

TO: FHWA  
FROM: John Muse  
DATE: 10/20/21

## CATEGORICAL EXCLUSION (CE)

**Date CE level document approved by VA FHWA Division:**

**FHWA Contact:** Eric Rothermel

**Project Name:** #SMART20 Intersection Improvements at Old Bridge and Occoquan Road

**Route:** VA 641 (Old Bridge Road)

**Route Type:** Minor Arterial

**Project Type:** Construction

**State Project Number:** 0641-076-301, C501, P101, R201

**Federal Project Number:** STP-5B01(129)

**UPC:** 115553

**From:** 0.085 miles east of Route 253

**To:** 0.104 miles west of Route 253

**County/City:** Prince William County

**District / Residency:** Northern Virginia/Prince William

**Project in STIP:** Yes  No  - FY 2021-2024 STIP Grouping for Safety/ITS/Operational Improvements

**Project in Long Range Plan:** Yes  No  N/A Project Outside of MPO Area

**Next Phase of Funding Available:** Yes  No

**Project Description:** The intersection improvements at Old Bridge and Occoquan Road will enhance the safety of traffic and pedestrian movements by realigning the reverse curves along Old Bridge Road approaching and through the intersection. Other improvements consist of constructing an additional right-turn lane along the southbound approach on Occoquan Road and adding a pedestrian crosswalk on the east leg of the intersection. The project will also require signal replacement, roadway reconstruction and tie-ins, as well as relocating/reconstructing pedestrian facilities to match existing configurations along all sides of the intersection.

**CE Category 23 CFR 771.117:** (d) 13

**Description of CE Category:** Actions described in paragraphs (c) (26), (c)(27), and (c)(28) of this section that do not meet the constraints in paragraph (e) of this section. The project involves the acquisition of more than a minor amount of right-of-way or that would result in any residential or non-residential displacements.

**USGS Map Attached** Yes

**Logical Termini and Independent Utility:**

Yes  N/A  (For Non-highway construction only, explain in comments below)

**Purpose and Need Statement:**

The purpose and need of the intersection improvements at Old Bridge and Occoquan Road is to improve safety of traffic and pedestrian movements, improve sight distances and reduce traffic congestion.

**Comments:** The intersection improvements at Old Bridge and Occoquan Road are justifiable and are a reasonable expenditure of funds even if no additional transportation improvements are made. Therefore, the project has independent utility. The project termini are rational end points for environmental review and are logical.

**Typical Section:**

The new typical sections for Occoquan and Old Bridge Road are as follows:

**Old Bridge Road**

- Includes a 5-foot sidewalk along Eastbound (EB) and Westbound (WB) lanes
- West of the intersection with Occoquan Road, the EB direction includes three (3) through lanes, a dedicated right-turn lane, and dedicated left-turn lane. After EB Old Bridge Road traverses the intersection, it becomes three (3) through lanes dropping the left and right-turn lanes.
- East of the intersection with Occoquan Road, the WB direction includes three (3) through lanes, a right-turn lane, and dedicated left-turn lane. After WB Old Bridge Road traverses the intersection, it becomes three (3) through lanes dropping the left-turn lane.

**Occoquan Road**

- Includes a 5-foot sidewalk along Northbound (NB) and Southbound (SB) lanes
- South of the intersection with Old Bridge Road, the NB direction includes a through lane, a dedicated right-turn lane, and two (2) dedicated left-turn lanes. After NB Occoquan Road traverses the intersection, it becomes one (1) through lane and a yield lane for traffic coming from WB Old Bridge Road.
- North of the intersection with Old Bridge Road, the SB direction includes a through lane, a dedicated right-turn lane, and a left-turn lane. South of the Old Bridge Road intersection, the SB direction includes two (2) through lanes.

**Structures:** N/A

<b>SOCIO-ECONOMIC</b>	<b>PRESENT</b>		<b>IMPACTS</b>	
	<b>YES</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>
Minority/Low Income Populations: Present with no impact (EJ Analysis attached)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Disproportionate Impacts to Minority/Low Income Populations: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Existing or Planned Public Recreational Facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Source:</b> EJ Analysis (attached), Prince William County Planning Office, Prince William County Mapper, 2021				
Community Services – Holiness Tabernacle Church of God in Christ	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Source:</b> Prince William County Department of Transportation, Prince William County Project Manager				
Consistent with Local Land Use: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
<b>Source:</b> Prince William County Planning Office and Prince William County Mapper, 2021				
Existing or Planned Bicycle/Pedestrian Facilities: sidewalks impacted during construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Source:</b> Prince William County Mapper, 2021				

**Comments:**

**Minority/Poverty Level:**

There are three census tract block groups that composes the Environmental Justice (EJ) study area. The minority population for Census Tract 9003 Block Group 2 exceeds 50 percent. Although an EJ population is present, there are no disproportionately high and adverse effects to the EJ population.

The 2019 Health and Human Services Poverty guidelines state that a family of four is at poverty level if the median household income \$25,750 or less. According to the 2019 American Community Service data, approximately 3% of the population of Block Group 1, and 1% of Block Group 2, and 2% of Block Group 4 are below the poverty level. In comparison, 9.9% and 6.3% of the population is below the poverty level for the Commonwealth of Virginia and Prince William County, respectively.

Prince William County, in consultation with VDOT, is working with the Holiness Tabernacle Church of God in Christ regarding the early acquisition of the property. The Holiness Tabernacle Church of God in Christ is a not-for-profit church that has primarily a minority (black) congregation. The church has already purchased a property within two miles from its current location. The church will avoid any disruptions to services. The early acquisition process is being completed under the guidelines of the Uniform Relocation Assistance and Real Property Acquisition Policies Act (Uniform Act) and per the guidelines in Chapter 16 – Right of Way and Utilities of the Locally Administered Projects (LAP) Manual.

Therefore, in accordance with the provision of E.O. 12898 and FHWA Order 6640.23, no further EJ analysis is required.

**Community Services:**

See discussion under the above Minority/Poverty Level section regarding relocation of the Holiness Tabernacle Church of God in Christ church.

Prince William County Department of Transportation Services has requested the opportunity to review the design plans as the project progresses. Coordination with Prince William County Fire and Rescue is ongoing.

**Land Use**

Land Use within the project area includes Office, Convenience Retail, and Public Land (Occoquan Elementary School).

**Existing or Planned Bicycle/Pedestrian Facilities**

The project will include relocating/reconstructing pedestrian facilities (sidewalks) to match existing configurations along all sides of the intersection; therefore, the project will have a beneficial impact to public pedestrian facilities. The project meets the goals, policies, and action strategies identified in the Prince William County Nonmotorized Transportation Plan adopted in 2016.

<b>SECTION 4(f) and SECTION 6(f)</b>	<b>YES</b>	<b>NO</b>
Use of 4(f) Property:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Acres of use:		
Name of Resource:		
<b>Type of Resource:</b>		
Individually Eligible Historic Property:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Contributing Element to Historic District	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Public Recreation Area:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Public Park:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Public Wildlife/Waterfowl Refuge:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Planned Public Park, Recreation Area, Wildlife or Waterfowl Refuge:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Source:</b> Prince William County Mapper, 2021 and Field visit (2021)		
De Minimis:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Type of Use:</b>		
Permanent:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Temporary:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
*Constructive:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
*Temporary Non 4(f) Use	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Section 4(f) Evaluation Attached:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Conversion of 6(f) Property:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Acres of Conversion:		
<b>Source:</b> Prince William County Mapper, 2021 and Land and Water Conservation Fund (LWCF) data via wilderness.org (2021)		
<b>Comments:</b>		
<p><b>Section 4(f):</b> There are no Section 4(f) resources within the project area.</p> <p><b>Section 6(f):</b> Based on a review of the Land and Water Conservation Fund (LWCF) data, there are no Section 6(f) properties within the project area.</p>		

\*Note that a Constructive Use and a Temporary Non 4(f) Use do not apply with a De Minimis finding.

CULTURAL RESOURCES	COMPLETE	N/A
<b>Source:</b> Virginia Department of Historic Resources (DHR) National Register of Historic Places (NRHP); JMT field assessment (2021)		
"No historic properties present or affected in accordance with the 2016 Federal PA"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Phase I Architecture Conducted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Phase II Architecture Conducted	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Phase I Archaeology Conducted	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Phase II Archaeology Conducted	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Section 106 Effect Determination: No Effect		
DHR Concurrence on Effect: Yes <input checked="" type="checkbox"/>	Date: July 7, 2021	
MOA Attached: Yes <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Execution Date: / /	
Name of Historic Property: N/A		
<b>Comments:</b> No properties in the project area were found to be eligible for historic property nomination through JMT fieldwork, inspection, and coordination with the Virginia DHR (see attached DHR letter).		

NATURAL RESOURCES	PRESENT		IMPACTS	
	YES	NO	YES	NO
Surface Water (Name: N/A)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Source:</b> Waters of the US (including Wetlands) Delineation Memo (JMT, 2020) (attached)				
<b>Federal Threatened or Endangered Species:</b>				
Terrestrial: Northern long-eared bat	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aquatic: N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Plants: N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Source:</b> USFWS, VDCR, VDGIF, Self Certification Package (JMT, 2020), Endangered Species Act (ESA) Section 7 Determination Table (JMT, 2021) (attached)				
100 Year Floodplain:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If "Yes" then identify the regulatory floodway zone:				
<b>Source:</b> Flood Insurance Rate Map. Prince William County, Virginia. Map # 51153C0217D (FEMA, 1995)				
Tidal Waters/Wetlands: N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wetlands: N/A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Source:</b> Waters of the US (including Wetlands) Delineation Memo (JMT, 2020) (attached)				
	<b>Yes</b>		<b>No</b>	
Permits Required	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
<b>Source:</b> Waters of the US (including Wetlands) Delineation Memo (JMT, 2021) and project plans (attached)				

**Comments:**

**Threatened and Endangered Species:** The project will require approximately 200 square feet of tree clearing to a forested area northwest of the intersection. A review of the project’s potential impact on federally listed threatened and endangered species was conducted through the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) project portal. The USFWS IPaC Official Species List, dated 07-06-2021, found one species on the Endangered/Threatened Species list located near the project area region: the Northern Long-eared Bat (*Myotis septentrionalis*).

The Northern Long-eared Bat preservation effort is covered under the 4(d) rule of the Endangered Species Act (ESA), which states that the ESA must only issue regulations that are deemed “necessary and advisable to provide for the conservation of threatened species.” It was determined based on the project area that there are no maternal colonies within 100 miles of all areas of the project, according to the Virginia Department of Wildlife Resources (VDWR) Northern Long-eared Bat Winter Habitat and Roost Trees Map. This map indicated that the project area consists of small, highly fragmented forests with minimal subcanopy, which are generally not considered suitable for roosting, however recent data indicates that the Northern Long-eared Bat may nest in these types of forests.

**Floodplain:** The project area is not shown as being located within the floodplain or floodway based on a review of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Number 51153C0217D, dated 1-5-1995.

**Wetlands:** According to the Waters of the US (WOUS) Delineation Memo prepared by JMT in May 2021, no WOUS and wetlands were located within the project area. Because there are no jurisdictional WOUS, including wetlands, in the project area, it is anticipated that permits from the U.S. Army Corps of Engineers, Virginia Department of Environmental Quality, or the Virginia Marine Resources Commission will not be required.

AGRICULTURAL/OPEN SPACE	PRESENT		IMPACTS	
	YES	NO	YES	NO
Open Space Easements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Source: Virginia Outdoors Foundation, 2020</i>				
Agricultural/Forestal Districts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Source: Prince William Planning Office Prince William County Mapper, 2021</i>				
<b>Comments:</b> There are no Agricultural/Forestal Districts in or around the project area according to the Prince William County Planning Office. There are no easements located in or around the project area according to the Virginia Outdoors Foundation Conservation GIS tool.				

FARMLAND	YES	NO
NRCS Form CPA-106 Attached: Rating:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alternatives Analysis Required:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>If Form CPA-106 is not attached check all that are applicable:</b>		
Land already in Urban use:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Entire project in area <i>not</i> zoned agriculture:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
NRCS responded within 45 days:	<input type="checkbox"/>	<input type="checkbox"/>
NRCS Determined no prime or unique farmland in the project area.	<input type="checkbox"/>	<input type="checkbox"/>
<b>Source:</b> Prince William County Mapper, 2021; USDA NRCS Soil Survey for Prince William County (Web Soil Survey) Custom Soil Resource Report		
Comments: Land Use within the project area includes Office, Convenience Retail, and Public Land (Occoquan Elementary School). Soils classified as Farmland of Statewide Importance are present, but not in use as farmland (project area is urban setting, no active farmland present).		

INVASIVE SPECIES	PRESENT		
	YES	NO	UNKNOWN
Invasive Species in the project area:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b> There is potential for invasive species to become established along the limits of disturbance of the project during and following construction. Section 244.02(c) of VDOT's Road and Bridge Specifications (2016) includes provisions intended to control noxious weeds (which includes non-native and invasive species).  While rights-of-ways are at risk from invasive species colonization from adjacent properties, implementing the above provisions would reduce or minimize potential for introduction, proliferation, and spread of invasive species. Additionally, the implementation of Best Management Practices (BMPs) for erosion/sediment control and abatement of pollutant loading would minimize indirect impacts to adjoining communities and habitat by reducing excess nutrient loads that could encourage invasive species proliferation.			

AIR QUALITY		
Carbon Monoxide (CO)	Yes	No
This project is located in a CO <input checked="" type="checkbox"/> Attainment Area <input type="checkbox"/> Maintenance Area		
CO Hotspot Analysis Required? (if "Yes", please attach analysis)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If "No", indicate which exemption it falls under:		
<input checked="" type="checkbox"/> Exempt project under 40 CFR 93.126.		
<input type="checkbox"/> Exempt project based on traffic volumes below thresholds in the current VDOT Project Level Air Quality Studies Agreement with FHWA/EPA.		
Ozone		
This project is located in an Ozone	<input type="checkbox"/> Attainment Area	<input type="checkbox"/> Maintenance Area
	<input checked="" type="checkbox"/> Nonattainment Area	<input type="checkbox"/> Early Action Compact Area
Only projects located in ozone nonattainment or maintenance areas must complete this box		
<input checked="" type="checkbox"/> Exempt from regional emissions requirements under 40 CFR 93.126 or 40 CFR 93.127.		
<input type="checkbox"/> Properly programmed in the CLRP and FY - TIP.		
<input type="checkbox"/> The project is not regionally significant and/or is not of a type that would normally be included in the regional transportation model.		
<input type="checkbox"/> This project is regionally significant; however the project was not modeled, or the scope of the project is not consistent with what was modeled in the currently conforming CLRP and TIP.		

<b>Fine Particulate Matter (PM<sub>2.5</sub>)</b>	<b>Yes</b>	<b>No</b>
This project is located in a PM <sub>2.5</sub> <input type="checkbox"/> Nonattainment Area <input type="checkbox"/> Maintenance Area <input checked="" type="checkbox"/> Attainment Area (if checked, do not fill out box below)		
PM <sub>2.5</sub> Hotspot Analysis Required? (If "Yes", Please Attach Analysis)	<input type="checkbox"/>	<input type="checkbox"/>
Check all that apply; <input type="checkbox"/> A. Exempt project under 40 CFR 93.126, Table 2. <input type="checkbox"/> B. Not a project of air quality concern under 40 CFR 93.123(b)(1)(i) thru (v). <input type="checkbox"/> C. Properly programmed in the CLRP and FY - TIP. <input type="checkbox"/> D. This project is regionally significant; however the project was not modeled, or its scope is not consistent with what was modeled, in the currently conforming CLRP and TIP.		
If "B" is checked above, please indicate the following for highway projects; Design Year _____, Peak AADT _____, Peak Diesel Truck % _____		
<b>Mobile Source Air Toxics (MSAT)</b>		
This project <input checked="" type="checkbox"/> is exempt with no meaningful potential MSAT effects <input type="checkbox"/> is one with low potential MSAT effects (attach qualitative MSAT analysis) <input type="checkbox"/> is one with high potential MSAT effects (attach quantitative MSAT analysis)		
Check all that apply; <input checked="" type="checkbox"/> Exempt project under 40 CFR 93.126, or qualifies as a CE under 23 CFR 771.117(c). <input type="checkbox"/> Project with no meaningful impact on traffic volumes or vehicle mix.		
If a qualitative MSAT analysis is required, please indicate the following for highway projects; Design Year: _____ Peak AADT: _____		
<b>Source:</b> 2021 Air Quality Technical Report – Old Bridge Road and Occoquan Road (appendix)		
<b>Comments:</b>		

<b>NOISE</b>	<b>YES</b>	<b>NO</b>
Type I Project:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Source:</b> VDOT Highway Traffic Noise Impact Analysis (Version 8 - 2018)		
Noise Analysis Attached:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Barriers Under Consideration:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Source:</b>		
<b>Comments:</b> The project is substantially altering the horizontal alignment towards a noise sensitive site. However, the affected site is a take. Therefore, the project is Type III, a noise study is not required.		

<b>RIGHT OF WAY AND RELOCATIONS</b>	<b>YES</b>	<b>NO</b>
Residential Relocations: If "Yes", number: _____	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Source:</b> Project Design Plans, coordination with the Prince William County Project Manager, GIS and Site Visits (2021)		
Commercial Relocations: If "Yes", number: 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Source:</b> Project Design Plans, coordination with Prince William County Project Manager, GIS and Site Visits (2021).		



Non-profit Relocations: If "Yes", number:	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
<b>Source:</b> <i>Project Design Plans, coordination with Prince William County Project Manager, GIS and Site Visits (2021).</i>				
Right of Way required: If "Yes", acreage amount: 1.4 acres	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>Source:</b> <i>Project Design Plans (2021)</i>				
	<b>PRESENT</b>		<b>IMPACTS</b>	
	<b>YES</b>	<b>NO</b>	<b>YES</b>	<b>NO</b>
Septic Systems, Wells, or Public Water Supplies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Source:</b> <i>Prince William County Mapper, 2021, GIS, Virginia Department of Health, Field visits</i>				
Hazardous Materials:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Source:</b> <i>Phase I Environmental Site/Hazardous Materials Assessment (2021)</i>				
<b>Comments:</b>				
<p><b>Relocations:</b> Parcels 8393-70-0962 and 8393-70-1674 are total takes of commercial properties. They will both be acquired through early acquisition.</p> <p>Parcel 8393-70-0962 – Abandoned market (1420 Old Bridge Road, Woodbridge, VA 22192)</p> <p>Parcel 8393-70-1674 – Holiness Tabernacle Church of God in Christ (1440 Old Bridge Road, Woodbridge, VA 22192).</p> <p><b>Right of Way:</b> 1.4 acres</p> <p><b>Hazardous Materials:</b> Two Historical Recognized Environmental Conditions (RECs) were identified in the Phase I Environmental Site Assessment/Hazardous Materials Assessment conducted by JMT in July 2021. Both Historical RECs are related to past petroleum release(s) from 8393-60-7239 (the existing BP station located at 1435 Old Bridge Road) and were investigated and ultimately closed to further investigation by the VDEQ. While no further investigation is required, the potential exists for encountering petroleum contaminated soils and/or groundwater during construction. Accordingly, specifications for identifying, handling, and disposing of petroleum contaminated materials should be incorporated into project bid documents, including requiring preparation of health and safety plans and materials handling protocols.</p>				

<b>CUMULATIVE AND INDIRECT IMPACTS</b>	<b>PRESENT</b>		
	<b>YES</b>	<b>NO</b>	<b>N/A</b>
Present or reasonably foreseeable future projects (highway and non-highway) in the area:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Impact same resources as the proposed highway project (i.e. cumulative impacts):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Indirect (Secondary) impacts:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Source:</b> <i>Project Design Plan (2021)</i>			

**Comments:** Per EM-NEPA-715, the indirect and cumulative effects of the proposed action have been considered as part of this document. The impact causing activities proposed as part of the project could result in limited indirect effects to the surrounding area. These impacts could be minimized and mitigated through appropriate erosion and sediment controls, stormwater management, and adhering to permit conditions. Indirect impacts to socioeconomic resources would be mitigated and minimized through actions taken by the locality, individual property owners, and the surrounding business community. The proposed project would contribute negligible increments the cumulative effects of past, present, and reasonably foreseeable future projects.

<b>PUBLIC INVOLVEMENT</b>	<b>YES</b>	<b>NO</b>
Substantial Controversy on Environmental Grounds:	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Source:</b> Prince William County		
Public Hearing: If "Yes", type of hearing: Location/Design	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other Public Involvement Activities: If "Yes", type of Involvement: Public Information Meeting 03/24/2021	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Source:</b> JMT Public Interest Meeting (2021)		
<b>Comments:</b> A Location/Design public hearing will be held in Fall 2021. The virtual Public Information Meeting (PIM) on March 24, 2021 will be the only PIM for this project. Public Notice of availability of the CE for review was published on 09/30/21, and no comments were received during the 15-day period for public review.		

**COORDINATION**

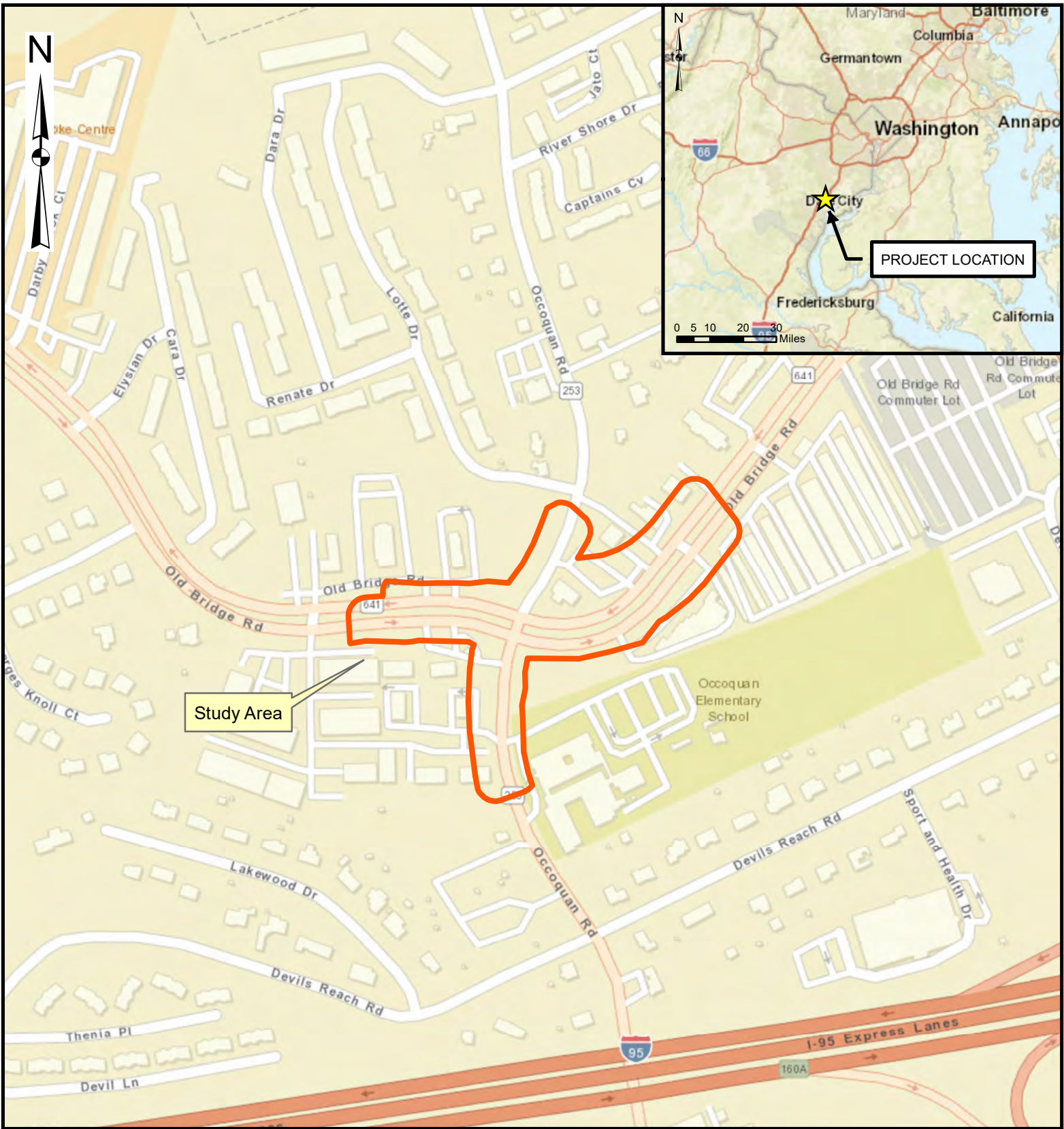
The following agencies were contacted during development of this study:

- Prince William County Department of Fire and Rescue
- Prince William County Department of Parks, Recreation and Tourism
- Prince William County Department of Planning and Zoning
- Prince William County Department of Public Works
- Prince William County Department of Transportation Services.
- Virginia Department of Conservation and Recreation – Division of Natural Heritage
- Virginia Department of Environmental Quality – Air Quality Data Analysis Program
- Virginia Department of Environmental Quality – Division of Land Protection and Revitalization – Office of Waste Programs
- Virginia Department of Environmental Quality – Office of Wetlands and Water Protection
- Virginia Department of Game and Inland Fisheries
- Virginia Department of Historic Resources
- Virginia Division of Geology and Mineral Resources
- Virginia Department of Health – Office of Drinking Water
- Virginia Department of Agriculture and Consumer Services – Northern Regional Office
- Virginia Marine Resources Commission – Habitat Management Division
- US Fish and Wildlife Service

*John C. Muse*  
 \_\_\_\_\_  
 VDOT District Environmental Manager

October 20, 2021  
 \_\_\_\_\_  
 Date

**This project meets the criteria for a Categorical Exclusion pursuant to 40 CFR 1508.4 and 23 CFR 771.117 and will not result in significant impacts to the human or natural environment.**



0 175 350 700 Feet

1" = 350'  
SOURCE: ESRI

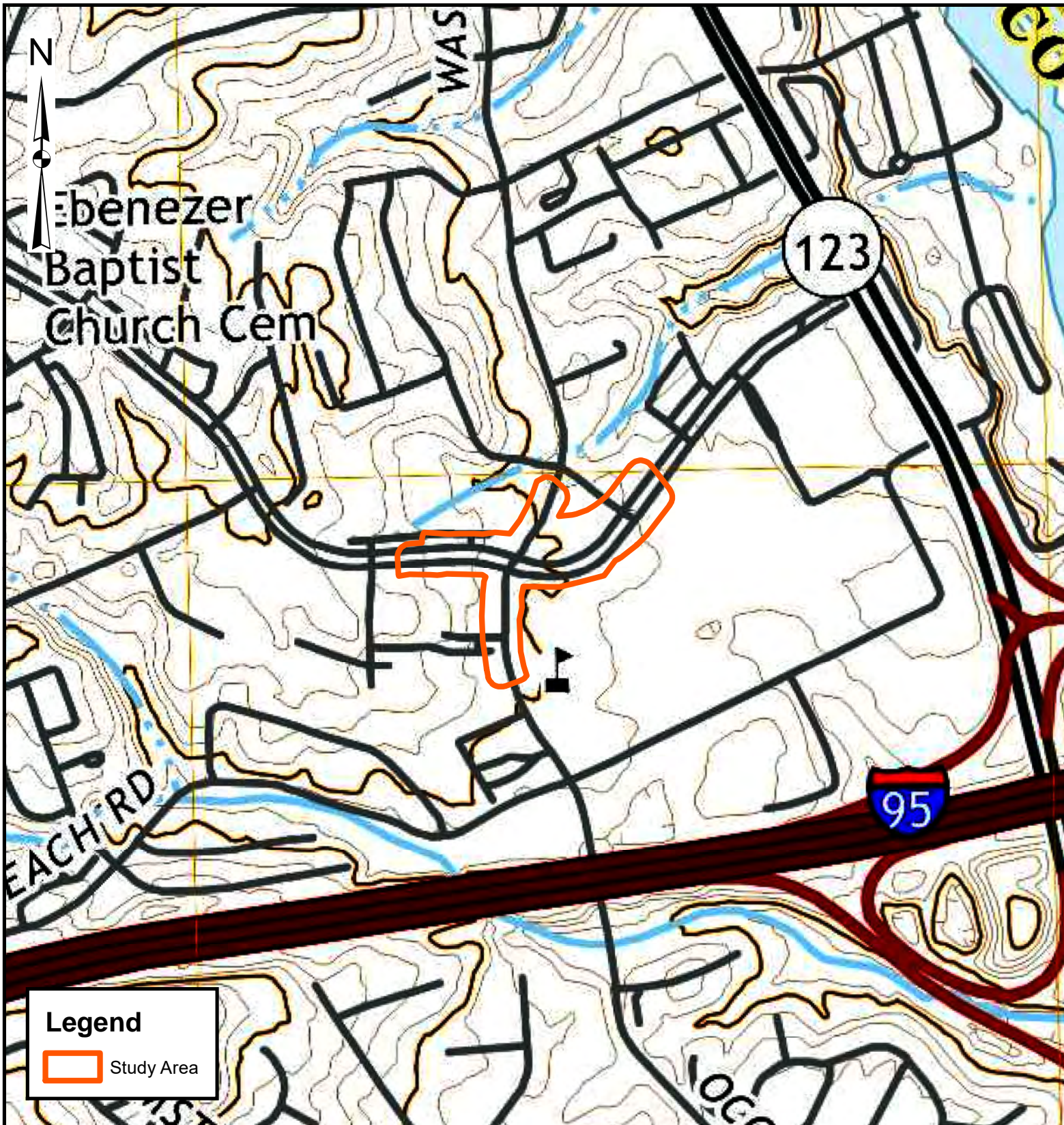
## FIGURE 1: GENERAL LOCATION MAP

OCCOQUAN ROAD AND OLD BRIDGE ROAD  
INTERSECTION IMPROVEMENT PROJECT


PRINCE WILLIAM COUNTY, VA

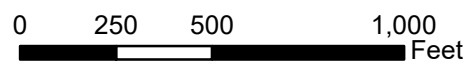
DATE: August 2021





**Legend**

 Study Area



1" = 500'

SOURCE: USGS OCCOQUAN TOPOGRAPHIC 7.5' QUADRANGLE (2019)

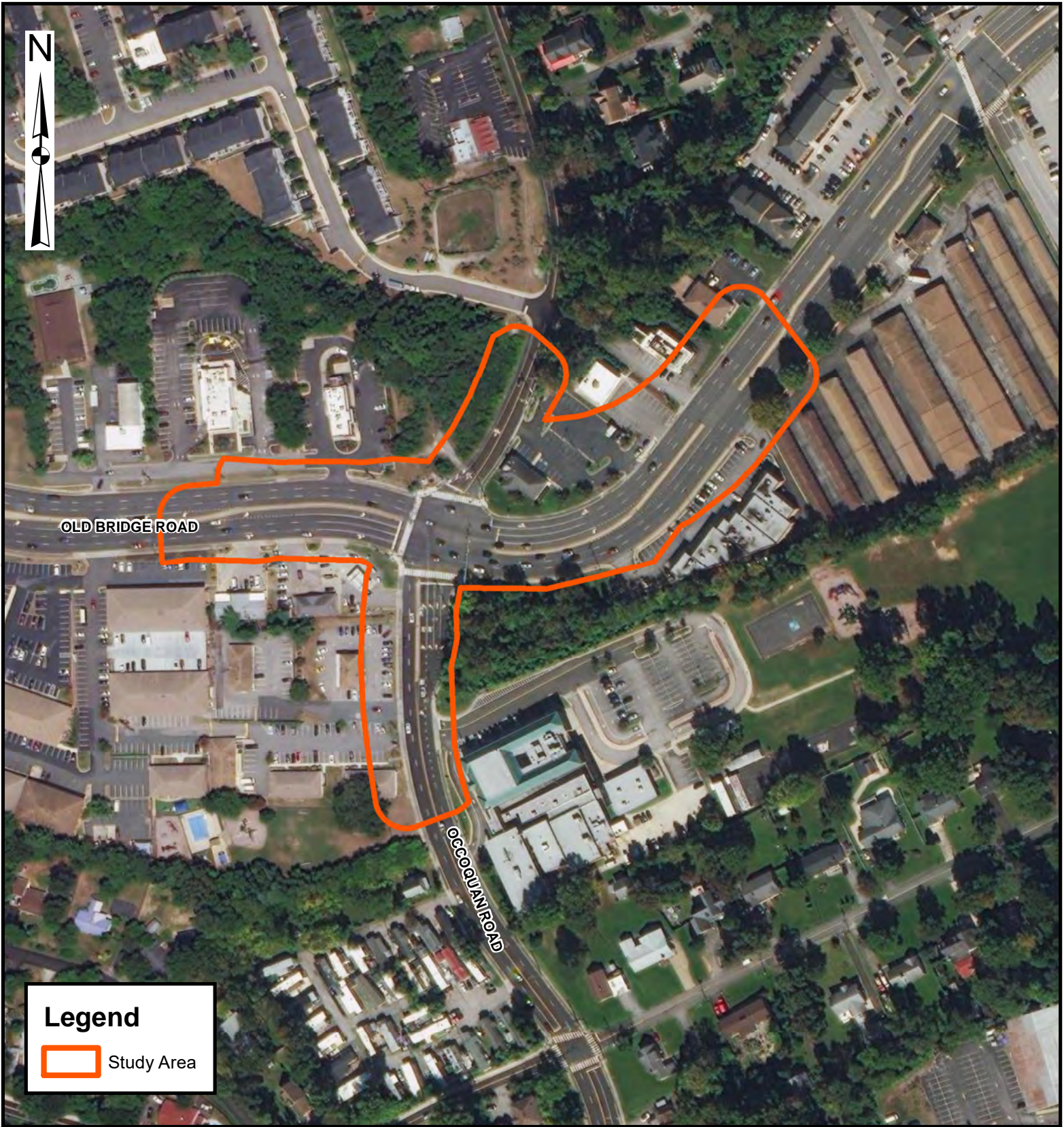
**FIGURE 2: USGS TOPOGRAPHIC QUADRANGLE MAP**

OCCOQUAN ROAD AND OLD BRIDGE ROAD INTERSECTION IMPROVEMENT PROJECT


PRINCE WILLIAM COUNTY, VA

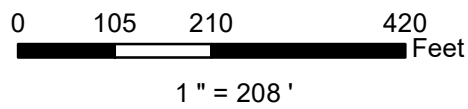


DATE: August 2021



**Legend**

 Study Area



### FIGURE 3: AERIAL IMAGERY

OCCOQUAN ROAD AND OLD BRIDGE ROAD  
INTERSECTION IMPROVEMENT PROJECT

PRINCE WILLIAM COUNTY, VA

DATE: August 2021



August 4, 2020

Mr. Kotur Narasimhan  
Virginia Department of Environmental Quality  
Air Quality Data Analysis Program  
1111 East Main St., Suite 1400  
Richmond, Virginia 23219 via email: [kotur.narasimhan@deq.virginia.gov](mailto:kotur.narasimhan@deq.virginia.gov)

RE: Old Bridge Road and Occoquan Road Intersection Improvement (UPC 115553)  
Prince William County, Virginia

Dear Mr. Narasimhan:

Prince William County, in coordination with the Virginia Department of Transportation (VDOT), has initiated the preparation of a Categorical Exclusion (CE) for the Old Bridge Road and Occoquan Road Intersection Improvement project (Project) in Woodbridge, Virginia. The Project will enhance the safety of traffic and pedestrian movements by realigning the reverse curves along Old Bridge Road approaching and through the intersection. Other improvements consist of constructing an additional right-turn lane along the southbound approach on Occoquan Road and adding a pedestrian crosswalk on the east leg of the intersection. The project will also require signal replacement, roadway reconstruction and tie-ins, as well as relocating/reconstructing pedestrian facilities to match existing configurations along all sides of the intersection. The CE is being prepared in accordance with the National Environmental Policy Act.

The proposed project site is depicted on the attached General Location Map (Figure 1), USGS Topographic Quadrangle Map (Figure 2), and Natural Color Aerial Imagery (Figure 3). We request your review of the proposed project and welcome any comments you may have. Our intent is to address your agency's concerns and incorporate any recommendations into the planning process at the earliest possible time.

If you have any questions or need further information, please do not hesitate to contact me at 804-655-4822 or [sswarr@jmt.com](mailto:sswarr@jmt.com).

Very truly yours,

JOHNSON, MIRMIRAN & THOMPSON, INC.



Steven Swarr, MBA, CEP  
Senior Associate

Enclosures

Cc: Hoainam Nguyen, P.E., PTOE, Prince William County  
Dat Ngo, PE, Johnson, Mirmiran & Thompson  
David Hieber, PE, Johnson, Mirmiran & Thompson  
Rodney Hayzlett, PE, Johnson, Mirmiran & Thompson

---

**From:** Holland, Benjamin <[benjamin.holland@deq.virginia.gov](mailto:benjamin.holland@deq.virginia.gov)>  
**Sent:** Tuesday, July 27, 2021 11:35 AM  
**To:** Swarr, Steven  
**Cc:** rr Environmental Impact Review  
**Subject:** [EXTERNAL] DEQ NRO response to Old Bridge/Occoquan Road scoping request

Northern Regional Office comments regarding the scoping request for *Old Bridge Road and Occoquan Road Intersection Improvement (UPC 115553) Prince William County, Virginia* are as follows:

**Land Protection Division** – The project manager is reminded that if any solid or hazardous waste is generated/encountered during construction, the project manager would follow applicable federal, state, and local regulations for their disposal.

**Air Compliance/Permitting** - The project manager is reminded that during the construction phases that occur with this project; the project is subject to the Fugitive Dust/Fugitive Emissions Rule 9 VAC 5-50-60 through 9 VAC 5-50-120. In addition, should any open burning or use of special incineration devices be employed in the disposal of land clearing debris during demolition and construction, the operation would be subject to the Open Burning Regulation 9 VAC 5-130-10 through 9 VAC 5-130-60 and 9 VAC 5-130-100.

**Virginia Water Protection Permit (VWPP) Program** – The project manager is reminded that a VWP permit from DEQ may be required should impacts to surface waters be necessary. Measures should be taken to avoid and minimize impacts to surface waters and wetlands during construction activities. The disturbance of surface waters or wetlands may require prior approval by DEQ and/or the U.S. Army Corps of Engineers. The Army Corps of Engineers is the authority for an official confirmation of whether there are federal jurisdictional waters, including wetlands, which may be impacted by the proposed project. DEQ may confirm additional waters as jurisdictional beyond those under federal authority. Review of National Wetland Inventory maps or topographic maps for locating wetlands or streams may not be sufficient; there may need to be a site-specific review of the site by a qualified professional. Even if there will be no intentional placement of fill material in jurisdictional waters, potential water quality impacts resulting from construction site surface runoff must be minimized. This can be achieved by using Best Management Practices (BMPs). If construction activities will occur in or along any streams (perennial, intermittent, or ephemeral), open water or wetlands, the applicant should contact DEQ-NRO VWPP staff to determine the need for any permits prior to commencing work that could impact surface waters or wetlands. Upon receipt of a Joint Permit Application for the proposed surface water impacts, DEQ VWP Permit staff will review the proposed project in accordance with the VWP permit program regulations and current VWP permit program guidance. VWPP staff reserve the right to provide comment upon receipt of a permit application requesting



authorization to impact state surface waters, and at such time that a wetland delineation has been conducted and associated jurisdiction determination made by the U.S. Army Corps of Engineers.

**Erosion and Sediment Control, Storm Water Management** – DEQ has regulatory authority for the Virginia Pollutant Discharge Elimination System (VPDES) programs related to municipal separate storm sewer systems (MS4s) and construction activities. Erosion and sediment control measures are addressed in local ordinances and State regulations. Additional information is available at <http://www.deq.virginia.gov/Programs/Water/StormwaterManagement.aspx>. Non-point source pollution resulting from this project should be minimized by using effective erosion and sediment control practices and structures. Consideration should also be given to using permeable paving for parking areas and walkways where appropriate, and denuded areas should be promptly revegetated following construction work. If the total land disturbance exceeds 10,000 square feet, an erosion and sediment control plan will be required. Some localities also require an E&S plan for disturbances less than 10,000 square feet. A stormwater management plan may also be required. For any land disturbing activities equal to one acre or more, you are required to apply for coverage under the VPDES General Permit for Discharges of Storm Water from Construction Activities. The Virginia Stormwater Management Permit Authority may be DEQ or the locality.

**Other VPDES Permitting** – A construction project may require coverage under the VAG83 permit for discharges from petroleum contaminated sites, groundwater remediation, and hydrostatic tests for any hydrostatics tests on any new piping installed, or for any potential dewatering during construction if petroleum contamination is encountered.

--

**BENJAMIN D. HOLLAND, MPH**  
DEQ Regional Enforcement Specialist, Senior

VA Department of Environmental Quality  
Northern Regional Office  
13901 Crown Court  
Woodbridge, VA 22193

Phone: (703) 583-3812  
Email: [benjamin.holland@deq.virginia.gov](mailto:benjamin.holland@deq.virginia.gov)  
Website: [www.deq.virginia.gov](http://www.deq.virginia.gov)

**From:** Kotur Narasimhan <kotur.narasimhan@deq.virginia.gov>  
**Sent:** Thursday, September 10, 2020 10:35 AM  
**To:** Swarr, Steven  
**Subject:** [EXTERNAL] RE: FW: UPC 115553 - Old Bridge Road Intersection Improvement - Request for Review

Mr. Swarr:

Reference to your inquiry connected with the above project, during execution, following Virginia Air regulations may be kept in view:

1. 9 VAC 5-40-5600 et seq. – Open Burning
2. 9 VAC 5-50-60 et seq. Fugitive Dust Emissions

**In addition all precautions are required to restrict emissions of VOC & NOX.**

Kotur Narasimhan

**From:** Ballou, Thomas <[thomas.ballou@deq.virginia.gov](mailto:thomas.ballou@deq.virginia.gov)>  
**Sent:** Friday, September 4, 2020 8:19 AM  
**To:** Narasimhan, Kotur <[kotur.narasimhan@deq.virginia.gov](mailto:kotur.narasimhan@deq.virginia.gov)>  
**Subject:** Re: FW: UPC 115553 - Old Bridge Road Intersection Improvement - Request for Review

Go ahead and follow up with this guy with the usual construction related requirements. Thanks.

**Thomas R. Ballou**  
Air Data Analysis & Planning Manager  
Air and Renewable Energy Division  
Virginia Department of Environmental Quality  
[thomas.ballou@deq.virginia.gov](mailto:thomas.ballou@deq.virginia.gov)  
804.698.4406  
[www.deq.virginia.gov](http://www.deq.virginia.gov)

On Thu, Sep 3, 2020 at 4:43 PM Ballou, Thomas <[thomas.ballou@deq.virginia.gov](mailto:thomas.ballou@deq.virginia.gov)> wrote:

Mr. Swarr - Based on the description of the project you have provided, this is clearly a transportation project. As such, it would fall under the requirements of the Clean Air Act transportation conformity process. You should coordinate the environmental review of this project with VDOT and it should be determined whether the project is regionally significant. If so, it must be included on the list of projects to be evaluated through the annual regional transportation conformity analysis to demonstrate that it conforms to regional air quality goals.

Thanks for letting us know about this project.

**Thomas R. Ballou**

Air Data Analysis & Planning Manager  
Air and Renewable Energy Division  
Virginia Department of Environmental Quality  
[thomas.ballou@deq.virginia.gov](mailto:thomas.ballou@deq.virginia.gov)  
804.698.4406  
[www.deq.virginia.gov](http://www.deq.virginia.gov)

---

**From:** Swarr, Steven <[SSwarr@jmt.com](mailto:SSwarr@jmt.com)>

**Sent:** Tuesday, August 25, 2020 3:35 PM

**To:** [kotur.narasimhan@deq.virginia.gov](mailto:kotur.narasimhan@deq.virginia.gov)

**Subject:** UPC 115553 - Old Bridge Road Intersection Improvement - Request for Review

Prince William County, in coordination with the Virginia Department of Transportation (VDOT), has initiated the preparation of a Categorical Exclusion (CE) for the Old Bridge Road and Occoquan Road Intersection Improvement project (Project) in Woodbridge, Virginia. The Project will enhance the safety of traffic and pedestrian movements by realigning the reverse curves along Old Bridge Road approaching and through the intersection. Other improvements consist of constructing an additional right-turn lane along the southbound approach on Occoquan Road and adding a pedestrian crosswalk on the east leg of the intersection. The project will also require signal replacement, roadway reconstruction and tie-ins, as well as relocating/reconstructing pedestrian facilities to match existing configurations along all sides of the intersection.

Attached is the scoping letter requesting your agency's review and comment.

Thanks,  
Steve Swarr

**Johnson, Mirmiran & Thompson, Inc.**

An Employee Owned Company

Matthew J. Strickler  
*Secretary of Natural Resources*

Clyde E. Cristman  
*Director*



Rochelle Altholz  
*Deputy Director of  
Administration and Finance*

Russell W. Baxter  
*Deputy Director of  
Dam Safety & Floodplain  
Management and Soil & Water  
Conservation*

Nathan Burrell  
*Deputy Director of  
Government and Community Relations*

Thomas L. Smith  
*Deputy Director of  
Operations*

**COMMONWEALTH of VIRGINIA**  
DEPARTMENT OF CONSERVATION AND RECREATION

September 25, 2020

Steve Swarr  
JMT  
9201 Arboretum Parkway, Suite 310  
Richmond, VA 23236

Re: 115553, Old Bridge Road and Occoquan Road Intersection Improvement

Dear Mr. Swarr:

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, 24<sup>th</sup> 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.

600 East Main Street, 24<sup>th</sup> 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*

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 documented in this letter. Their database may be accessed from <https://vafwis.dgif.virginia.gov/fwis/> or contact Ernie Aschenbach at 804-367-2733 or [Ernie.Aschenbach@dwr.virginia.gov](mailto:Ernie.Aschenbach@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

**From:** Mark Eversole <mark.eversole@mrc.virginia.gov>  
**Sent:** Friday, August 28, 2020 9:56 AM  
**To:** Swarr, Steven  
**Subject:** [EXTERNAL] FW: UPC 115553 - Old Bridge Road Intersection Improvement - Request for Review  
**Attachments:** Occoquan\_VMRC\_Scoping letter\_draft.pdf

Good morning Steve.

Based on a desktop review of the information and mapping provided, it appears that no permit will be required from the Marine Resources Commission, for the Old Bridge Road Intersection Improvements Project in Prince William County. Should the footprint of the project change, we would appreciate a chance to review the new alignment. Thank you for the opportunity to review and provide comments on this project.

Mark Eversole  
Environmental Engineer  
Virginia Marine Resources Commission  
380 Fenwick Road  
Building 96  
Fort Monroe, Virginia 23651  
O) 757-247-8028

---

**From:** Swarr, Steven <SSwarr@jmt.com>  
**Sent:** Tuesday, August 25, 2020 3:41 PM  
**To:** Mark Eversole <mark.eversole@mrc.virginia.gov>  
**Subject:** UPC 115553 - Old Bridge Road Intersection Improvement - Request for Review

Prince William County, in coordination with the Virginia Department of Transportation (VDOT), has initiated the preparation of a Categorical Exclusion (CE) for the Old Bridge Road and Occoquan Road Intersection Improvement project (Project) in Woodbridge, Virginia. The Project will enhance the safety of traffic and pedestrian movements by realigning the reverse curves along Old Bridge Road approaching and through the intersection. Other improvements consist of constructing an additional right-turn lane along the southbound approach on Occoquan Road and adding a pedestrian crosswalk on the east leg of the intersection. The project will also require signal replacement, roadway reconstruction and tie-ins, as well as relocating/reconstructing pedestrian facilities to match existing configurations along all sides of the intersection.

Attached is the scoping letter requesting your agency's review and comment.

Thanks,  
Steve Swarr

An Employee Owned Company

Steven Swarr, MBA, CEP  
Senior Associate

9201 Arboretum Parkway, Ste. 310  
Richmond, Virginia 23236  
P. (804) 655-4822  
F. (804) 323-0596  
M. (443) 498-8440  
[sswarr@jmt.com](mailto:sswarr@jmt.com)

This message is intended for the use of the individual or entity to which it is addressed and may contain information that is confidential, privileged and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent of the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please contact the sender immediately and delete it from your system.

Thank You.

**From:** Greenway, Frances <frances.greenway@dwr.virginia.gov>  
**Sent:** Thursday, August 27, 2020 10:21 AM  
**To:** Swarr, Steven  
**Subject:** [EXTERNAL] UPC 115553-Old Bridge Intersection Improvement-Request for Review

**To: Whom It May Concern**

**Subject:** DGIF Instructions in Response to Request for Preliminary Scoping Review and Comments

We appreciate that you submitted your project(s) for review by VDGIF to ensure the protection of sensitive wildlife resources during project development. Due to current staffing limitations within our Fish and Wildlife Information Services (FWIS) and Environmental Services sections, we are unable to review and provide comments on projects that are not currently involved in one of the regulatory review processes for which we are a consultative agency see <https://www.dgif.virginia.gov/environmental-programs/environmental-services-section/>.

Please note that no response from VDGIF does not constitute "no comment" nor does it imply support of the project or associated activities. It simply means that VDGIF has not been able to respond to your request.

To assist you in determining which, if any, wildlife resources under our jurisdiction, including threatened and endangered wildlife, may be present on or near your project site, we recommend that you access the Virginia Fish and Wildlife Information System (VAFWIS) at <http://vafwis.org/fwis/>.

If you should have further questions or need additional information about VDGIF's Environmental Programs, please visit: <https://www.dgif.virginia.gov/environmental-programs/>.

Please feel free to attach a copy of this correspondence and any reports from VAFWIS with your project paperwork to document your correspondence with us regarding this project.

Thank you,



**Frances Greenway**

*Administrative Assistant*

F 804.367.4335

**Virginia Department of Wildlife Resources**

*CONSERVE. CONNECT. PROTECT.*

A [7870 Villa Park Drive](https://www.dwr.virginia.gov), P.O. Box 90778, Henrico, VA 23228-0778

[www.dwr.virginia.gov](https://www.dwr.virginia.gov)





## MEMORANDUM

TO: Prince William County  
DATE: March 1, 2021  
Revised August 7, 2021  
FROM: Steve Swarr, CEP  
PROJECT: Old Bridge and Occoquan Road Intersection Improvement  
JMT JOB NO.: 19-01549-001  
RE: Waters of the U.S. (including Wetlands) Delineation Memo

---

Prince William County is proposing an intersection improvement project (Project) at the Old Bridge Road/Occoquan Road Intersection to enhance the safety of traffic and pedestrian movements by realigning the reverse curves along Old Bridge Road approaching and through the intersection. Other improvements consist of constructing an additional right-turn lane along the southbound approach on Occoquan Road and adding a pedestrian crosswalk on the east leg of the intersection. The Project will also require signal replacement, roadway reconstruction and tie-ins, as well as relocating/reconstructing pedestrian facilities to match existing configurations along all sides of the intersection.

On May 27, 2020, JMT Environmental Scientists performed a Waters of the U.S. (WOUS) (including wetlands) investigation within the Study Area. The Study Area includes Old Bridge Road for approximately 1,155 feet and Occoquan Road for approximately 860 feet for a total of 7.5 acres (**Figure 1**). The project is in Woodbridge, Prince William County, Virginia.

Prior to conducting the fieldwork, a desktop review of published information was performed to identify known site conditions and to determine the presence of known jurisdictional wetlands and/or Waters of the U.S. (WOUS) in the Study Area. The table below provides a list of the references utilized and their effective dates.

- Occoquan, Virginia 7.5' x 7.5' Topographic Quadrangle (USGS, 2019) (**Figure 2**);
- National Wetlands Inventory (NWI) (USFWS, 2017) (**Figure 3**);
- Web Soil Survey. Prince William County, Virginia (USDA/NRCS, 2020) (**Figure 4**);
- Flood Insurance Rate Map. Prince William County, Virginia. Map # 51153C0217D (FEMA, 1995) (**Figure 5**); and
- Chesapeake Bay Preservation Act (CBPA, 1988)

No WOUS were depicted on the USGS map and NWI map within the Study Area.

The FEMA Floodplain Map indicates that the Study Area is not located within a FEMA regulated floodway, or floodplain, or any other areas of flood hazard.



Prince William County is located within Tidewater Virginia and therefore compliance with the Chesapeake Bay Preservation Area regulations is required. However, no Resource Protection Areas occur with the Study Area.

**Table 1: Soil Units Mapped within the Study Area**

Map Unit Symbol	Map Unit Name	Map Unit Properties	Hydric Rating
16A	Delanco fine sandy loam, 0 to 4 percent slopes	Moderately well drained	Non-Hydric, but with hydric 5 percent soil inclusions
42B	Neabsco-Quantico complex, 2 to 7 percent slopes	Well drained	Non-hydric
47B	Quantico sandy loam, 2 to 7 percent slopes	Well drained	Non-hydric
54B	Urban land-Udorthents complex, 0 to 7 percent slopes	Well drained	Non-hydric

JMT performed a field investigation of the Study Area to identify and delineate any potentially jurisdictional wetlands or WOUS that may be impacted by the proposed improvements in accordance with the US Army Corps of Engineers (USACE) Wetlands Delineation Manual (Environmental Laboratory, 1987), and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Atlantic and Gulf Coastal Plain Region (2010). The USACE Wetland Delineation Manual states three criteria (wetland vegetation, wetland soils, and wetland hydrology) must be present for an area to qualify as a wetland unless the area is significantly disturbed (atypical situation) or is considered a problem area. If the area is significantly disturbed or a problem area, then only two parameters must be evident to classify an area as a wetland.

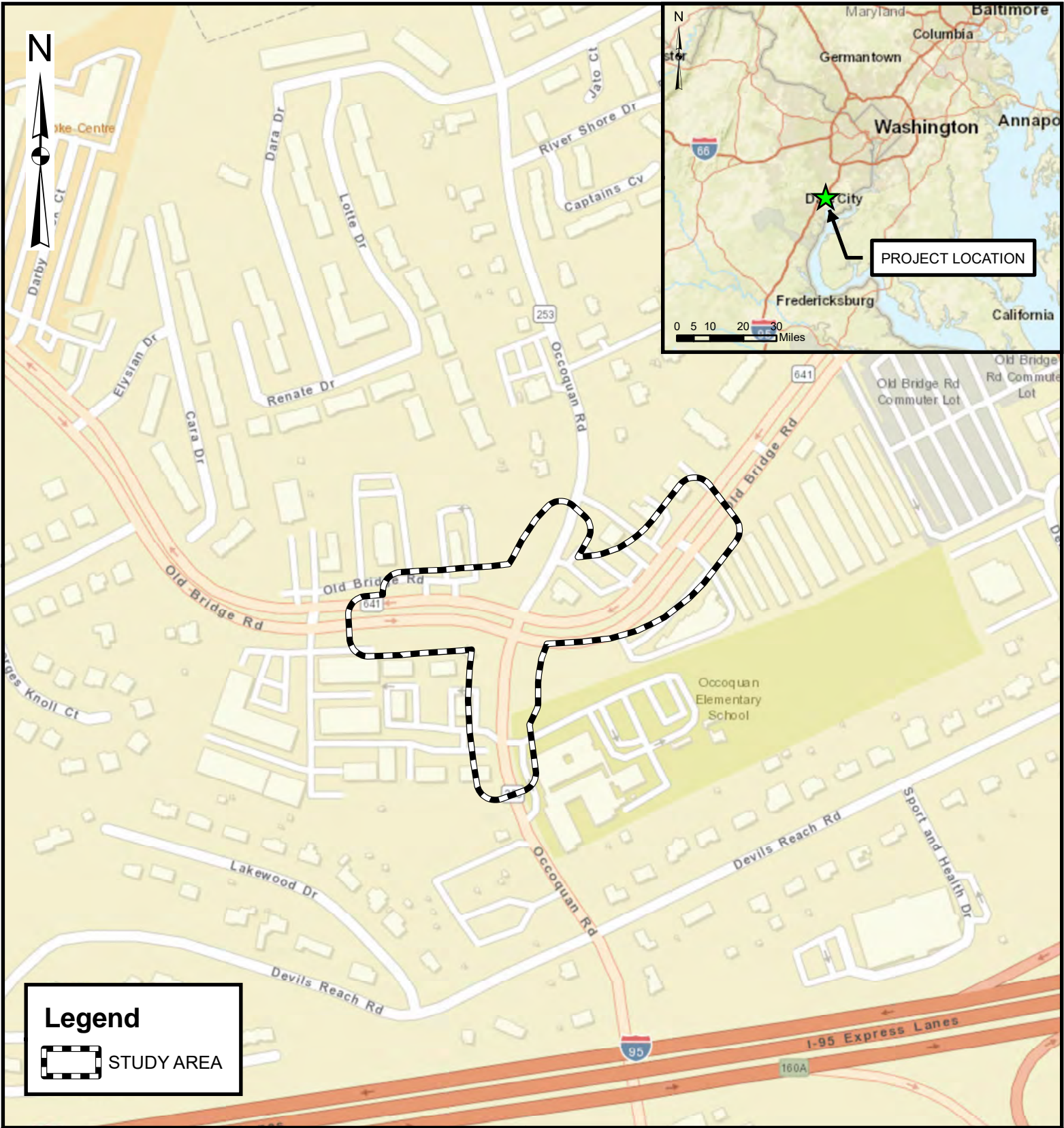
## **CONCLUSIONS**

### **Waters of the U.S. (including wetlands)**


The wetland and stream investigation and delineation performed on May 27, 2020 identified no potentially jurisdictional features. A preliminary jurisdictional is not required from the USACE – Norfolk District. Photographs of the Study Area are included in the **Photo Log (Attachment 1)**.

### **Water Quality Permits**

Because there are no jurisdictional waters of the US, including wetlands, within the project’s Study Area, and the project’s minimal impacts to undeveloped land, it’s anticipated that the project will not require Prince William County water quality permits for impacts to waters of the US and wetlands.



**Legend**

 STUDY AREA

0 175 350 700 Feet

1" = 350'  
SOURCE: ESRI

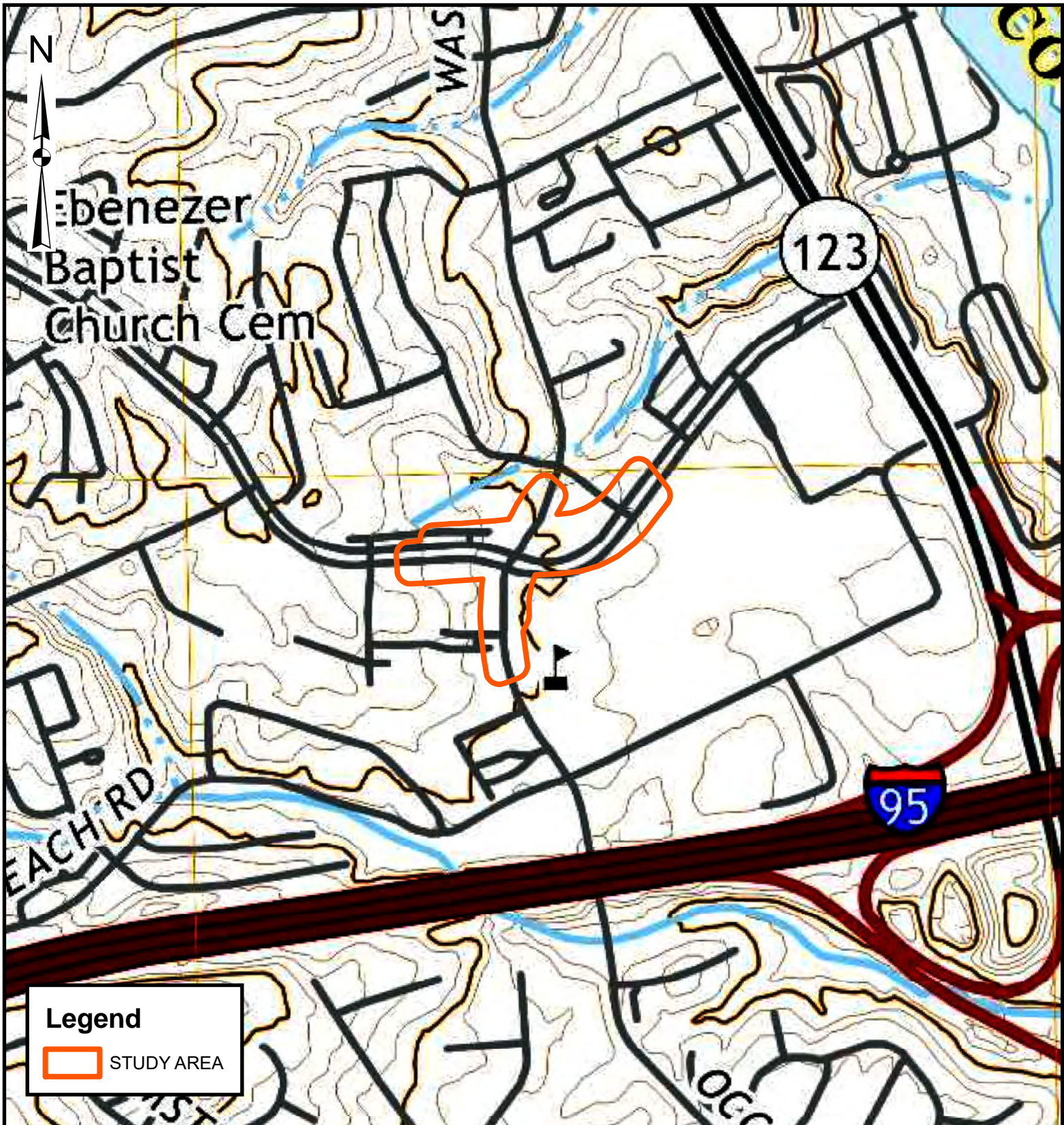
**FIGURE 1: GENERAL LOCATION MAP**

**OCCOQUAN ROAD INTERSECTION REDESIGN**

PRINCE WILLIAM COUNTY, VA

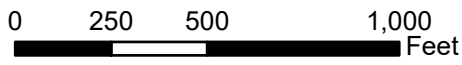
DATE: FEBRUARY 2021





**Legend**

STUDY AREA



1" = 500'

SOURCE: USGS OCCOQUAN TOPOGRAPHIC 7.5' QUADRANGLE (2019)

**FIGURE 2: USGS TOPOGRAPHIC QUADRANGLE MAP**

**OCCOQUAN ROAD INTERSECTION REDESIGN**



PRINCE WILLIAM COUNTY, VA

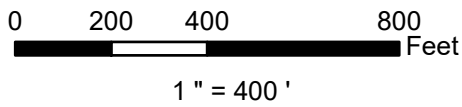
DATE: FEBRUARY 2021





**Legend**

-  STUDY AREA
- NWI WETLANDS**
-  Riverine



SOURCE: USFWS

### FIGURE 3: NWI MAP

## OCCOQUAN ROAD INTERSECTION REDESIGN

PRINCE WILLIAM COUNTY, VA

DATE: FEBRUARY 2021





0 200 400 800 Feet

1" = 400'

SOURCE: USFWS, FEMA

## FIGURE 4: NRCS SOILS MAP

### OCCOQUAN ROAD INTERSECTION REDESIGN

PRINCE WILLIAM COUNTY, VA

DATE: FEBRUARY 2021





### Legend



STUDY AREA

### FEMA FLOOD ZONE



AE



X

0 250 500 1,000  
Feet

1" = 500'

SOURCE: FEMA

## FIGURE 5: FEMA MAP

### OCCOQUAN ROAD INTERSECTION REDESIGN

PRINCE WILLIAM COUNTY, VA

DATE: FEBRUARY 2021





## **Attachment 1 – Photo Log**





*Photo east of the intersection facing west along Old Bridge Road*



*Photo facing east, east of the intersection along Old Bridge Road*



*Photo of gas line northwest of the intersection*



*Photo of Occoquan Road facing north*



*Photo of Occoquan Road facing south*



*Photo of Old Bridge Road facing east*



*Photo of the area where there is a proposed right turn*



## MEMORANDUM

TO: USFWS Virginia Field Office (Northeast Region)  
DATE: July 1, 2021  
FROM: Steven Swarr, CEP (Senior Environmental Scientist)  
PROJECT: Old Bridge and Occoquan Road Intersection Improvement  
Prince William County, Virginia  
VDOT UPC NO.: 115553  
RE: USFWS Consultation Package

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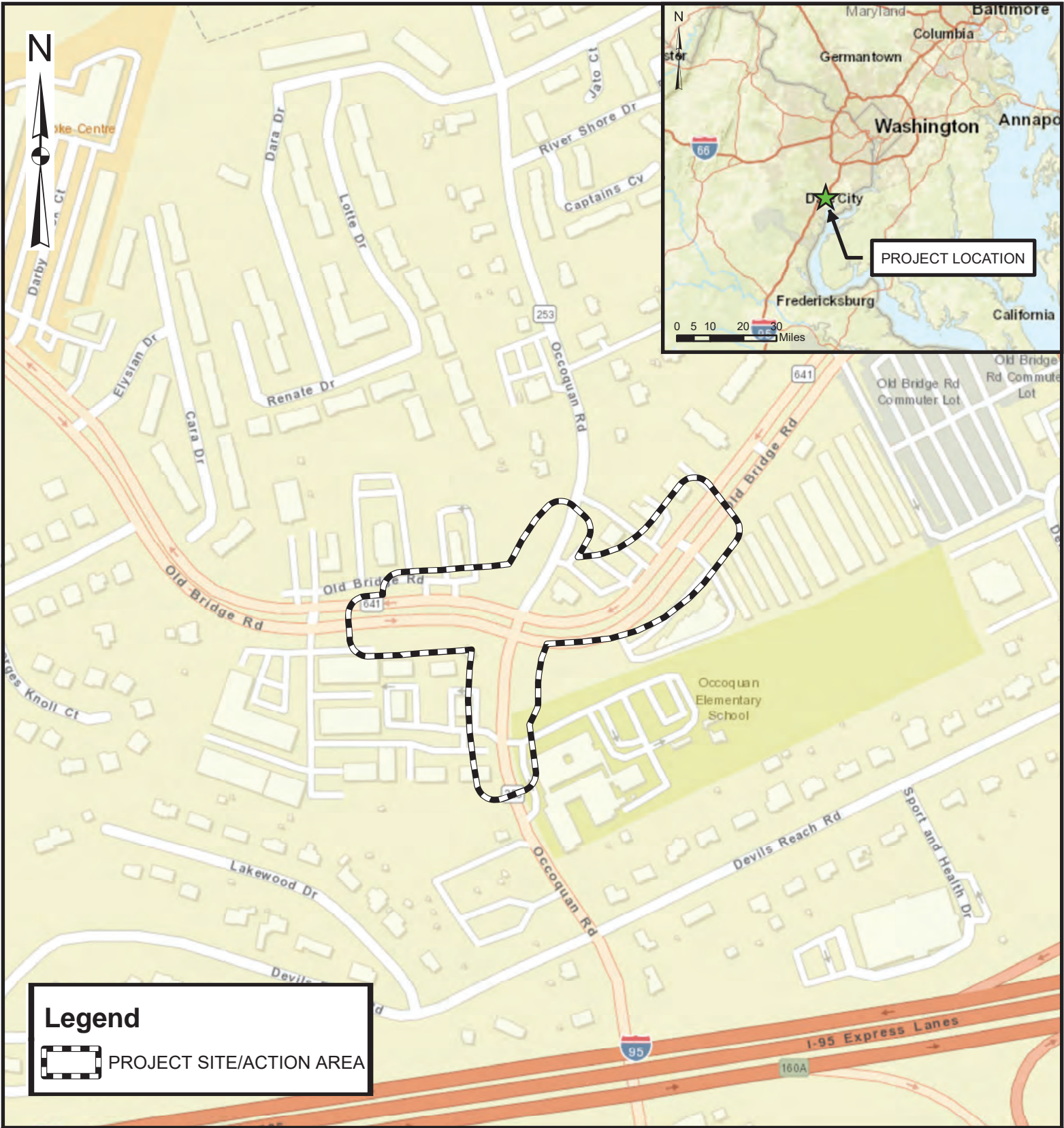
Prince William County, in coordination with the Virginia Department of Transportation (VDOT), has initiated the preparation of a Categorical Exclusion (CE) for the Old Bridge Road and Occoquan Road Intersection Improvement project (Project) in Woodbridge, Virginia. Prince William County is proposing an intersection improvement project at the Old Bridge Road/Occoquan Road Intersection to enhance the safety of traffic and pedestrian movements by realigning the reverse curves along Old Bridge Road approaching and through the intersection. Other improvements consist of constructing an additional right-turn lane along the southbound approach on Occoquan Road and adding a pedestrian crosswalk on the east leg of the intersection. The Project will also require signal replacement, roadway reconstruction and tie-ins, as well as relocating/reconstructing pedestrian facilities to match existing configurations along all sides of the intersection. The CE is being prepared in accordance with the National Environmental Policy Act.

The purpose of the Project is to improve the intersection with the realignment of the existing intersection and approaches, construction of an additional right-turn lane along the southbound approach on Occoquan Road, and installation of a pedestrian crosswalk across Old Bridge Road westbound approach. The Project is needed to improve safety of traffic and pedestrian movements and reduce traffic congestion.

The programmed schedule for the Project is for engineering to be completed by March 2023 and construction to be completed by December 2026.

As the project progresses through design, avoidance and minimization measures will be implemented to minimize potential impacts to environmental resources. Considering the urban setting of the Project site, the lack of critical habitat identified in the federal and state database reviews of the Project site, and the lack of any potential natural habitat based on field reviews, no impacts to habitat is anticipated for this Project.

The Project site is depicted on the attached General Location Map (Figure 1), USGS Topographic Quadrangle Map (Figure 2), and Natural Color Aerial Imagery (Figure 3). A conceptual design is presented as Figure 4. A photolog of the Project site is included as Appendix A. The Official USFWS IPaC species list, Endangered Species Act Determination Table, and the Project's Self-Certification Letter can be found in Appendices B-D, respectively.

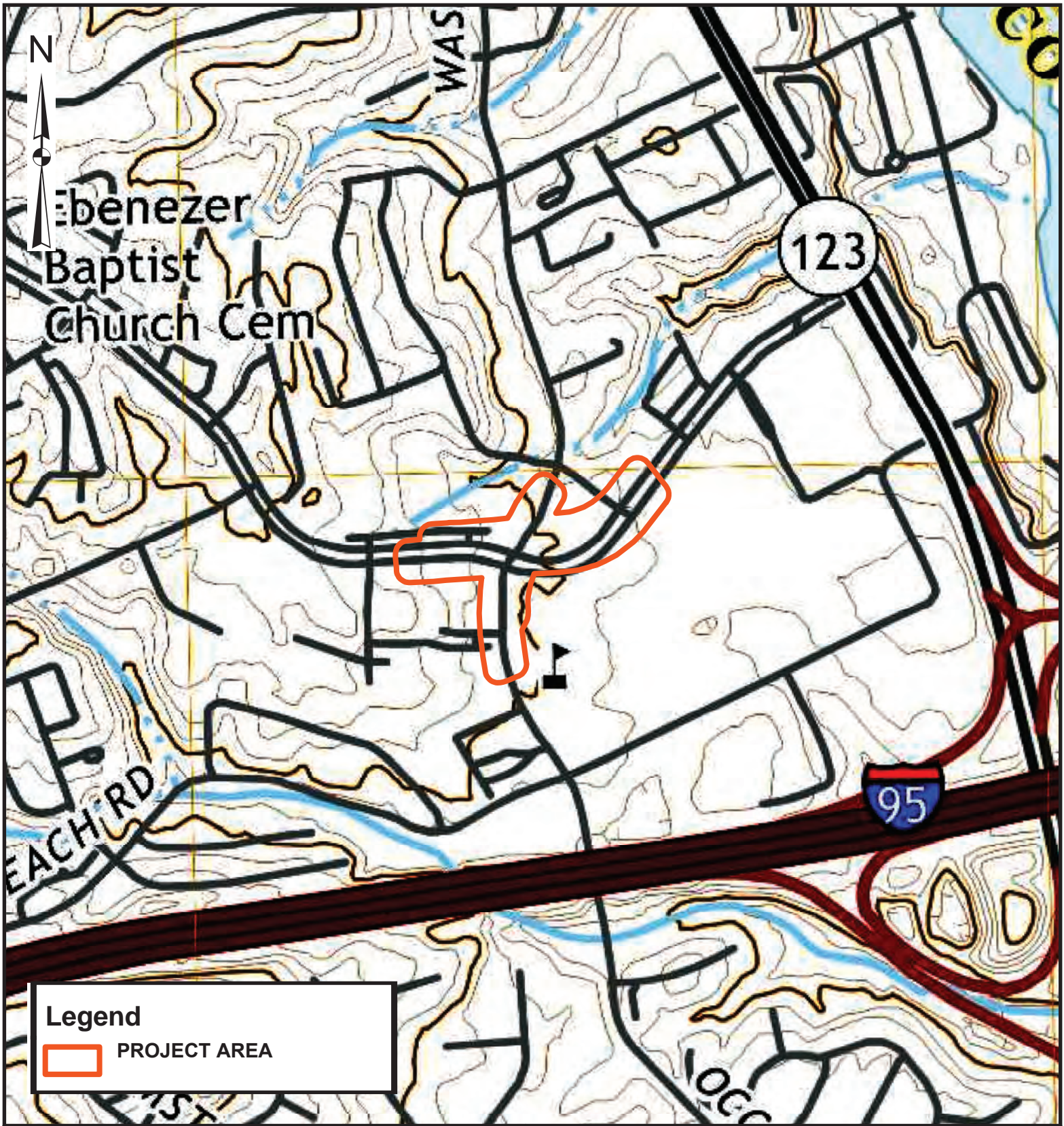


**FIGURE 1: PROJECT AREA**

**OCCOQUAN ROAD AND OLD BRIDGE ROAD INTERSECTION IMPROVEMENTS**

DATE: JULY 2021





**Legend**

 PROJECT AREA



1" = 500'

SOURCE: USGS OCCOQUAN TOPOGRAPHIC 7.5' QUADRANGLE (2019)

**FIGURE 2: USGS TOPOGRAPHIC QUADRANGLE MAP**


**OCCOQUAN ROAD AND OLD BRIDGE ROAD INTERSECTION IMPROVEMENTS**

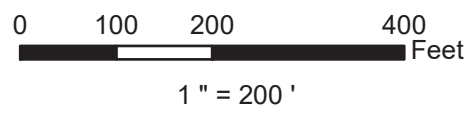


DATE: JULY 2021



**Legend**

 PROJECT AREA



SOURCE: VGIN (2019)

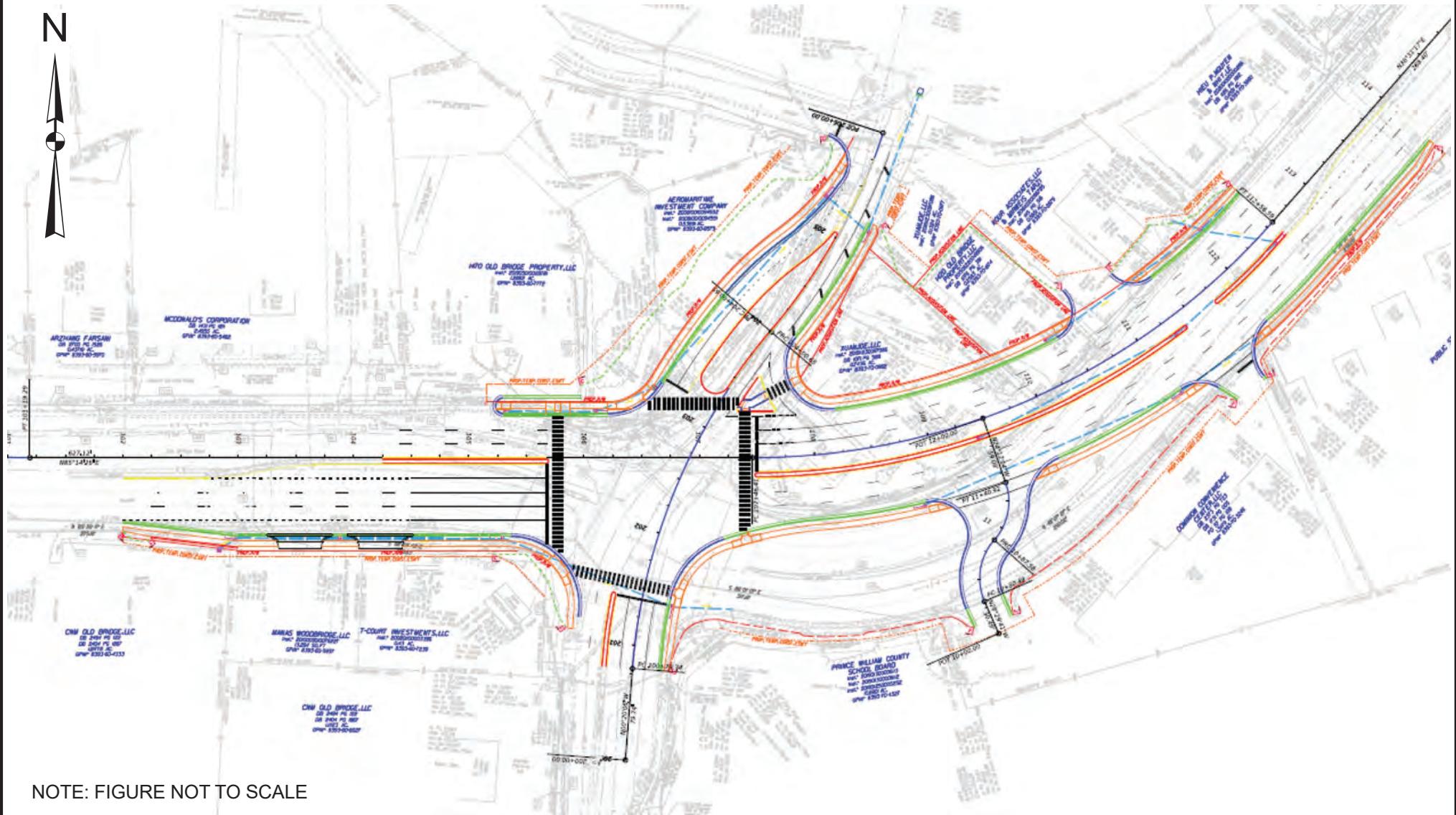
**FIGURE 3: NATURAL COLOR  
AERIAL IMAGERY**

**OCCOQUAN ROAD AND OLD  
BRIDGE ROAD INTERSECTION  
IMPROVEMENTS**

DATE: JULY 2021







## FIGURE 4: INTERSECTION REDESIGN – CONCEPTUAL DESIGN

### OCCOQUAN ROAD AND OLD BRIDGE ROAD INTERSECTION IMPROVEMENTS

DATE: JULY 2021





**Appendix A – Photolog**



*Photo east of the intersection facing west along Old Bridge Road*



*Photo facing east, east of the intersection along Old Bridge Road*



*Photo of gas line northwest of the intersection*



*Photo of Occoquan Road facing north*



*Photo of Occoquan Road facing south*



*Photo of Old Bridge Road facing east*



*Photo of the area where there is a proposed right turn*



**Appendix B – Official IPaC Species List**



## 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  
<http://www.fws.gov/northeast/virginiafield/>

In Reply Refer To:

July 06, 2021

Consultation Code: 05E2VA00-2021-SLI-2359

Event Code: 05E2VA00-2021-E-13162

Project Name: Occoquan and Old Bridge Road Intersection Realignment

Subject: Updated 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.

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>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>;

<http://www.towerkill.com>; and

[http://](http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html)

[www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html](http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html).

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 Consultation Tracking Number in the header of this 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
-

## 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

Consultation Code: 05E2VA00-2021-SLI-2359

Event Code: 05E2VA00-2021-E-13162

Project Name: Occoquan and Old Bridge Road Intersection Realignment

Project Type: TRANSPORTATION

Project Description: Prince William County, in coordination with the Virginia Department of Transportation (VDOT), has initiated the preparation of a Categorical Exclusion (CE) for the Old Bridge Road and Occoquan Road Intersection Improvement project (Project) in Woodbridge, Virginia. Prince William County is proposing an intersection improvement project at the Old Bridge Road/Occoquan Road Intersection to enhance the safety of traffic and pedestrian movements by realigning the reverse curves along Old Bridge Road approaching and through the intersection. Other improvements consist of constructing an additional right-turn lane along the southbound approach on Occoquan Road and adding a pedestrian crosswalk on the east leg of the intersection. The Project will also require signal replacement, roadway reconstruction and tie-ins, as well as relocating/reconstructing pedestrian facilities to match existing configurations along all sides of the intersection. The CE is being prepared in accordance with the National Environmental Policy Act.

The purpose of the Project is to improve the intersection with the realignment of the existing intersection and approaches, construction of an additional right-turn lane along the southbound approach on Occoquan Road, and installation of a pedestrian crosswalk across Old Bridge Road westbound approach. The Project is needed to improve safety of traffic and pedestrian movements and reduce traffic congestion.

The programmed schedule for the Project is for engineering to be completed by March 2023 and construction to be completed by December 2026.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@38.672766355451344,-77.26015541826553,14z>

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Counties: Prince William County, Virginia

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## Endangered Species Act Species

There is a total of 1 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 Fisheries<sup>1</sup>, 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: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

## 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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**Appendix C – Endangered Species Act Determination Table**

Endangered Species Act (ESA) Section 7 Determination Table

Project Name: Old Bridge Road and Occoquan Road Intersection

Improvement Date: July 1, 2021

Consultation Code: 05E2VA00-2020-SLI-5431

Species / Resource Name	Habitat/Species Presence in Action Area	Sources of Info	ESA Section 7 Determination	Project Elements that Support Determination
<i>Insert name of species or resource as listed on Official Species List.</i>	<i>Indicate if suitable habitat and species are present in the Action Area (see examples in Step 5).</i>	<i>Explain what info suitable habitat/species presence is based on.</i>	<i>Using reasoning and decision tables in Step 5, select determination for each species (e.g. no effect, not likely to adversely affect, or likely to adversely affect).</i>	<i>Explain which project elements may impact the habitat or individuals of each species and any Avoidance and Minimization Measures being implemented.</i>
Northern Long-eared Bat ( <i>Myotis septentrionalis</i> )		Dkey	Covered by 4(d) rule	VDGIF NLEB Winter Habitat & Roost Trees Map indicates that there are no maternity colonies or hibernacula within 100 miles. The project area contains small, highly fragmented forests with minimal subcanopy are generally not considered suitable, however recent data indicates that NLEB may use these types of forest as well.
Harperella ( <i>Ptilimnium nodosum</i> )	No suitable habitat present	Recent survey did not identify any streams or wetlands within the project area.	No Effect	N/A
Critical Habitat	No Critical Habitat Present	VAFO CH Map Tool	No Effect	N/A





**Appendix D –Self-Certification Letter**



# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

Virginia Field Office  
6669 Short Lane  
Gloucester, VA 23061

Date: 7/1/21

### Self-Certification Letter

Project Name: Old Bridge and Occoquan Road Intersection Improvement

Dear Applicant:

Thank you for using the U.S. Fish and Wildlife Service (Service) Virginia Ecological Services online project review process. By printing this letter in conjunction with your project review package, you are certifying that you have completed the online project review process for the project named above in accordance with all instructions provided, using the best available information to reach your conclusions. This letter, and the enclosed project review package, completes the review of your project in accordance with the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA). This letter also provides information for your project review under the National Environmental Policy Act of 1969 (P.L. 91-190, 42 U.S.C. 4321-4347, 83 Stat. 852), as amended. A copy of this letter and the project review package must be submitted to this office for this certification to be valid. This letter and the project review package will be maintained in our records.

The species conclusions table in the enclosed project review package summarizes your ESA conclusions. These conclusions resulted in:

- “no effect” determinations for proposed/listed species and/or proposed/designated critical habitat; and/or
- Action may affect the northern long-eared bat; however, any take that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR § 17.40(o) [as determined through the Information, Planning, and Consultation System (IPaC) northern long-eared bat assisted determination key]; and/or
- “may affect, not likely to adversely affect” determinations for proposed/listed species and/or proposed/designated critical habitat.

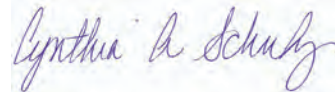
We certify that use of the online project review process in strict accordance with the instructions provided as documented in the enclosed project review package results in reaching the appropriate determinations. Therefore, we concur with the determinations described above for proposed and listed species and proposed and designated critical habitat. Additional coordination with this office is not needed.

Candidate species are not legally protected pursuant to the ESA. However, the Service encourages consideration of these species by avoiding adverse impacts to them. Please contact this office for additional coordination if your project action area contains candidate species.

Should project plans change or if additional information on the distribution of proposed or listed species, proposed or designated critical habitat becomes available, this determination may be reconsidered. This certification letter is valid for 1 year.

Information about the online project review process including instructions and use, species information, and other information regarding project reviews within Virginia is available at our website [http://www.fws.gov/northeast/virginiafield/endspecies/project\\_reviews.html](http://www.fws.gov/northeast/virginiafield/endspecies/project_reviews.html). If you have any questions, please contact Troy Andersen of this office at (804) 824-2428.

Sincerely,

A handwritten signature in blue ink that reads "Cynthia A. Schulz". The signature is written in a cursive style and is positioned above the printed name.

Cindy Schulz  
Field Supervisor  
Virginia Ecological Services

Enclosures - project review package



## MEMORANDUM

TO: Prince William County  
DATE: August 30, 2021  
FROM: Steve Swarr, CEP  
PROJECT: Old Bridge and Occoquan Road Intersection Improvement  
JMT JOB NO.: 19-01549-001  
RE: Environmental Justice Analysis

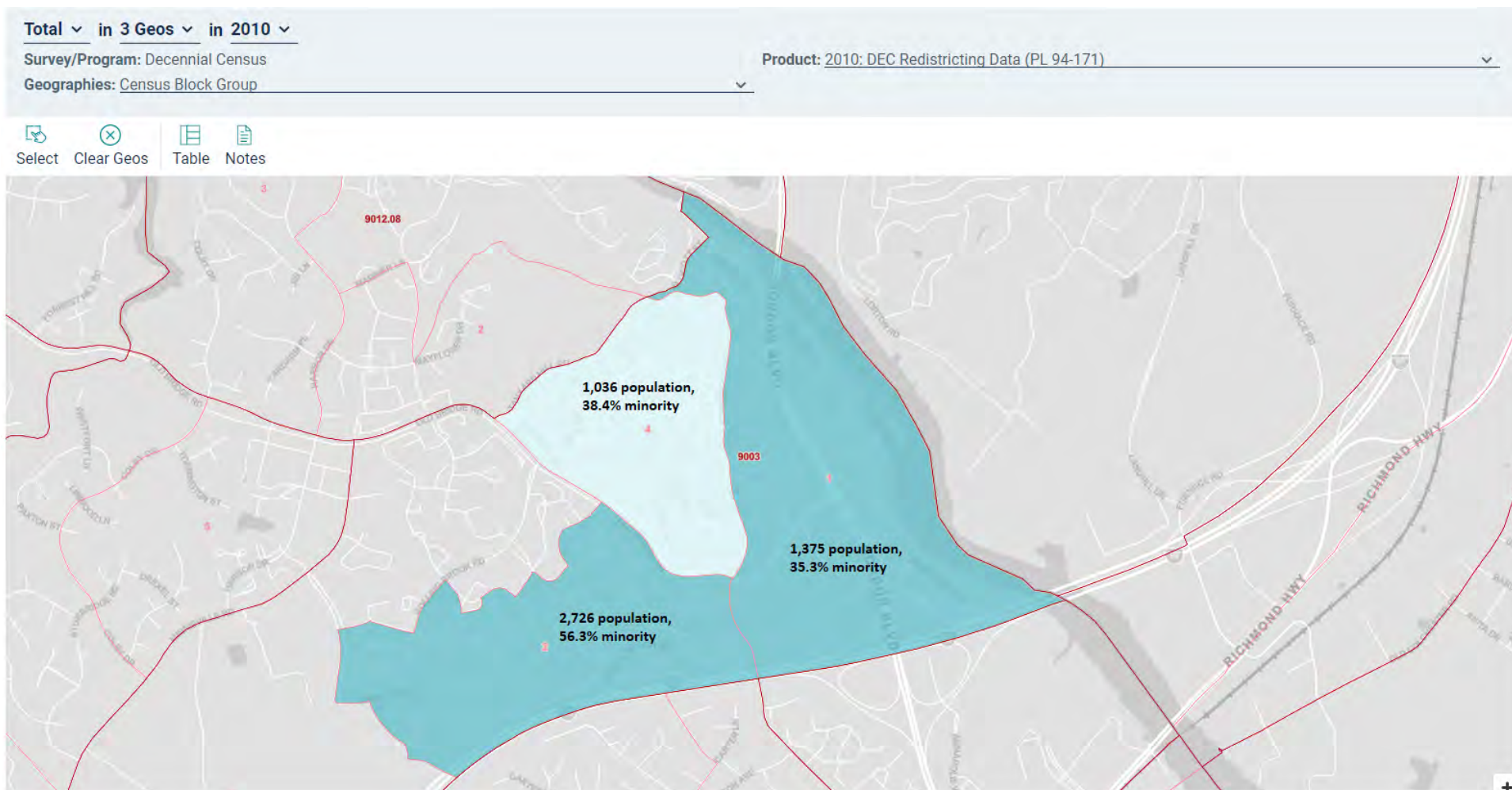
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The Holiness Tabernacle Church of God in Christ church is located at 1440 Old Bridge Road, Woodbridge, VA 22192. The Holiness Tabernacle Church of God in Christ has primarily a minority (black) congregation. The church is a for-profit entity that leases the building and property on Parcel 8393-70-1674 from a private landowner. This parcel is a total take because of the Project. The owner at the church was aware of the project and pending property impact and has purchased a property and facility for the church approximately two miles from its current location.

Prince William County will be acquiring Parcel 8393-70-1674 through the early acquisition process to assist the church in relocating to the new property. Acquisition and relocation are being completed under the guidelines of the Uniform Relocation Assistance and Real Property Acquisition Policies Act (Uniform Act) and per the guidelines in Chapter 16 – Right of Way and Utilities of the Locally Administered Projects (LAP) Manual.

Although there is potential for a disproportionately high and adverse effect of the surrounding minority population (Environmental Justice community) as a result the displacement of the church, Prince William County has initiated the early acquisition process to assist the church in relocation to a new property close (approximately two miles) to its current location. This will allow the church to remain open and avoid disruption to services which will mitigate the potential disproportionately high and adverse effect to the surrounding Environmental Justice community. Therefore, in accordance with the provision of E.O. 12898 and FHWA Order 6640.23, no further EJ analysis is required.

## Race - 2010 Decennial Census Data, Prince William County Block Groups 9003.1, 9003.2, 9003.4

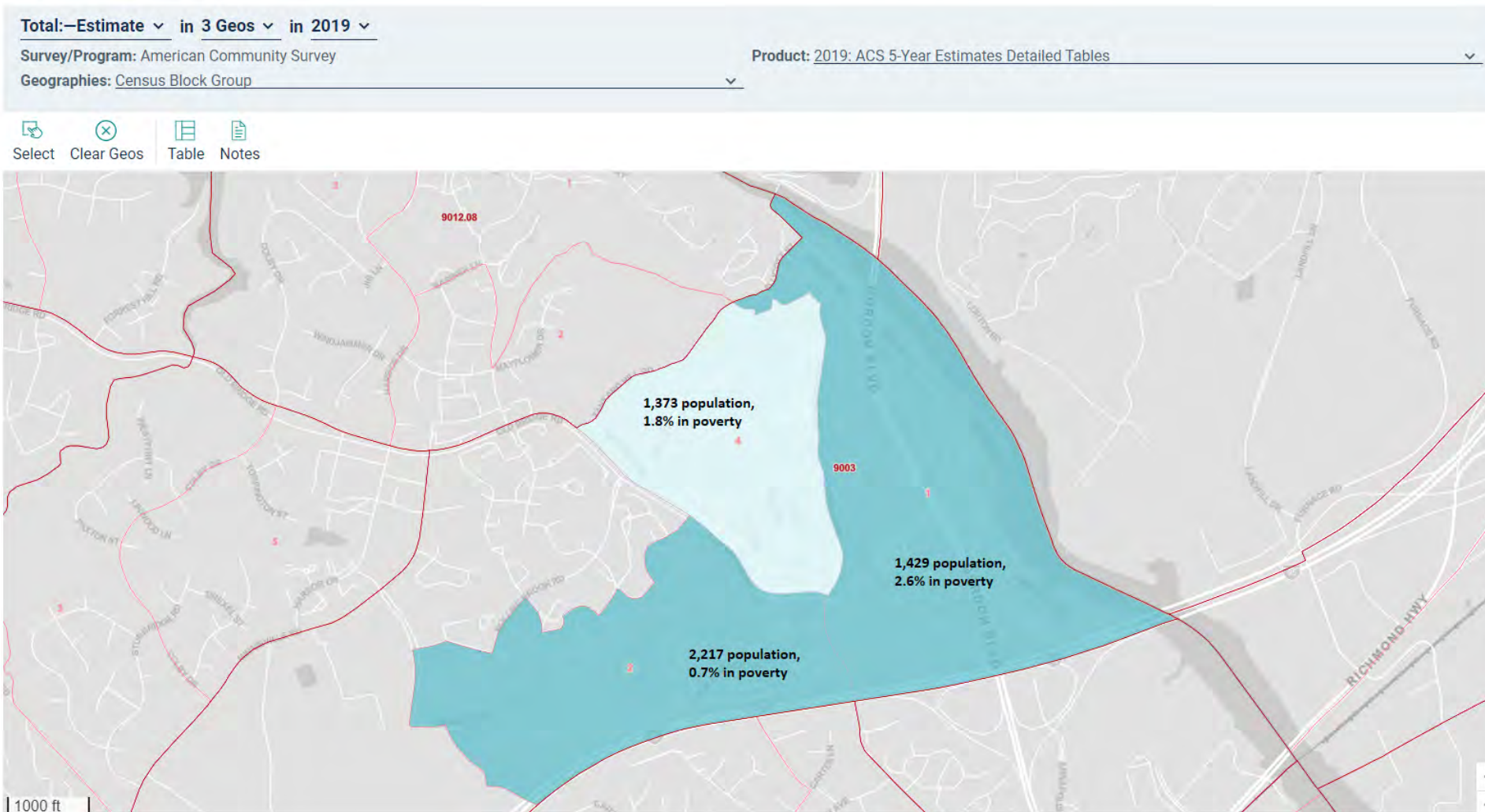


*Block Group Map with Minority Population*

<b>Label</b>	<b>Block Group 1, Census Tract 9003, Prince William County, Virginia</b>	<b>Block Group 2, Census Tract 9003, Prince William County, Virginia</b>	<b>Block Group 4, Census Tract 9003, Prince William County, Virginia</b>
<b>Total:</b>	1,375	2,726	1,036
<b>Population of one race:</b>	1,310	2,574	987
White alone	889	1,192	638
Black or African American alone	276	766	215
American Indian and Alaska Native alone	19	21	15
Asian alone	58	341	55
Native Hawaiian and Other Pacific Islander alone	0	4	3
Some Other Race alone	68	250	61
<b>Two or More Races:</b>	65	152	49

*Block Group Minority Data Table*

# Poverty – 2019 ACS Data, Prince William County Block Groups 9003.1, 9003.2, 9003.4



*Block Group Map with Poverty Levels*

	<b>Block Group 1, Census Tract 9003, Prince William County, Virginia</b>	<b>Block Group 2, Census Tract 9003, Prince William County, Virginia</b>	<b>Block Group 4, Census Tract 9003, Prince William County, Virginia</b>
<b>Label</b>			
<b>Total:</b>	1,426	2,217	1,373
<b>Income in the past 12 months below poverty level:</b>	37	16	26
<b>Income in the past 12 months at or above poverty level:</b>	1,389	2,201	1,347

*Block Group Poverty Level Data Table*

**Neither minority or low-income populations have been identified that would be adversely impacted by the proposed project as determined above. Therefore, in accordance with the provision of E.O. 12898 and FHWA Order 6640.23, no further EJ analysis is required.**



Old Bridge Road & Occoquan Road Intersection  
Improvement Virtual Presentation for Public Information and  
Comments



Wednesday, March 24, 2021

Venue: Pre-Recording of the presentation will be available  
for viewing online at the Prince William County Department of  
Transportation Website:

<https://www.pwcgov.org/government/dept/dot/Pages/Virtual-Presentations.aspx>.

The Prince William County Department of Transportation invites you to view a pre-recording of  
a virtual Presentation for Public Information and Comments (VPPIC) and learn more about an  
upcoming project to construct improvements at the intersection of Old Bridge Road and  
Occoquan Road. The project will re-align Old Bridge Road approaching and through the  
intersection and will add another pedestrian crossing.

The purpose of this virtual presentation is to give the public an opportunity to review the  
project exhibits, review a tentative project schedule and features, and provide valuable  
feedback to the County to assist in the design process of this important project. The comments  
sheet will be available at the same website. Comments will be accepted until April 9, 2021.



Proyecto de Mejoramiento a la intersección de la carretera Old  
Bridge and la carretera Occoquan



Miércoles, Marzo 24, 2021

Lugar: En línea en el sitio web del Departamento de Transporte del  
Condado de Prince William. La grabación de la presentación  
estará disponible para su visualización:

<https://www.pwcgov.org/government/dept/dot/Pages/Virtual-Presentations.aspx>

El Departamento de Transporte del Condado de Prince William County los invita a ver la  
pregrabación de una Presentación Virtual para Informar al Público sobre un futuro proyecto  
para mejorar la intersección de la carretera Old Bridge y la carretera Occoquan. El proyecto  
realineará la carretera Old Bridge y a través de la intersección con la carretera Occoquan y  
agregará otro carril.

El propósito de esta presentación virtual es revisar con el público los planos del proyecto y el  
cronograma inicial, con el fin de conocer los comentarios y preguntas que tengan sobre el  
proceso de diseño de este importante proyecto. La forma para dar sus comentarios estará  
disponible en el mismo sitio web. Se aceptarán comentarios hasta el 9 de Abril, 2021.



*Public Interest Meeting Notification*



PRINCE WILLIAM  
COUNTY

# Prince William County Department of Transportation

## Virtual Presentation for Public Information and Comments Old Bridge Road and Occoquan Road Intersection Improvements

March 24, 2021

Presenters: Hoalnam Nguyen  
Prince William County DOT  
Project Manager

## Project Purpose, Budget and Timeline

### Project Purpose:

- Re-align and straighten Old Bridge Road at Occoquan Road intersection to remove reverse curves
- Improve sight distance and safety for drivers approaching intersection
- Traffic Flow Improvements - Project will improve overall traffic flow on Old Bridge Road
- Addition of right turn lane and pedestrian crosswalk with ADA curb ramps on the east leg

### Funding:

\$11.5 million in Federal funds through FY2020 SMARTSCALE program

### Timeline (to date):

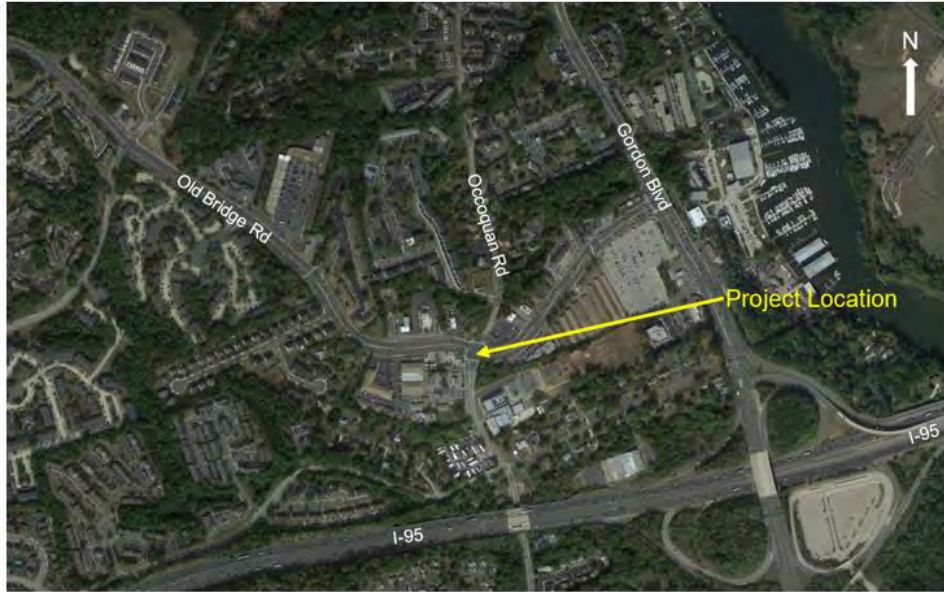
May 2020 - Design contract awarded

November - Conceptual design completed and VDOT Kick-off Meeting

January 2021 - 30% plans completed



## Project Location Map



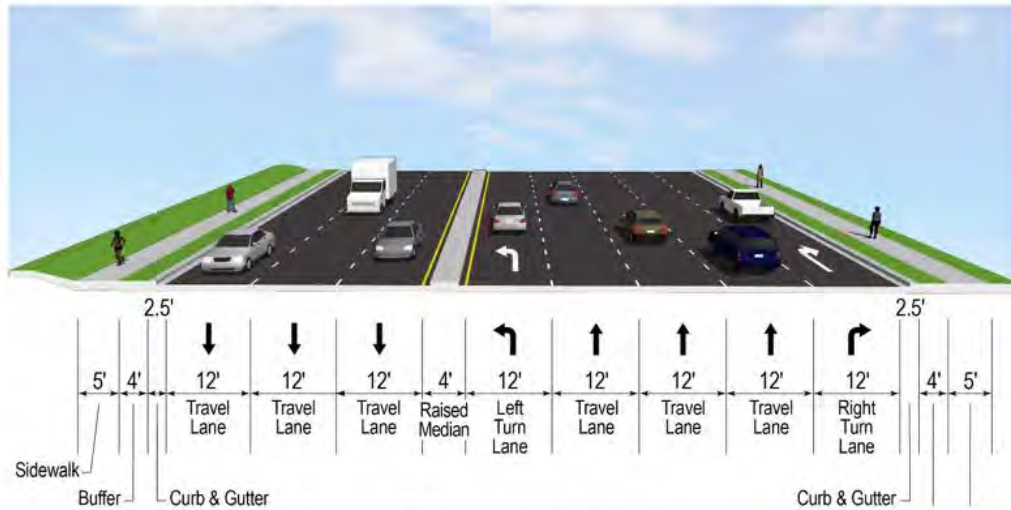
## Project Aerial Map



# Project ROW Acquisitions



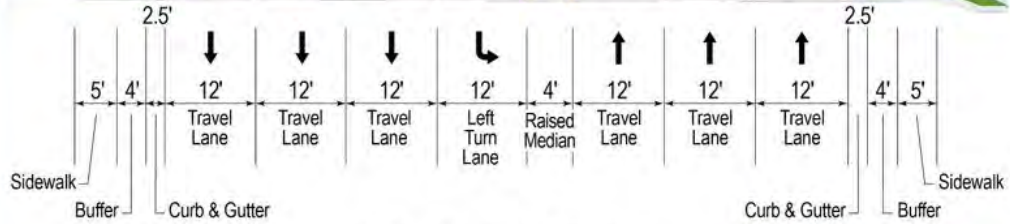
## Typical Sections/Misc.



Old Bridge Road (Rte. 641)  
Station 104+25 to Station 105+75



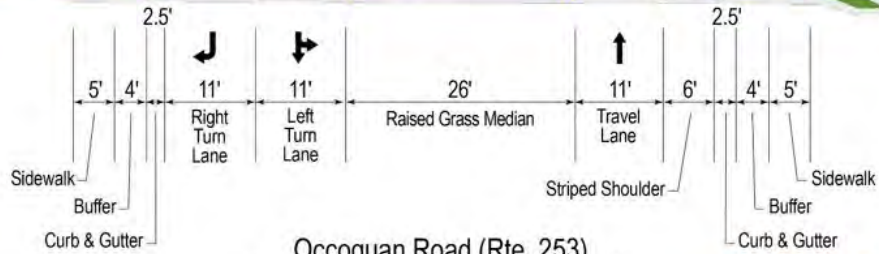
## Typical Sections/Misc.



Old Bridge Road (Rte. 641)  
Station 107+50 to Station 112+56



## Typical Sections/Misc.



Occoquan Road (Rte. 253)  
Station 203+25 to Station 205+60



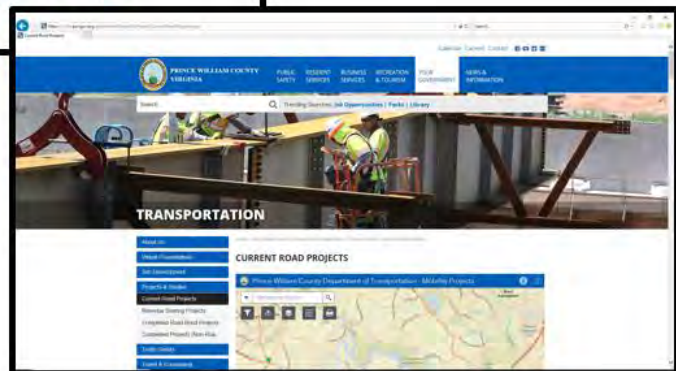
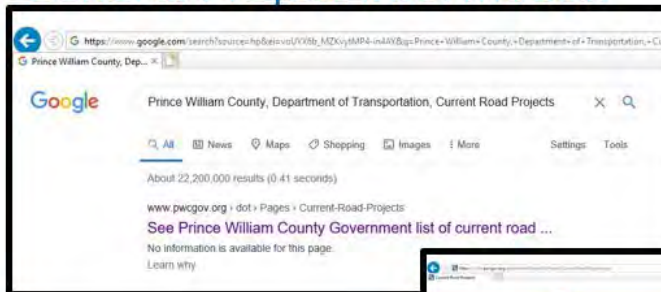
# Project Schedule [PLEASE REVIEW]

- Additional Documents Summer 2021
  - Environmental Permit Applications
  - Informational Geotechnical - soil and pavement data
  - Closure of project scoping
- Design Complete Fall 2022
- Utility Relocations Complete Spring 2023\*
- Project Award Fall 2023\*
- Start Construction Spring 2024\*
- Substantial Completion Fall 2025\*

\* Anticipated dates subject to change / acceleration



## General Project Information



## Questions, Comments, Concerns?



Questions and Comments welcome.

English  
Spanish

For English:

Provide your feedback online, a link is available below this video.

Click the link and follow prompts on the screen.

For Spanish:

Please contact the following individuals:

Mrs. Gladis Arboleda

Mr. Ricardo Canizales

See contact information below this video.

We kindly request you to post your feedback by April 9, 2021.

*Public Interest Meeting Presentation, March 24, 2021*

1. Do you think the design of this project meets the needs of the community? Please explain.
2. What specific concerns do you have regarding the proposed project?
3. Please provide additional information you feel would assist in the completion of this project.
4. Would you like to provide any input or express any concerns regarding the Environmental Studies performed for the project?
5. How did you hear about this presentation?

### *Public Interest Meeting Questions*

#### Person A Answers:

1. "No it dose not there's not enough cars that travel on this road that would need this kind of project this can be solved with just adjusting the timer on the current lights."
2. "I have concerns for the buildings that are going to be torn down for all of this which isn't even needed this. This money could be used for other things it's a bad idea in my opinion."
3. "N/A"
4. "No."
5. "Newspaper"

*Response: "Thank you for your feedback, it is greatly appreciated. This intersection improvement project will enhance the safety and operational characteristics of this stretch of roadway by removing the reverse curves that currently present significant sight distance issues along this segment of Old Bridge Road. This stretch of roadway was part of the Old Bridge Road Corridor Study completed in 2018 which identified this intersection as needing safety improvements due to the amount of congestion and crash history. As part the safety improvements to this intersection, the signal times will also be updated to meet projected design year volumes. Efforts to minimize impacts to surrounding infrastructure, buildings, and properties are a vital part of the engineering and design on transportation improvement projects. A cost-effective design approach was implemented while meeting all required federal and state guidelines which resulted in two total property acquisitions. The benefit of this safety improvement project provides a safer means of daily travel for motorists and pedestrians."*



Person B Answers:

1. "In general, yes. I fully support the realignment as shown and the improvements to this signal. They are long overdue."
2. "There are several elements that should be considered in addition to or as part of the current plan. 1. Considering the large green space that will be created in the NE corner (Property 009), there is no reason not to provide a short right hand turn bay onto Occoquan Road. It wont require additional ROW, it would incur minimal costs compared to the benefit. It would increase the long term functionality of the signal by maintaining a more consistent free flow movement in both the WB outside through lane and the right turn lane. 2. Designers need to, at a minimum, sign the eastern exit from property 005 as right turn only. That is probably already the plan, but with delivery drivers exiting that property frequently the temptation to turn left through the small gap will be significant, That needs to be actively discouraged by all reasonable means. I would rather see that WB Left turn access to property 005 eliminated than deal with this likely scenario. Perhaps that access could be widened with a small directional island to force existing traffic to turn right. It might cost a parking space, but would be a very wise precautionary improvement. 3. I am surprised to see the relatively short right turn lane for SB Occoquan traffic. This improvement will pull a LOT more vehicles down through the Town of Occoquan as a bypass of the OldBridge/123 signal. I am interested to see the traffic studies that support the short right turn bay at future meetings. 4. Prince William County and the Town of Occoquan need to work together to provide consistent pedestrian access down the full length of Occoquan Road. There is a fair amount of foot traffic down that roadway now and with these improvements, the vehicular traffic will increase. This is very likely to create more conflict between the pedestrians walking along the edge of the road. I recognize that sidewalks are not cheap and it is not simple to add them, but this is a easy win for smart scale funding and would likely score very well. This should be a major priority for the County and Town if you don't want to see an increase in pedestrian related accidents along this roadway."
3. "See comments above"
4. "Not at this time."
5. "Roadway VMS"

Response: *"Thank you for your feedback, it is greatly appreciated.*

*1. This additional right turn lane onto NB Occoquan Road was evaluated during project scoping and was considered as part of the traffic analysis that was performed. The traffic volumes did not warrant a separate right turn lane for this movement,*

*therefore, was omitted from the preliminary design. In addition, there was concern with the current location of the nearest entrance that it may not allow for full deceleration distance to be achieved.*

*2. Additional measures will be evaluated to eliminate or further deter drivers from making this left turn from this entrance.*

*3. The storage length for the SB right turn lane on Occoquan Road was determined through traffic capacity analysis. Further increasing this turn lane will cause additional impacts to the nearby intersection at Lotte Drive.*

*4. Implementing sidewalk along the entire stretch of Occoquan Road is an important aspect of promoting safer mobility for all users. The County will take this into consideration for future sidewalk connectivity projects along this corridor."*

Person C Answers:

1. " Yes. This intersection is dangerous and unfriendly to pedestrians."
2. "What is the purpose/use of the new grassed areas? Will this be for public use, with benches or simply be open grassed area?"
3. "I am hoping that the project can be completed sooner than planned, as this intersection is long overdue for improvement. Timeline is my only concern."
4. "I appreciate that much needed green space will be added, as the current intersection is unattractive. This improvement will provide a nice welcome to the Occoquan district, for visitors."
5. "HOA management company provided link"

*Response: "Thank you for your feedback, it is greatly appreciated. There are currently no additional planned improvements or facilities within the new grassed areas at this intersection. As the design progresses, the grassed area on the southeast corner of the intersection could be studied for use for a proposed stormwater management facility. Currently, it is not anticipated that these open spaces will be for public use once the project is complete.*

*The completion timeline of the project is currently ahead of VDOT's SmartScale Dashboard schedule and will continue to be accelerated whenever possible. Please note that there are a number of utility relocations that must occur at this intersection. In addition, currently there are two total property acquisitions which must adhere to federal and state procedures and guidelines to adequately complete the Right-of-Way relocation process.*

*The County will keep the additional greenspace in mind as the design progresses. Additional information on any improvements to these grassed areas will be made available at the public hearing."*

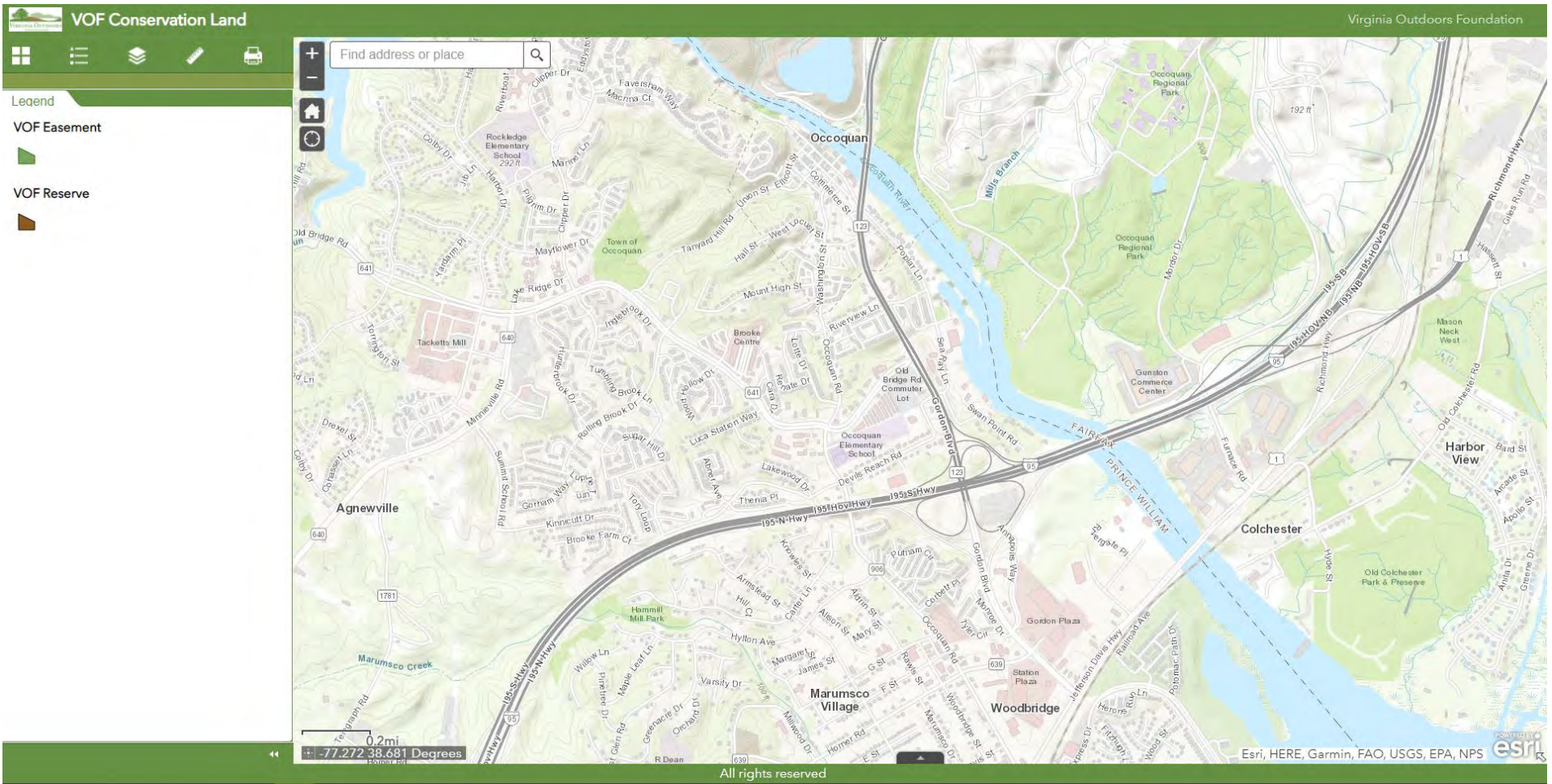
Person D Answers:

1. " Not sure ."
2. "Is that necessary to leave all grass like that and pay the maintenance costs ?Instead, collect tax from the commercial building that doesn't influence traffic."
3. "N/A"
4. "N/A"
5. "N/A"

*Response: "Thank you for your feedback, it is greatly appreciated. Upon completion of right-of-way acquisitions and the construction of the project, a right of first refusal could be offered to the adjacent property owners surrounding these grass areas. VDOT will maintain these open green spaces in the interim condition. If an adjacent property owner acquired the residual grass areas, the maintenance costs would then be the responsibility of the new property owners."*

*Public Questions and Answers Concerning Project*























































The information contained on this page is not to be construed or used as a legal description. Map information is believed to be accurate but accuracy is not guaranteed. Any errors or omissions should be reported to the Prince William County Geographic Information Systems Division of the Department of Information Technology. In no event will Prince William County be liable for any damages, including loss of data, lost profits, business interruption, loss of business information or other pecuniary loss that might arise from the use of this map or the information it contains.

## Map Legend

<b>Zoning</b>			
 A-1 Agricultural	 A-1C Agricultural Cluster	 B-1 General Business	 B-2 Neighborhood Business
 B-3 Convenience Business	 M/T Industrial/Transportation	 M-1 Heavy Industrial	 M-2 Light Industrial
 O(F) Office/Flex	 O(H) High-Rise Office	 O(M) Mid-Rise Office	 O(L) Low-Rise Office
 PBD Planned Business District	 PMD Planned Mixed District	 PMR Planned Mixed Residential	 RPC Residential Planned Community
 R-2 Min. Lot Size 20,000 sq. ft.	 R-2C Suburban Residential Cluster	 R-4 Min. Lot Size 10,000 sq. ft.	 R-4C Suburban Residential Cluster
 R-6 6 Dwellings per 1 acre	 R-16 16 Dwellings per 1 acre	 R-30 30 Dwellings per 1 acre	 SR-1 1 Dwelling per 1 acre
 SR-1C Suburban Residential Cluster	 SR-3C Suburban Residential Cluster	 SR-5 1 Dwelling per 5 acres	 SR-5C Suburban Residential Cluster
 V Village	 Cities	 Towns	 Government Tracts
<b>Schools</b>			
 Elementary	<b>Roadways - All</b>		
 Middle/Intermediate	 Streets	<b>Hydrography - Minor Streams</b>	
 High	 Arterials	 Intermittent	 Perennial
 Alternative	 Primary Highways	 Jurisdictions	<b>Places of Worship</b>
 Traditional and K-8	 Interstates	 Places of Worship	<b>Shopping Centers</b>
 Special Education	 Hydrography - Lakes, Rivers, Ponds and Major Streams	 Shopping Centers	<b>Trails</b>
	 Railroads	 Trails	

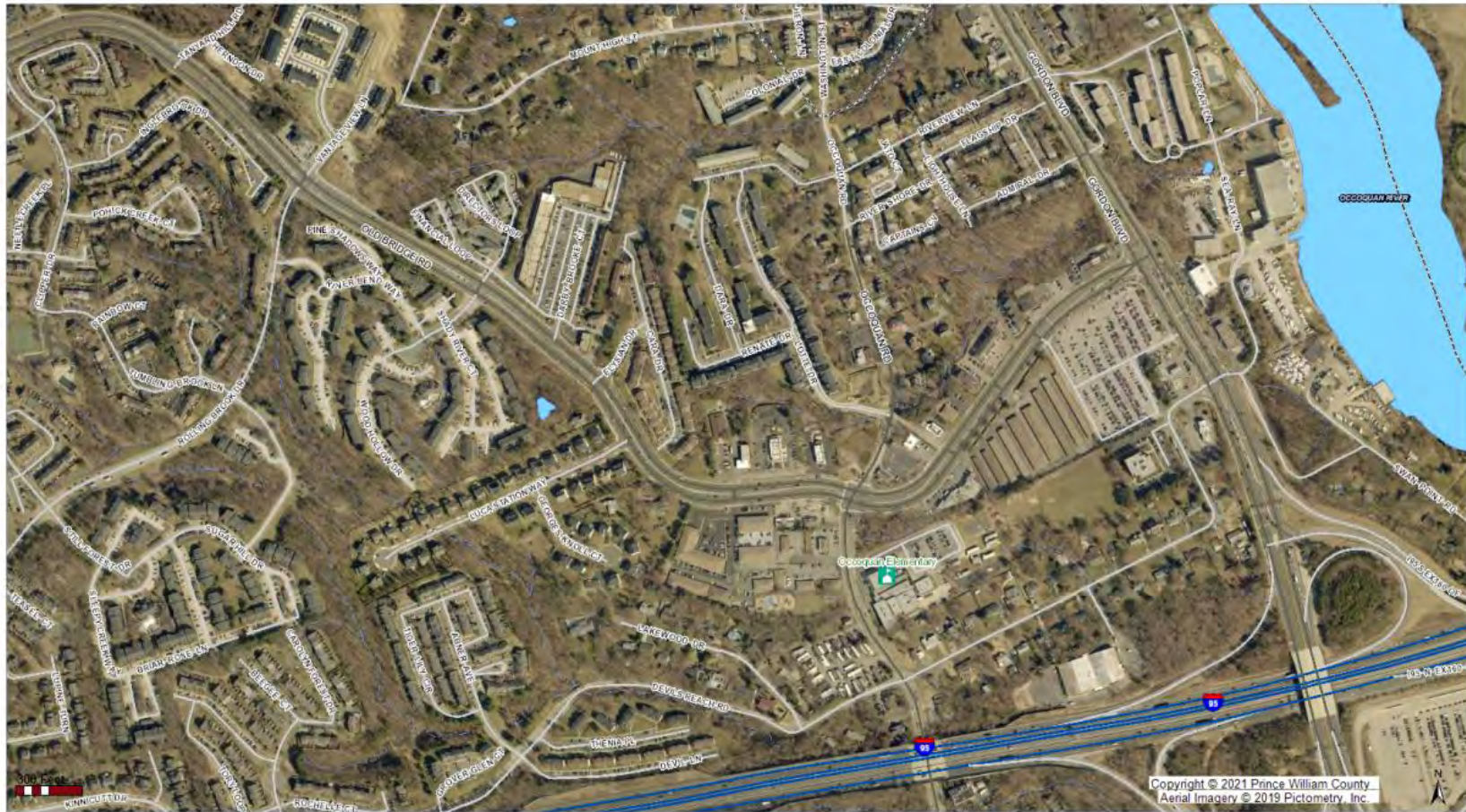


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## Map Legend

Long Range Land Use			
AE Agricultural or Estate	AF Agricultural / Forestal District	CEC Community Employment Center	CMU Community Mixed Use
CR Convenience Retail	CRHS County Registered Historical Site	CTY City	DCR Designated Cultural Resource
EI Industrial Employment	ER Environmental Resource, Chesapeake Bay RPA and 100 Year Floodplain	FEC Flexible Use Employment Center	FED Federal
GC General Commercial	HDN High-Density Neighborhood	MTN Mass Transit Node	NC Neighborhood Commercial
NMU Neighborhood Mixed-Use	O Office	OMU Office Mixed-Use	P&OS Parks and Open Space
PFO Public Facility / Office	PL Public Land	POSA Parks and Open Space Active	POSP Parks and Open Space Passive
RC Residential Community	RCC Regional Commercial Center	REC Regional Employment Center	RPC Residential Planned Community
RR Rail Road Community	SCH School (Public)	SN Suburban Neighborhood	SRH Suburban Residential High
SRL Suburban Residential Low	SRM Suburban Residential Medium	SRR Semi-Rural Residential	TC Town Center
TF Technology/Flex	TWN Town	UMU Urban Mixed Use	UN Urban Neighborhood
URH Urban Residential High	URL Urban Residential Low	URM Urban Residential Medium	VMU Village Mixed Use
<b>Schools</b>			
Elementary	<b>Hydrography - Minor Streams</b>		
Middle/Intermediate	Intermittent	<b>Historic Sensitivity Areas</b>	
High	Perennial	<b>Domestic Fowl Overlay District</b>	
Alternative	<b>Hydrography - Lakes, Rivers, Ponds and Major Streams</b>		
Traditional and K-8	Hydrography - Lakes, Rivers, Ponds and Major Streams	<b>Places of Worship</b>	
Special Education	Parks & Recreation	<b>Shopping Centers</b>	
	Roadways - Edges	<b>Trails</b>	
	<b>Historic Overlay District</b>		

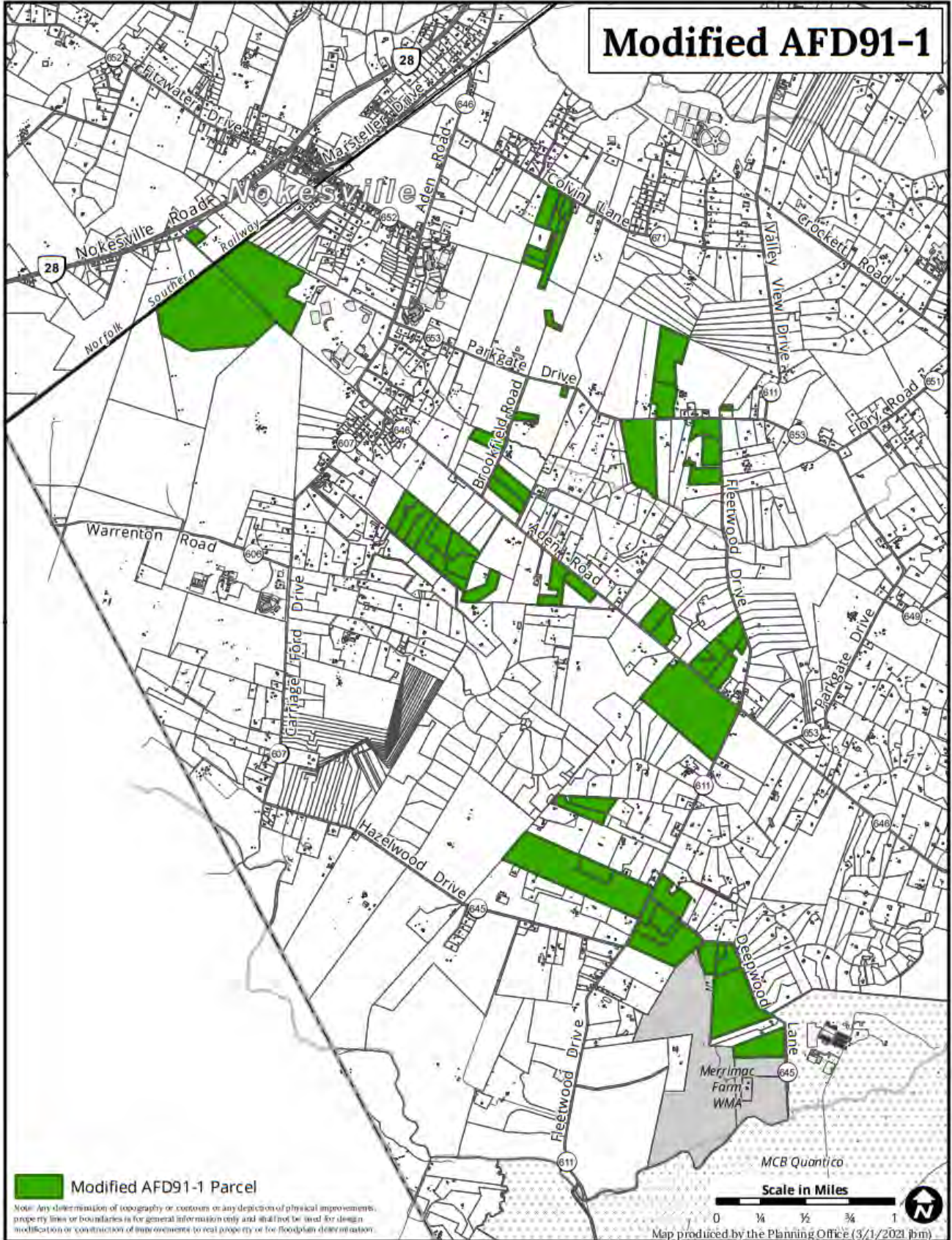


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## Map Legend

<b>Schools</b>	<b>Roadways - All</b>	<b>Hydrography - Minor Streams</b>
 Elementary	 Streets	 Intermittent
 Middle/Intermediate	 Arterials	 Perennial
 High	 Primary Highways	 <b>Jurisdictions</b>
 Alternative	 Interstates	 <b>Agricultural and Forestal Districts</b>
 Traditional and K-8	 <b>Hydrography - Lakes, Rivers, Ponds and Major Streams</b>	
 Special Education	 <b>Railroads</b>	

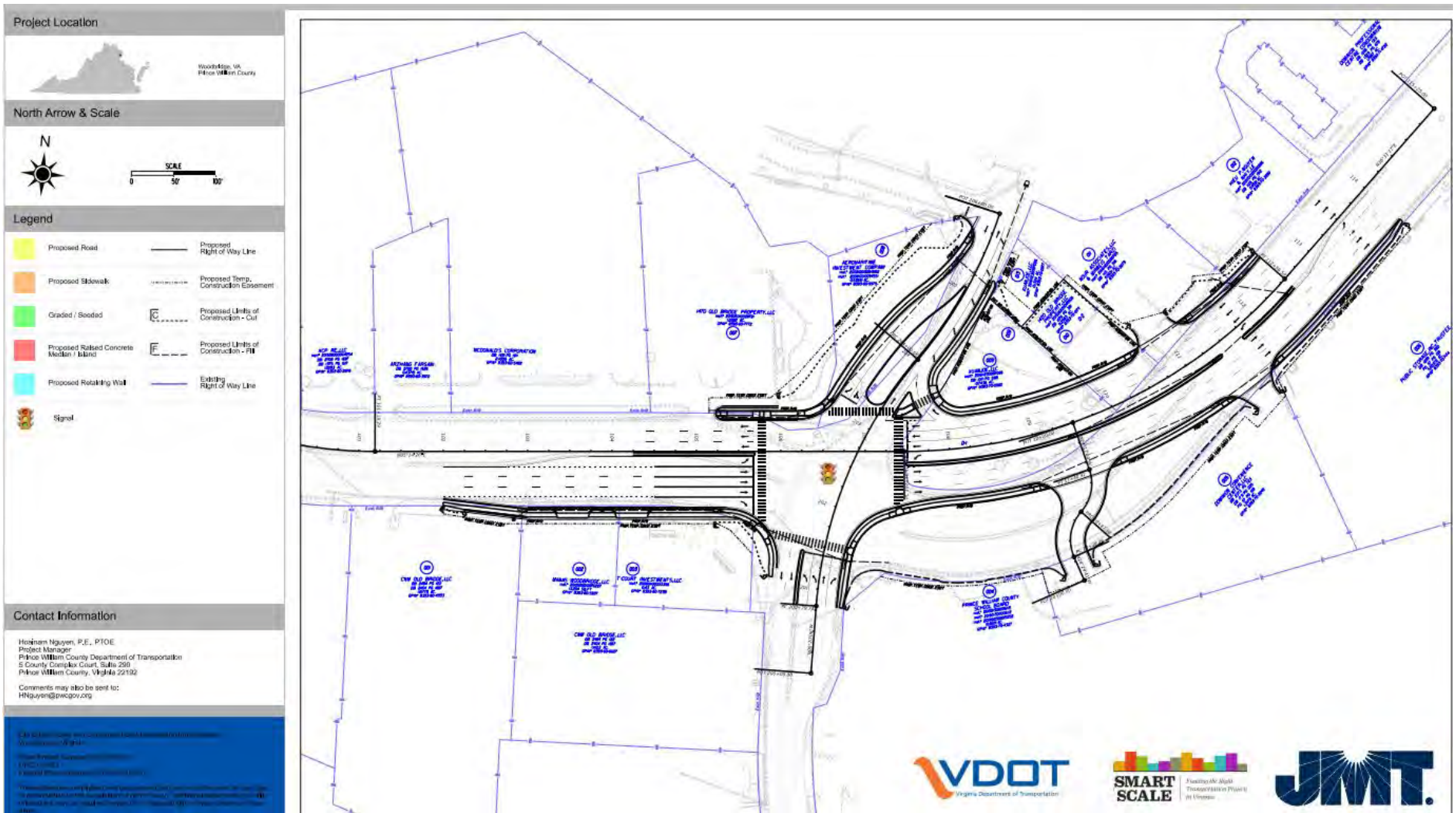
# Modified AFD91-1



PRELIMINARY  
RIGHT OF WAY DATA SHEET

City/County: PRINCE WILLIAM COUNTY  
UPC No.: 115553

PARCEL NO.	LANDOWNER	SHEET NO.	AREA (Areas greater than or equal to 1 acre will be shown in acres to 3 decimal places (x.xxx). Areas less than 1 acre will be shown in square feet (x,xxx).)												PROFFERS YES / NO	
			TOTAL	FEE TAKING	PRESCRIPTIVE R/W		FEE REMAINDER	EASEMENTS				PROFFERS				
					ACRES OR SQUARE FEET	ACRES OR SQ. FEET		ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS	ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS		ACRES OR SQ. FEET	HECTARES/ OR SQ. METERS		TEMPORARY
001	CNM OLD BRIDGE, LLC		1.8778 AC	925 SF			1.797 AC						607 SF			NO
002	MANAS WOODBRIDGE, LLC		13,264 SF	1862 SF			11,402 SF						578 SF			NO
003	T-COURT INVESTMENTS, LLC		0.43 AC	1780 SF			16,951 SF						1,367 SF			NO
004	PRINCE WILLIAM COUNTY SCHOOL BOARD		10,8901 AC				10,8901 AC						956 SF			NO
005	DOMINION CONVENIENCE CENTER, LLC		1.31179 AC				1.31179 AC						6,329 SF			NO
006	PUBLIC STORAGE, INC., TRUSTEE		5.00378 AC	823 SF			4,985 AC						1,769 SF			NO
007	1470 OLD BRIDGE PROPERTY, LLC		1.2882 AC	1695 SF			1,249 AC						4,554 SF			NO
008	AEROMARTIME INVESTMENT COMPANY		0.53691 AC	9347 SF			14,040 SF						8,231 SF			NO
009	XUANJOE, LLC		0.7436 AC	32,038 SF			0									NO
010	1420 OLD BRIDGE PROPERTY, LLC		0.2583 AC	11,250 SF			0									NO
011	HOUR ASSOCIATES, LLC & MRWEDS TARZI		0.5651 AC	1,782 SF			22,833 SF						4,565 SF			NO
012	HIEU P. NGUYEN & MMY LE		0.4591 AC	92 SF			19,907 SF						439 SF			NO
013	XUANJOE, LLC		0.1324 AC	31 SF			5,736 SF						1,569 SF			NO





# COMMONWEALTH of VIRGINIA

## Department of Historic Resources

2801 Kensington Avenue, Richmond, Virginia 23221


Matt Strickler  
Secretary of Natural and  
Historic Resources

Julie V. Langan  
Director  
Tel: (804) 482-6446  
Fax: (804) 367-2391  
www.dhr.virginia.gov

### MEMORANDUM

**DATE:** 7 July 2021 **DHR File #** 2021-4075

**TO:** Mr. Steven Swarr  
JMT

**FROM:**  Marc E. Holma, Architectural Historian (804) 482-6090  
Review and Compliance Division

**PROJECT:** Old Bridge Road and Occoquan Road Intersection Improvement Project (UPC 115553), Prince William County

This project will have an effect on historic resources. Based on the information provided, the effect will not be adverse.

This project will have an adverse effect on historic properties. Further consultation with DHR is needed under Section 106 of the NHPA.

Additional information is needed before we will be able to determine the effect of the project on historic resources. **Please see below.**

No further identification efforts are warranted. No historic properties will be affected by the project. Should unidentified historic properties be discovered during implementation of the project, please notify DHR.

We have previously reviewed this project. Attached is a copy of our correspondence.

Other (Please see comments below)

### COMMENTS:

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  
Tel: (540) 868-7029  
Fax: (540) 868-7033

Eastern Region Office  
2801 Kensington Avenue  
Richmond, VA 23221  
Tel: (804) 367-2323  
Fax: (804) 367-2391