

6669 Short Lane
Gloucester, VA 23061-4410

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. [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.

The following species are potentially affected by activities in this location:

Mammals

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

Insects

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

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

Migratory birds

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

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

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

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

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

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

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Sep 1 to Jul 31
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 25
Eastern Whip-poor-will <i>Antrostomus vociferus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 1 to Aug 20

Prairie Warbler *Dendroica discolor*

Breeds May 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Red-headed Woodpecker *Melanerpes erythrocephalus*

Breeds May 10 to Sep 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Wood Thrush *Hylocichla mustelina*

Breeds May 10 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

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

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

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

probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

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

Survey Effort (|)

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

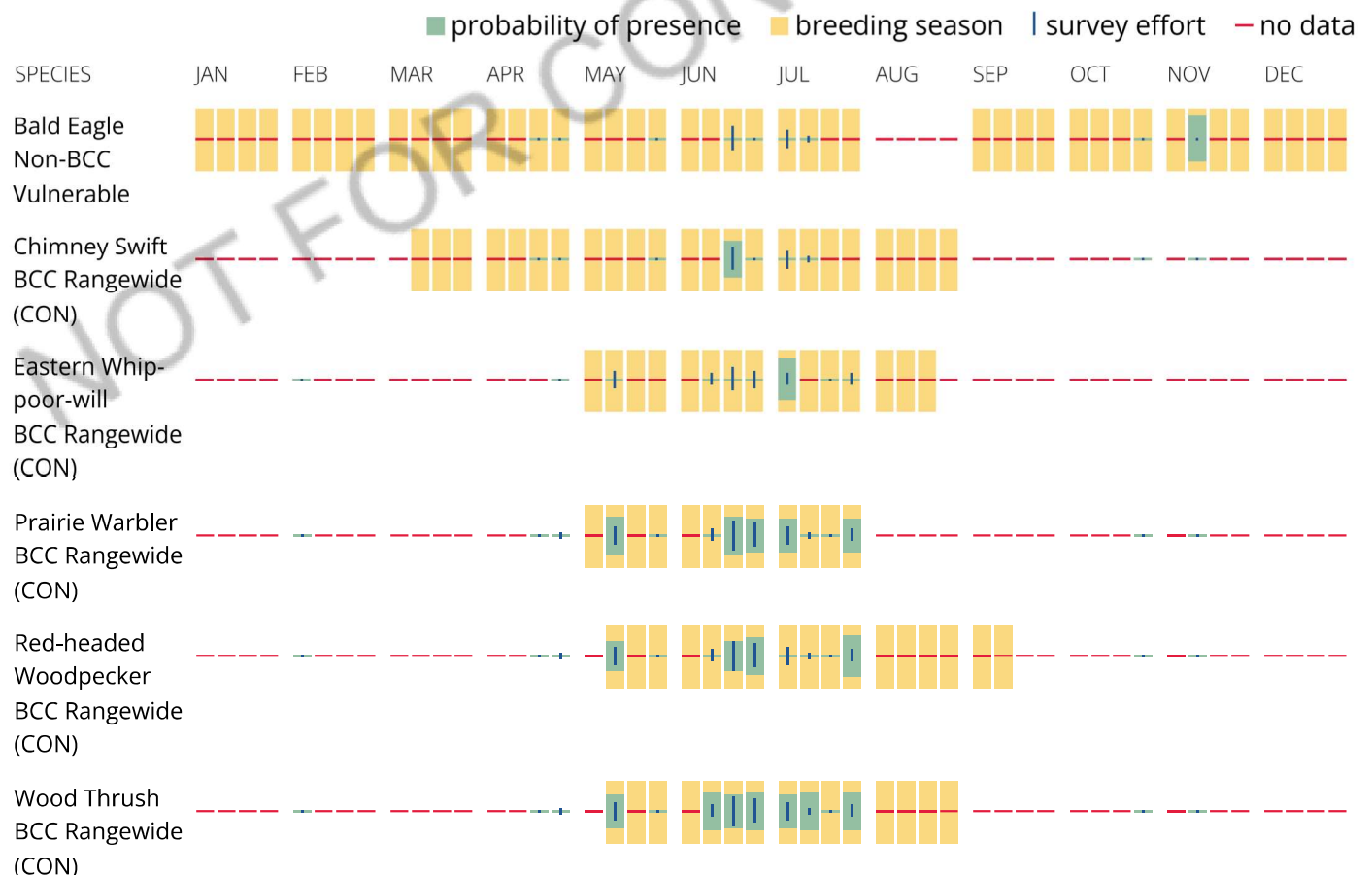
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (—)

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

Survey Timeframe

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



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

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

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

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

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

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

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

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

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

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

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

more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Coastal Barrier Resources System

Projects within the [John H. Chafee Coastal Barrier Resources System](#) (CBRS) may be subject to the restrictions on Federal expenditures and financial assistance and the consultation requirements of the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 et seq.). For more information, please contact the local [Ecological Services Field Office](#) or visit the [CBRA Consultations website](#). The CBRA website provides tools such as a flow chart to help determine whether consultation is required and a template to facilitate the consultation process.

There are no known coastal barriers at this location.

Data limitations

The CBRS boundaries used in IPaC are representations of the controlling boundaries, which are depicted on the [official CBRS maps](#). The boundaries depicted in this layer are not to be considered authoritative for in/out determinations close to a CBRS boundary (i.e., within the "CBRS Buffer Zone" that appears as a hatched area on either side of the boundary). For projects that are very close to a CBRS boundary but do not clearly intersect a unit, you may contact the Service for an official determination by following the instructions here: <https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation>

Data exclusions

CBRS units extend seaward out to either the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS data, therefore projects in the offshore areas of units (e.g., dredging, breakwaters, offshore wind energy or oil and gas projects) may be subject to CBRA even if they do not intersect the CBRS data. For additional information, please contact CBRA@fws.gov.

Facilities

National Wildlife Refuge lands

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 at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

Site Location

36,52,53.0 -78,11,47.0
is the Search Point

Show Position Rings

☐ Yes ☒ No

1 mile and 1/4 mile at the
Search Point

Show Search Area

☒ Yes ☐ No

2.49 Search distance miles
radius

Search Point is at
map center

Base Map [Choices](#)

Topography

Map Overlay [Choices](#)

Current List: Search, BECAR,
BAEANests, TEWaters, TierII,
Habitat, Trout, Anadromous

Map Overlay Legend

[back](#)
Map
Click

Pan Id M

Map
Scale

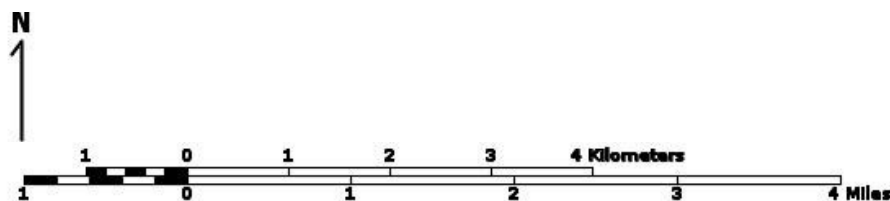
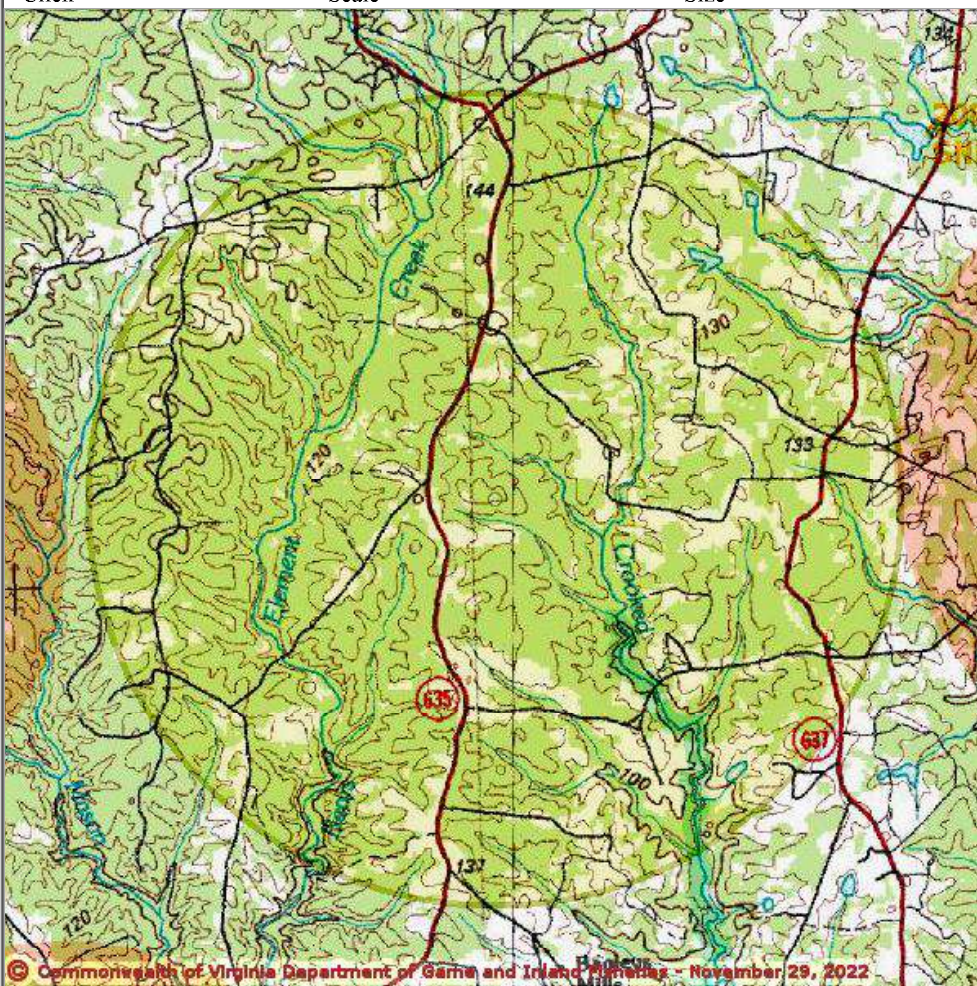
In Zoom Out

Refresh Browser Page

Screen
Size

Small Size Big

[Help](#)



Point of Search 36,52,53.0 -78,11,47.0

Map Location 36,52,53.0 -78,11,47.0

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

Base Map source: USGS 1:100,000 topographic maps (see [Microsoft terrasserver-usa.com](https://microsoft.terrasserver-usa.com) for details)

Map projection is UTM Zone 17 NAD 1983 with left 745069 and top 4090185. Pixel size is 16 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 600 columns by 600 rows for a total of 360000 pixels. The map display represents 9600 meters east to west by 9600 meters north to south for a total of 92.1 square kilometers. The map display represents 31501 feet east to west by 31501 feet north to south for a total of 35.5

T & E Waters

Federal

State

Predicted Habitat WAP Tier I & II

Aquatic

Terrestrial

Trout Waters

Class I - IV

Class V - VI

Anadromous Fish Reach

Confirmed

Potential

J23 Impediment



2.5 mile radius
Search Area

Bald Eagle Concentration Areas and Roosts

Bald Eagle nests
660 and 330 foot
management zones

Data
Observation Site

square miles.

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

Shaded topographic maps are from TOPO! ©2006 National Geographic

<http://www.national.geographic.com/topo>

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

map assembled 2022-11-29 10:04:24 (qa/qc March 21, 2016 12:20 - tn=1443180.0 dist=4022 I)

Spoi=36.8813889 -78.1963889

VaFWIS Initial Project Assessment Report

Compiled on 11/29/2022,
10:07:28 AM

[Help](#)

Known or likely to occur within a **2.5 mile radius around point 36.8813889 -78.1963889**
in **111 Lunenburg County, VA**

[View Map of
Site Location](#)

395 Known or Likely Species ordered by Status Concern for Conservation
(displaying first 21) (21 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon		BOVA
010214	FESE	IIa	Logperch, Roanoke	Percina rex		BOVA
050022	FTST	Ia	Bat, northern long-eared	Myotis septentrionalis		BOVA
060173	FTST	Ia	Pigtoe, Atlantic	Fusconaia masoni		BOVA,Habitat
060029	FTST	IIa	Lance, yellow	Elliptio lanceolata		BOVA
050020	SE	Ia	Bat, little brown	Myotis lucifugus		BOVA
050027	FPSE	Ia	Bat, tri-colored	Perimyotis subflavus		BOVA
060006	SE	Ib	Floater, brook	Alasmidonta varicosa		BOVA
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus		BOVA
040385	ST	Ia	Sparrow, Bachman's	Peucaea aestivalis		BOVA
060081	ST	IIa	Floater, green	Lasmigona subviridis		BOVA
010070	ST	IIc	Shiner, whitemouth	Notropis alborus		BOVA
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
030063	CC	IIIa	Turtle, spotted	Clemmys guttata		BOVA
010174		Ia	Bass, Roanoke	Ambloplites cavifrons		BOVA,Habitat
020002		IIa	Treefrog, barking	Hyla gratiosa		BOVA
040052		IIa	Duck, American black	Anas rubripes		BOVA
040320		IIa	Warbler, cerulean	Setophaga cerulea		BOVA
040140		IIa	Woodcock, American	Scolopax minor		BOVA
060071		IIa	Lampmussel, yellow	Lampsilis cariosa		BOVA
040105		IIb	Rail, king	Rallus elegans		BOVA

To view **All 395 species** [View 395](#)

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

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need;
III=VA Wildlife Action Plan - Tier III - High Conservation Need;
IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need
Virginia Wildlife Action Plan Conservation Opportunity Ranking:
a - On the ground management strategies/actions exist and can be feasibly implemented.;

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

Bat Colonies or Hibernacula: **Not Known**

Anadromous Fish Use Streams

N/A

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters

N/A

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests

N/A

Habitat Predicted for Aquatic WAP Tier I & II Species (2 Reaches)

[View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species](#)

Stream Name	Tier Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
Crooked Creek (03010204)	FTST	010174		Ia	Bass, Roanoke	Ambloplites cavifrons	Yes
		060173	FTST	Ia	Pigtoe, Atlantic	Fusconaia masoni	
Crooked Creek (03010204)	FTST	060173	FTST	Ia	Pigtoe, Atlantic	Fusconaia masoni	Yes
Crooked Creek	FTST	060173	FTST	Ia	Pigtoe,	Fusconaia	Yes

(03010204)					Atlantic	masoni	
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Habitat Predicted for Terrestrial WAP Tier I & II Species

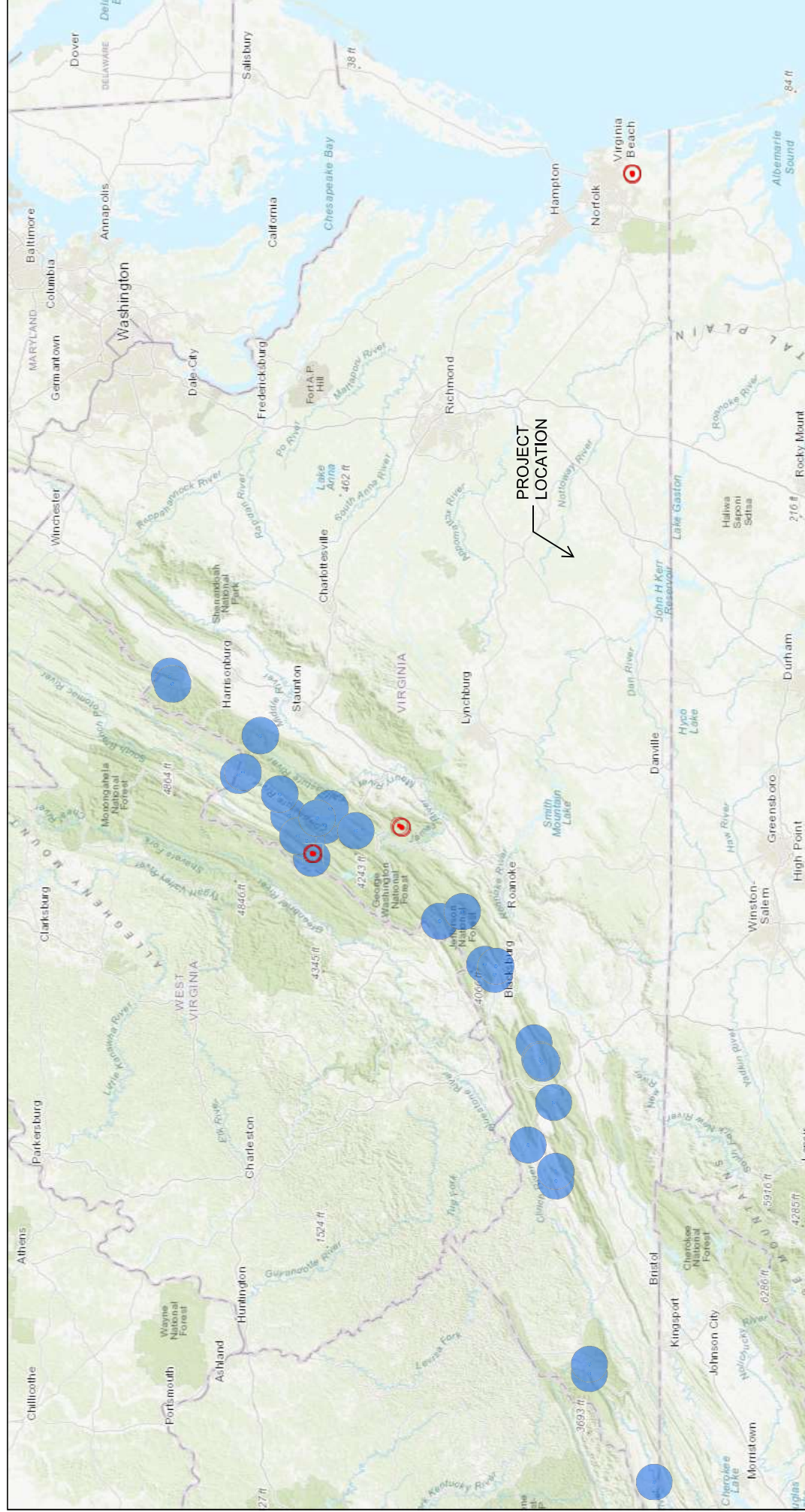
N/A

Public Holdings:

N/A

Compiled on 11/29/2022, 10:07:28 AM I1443180.0 report=IPA searchType= R dist= 4022 poi= 36.8813889 -78.1963889
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NLEB Locations and Roost Trees



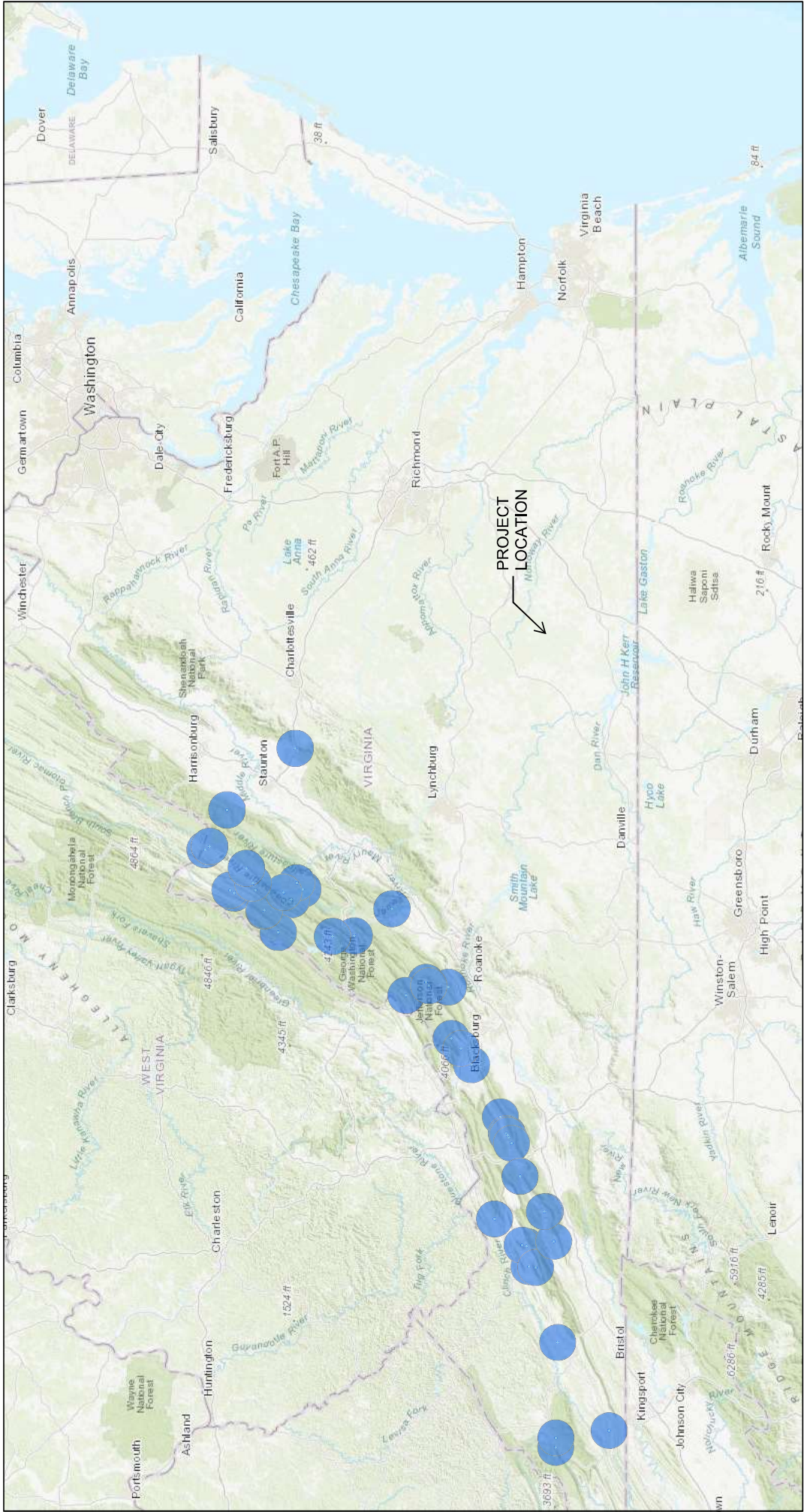
11/21/2022, 1:38:20 PM

1:2,311,162

0 20 40 80 mi
0 35 70 140 km

Esri, HERE, Garmin, FAO, USGS, EPA, NPS

TRI-COLORED AND LITTLE BROWN BAT LOCATIONS AND ROOST TREES



11/21/2022, 1:46:25 PM

- Tri-colored and Little Brown Hibernaculum Half Mile Buffer
- Tri-colored and Little Brown Hibernaculum 5.5 Mile Buffer

1:2,311,162

Esri, HERE, Garmin, FAO, USGS, EPA, NPS



Department of Conservation & Recreation

[CONSERVING VIRGINIA'S NATURAL & RECREATIONAL RESOURCES](#)

PROJECT INFORMATION

TITLE: Lunenburg Solar

DESCRIPTION: Development of solar facility

EXISTING SITE CONDITIONS: Pine plantation

QUADRANGLES: Kenbridge West

COUNTIES: Lunenburg

Latitude/Longitude (DMS): 36° 52' 54.2954" N / 78° 11' 48.2172" W

Acreage: 108 acres

Comments:

REQUESTOR INFORMATION

Priority: N

Tier Level: Tier II Plus

Tax ID:

Contact Name: Tim Davis

Company Name: VHB, Inc.

Address: 351 McLaws Circle, Suite 3

City: Williamsburg

State: VA

Zip: 23185

Phone: 757-220-0500

Fax: 757-903-2794

Email: tdavis@vhb.com

Web Project ID: WEB00000019083

Client Project Number:

Conservation Site	Site Type	Brank	Acreage	Listed Species Presence	Essential Conservation Site?
Natural Heritage Screening Features Intersecting Project Boundary					

Site Name	Group Name	Common Name	Scientific Name	GRANK	SRANK	Fed Status	Species of Concern	State Status	EO Rank	Last Obs Date	Precision
Natural Heritage Resources Intersecting Project Boundary											

Intersecting Predictive Models											
Predictive Model Results											

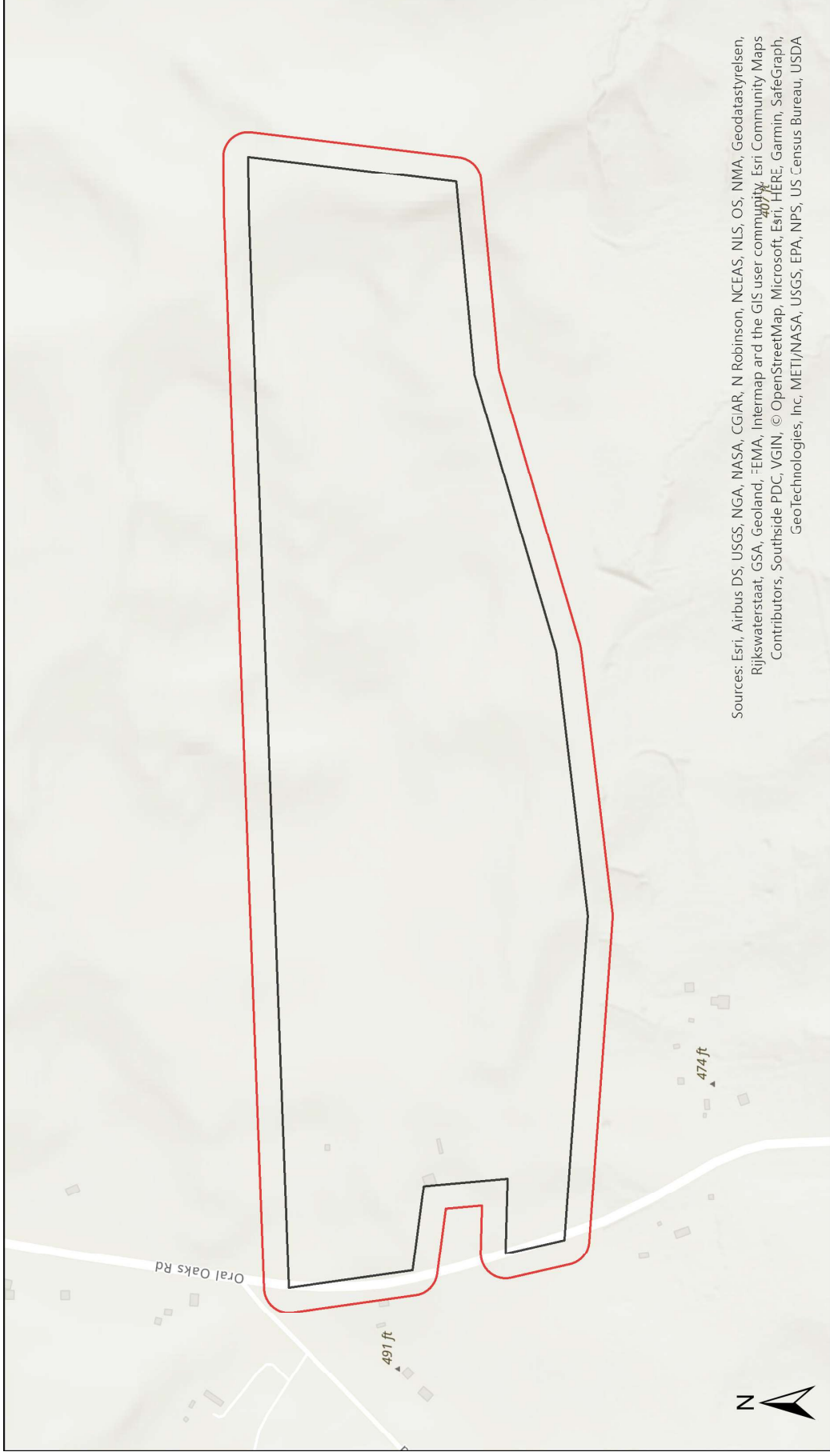
In addition, the proposed project will impact an Ecological Core(s) C3 as identified in the Virginia Natural Landscape Assessment (<https://www.dcr.virginia.gov/natural-heritage/vaconvisvnl>). Mapped cores in the project area can be viewed via the Virginia Natural Heritage Data Explorer, available here: <http://vanhde.org/content/map>.

Ecological Cores are areas of at least 100 acres of continuous interior, natural cover that provide habitat for a wide range of species, from interior-dependent forest species to habitat generalists, as well as species that utilize marsh, dune, and beach habitats. Interior core areas begin 100 meters inside core edges and continue to the deepest parts of cores. Cores also provide the natural, economic, and quality of life benefits of open space, recreation, thermal moderation, water quality (including drinking water recharge and protection, and erosion prevention), and air quality (including sequestration of carbon, absorption of gaseous pollutants, and production of oxygen). Cores are ranked from C1 to C5 (C5 being the least significant) using nine prioritization criteria, including the habitats of natural heritage resources they contain.

Impacts to cores occur when their natural cover is partially or completely converted permanently to developed land uses. Habitat conversion to development causes reductions in ecosystem processes, native biodiversity, and habitat quality due to habitat loss; less viable plant and animal populations; increased predation; and increased introduction and establishment of invasive species.

DCR recommends avoidance of impacts to cores. When avoidance cannot be achieved, DCR recommends minimizing the area of impacts overall and concentrating the impacted area at the edges of cores, so that the most interior remains intact.

Lunenburg Solar



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, EMA, Intermap and the GIS user community, Esri Community Maps Contributors, Southside PDC, VGIN, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

- Buffered Project Boundary
- Project Boundary

0 0.05 0.1 0.2 Miles
Scale: 1:6,396

Quads: Kenbridge West
Counties: Lunenburg

Company: VHB, Inc.
Lat/Long: 365254 / -781148



COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

The project mapped as part of this report has been searched against the Department of Conservation and Recreation's Biotics Data System for occurrences of natural heritage resources in the vicinity of the area indicated for this project. 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. In addition, the project area does not intersect any of the predictive models identifying potential habitat for natural heritage resources.

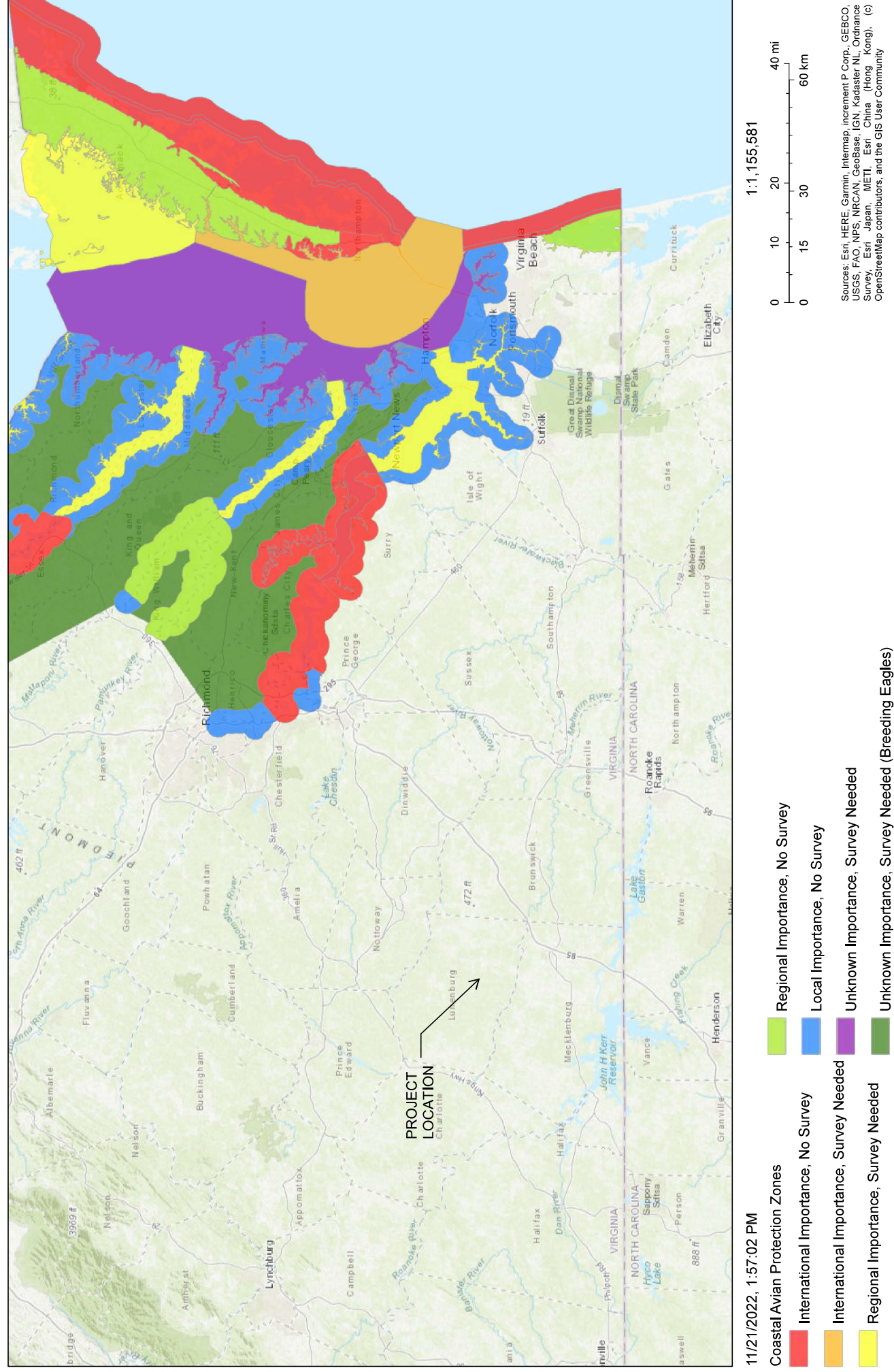
Under a Memorandum of Agreement established between the Virginia Department of Agriculture and Consumer Services (VDACS) and the Virginia Department of Conservation and Recreation (DCR), DCR represents VDACS in comments regarding potential impacts on state-listed threatened and endangered plant and insect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

Any absence of data may indicate that the project area has not been surveyed, rather than confirm that the area lacks additional natural heritage resources. New and updated information is continually added to Biotics. Please revisit this website or contact DCR for an update on this natural heritage information if a significant amount of time passes (DCR recommends no more than six months) before it is utilized.

The Virginia Department of Wildlife Resources maintains a database of wildlife locations, including threatened and endangered species, trout streams, and anadromous fish waters, that may contain information not documented in the Natural Heritage Data Explorer. Their database may be accessed from <https://services.dwr.virginia.gov/fwis/> or contact Amy Martin (804-367-2211 or amy.martin@dwr.virginia.gov).

Thank you for submitting your project to the Virginia Department of Conservation and Recreation's Natural Heritage Data Explorer Web Service. **Based on the preliminary screening results for this project, no further correspondence will be sent from this office.** Should you have any questions or concerns about this report, the Data Explorer, or other Virginia Natural Heritage Program services, please contact the Natural Heritage Project Review Unit at 804-371-2708.

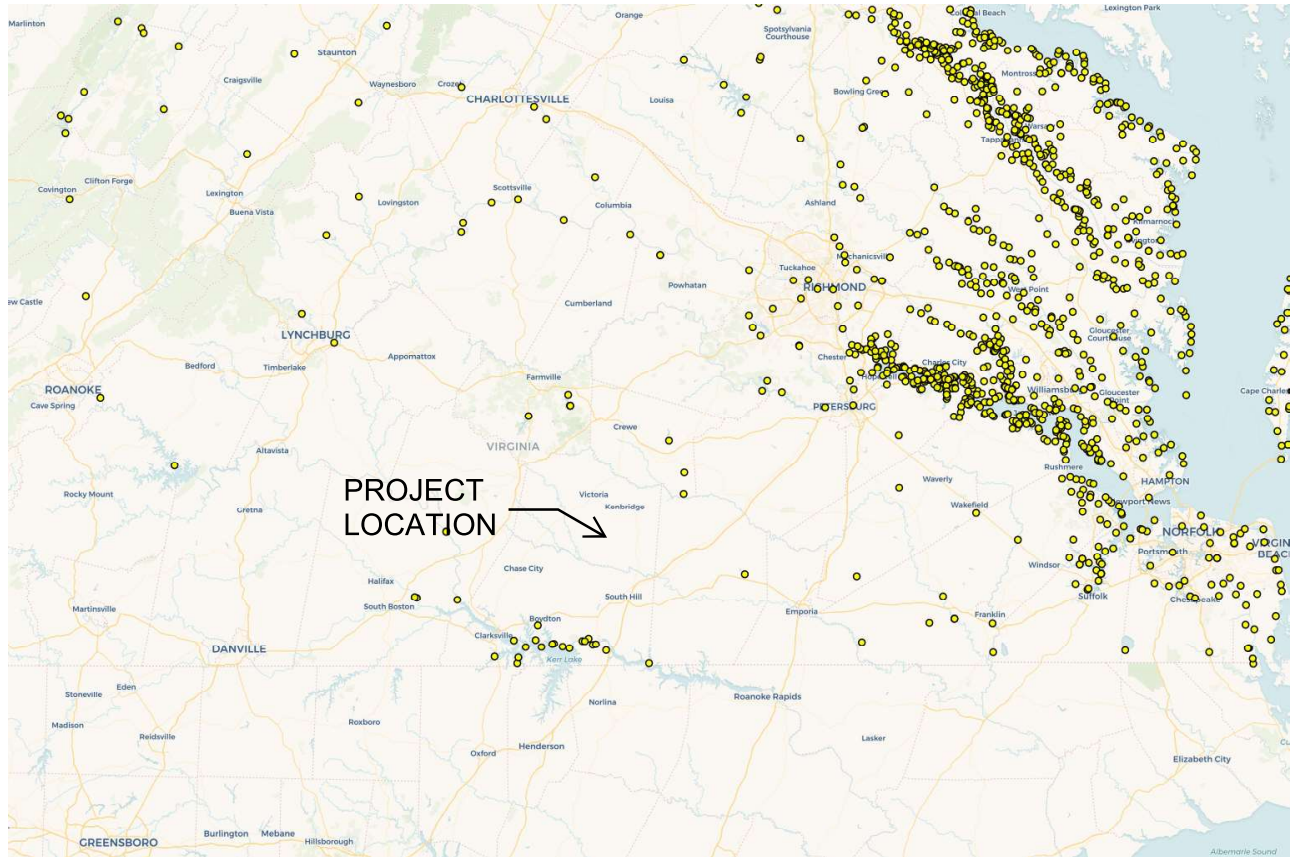
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (VDEQ) - COASTAL GEOSPATIAL AND EDUCATION MAPPING SYSTEM (GEMS)



DEQ Coastal Zone Management
All locations are approximate. Data should not be used for navigational purposes.



CCB Mapping Portal



Layers: VA Eagle Nest Locator

Map Center [longitude, latitude]: [-77.9150390625, 37.08038005833324]

Map Link:

https://ccbbirds.org/maps/#layer=VA+Eagle+Nest+Locator&zoom=9&lat=37.08038005833324&lng=-77.9150390625&legend=legend_tab_7c321b7e-e523-11e4-aaa0-0e0c41326911&base=Street+Map+%28OSM%2FCarto%29

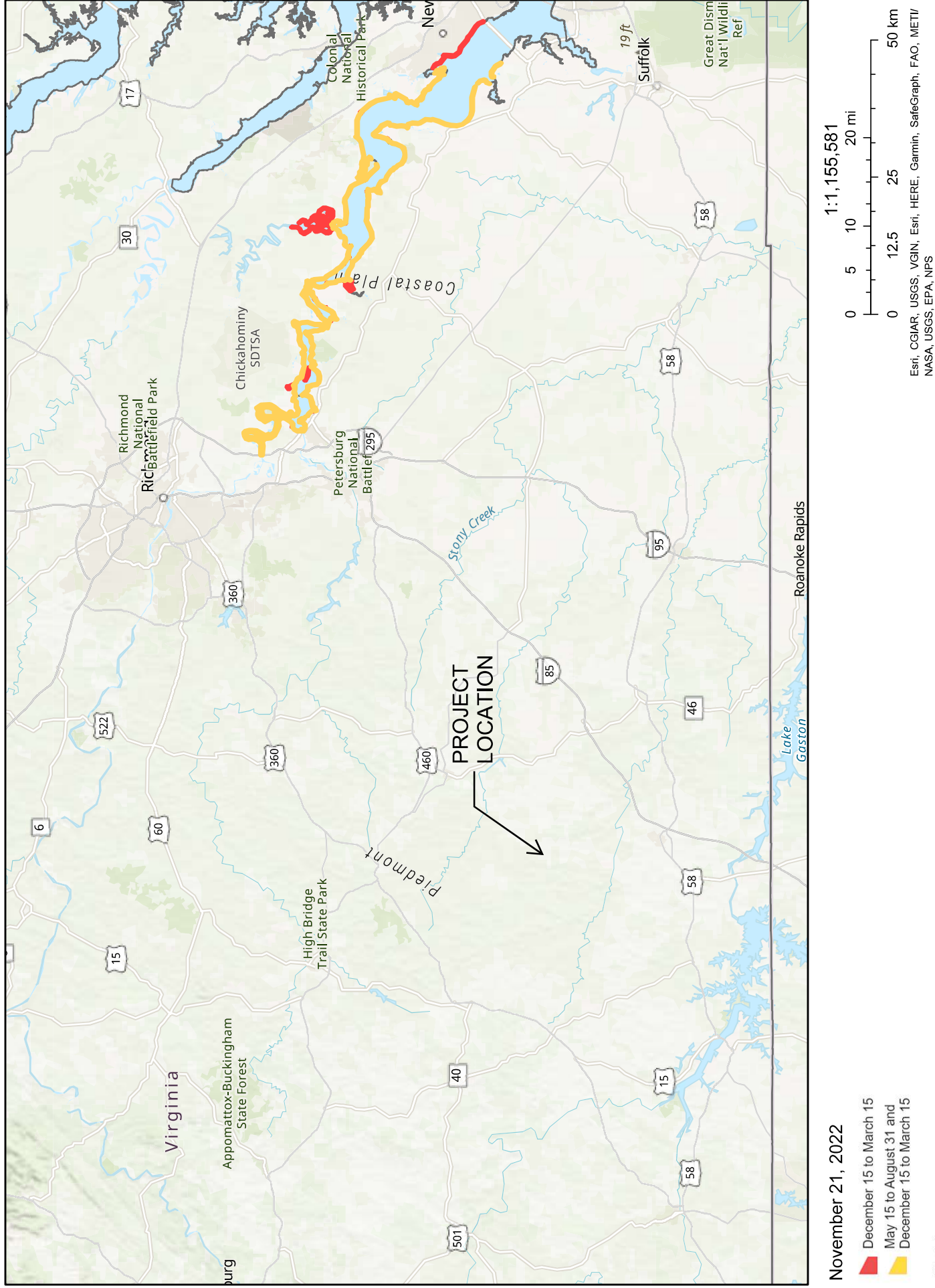
Report Generated On: 11/21/2022

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

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

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

USFWS Bald Eagle Concentration Areas - Virginia





E

Appendix E

Transportation Management Plan &
Existing Pavement Condition Inventory

Plans Prepared by Jonathan Bonghi, PE who completed
Advanced Work Zone Traffic Control Training
(Cert. No. 120121102)





115 South 15th Street
Richmond, VA 23219
804.343.7100

General Notes:

1. This project is to be constructed in accordance with the 2016 VDOT Road and Bridge Specifications, 2016 Road and Bridge Standards, 2009 MUTCD (revision 2), 2011 Virginia Work Area Protection Manual (Revision 2), and as amended by contract provisions.
2. All traffic control devices and signs necessary for maintenance of traffic are to be provided and maintained and removed by the contractor.
3. Temporary utility drainage pipe installations shall be backfilled as soon as is practicable. If backfilling is not possible, the contractor shall be responsible for the backfilling of the drainage pipe after working hours. Backfilling will be required at the conclusion of each work day.
4. Any temporary removal or covering of existing traffic signs along the project shall be the responsibility of the contractor and be performed as directed by the Engineer, and shall not be considered included in the project.
5. Travel lanes through the construction area shall be a minimum of 10 feet in width.
6. In all stages of construction, it is the contractor's responsibility to ensure that all drainage items (temporary or permanent) necessary to provide positive drainage during the construction are installed and maintained in accordance with the contract documents.
7. All flaggers must have completed VDOT flagger training and be fully certified to perform the duties. Contractor shall provide certifications on site at all times to verify flaggers have completed the necessary training.

Channelizing Devices

Channelizing devices are required for all lane closures on this project. Device spacing shall follow VA Work Area Protection Manual requirements as field conditions allow. The following are the recommended device spacings:

Location	Spacing
Merging Tapers	20 Ft
Tangents	40 Ft

Required Taper, Buffer Lengths, and Sign Spacing

In accordance with the VA Work Area Protection Manual the following are the recommended merging taper and buffer lengths to be installed in advance of the active work area:

Location	Length
Merging Taper (Flagging)	100 • 120 Ft
Longitudinal Buffer	500 Ft
Downstream Taper	100 Ft
**Sign Spacing	500 Ft

**Unposted Statutory Speed Limit = 55 MPH

TEMPORARY SIGN LEGEND

Sign	Name	Size
	W20-1	36"x36"
	W20-4	36"x36"
	W3-4	36"x36"
	W20-7	36"x36"
	G20-2(V)	48"x24"
	W11-V4	36"x36"
	R1-1	36"x36"

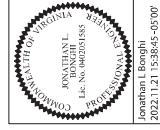


Kenbridge Solar
Lunenburg County, Virginia

Job No.	Ken-2022-001
Date	11/2/2022
Drawn By	CTD
Checked By	November 2022

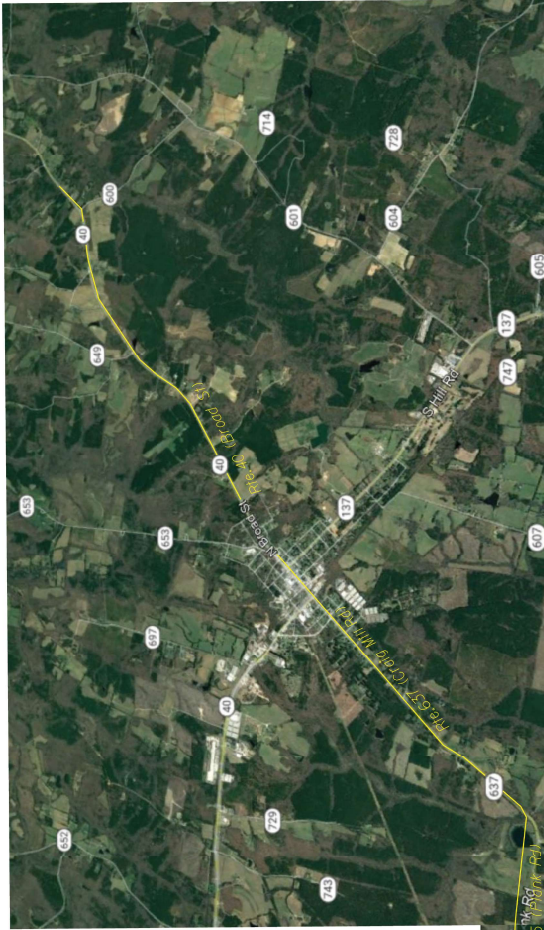
Permitting Review
November 2022

Transportation Management Plan



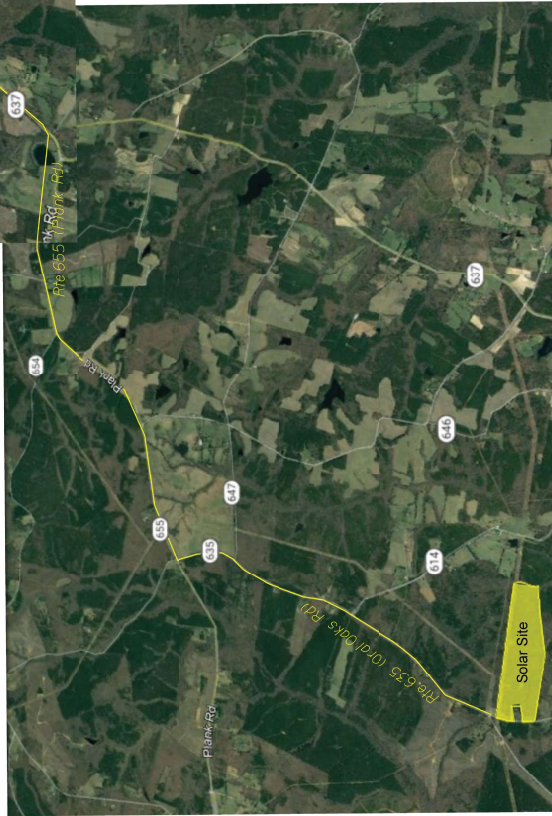
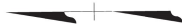
TMP 102
34823.00
2022.11.21 15:38:45 -05'00'

Construction Traffic Continues Along
Route 40 (Kenbridge Rd/Back Stone Rd) to US 460

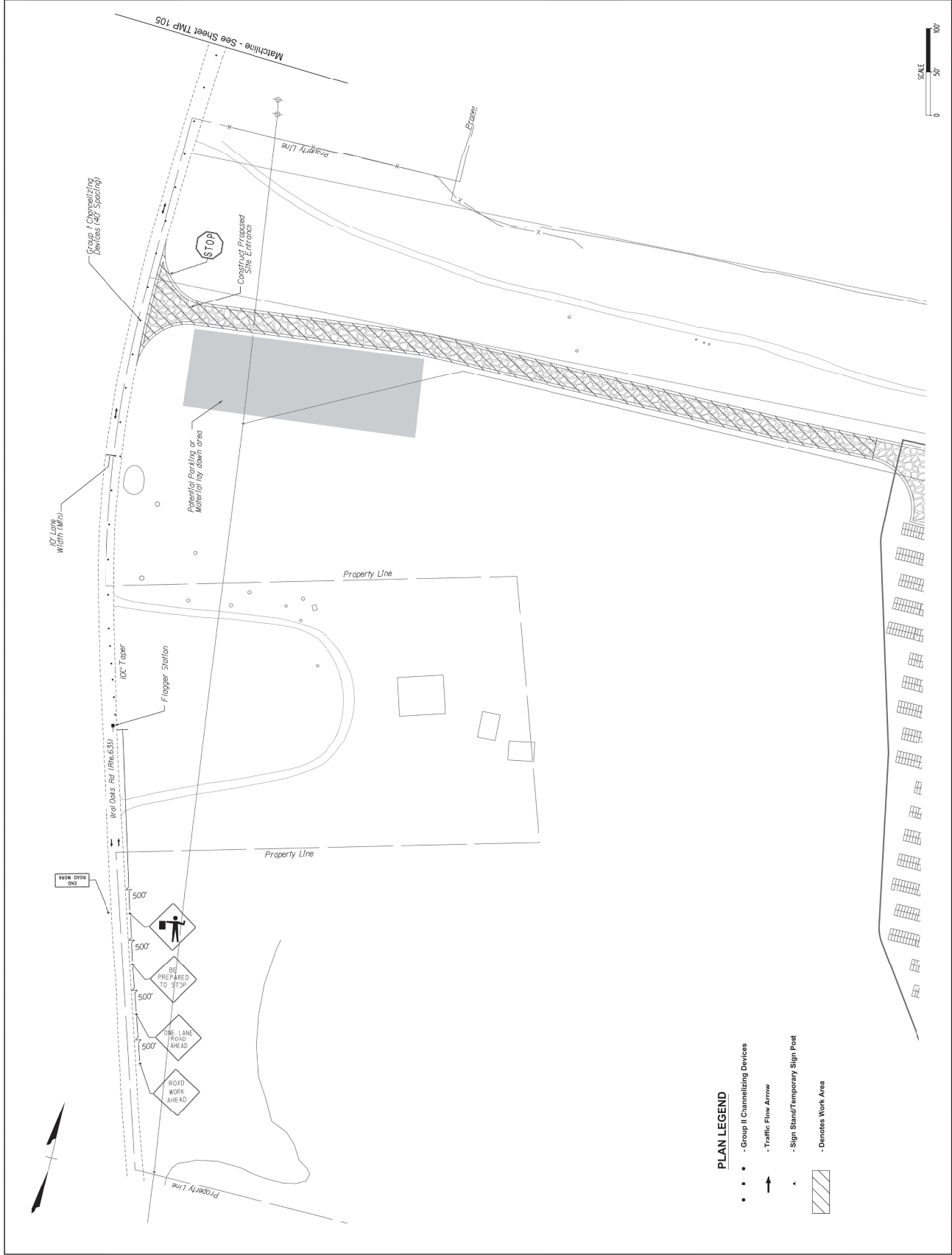


Construction Traffic Routing Notes:

1. All construction traffic (excluding personnel/passenger vehicles) must follow highlighted route shown on the map/graphic above.
2. All construction traffic shall use of secondary roadways (600/700 Routes), beyond the secondary roadways shown in the highlighted route above.
3. All personnel vehicles, including passenger vehicles, shall be parked within the site property lines. No vehicles shall be parked on VDOT Right of Way. No personnel vehicles shall be utilized in deliberate construction or work zone activities and equipped with the appropriate lights in accordance with the VA Work Area Protection Manual.



Site located at:
5844 Oral Oaks Rd
Kenbridge, VA



PLAN LEGEND

- • • - Group I Channelizing Devices
- • • - Group II Channelizing Devices
- ➔ - Traffic Flow Arrow
- - Sign Stand/Temporary Sign Post
- ▨ - Denotes Work Area



115 South 15th Street
Richmond, VA 23219
804.343.7100



Kenbridge Solar
Lunenburg County, Virginia

Rev.	Description	Date	App'd

Designed by	Checked by
JLB	CTD
Drawn by	Date
	November 2022

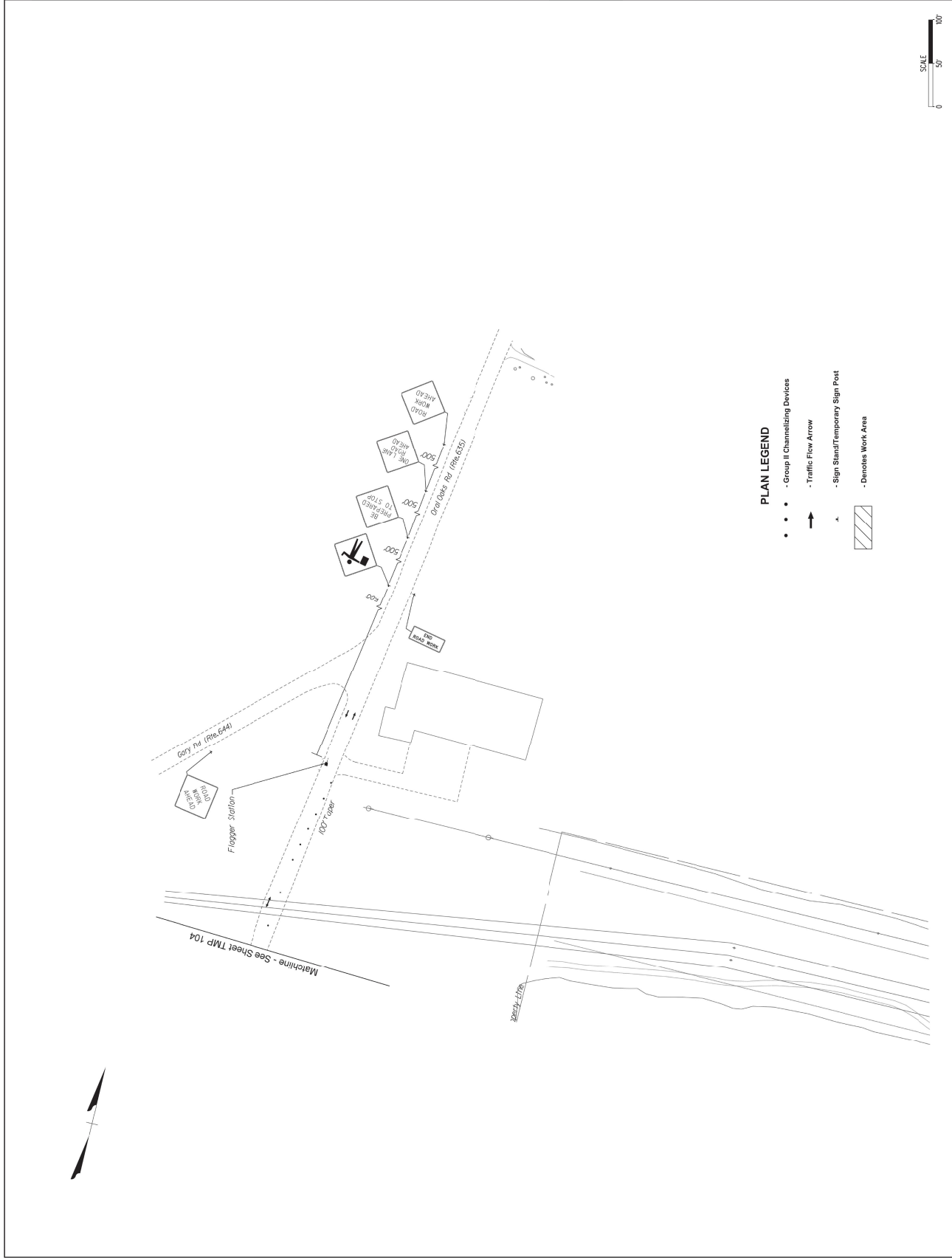
Permitting Review

Transportation Management Plan



TMP 105

34823.00





To: Taylor Newton
County of Lunenburg

Date: November 21, 2022

Memorandum

From: Jonathan Bonghi, PE

Re: Kenbridge Solar Site – Existing Pavement Condition Inventory

Taylor,

VHB performed an existing conditions inventory to observe the existing roadway conditions within the project area. The goal of the inventory was to document pre-construction pavement conditions and current traffic control devices for the secondary roadways along the proposed construction traffic route between the proposed solar site and Kenbridge, Virginia, where construction traffic will continue onto primary routes VA-40 and US-460.

VHB drove the following previously defined impacted secondary routes:

Rte. 635 (Oral Oaks Rd)

Rte. 655 (Plank Rd)

Rte. 637 (Craig Mill Rd/S. Broad St)

VHB recorded video using a GPS linked GoPro to ascertain the existing roadway conditions. VHB drove the route between the project site and the nearest primary route (Route 40) at the S. Broad St/Main Street intersection and recorded two videos running the construction route in both directions. The video labeled "Kenbridge_Direction1" is the route from north (Town of Kenbridge) to south (project site) and the video labeled "Kenbridge_Direction2" is the route filmed from south to north. VHB is providing the GoPro videos, which can be viewed with any standard video playback software. VHB is also providing the two excel files that will display an approximate location using GPS coordinates that correspond with the elapsed time of each video in minutes/seconds. To use the excels, input the desired elapsed video time into the highlighted "Input" boxes at the top of the excel sheets. Once "Enter" is hit, the "Output" row will display the GPS coordinates in Latitude and Longitude that correspond to the inputted elapsed time. The directions indicated in the title of the excels, correlate with the directions indicated in the title of the GoPro videos (Direction 1/Direction 2).

Please review the provided videos and excel spreadsheets and note the following observations on the reviewed secondary routes:

Route 635 (Oral Oaks Road) – Overall the pavement along Route 635 (Oral Oaks Road) is in good conditions with limited-to-no major physical defects observed (No Cracking, Unraveling, or Spalding). The roadway provided a relatively smooth ride and limited to no vibrations were felt/heard while driving this route. Some existing pavement patching was observed; however, these patches are in good conditions and did not appear to impact the rideability of the roadway.

Route 655 (Plank Rd) – Overall the pavement along Route 655 (Plank Road) is in fair condition with limited-to-no major physical defects observed (No Cracking, Unraveling, or Spalding). However, the roadway provided a relatively rough ride with multiple locations causing vibrations to be heard and felt while driving this route. It was noted that there is an existing logging operation along this route, which may have caused rideability issues in the existing



pavement. Some existing pavement patching was observed; however, these patches are in good conditions and did not appear to impact the rideability of the roadway.

Route 637 (Craig Mill Rd) – Overall the pavement along Route 637 (Craig Mill Rd) is in excellent condition with no major physical defects observed (No Cracking, Unraveling, or Spalding). The roadway appears to have been repaved recently and the roadway provided a smooth ride. There were no vibrations felt/heard while driving this route. No existing pavement patching was observed along this roadway.

Route 637 (S. Broad St) – Overall the pavement along Route 637 (S. Broad St) is in good conditions with limited-to-no major physical defects observed (No Cracking, Unraveling, or Spalding). The roadway provided a relatively smooth ride and limited-to-no vibrations were felt/heard while driving this route. Some existing pavement patching was observed; however, these patches are in good conditions and did not appear to impact the rideability of the roadway.



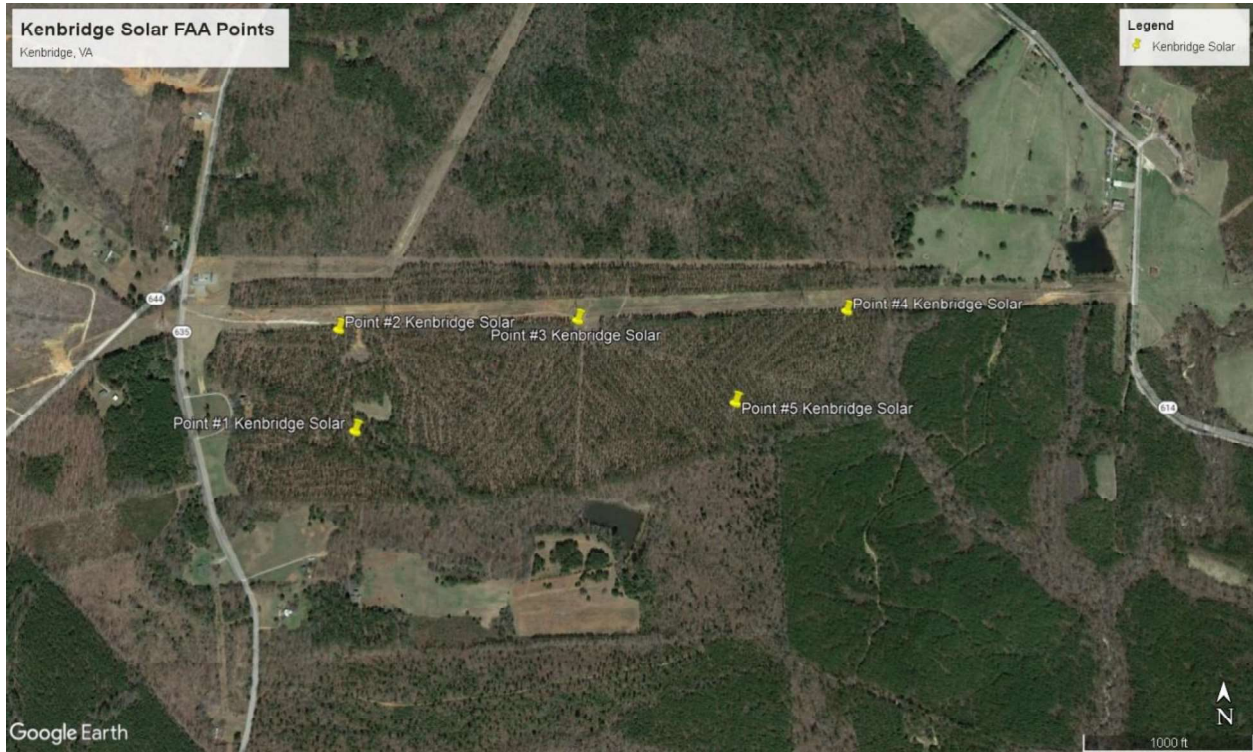
F

Appendix F

FAA Determination

FAA Determination

The Project utilized the FAA's Notice Criteria Tool to determine if the Project would exceed the Notice Criteria and potentially result in any issues with air traffic. For all five points indicated in the map below, the results were the same: "You Do Not Exceed Notice Criteria".





Notice Criteria Tool

Point 1

[Notice Criteria Tool - Desk Reference Guide V_2018.2.0](#)

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference [CFR Title 14 Part 77.9](#).

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the [FAA Co-location Policy](#)
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the [Air Traffic Areas of Responsibility map](#) for Off Airport construction, or contact the [FAA Airports Region / District Office](#) for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

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Site Elevation (SE):	<input type="text" value="441"/> (nearest foot)
Structure Height :	<input type="text" value="15"/> (nearest foot)
Traverseway:	<input type="button" value="No Traverseway ▼"/> (Additional height is added to certain structures under 77.9(c)) User can increase the default height adjustment for Traverseway, Private Roadway and Waterway
Is structure on airport:	<input checked="" type="radio"/> No <input type="radio"/> Yes

Results

You do not exceed Notice Criteria.



Notice Criteria Tool

Point 2

[Notice Criteria Tool - Desk Reference Guide V_2018.2.0](#)

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference [CFR Title 14 Part 77.9](#).

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the [FAA Co-location Policy](#)
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the [Air Traffic Areas of Responsibility map](#) for Off Airport construction, or contact the [FAA Airports Region / District Office](#) for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

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Is structure on airport:	<input checked="" type="radio"/> No <input type="radio"/> Yes

Results

You do not exceed Notice Criteria.



Notice Criteria Tool

Point 3

[Notice Criteria Tool - Desk Reference Guide V_2018.2.0](#)

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference [CFR Title 14 Part 77.9](#).

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the [FAA Co-location Policy](#)
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the [Air Traffic Areas of Responsibility map](#) for Off Airport construction, or contact the [FAA Airports Region / District Office](#) for On Airport construction.

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Structure Height :	<input type="text" value="15"/> (nearest foot)
Traverseway:	<input type="button" value="No Traverseway ▼"/> (Additional height is added to certain structures under 77.9(c)) User can increase the default height adjustment for Traverseway, Private Roadway and Waterway
Is structure on airport:	<input checked="" type="radio"/> No <input type="radio"/> Yes

Results

You do not exceed Notice Criteria.



Notice Criteria Tool

Point 4

[Notice Criteria Tool - Desk Reference Guide V_2018.2.0](#)

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference [CFR Title 14 Part 77.9](#).

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the [FAA Co-location Policy](#)
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the [Air Traffic Areas of Responsibility map](#) for Off Airport construction, or contact the [FAA Airports Region / District Office](#) for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

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Structure Height :	<input type="text" value="15"/> (nearest foot)
Traverseway:	<input type="button" value="No Traverseway ▼"/> (Additional height is added to certain structures under 77.9(c)) User can increase the default height adjustment for Traverseway, Private Roadway and Waterway
Is structure on airport:	<input checked="" type="radio"/> No <input type="radio"/> Yes

Results

You do not exceed Notice Criteria.



Notice Criteria Tool

Point 5

[Notice Criteria Tool - Desk Reference Guide V_2018.2.0](#)

The requirements for filing with the Federal Aviation Administration for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference [CFR Title 14 Part 77.9](#).

You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the [FAA Co-location Policy](#)
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
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If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the [Air Traffic Areas of Responsibility map](#) for Off Airport construction, or contact the [FAA Airports Region / District Office](#) for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

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Traverseway:	<input type="button" value="No Traverseway ▼"/> (Additional height is added to certain structures under 77.9(c)) User can increase the default height adjustment for Traverseway, Private Roadway and Waterway
Is structure on airport:	<input checked="" type="radio"/> No <input type="radio"/> Yes

Results

You do not exceed Notice Criteria.



G

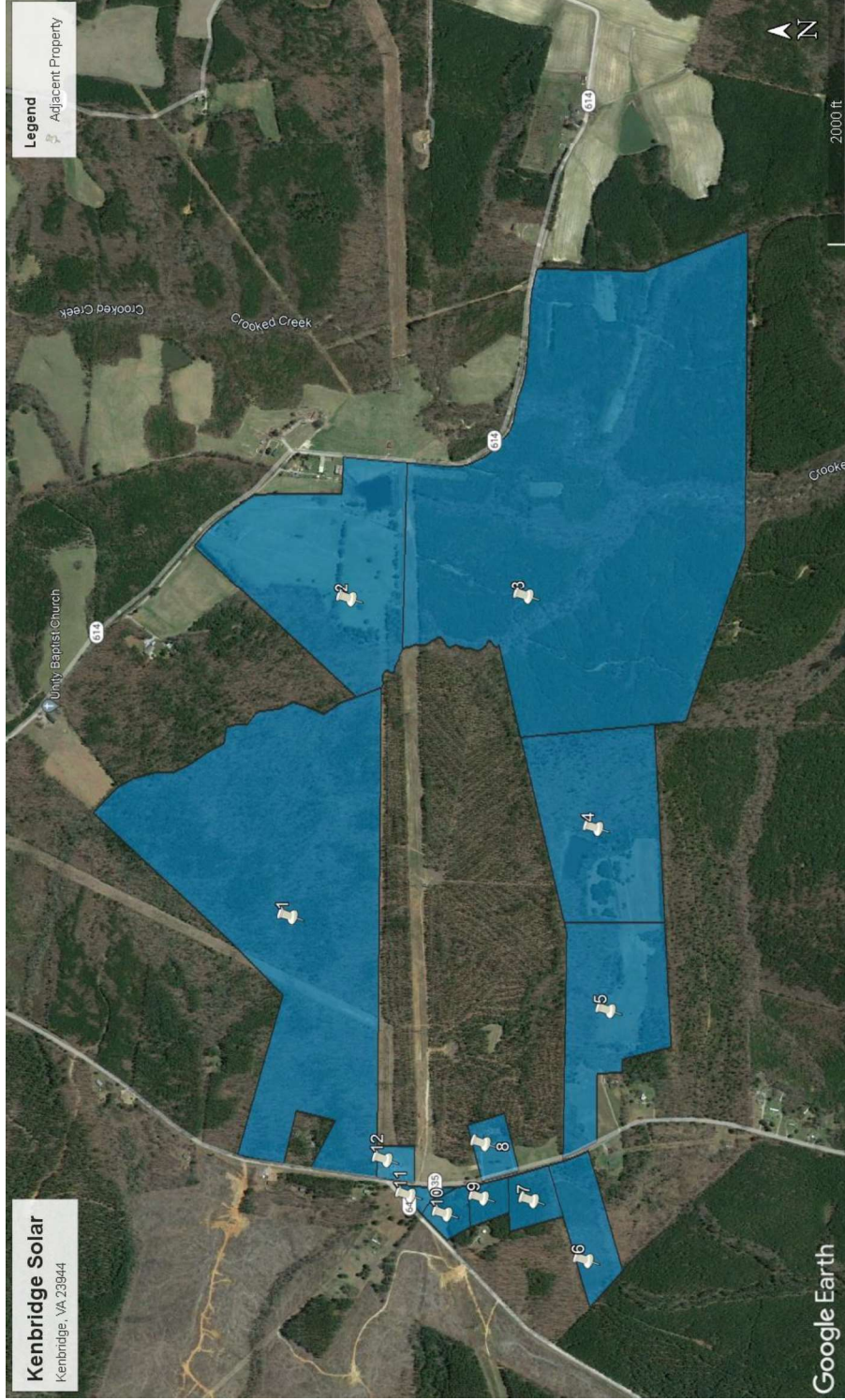
Appendix G

Adjoining Property Owner Map & Notifications



Kenbridge Solar: Adjacent Landowners

#	Parcel Number	Name(s)	Address
1	58-0A-31	Wilson Hawthorne Virginia	5844 Oral Oaks Road Kenbridge, VA 23944 [Owners Address]
2	58-0A-37A	Novak Robert or Lisa	1080 Unity Road Kenbridge, VA 23944
3	58-0A-0-39A	Strebor Farms LLC	702 South Broad Street Kenbridge, VA 23944 [Owners Address]
4	58-0A-0-288	Gustaf Joseph Terry II	5642 Oral Oaks Road Kenbridge, VA 23944 [Owners Address]
5	58-0A-27	Gustaf Joseph Terry II	5642 Oral Oaks Road Kenbridge, VA 23944
6	058-03-0-D	Phillips Jason A or Beth A	596 Saint Johns Church Road Kenbridge, VA 23944 [Owners Address]
7	058-03-0-C	Langford Vernon L or Ora Regina,	443 Northview Lane Crestview, FL 32536 [Owners Address]
8	58-0A-29A	Wilson Hawthorne Virginia	5844 Oral Oaks Road Kenbridge, VA 23944
9	058-0A-0-24A	Bledsoe Rhodessa Tisdale,	22061 Lake Jordan Drive Petersburg, VA 23803 [Owners Address]
10	058-0A-0-24C	Killen Jerry W	5717 Fitztown Road Virginia Beach, VA 23457 [Owners Address]
11	058-0A-0-24	Lunenburg County Virginia	1800 Gary Road Kenbridge, VA 23944
12	58-0A-30	Electric Power Sub- Station	Null





MONTICELLO
5219 MONTICELLO AVE
WILLIAMSBURG, VA 23188-9998
(800)275-8777

03/09/2023

01:51 PM

Product	Qty	Unit Price	Price
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Priority Mail®	1		\$9.65
Window FR Env			
Crestview, FL 32536			
Flat Rate			
Expected Delivery Date			
Mon 03/13/2023			
Tracking #:			
9505 5157 9941 3068 3648 06			
Insurance		\$0.00	
Up to \$100.00 included			
Total			\$9.65

Priority Mail®	1		\$9.65
Window FR Env			
Kenbridge, VA 23944			
Flat Rate			
Expected Delivery Date			
Sat 03/11/2023			
Tracking #:			
9505 5157 9941 3068 3648 20			
Insurance		\$0.00	
Up to \$100.00 included			
Total			\$9.65

Priority Mail®	1		\$9.65
Window FR Env			
Virginia Beach, VA 23457			
Flat Rate			
Expected Delivery Date			
Sat 03/11/2023			
Tracking #:			
9505 5157 9941 3068 3648 44			
Insurance		\$0.00	
Up to \$100.00 included			
Total			\$9.65

Priority Mail®	1		\$9.65
Window FR Env			
Kenbridge, VA 23944			
Flat Rate			
Expected Delivery Date			
Sat 03/11/2023			
Tracking #:			
9505 5157 9941 3068 3648 68			
Insurance		\$0.00	
Up to \$100.00 included			
Total			\$9.65

Priority Mail®	1		\$9.65
Window FR Env			
Kenbridge, VA 23944			
Flat Rate			
Expected Delivery Date			
Sat 03/11/2023			
Tracking #:			
9505 5157 9941 3068 3648 82			
Insurance		\$0.00	
Up to \$100.00 included			
Total			\$9.65

Priority Mail®	1		\$9.65
Window FR Env			
Kenbridge, VA 23944			
Flat Rate			
Expected Delivery Date			
Sat 03/11/2023			
Tracking #:			
9505 5157 9941 3068 3649 05			
Insurance		\$0.00	
Up to \$100.00 included			
Total			\$9.65

Priority Mail®	1		\$9.65
Window FR Env			
Kenbridge, VA 23944			
Flat Rate			
Expected Delivery Date			
Sat 03/11/2023			
Tracking #:			
9505 5157 9941 3068 3649 29			
Insurance		\$0.00	
Up to \$100.00 included			
Total			\$9.65

Priority Mail®	1		\$9.65
Window FR Env			
Petersburg, VA 23803			
Flat Rate			
Expected Delivery Date			
Fri 03/10/2023			
Tracking #:			
9505 5157 9941 3068 3649 43			
Insurance		\$0.00	
Up to \$100.00 included			
Total			\$9.65

Grand Total:			\$77.20
Cash			\$80.00
Change			-\$2.80

In a hurry? Self-service kiosks offer quick and easy check-out. Any Retail Associate can show you how.



March 9, 2023

Vernon L. and Ora Regina Langford

443 Northview Lane

Crestview, FL 32536

RE: Notification of Application Submission for Kenbridge Solar

Dear Mr. and Ms. Langford,

This letter is to inform you that there is a ground-mounted photovoltaic solar facility being proposed by Ameresco (applicant/developer) in accordance with the Lunenburg County Ordinance for Solar Energy Facilities. The project is called Kenbridge Solar and will generate approximately 12 megawatts (MW) alternating current, which is enough to power approximately 2,000 homes. The proposed development will consist of an approximately 51-acre fenced solar facility, interior to the 128.24 acres of private land on Parcel Tax Map No. 058-0A-0-29, located at 5844 Oral Oaks Road, Kenbridge, Virginia 23944. The purpose of the project is to generate local, clean, and renewable power with the electricity generated to be purchased by Southside Electric Cooperative.

As we progress further with our application, we will be hosting an in-person community meeting in the area, and you will receive an invitation for this meeting by mail. The community meeting will provide an opportunity for the project team to meet the neighbors, answer questions and address any concerns you may have about the project, solar energy, or the developer Ameresco.

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Please let me know if you have any questions or would like to meet in person. You can contact me at (508) 598-3136 or via email tholt@ameresco.com.

Thank you,

Tom Holt
Director – Solar PV Project Development
Ameresco

Notification of Application Submittal to Adjacent Property Owners

To: Adjacent Property Owner of Parcel(s) 058-0A-0-29

From: Ameresco

Date: March 9, 2023

The following application will be submitted for review to the Lunenburg County Planning Office:

☐ Rezoning

☒ Conditional Use Permit

☐ Special Exception

Requested Use or Exception:

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March 9, 2023

Robert and Lisa Novak

1080 Unity Road

Kenbridge, VA 23944

RE: Notification of Application Submission for Kenbridge Solar

Dear Mr. and Ms. Novak,

This letter is to inform you that there is a ground-mounted photovoltaic solar facility being proposed by Ameresco (applicant/developer) in accordance with the Lunenburg County Ordinance for Solar Energy Facilities. The project is called Kenbridge Solar and will generate approximately 12 megawatts (MW) alternating current, which is enough to power approximately 2,000 homes. The proposed development will consist of an approximately 51-acre fenced solar facility, interior to the 128.24 acres of private land on Parcel Tax Map No. 058-0A-0-29, located at 5844 Oral Oaks Road, Kenbridge, Virginia 23944. The purpose of the project is to generate local, clean, and renewable power with the electricity generated to be purchased by Southside Electric Cooperative.

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March 9, 2023

Jason A. and Beth A. Phillips

596 Saint Johns Church Road

Kenbridge, VA 23944

RE: Notification of Application Submission for Kenbridge Solar

Dear Mr. and Ms. Phillips,

This letter is to inform you that there is a ground-mounted photovoltaic solar facility being proposed by Ameresco (applicant/developer) in accordance with the Lunenburg County Ordinance for Solar Energy Facilities. The project is called Kenbridge Solar and will generate approximately 12 megawatts (MW) alternating current, which is enough to power approximately 2,000 homes. The proposed development will consist of an approximately 51-acre fenced solar facility, interior to the 128.24 acres of private land on Parcel Tax Map No. 058-0A-0-29, located at 5844 Oral Oaks Road, Kenbridge, Virginia 23944. The purpose of the project is to generate local, clean, and renewable power with the electricity generated to be purchased by Southside Electric Cooperative.

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March 9, 2023

Joseph Terry Gustaf II

5642 Oral Oaks Road

Kenbridge, VA 23944

RE: Notification of Application Submission for Kenbridge Solar

Dear Mr. Gustaf,

This letter is to inform you that there is a ground-mounted photovoltaic solar facility being proposed by Ameresco (applicant/developer) in accordance with the Lunenburg County Ordinance for Solar Energy Facilities. The project is called Kenbridge Solar and will generate approximately 12 megawatts (MW) alternating current, which is enough to power approximately 2,000 homes. The proposed development will consist of an approximately 51-acre fenced solar facility, interior to the 128.24 acres of private land on Parcel Tax Map No. 058-0A-0-29, located at 5844 Oral Oaks Road, Kenbridge, Virginia 23944. The purpose of the project is to generate local, clean, and renewable power with the electricity generated to be purchased by Southside Electric Cooperative.

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Ameresco

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March 9, 2023

Jerry W. Killen

5717 Fitztown Road

Virginia Beach, VA 23457

RE: Notification of Application Submission for Kenbridge Solar

Dear Mr. Killen,

This letter is to inform you that there is a ground-mounted photovoltaic solar facility being proposed by Ameresco (applicant/developer) in accordance with the Lunenburg County Ordinance for Solar Energy Facilities. The project is called Kenbridge Solar and will generate approximately 12 megawatts (MW) alternating current, which is enough to power approximately 2,000 homes. The proposed development will consist of an approximately 51-acre fenced solar facility, interior to the 128.24 acres of private land on Parcel Tax Map No. 058-0A-0-29, located at 5844 Oral Oaks Road, Kenbridge, Virginia 23944. The purpose of the project is to generate local, clean, and renewable power with the electricity generated to be purchased by Southside Electric Cooperative.

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Director – Solar PV Project Development
Ameresco

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From: Ameresco

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March 9, 2023

Rhodessa Tisdale Bledsoe

22061 Lake Jordan Drive

Petersburg, VA 23803

RE: Notification of Application Submission for Kenbridge Solar

Dear Ms. Bledsoe,

This letter is to inform you that there is a ground-mounted photovoltaic solar facility being proposed by Ameresco (applicant/developer) in accordance with the Lunenburg County Ordinance for Solar Energy Facilities. The project is called Kenbridge Solar and will generate approximately 12 megawatts (MW) alternating current, which is enough to power approximately 2,000 homes. The proposed development will consist of an approximately 51-acre fenced solar facility, interior to the 128.24 acres of private land on Parcel Tax Map No. 058-0A-0-29, located at 5844 Oral Oaks Road, Kenbridge, Virginia 23944. The purpose of the project is to generate local, clean, and renewable power with the electricity generated to be purchased by Southside Electric Cooperative.

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Director – Solar PV Project Development
Ameresco

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March 9, 2023

Virginia Wilson Hawthorne

5844 Oral Oaks Road

Kenbridge, VA 23944

RE: Notification of Application Submission for Kenbridge Solar

Dear Ms. Virginia Wilson,

This letter is to inform you that there is a ground-mounted photovoltaic solar facility being proposed by Ameresco (applicant/developer) in accordance with the Lunenburg County Ordinance for Solar Energy Facilities. The project is called Kenbridge Solar and will generate approximately 12 megawatts (MW) alternating current, which is enough to power approximately 2,000 homes. The proposed development will consist of an approximately 51-acre fenced solar facility, interior to the 128.24 acres of private land on Parcel Tax Map No. 058-0A-0-29, located at 5844 Oral Oaks Road, Kenbridge, Virginia 23944. The purpose of the project is to generate local, clean, and renewable power with the electricity generated to be purchased by Southside Electric Cooperative.

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March 9, 2023

Strebor Farms LLC

702 South Broad Street

Kenbridge, VA 23944

RE: Notification of Application Submission for Kenbridge Solar

Dear Strebor Farms LLC,

This letter is to inform you that there is a ground-mounted photovoltaic solar facility being proposed by Ameresco (applicant/developer) in accordance with the Lunenburg County Ordinance for Solar Energy Facilities. The project is called Kenbridge Solar and will generate approximately 12 megawatts (MW) alternating current, which is enough to power approximately 2,000 homes. The proposed development will consist of an approximately 51-acre fenced solar facility, interior to the 128.24 acres of private land on Parcel Tax Map No. 058-0A-0-29, located at 5844 Oral Oaks Road, Kenbridge, Virginia 23944. The purpose of the project is to generate local, clean, and renewable power with the electricity generated to be purchased by Southside Electric Cooperative.

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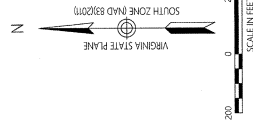
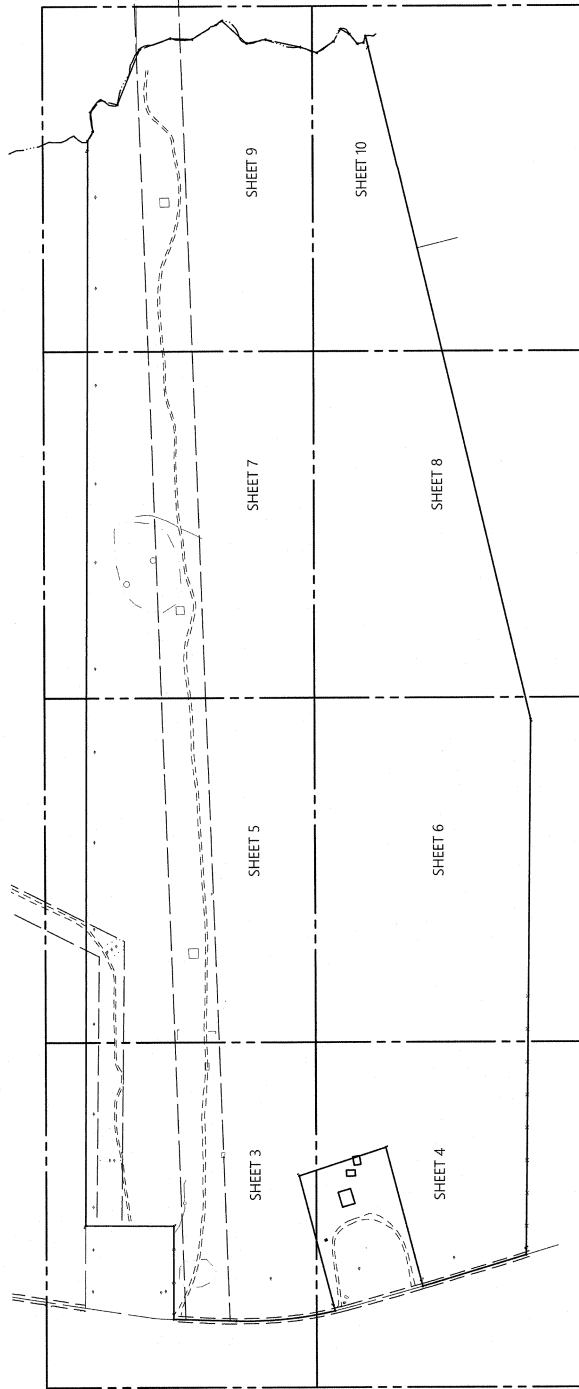
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H

Appendix H

ALTA Land Title Survey



ALTA/NSPS
 Land Title Survey
 5844 Oral Oaks Road
 Lunenburg County
 Kenbridge, Virginia

Sheet	Area	Acres
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

September 14, 2022

Drawing Number: **SV-2**

Scale: 2" = 10'

Project Number: 34823.00

Date: September 14, 2022

Surveyor: [Signature]

License No. 1488-B

Commonwealth of Virginia





351 McLaws Circle
Suite 3
Williamsburg, VA 23185
757.220.0500



ALTA/NSPS
Land Title Survey
5844 Oral Oaks Road
Lunenburg County
Kenbridge, Virginia

Date	September 14, 2022
Drawn by	
Checked by	
Reviewed by	
Approved by	

Drawing Number



Sv-4

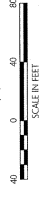
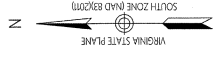
Sheet 4 of 10

Project Number
34823.00





3511 McLaws Circle
Suite 3
Williamsburg, VA 23185
757.220.0500



ALTA/NSPS
Land Title Survey
5844 Oral Oaks Road
Lunenburg County
Kenbridge, Virginia

NO.	REVISION	DATE

September 14, 2022

Drawing Number

Sv-5



Sheet 5 of 10

Project Number
34823.00





ALTA/NSPS
Land Title Survey
5844 Oral Oaks Road
Lunenburg County
Kenbridge, Virginia

Drawn by	
Checked by	
Reviewed by	
Date	September 14, 2022

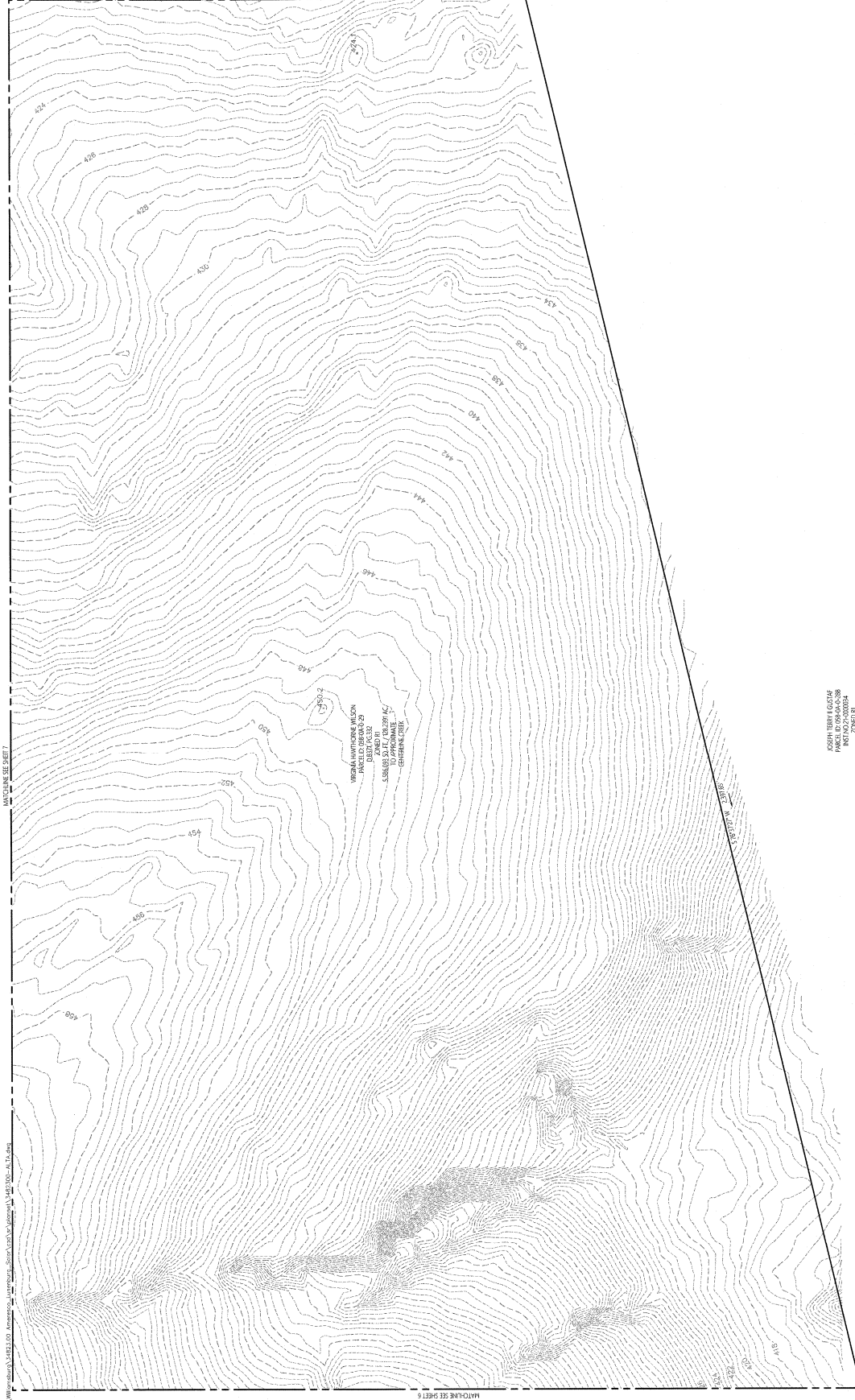
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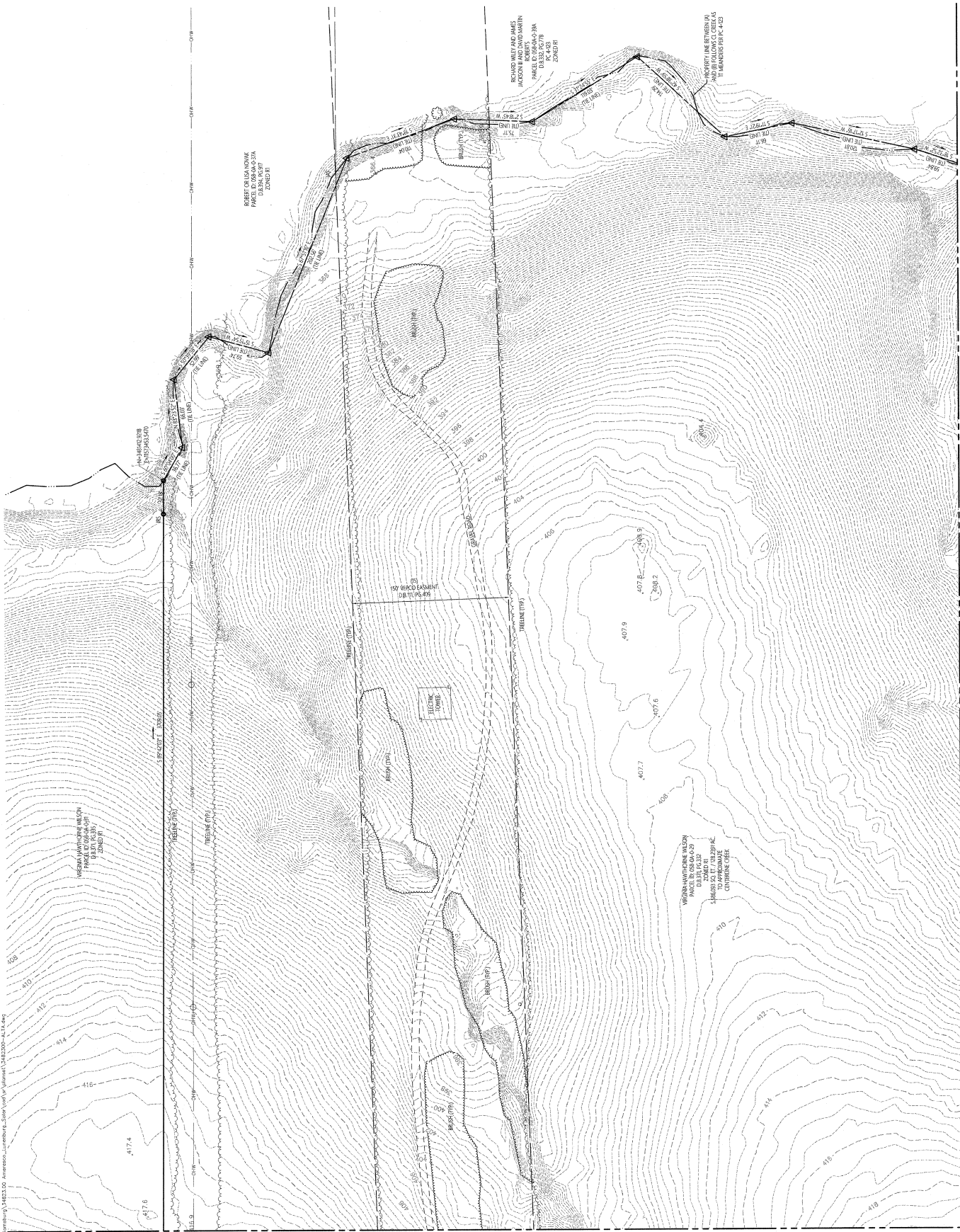
Sheet Number
7 of 10

Project Number
34823.00

COMMONWEALTH OF VIRGINIA
OFFICE OF THE CLERK OF THE SUPREME COURT
JULY 14, 2022
J. B. BROWN









351 McLaws Circle
Suite 3
Williamsburg, VA 23185
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Land Title Survey
5844 Oral Oaks Road
Lunenburg County
Kenbridge, Virginia

[illegible]September 14, 2022
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Journal Number

Sv-10

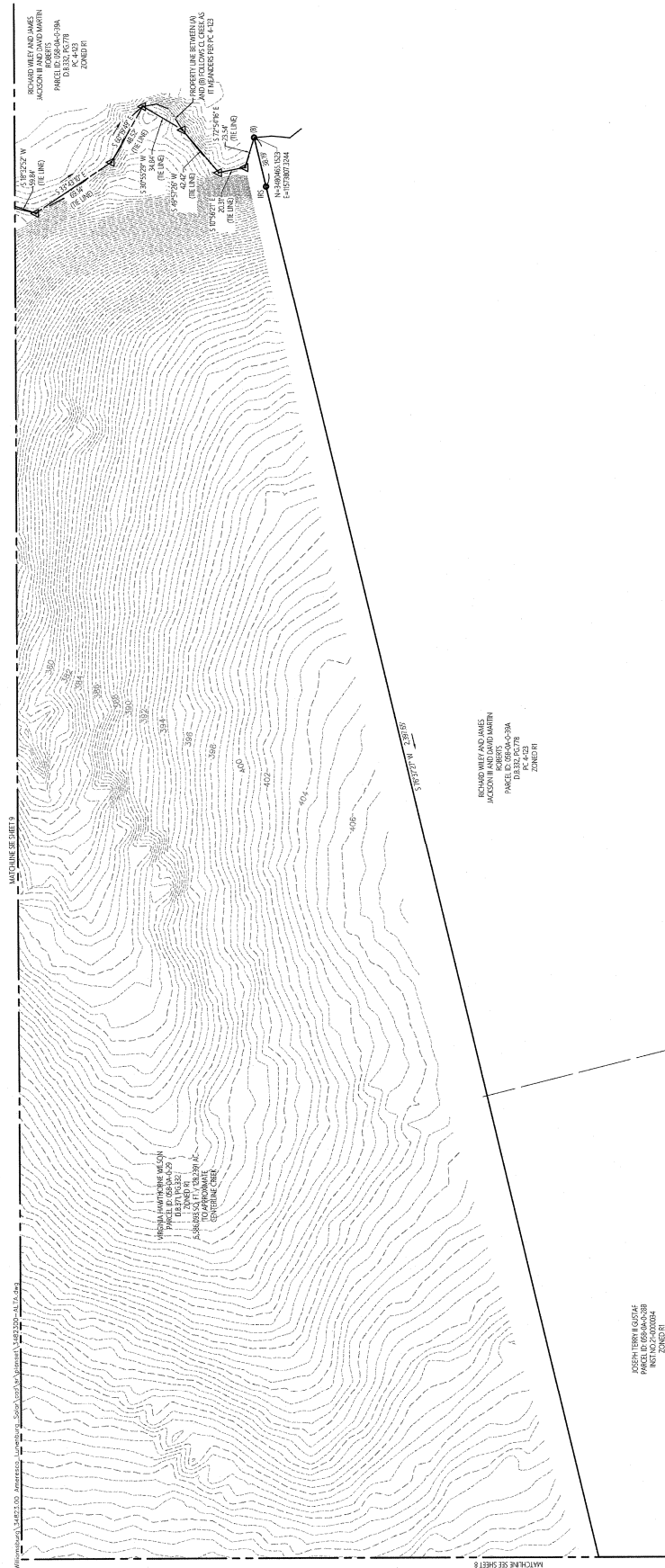


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10

Project Number

Project Number



RICHARD WILEY AND JAMES
 CUSON III AND DAVID MARTIN
 ROBERTS
 PARCEL ID: 058-0M-0-39A
 D.B.332, PG.778
 PC 4-123
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ARCEL ID: 058-0A-0-288
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