential impact of the proposed project, visual inspection was conducted of the setting around the resource property with emphasis on views towards the project area to document existing setting, sitelines, and viewshed. This assessment found that a portion of the former Norfolk and Virginia Beach Railroad corridor coincides with the project ROW. The entire length of the existing transmission line within the roughly 4.54-mile project area is colocated within the former railroad corridor, and both the railroad corridor and transmission lines extend beyond the project area in both directions. The landscape of the corridor shared with the project ROW is generally cleared and grassy. A single set of railroad tracks extends centrally through the corridor atop a slight berm. The existing transmission line is built on the south side of the tracks, on another slight berm across a shallow ditch from the rail line. A smaller distribution-level transmission line extends within the corridor to the opposite side of the railroad tracks. The corridor is crossed by several roads as well as private driveways along the length of the project area, and is bordered by a mix of residential and commercial development.

Inspection from the corridor and vantage points in the immediate vicinity revealed that the existing transmission line is highly visible as it extends through the ROW. The multiple road crossings allow visibility of both the railroad tracks and transmission line as they extend in both directions, and while the transmission line remains visible from vantages further away, the railroad tracks and berm are visible only from the immediate vicinity.

As the replacement transmission line structures are proposed to be 10 to 23 feet taller than the existing structures, it is expected that visibility will remain generally similar to current conditions. While the replacement structures will be noticeably taller, they may be increasingly visible from vantages in the vicinity, however, from the corridor itself and when seen in conjunction with the remaining railroad tracks, the difference in height will not likely be

perceptible as the structures are to be replaced on a one-to-one basis, in generally the same locations, with structures of similar design and configuration.

As such, the project may introduce a slight change of viewshed from the corridor, however, that will be limited to where the corridor has already been compromised by collocation of the existing transmission line and additional infrastructure and development to both sides. It is therefore D+A's opinion that the Lines# 2019 and 2007 Rebuild Project will have no more than a *minimal impact* on the former Norfolk and Virginia Beach Railroad.

Figure 5-26 depicts the location of the Norfolk and Virginia Beach Railroad corridor in relation to the project area and viewshed buffers, with the location and direction of all representative photographs. Figures 5-27 through 5-32 are representative photographs of the property, as well as those taken from locations within and near the property towards the project area.

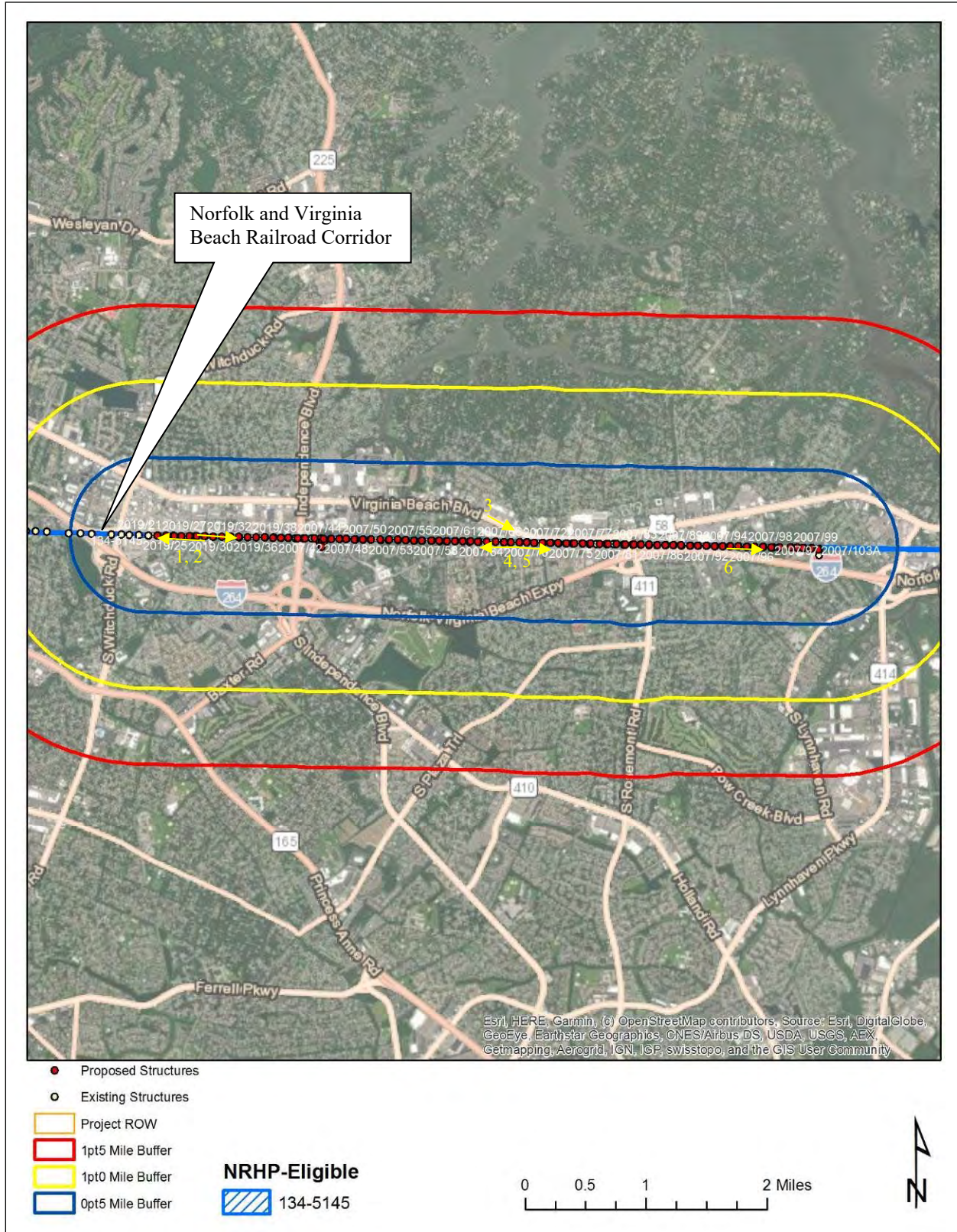


Figure 5-26: Location of the Norfolk and Virginia Beach Railroad Corridor in relation to the project area (Representative photographs and views towards the project area depicted in yellow).

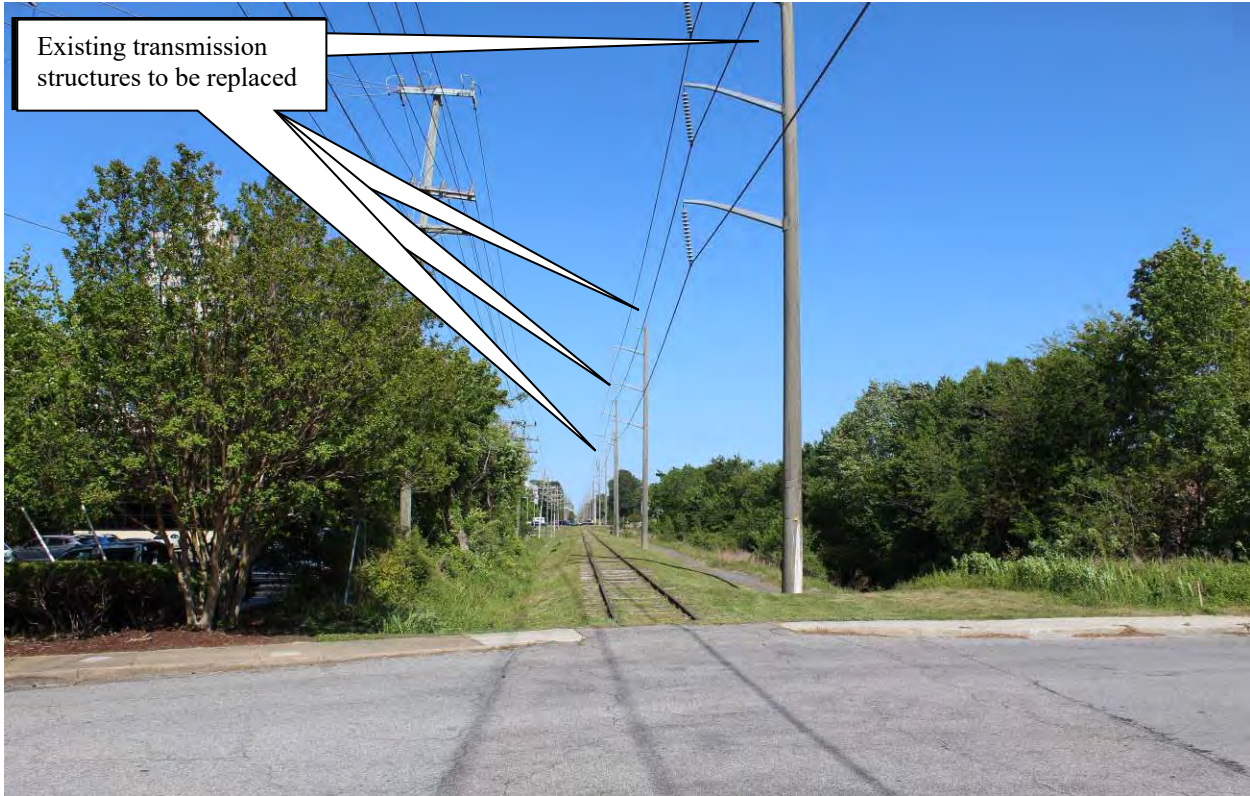


Figure 5-27: Photo location 1- View of corridor and existing transmission line from Kellam Road crossing, facing east.



Figure 5-28: Photo location 2- View of corridor and existing transmission line from Kellam Road crossing, facing west.



Figure 5-29: Photo location 3- View from Virginia Beach Boulevard at Kentucky Drive towards the corridor and project area (visible), facing southeast

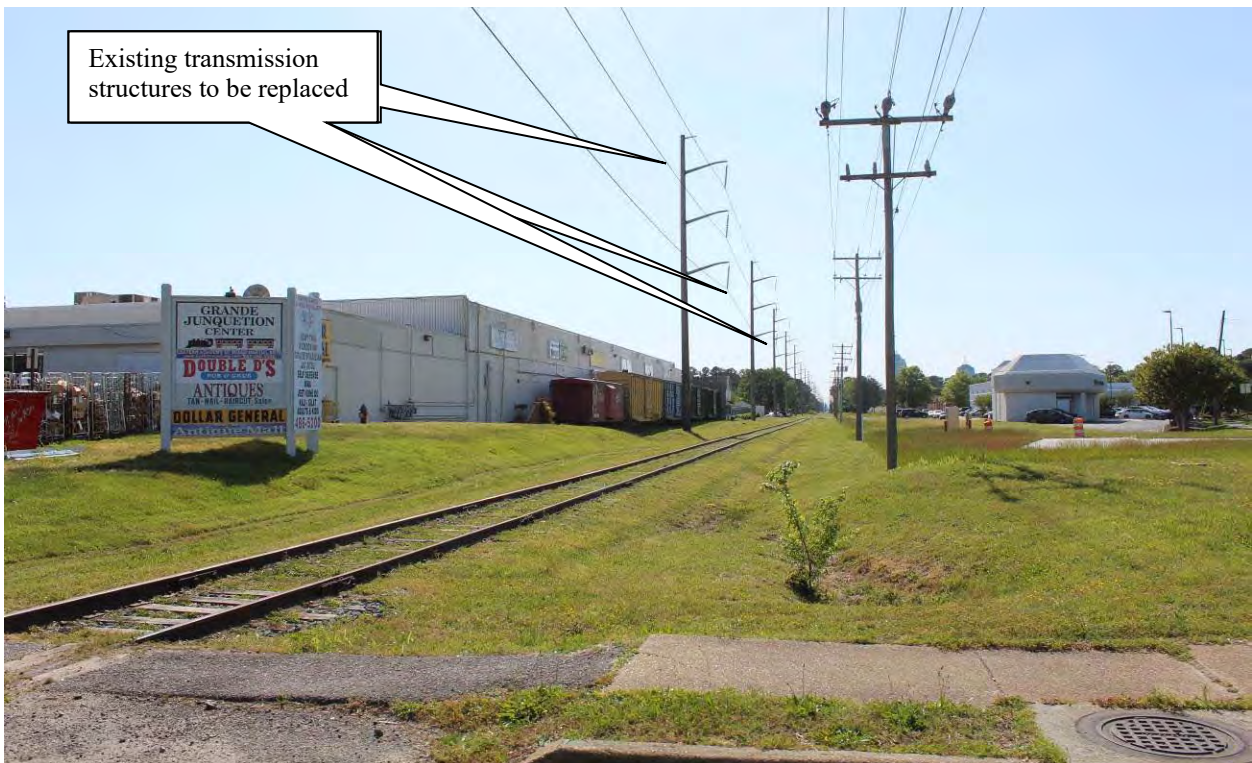


Figure 5-30: Photo location 4- View of corridor and existing transmission line from Lynn Shores Drive crossing, facing west.

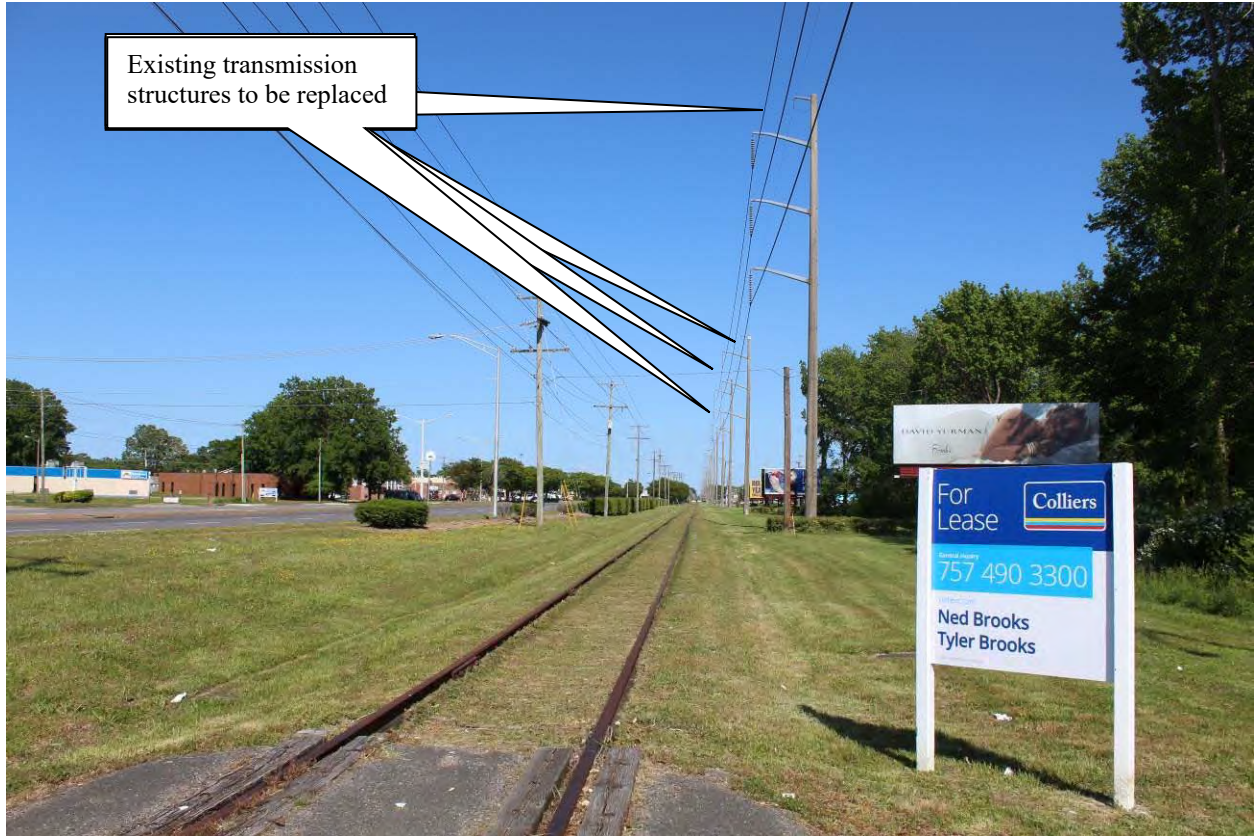


Figure 5-31: Photo location 5- View of corridor and existing transmission line from Lynn Shores Drive crossing, facing east.



Figure 5-32: Photo location 6- View of corridor and existing transmission line from Plaza Trail crossing, facing east.

6. SUMMARY OF POTENTIAL IMPACTS

As part of this pre-application analysis of cultural resources for the Lines# 2019 and 2007 Rebuild Project, potential impacts to previously recorded historic properties designated an NHL, NRHP-listed, or considered eligible for listing in the NRHP within the VDHR-defined buffered tiers were assessed in accordance with the VDHR guidelines. For the purposes of this analysis, an impact is one that alters, either directly or indirectly, those qualities or characteristics that qualify a particular property for listing in the NRHP and does so in a manner that diminishes the integrity of a property's materials, workmanship, design, location, setting, feeling, and/or association. With respect to transmission lines, direct impacts typically are associated with ground disturbance resulting from ROW clearing and structure construction. Indirect impacts typically are associated with the introduction of new visual elements or changes to the physical features of a property's setting or viewshed. According to VDHR guidance, project impacts are characterized as such:

- **None** – Project is not visible from the property
- **Minimal** – Occur within viewsheds that have existing transmission lines, locations where there will only be a minor change in tower height, and/or views that have been partially obstructed by intervening topography and vegetation.
- **Moderate** – Include viewsheds with expansive views of the transmission line, more dramatic changes in the line and tower height, and/or an overall increase in the visibility of the route from the historic properties.
- **Severe** – Occur within viewsheds that do not have existing transmission lines and where the views are primarily unobstructed, locations where there will be a dramatic increase in tower visibility due to the close proximity of the route to historic properties, and viewsheds where the visual introduction of the transmission line is a significant change in the setting of the historic properties.

With regards to architectural resources, there are a total of five (5) historic properties located within the defined study tiers that warrant consideration of impacts. This includes no (0) NHLs located within 1.5 mile of the proposed project or closer, three (3) property listed in the NRHP located within 1.0 mile or closer of the project, and two (2) properties that have been determined eligible or potentially eligible for listing in the NRHP within 0.5 mile or closer of the project. One of the NRHP-eligible resources is directly crossed by the project area.

Inspection from these resources found that they are all located within a highly urbanized setting with extensive nonhistoric and ongoing development. The project area roughly parallels the Virginia Beach Boulevard and the Interstate-264 corridors, both of which are flanked by dense commercial and residential areas. Due to the dense development patterns in the area, coupled with vegetation scattered throughout the area, the existing transmission line is not visible from the majority of the resources and it is anticipated that despite the increase in structure height as a result of the project, the replacement structures will remain screened. The exception is from one resource, a former railroad corridor which is now used as the ROW for the project. The existing structures are clearly visible from within and in the vicinity of this corridor and it is expected that the replacement structures will be increasingly visible, however, will continue to be seen in conjunction with extensive nonhistoric development in a compromised setting around

SUMMARY OF POTENTIAL IMPACTS

the railroad. *It is therefore D+A's opinion that the proposed Lines# 2019 and 2007 Rebuild Project will have no more than a minimal impact on any architectural resources that are designated an NHL, listed in the NRHP, or determined eligible or potentially eligible for listing (Table 6-1).*

Table 6-1: Potential impacts summary for architectural resources.

VDHR #	Resource Name, Address	NRHP-Status	Distance from Project	Recommended Impact
134-0026	Pembroke Manor	NRHP-Listed	~0.83 Mile	No Impact
134-0027	Pleasant Hall	NRHP-Listed	~0.94 Mile	No Impact
134-0031	Francis Land House/Rose Hall	NRHP-Listed	~0.14 Mile	No Impact
134-5052	Princess Anne Training School/Union Kempsville High School	NRHP-Eligible	~0.22 Mile	No Impact
134-5145	Norfolk and Virginia Beach Railroad	NRHP-Eligible	Directly within ROW	Minimal Impact

With regards to archaeology, the entire project ROW has been subject to survey and one previously recorded site is crossed by it. This site is that of the former Kempsville Canal. Although some evidence of this feature can be observed on the landscape throughout discrete lengths of its overall alignment, it has been completely eradicated by development in the vicinity of the project area. As such, it has previously been determined not eligible for listing in the NRHP by the VDHR. No archaeological field work was conducted as part of this effort and previously recorded sites within or adjacent to the project were not visited or assessed at this time, however, *it is D+A's opinion that based upon previous survey data, there will be no impact to previously recorded archaeological sites within the project area, and no further consideration or survey for archaeological resources is warranted (Table 6-2).*

Table 6-2: Summary of potential impacts summary for archaeological resources.

VDHR#	NRHP Status	Proximity to Project Area	Impacts
44VB0060 (Kempsville Canal)	DHR Staff: Not Eligible	Directly Crossed	No Impact

7. REFERENCES

National Park Service

2009 “Civil War Sites Advisory Commission Report Update and Resurvey,” American Battlefield Protection Program

Virginia Department of Historic Resources

2008 *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia*

Virginia Department of Historic Resources

2016 Virginia Cultural Resource Information System (VCRIS) database and GIS server.

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COMMONWEALTH of VIRGINIA

Travis A. Voyles
Acting Secretary of Natural
and Historic Resources

Department of Historic Resources
2801 Kensington Avenue, Richmond, Virginia 23221

Julie V. Langan
Director
Tel: (804) 367-2323
Fax: (804) 367-2391
www.dhr.virginia.gov

August 12, 2022

Robert Taylor
Dutton + Associates, LLC
1115 Crowder Dr.
Midlothian, VA 23113

Re: Pre-Application Analysis of Cultural Resources for the Lines# 2019 and 2007 Rebuild Project
Virginia Beach, Virginia
DHR File No. 2022-4370

Dear Mr. Taylor

We have received for review the report, *Pre-Application Analysis of Cultural Resources for the Lines# 2019 and 2007 Rebuild Project* prepared by Dutton and Associates (D+A), in accordance with Section I of DHR's *Guidelines for Assessing Impacts of Proposed Electric Transmission Lines and Associated Facilities on Historic Resources in the Commonwealth of Virginia* (2008). The below comments are provided as technical assistance to Virginia Dominion Energy (Dominion) in its preparation of an application to the State Corporation Commission (SCC). We have not been notified by any Federal agency of their involvement in this project; however, we reserve the right to provide additional comment pursuant to the National Historic Preservation Act, if applicable.

The pre-application analysis considers the potential impact of the proposed project on recorded archaeological sites and on known historic architectural properties listed or previously determined eligible for listing in the Virginia Landmarks Register (VLR) and the National Register of Historic Places (NRHP) within a tiered study area. DHR's comments on the pre-application analysis are provided in the attached table and utilize the following scale in describing impacts:

- **None** – Project is not visible from the property
- **Minimal** – Occur within viewsheds that have existing transmission lines, locations where there will only be a minor change in tower height, and/or views that have been partially obstructed by intervening topography and vegetation.
- **Moderate** – Include viewsheds with expansive views of the transmission line, more dramatic changes in the line and tower height, and/or an overall increase in the visibility of the route from the historic properties.
- **Severe** – Occur within viewsheds that do not have existing transmission lines and where the views are primarily unobstructed, locations where there will be a dramatic increase in tower visibility due to the close proximity of the route to historic properties, and viewsheds where the visual introduction of the transmission line is a significant change in the setting of the historic properties.

Page 2
DHR File No. 2022-4370
August 12, 2022

Architecture

To summarize, the pre-application analysis identifies three (3) Virginia Landmarks Register (VLR) and National Register of Historic Places (NRHP)-listed and two (2) eligible or potentially eligible architectural resources within the tiered study area. DHR concurs with D+A's identification of previously recorded resources and impact assessments for the following:

1. DHR ID #134-0026 Pembroke Manor; NRHP-Listed; ~0.83 Mile; No Impact
2. DHR ID #134-0027 Pleasant Hall; NRHP-Listed; ~0.94 Mile; No Impact
3. DHR ID #134-0031 Francis Land House/Rose Hall; NRHP-Listed; ~0.14 Mile; No Impact
4. DHR ID #134-5052 Princess Anne Training School/Union Kempsville High School; NRHP-Eligible; ~0.22 Mile; No Impact
5. DHR ID #134-5145 Norfolk and Virginia Beach Railroad; NRHP-Eligible; Directly within ROW; Minimal Impact

Archaeology

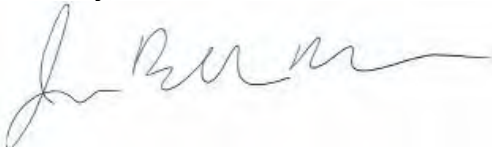
The project ROW has been surveyed and one previously recorded site is located within the ROW (44VB0060/The Kempsville Canal). It has previously been determined not eligible for listing in the NRHP by the DHR. No archaeological field work was conducted as part of this effort and previously recorded sites within or adjacent to the project were not visited or assessed at this time. It is D+A's opinion that based upon previous survey data, there will be no impact to previously recorded archaeological sites within the project area, and no further consideration or survey for archaeological resources is warranted. *DHR concurs with these recommendations.*

In accordance with Section II of the above-referenced *Guidelines* and to fully identify and address impacts to historic resources, we recommend the following:

1. Comprehensive cultural resources surveys in accordance with DHR guidelines by qualified professionals prior to construction of any SCC-approved alternative.
2. Evaluation of all identified resources for listing in the VLR/NRHP.
3. Assessment of potential direct and indirect impacts to all VLR/NRHP-eligible/listed resources, including previously inaccessible properties.
4. Avoidance, minimization, and/or mitigation of moderate to severe impacts to VLR/NRHP-eligible/listed resources by Dominion in consultation with DHR and other stakeholders.

Thank you for your coordination. If you have any questions regarding these comments, please contact me at 804-482-8091 or via email, jennifer.bellville-marrion@dhr.virginia.gov.

Sincerely,



Jenny Bellville-Marrion, Project Review Archaeologist
Review and Compliance Division

Western Region Office
962 Kime Lane
Salem, VA 24153
Tel: (540) 387-5443
Fax: (540) 387-5446

Northern Region Office
5357 Main Street
PO Box 519
Stephens City, VA 22655
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Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Travis A. Voyles
Acting Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director
(804) 698-4020

MEMORANDUM

TO: Stacey Ellis, Dominion Energy, Stacey.T.Ellis@DominionEnergy.com

CC: DEQ Office of Environmental Impact Review, eir@deq.virginia.gov

FROM: Jake Kline, DEQ Environmental Specialist II

DATE: July 20, 2022

SUBJECT: Dominion Energy: Scoping for Comments on Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project, City of Virginia Beach, Virginia

We have reviewed the notice of scoping request and submitted information for the proposed project and offer the following comments regarding consistency with the provisions of the *Chesapeake Bay Preservation Area Designation and Management Regulations* (Regulations):

In the City of Virginia Beach, the areas protected by the *Chesapeake Bay Preservation Act*, as locally implemented, require conformance with performance criteria. These areas include Resource Protection Areas (RPAs) and Resource Management Areas (RMAs), as designated by the local government. RPAs include tidal wetlands, certain non-tidal wetlands, tidal shores, and a 100-foot vegetated buffer area located adjacent to and landward of these features and along both sides of any water body with perennial flow. The Regulations define 'tidal shores' as land contiguous to a tidal body of water between the mean low water (MLW) level and the mean high water (MHW) level. RMAs require less stringent performance criteria than RPAs. In the City of Virginia Beach, the RMA includes all remaining land in the Chesapeake Bay watershed not designated as RPA. These land areas are collectively known as Chesapeake Bay Preservation Areas (CBPA).

The documentation provided indicated that Dominion Energy Virginia (the "Company") is proposing to rebuild Greenwich-Thalia Line #2019 and Lynnhaven-Thalia Line #2007 located within existing right-of-way or on Company-owned property along an approximately 4.54-mile transmission corridor in the City of Virginia Beach (the "Rebuild Project"). The proposed project

will replace aging infrastructure that is at the end of its service life. As part of the Rebuild Project, the Company is proposing to rebuild an approximately 1.17-mile segment of 230 kV Greenwich-Thalia Line #2019 from Structure #2019/20 to the Company's existing Thalia substation and rebuild the entire approximately 3.37-mile 230 kV Lynnhaven-Thalia Line #2007 between the Company's existing Lynnhaven and Thalia Substations. The Rebuild Project will include replacement of structures, as well as conductors and shield wire, within the existing right-of-way. Additionally, the Rebuild Project will require work at the Company's existing Greenwich, Thalia, and Lynnhaven Substations.

This project lies within the locally designated CBPA, spanning through both the RPA and RMA. Per § 9VAC 25-830-150(B) of the Regulations, the construction, installation, operation, and maintenance of electric, natural gas, fiber-optic, and telephone transmission lines, railroads, and public roads and their appurtenant structures are conditionally exempt from the Regulations. Activities within the CBPA must occur in accordance with regulations promulgated pursuant to the Erosion and Sediment Control Law and the Virginia Stormwater Management Act; an erosion and sediment control plan and a stormwater management plan approved by the Virginia Department of Environmental Quality; or local water quality protection criteria at least as stringent as the above state requirements.

Provided adherence to the above requirements, the proposed activity would be consistent with the *Chesapeake Bay Preservation Act* and Regulations.

Grace Flick

To: Stacey.T.Ellis@dominionenergy.com
Subject: RE: NEW SCOPING Dominion Energy Virginia Lines 2019 and 2007 Rebuild Project

#

From: ImpactReview <impactreview@vof.org>
Sent: Wednesday, July 6, 2022 10:20 AM
To: Fulcher, Valerie <valerie.fulcher@deq.virginia.gov>; Stacey T Ellis (Services - 6) <stacey.t.ellis@dominionenergy.com>
Cc: eir@deq.virginia.gov; Charles H Weil (Services - 6) <Charles.H.Weil@dominionenergy.com>
Subject: [EXTERNAL] RE: NEW SCOPING Dominion Energy Virginia Lines 2019 and 2007 Rebuild Project

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Ms. Ellis,

The Virginia Outdoors Foundation appreciates the early notice provided for this project by Dominion. VOF has reviewed the project referenced above. As of July 6, 2022, there are not any existing nor proposed VOF open-space easements in the immediate vicinity of the project.

Please contact VOF again for further review if the project area changes or if this project does not begin within 24 months. Thank you for considering conservation easements.

Thanks,
Mike

Mike Hallock-Solomon, AICP
Virginia Outdoors Foundation

From: Fulcher, Valerie <valerie.fulcher@deq.virginia.gov>
Sent: Friday, July 1, 2022 10:32 AM
Cc: Stacey.T.Ellis@dominionenergy.com
Subject: NEW SCOPING Dominion Energy Virginia Lines 2019 and 2007 Rebuild Project

Alert: This email originated from outside VOF

Good morning—attached is a request for scoping comments on the following:

Dominion Energy Virginia's Proposed Line #2019 and Line #2007 Rebuild Project, City of Virginia Beach, Virginia

If you choose to make comments, please send them directly to the project sponsor (Stacey.T.Ellis@DominionEnergy.com) and copy the DEQ Office of Environmental Impact

Review: eir@deq.virginia.gov. We will coordinate a review when the environmental document is completed.

DEQ-OEIR's scoping response is also attached.

If you have any questions regarding this request, please email our office at eir@deq.virginia.gov.

Valerie

--

Valerie A. Fulcher, CAP, OM, Admin/Data Coordinator Senior

Department of Environmental Quality

Environmental Enhancement - Office of Environmental Impact Review

1111 East Main Street

Richmond, VA 23219

NEW PHONE NUMBER: 804-659-1550

Email: Valerie.Fulcher@deq.virginia.gov

<https://www.deq.virginia.gov/permits-regulations/environmental-impact-review>

OUR ENFORCEABLE POLICIES HAVE BEEN UPDATED FOR 2021: <https://www.deq.virginia.gov/permits-regulations/environmental-impact-review/federal-consistency>

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Rob Farrell
State Forester



COMMONWEALTH of VIRGINIA

Department of Forestry

900 Natural Resources Drive, Suite 800 • Charlottesville, Virginia 22903
(434) 977-6555 • Fax: (434) 296-2369 • www.dof.virginia.gov

July 21, 2022

Mr. Jason P. Ericson
Director, Environmental Services
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, VA 23219

SUBJECT: Dominion Energy Line #2019 and Line #2007 Rebuild Project; City of Virginia Beach, Virginia

Dear Mr. Ericson:

Thank you for the opportunity to provide comments for the Environmental Impact Review of the project to rebuild Lines #2019 and #2007 in Virginia Beach was described in your letter to the Department of Environmental Quality from June 29, 2022.

The Virginia Department of Forestry has no comments to provide on the proposed project.

Sincerely,

A handwritten signature in blue ink that reads "Karl Didier".

Karl Didier
Forestland Conservation Program Manager

KD/kd

cc:

Enclosure(s) (0)

From: [Scott Denny](#)
To: [Charles H Weil \(Services - 6\)](#)
Subject: [EXTERNAL] Re: Dominion Energy Virginia Proposed line 2019 and Line 2007 Rebuild Project - Virginia Beach, VA
Date: Thursday, June 30, 2022 11:14:37 AM
Attachments: [image001.png](#)

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Mr. Weil:

The Virginia Department of Aviation has reviewed the Dominion Energy Proposed 2019 and 2007 Line Rebuild in Virginia Beach. It appears as though the project will occur within 20,000 linear feet from the Oceana Naval Air Station. Therefore, a 7460 must be submitted to the FAA for evaluation to see if the proposed work will constitute a hazard to air navigation.

Please let me know if you have any questions regarding this matter.

Sincerely,

S. Scott Denny
Senior Aviation Planner
Virginia Department of Aviation

On Thu, Jun 30, 2022 at 9:16 AM Charles.H.Weil@dominionenergy.com
<Charles.H.Weil@dominionenergy.com> wrote:

Good morning Mr. Denny,

Please see the attached project notification and project location map. If you have any questions, please feel free to contact me.

Thank you!

Chuck Weil, PE

Engineer II

Siting & Permitting, Electric Transmission

10900 Nuckols Rd, 4th Floor, Glen Allen, VA 23060



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--

S. Scott Denny
Senior Aviation Planner
Virginia Department of Aviation
804-236-3638
scott.denny@doav.virginia.gov

From: Warren, Arlene <arlene.warren@vdh.virginia.gov>
Sent: Tuesday, June 22, 2021 7:53 AM
To: Rachel.M.Studebaker@dominionenergy.com
Subject: [EXTERNAL] Re: FW: SCC Case No. PUR-2021-00010/DEQ21-013S

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The proposal from Dominion is reasonable and we consider it acceptable.

Best Regards,

Arlene Fields Warren

GIS Program Support Technician

Office of Drinking Water

Virginia Department of Health

109 Governor Street

Richmond, VA 23219

(804) 864-7781

On Thu, Jun 17, 2021 at 4:33 PM Rachel.M.Studebaker@dominionenergy.com
<Rachel.M.Studebaker@dominionenergy.com> wrote:

Hello Ms. Warren,

I am reaching out in regard to the DEQ Report for SCC Case No. PUR-2021-00010/DEQ21-013S (230 kV lines #2113 and #2154 Transmission Line Rebuilds and Related Projects). As part of the VDH ODW review, it was recommended that all wells within a 1,000-foot radius of the project site be field marked and protected from accidental damage. It is our custom construction process to not conduct any work outside of the existing right-of-way (ROW), with the exception of entry using existing access roads, and use DEQ approved erosion and sediment controls. These well are located outside of the project area ROW on private land and Dominion Energy does not have permission to enter private property to field mark the wells.

Therefore, we are proposing to plot and call out the wells on the Erosion and Sediment control plans as a way of flagging them for the construction team for protection from accidental damage. Is this a sufficient approach to comply with the ODW recommendation?

Thank you,

Rachel Studebaker

Environmental Specialist II

Dominion Energy Services

120 Tredegar Street, Richmond, VA 23219

Office: (804) 273-4086

Cell: (804) 217-1847

#



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