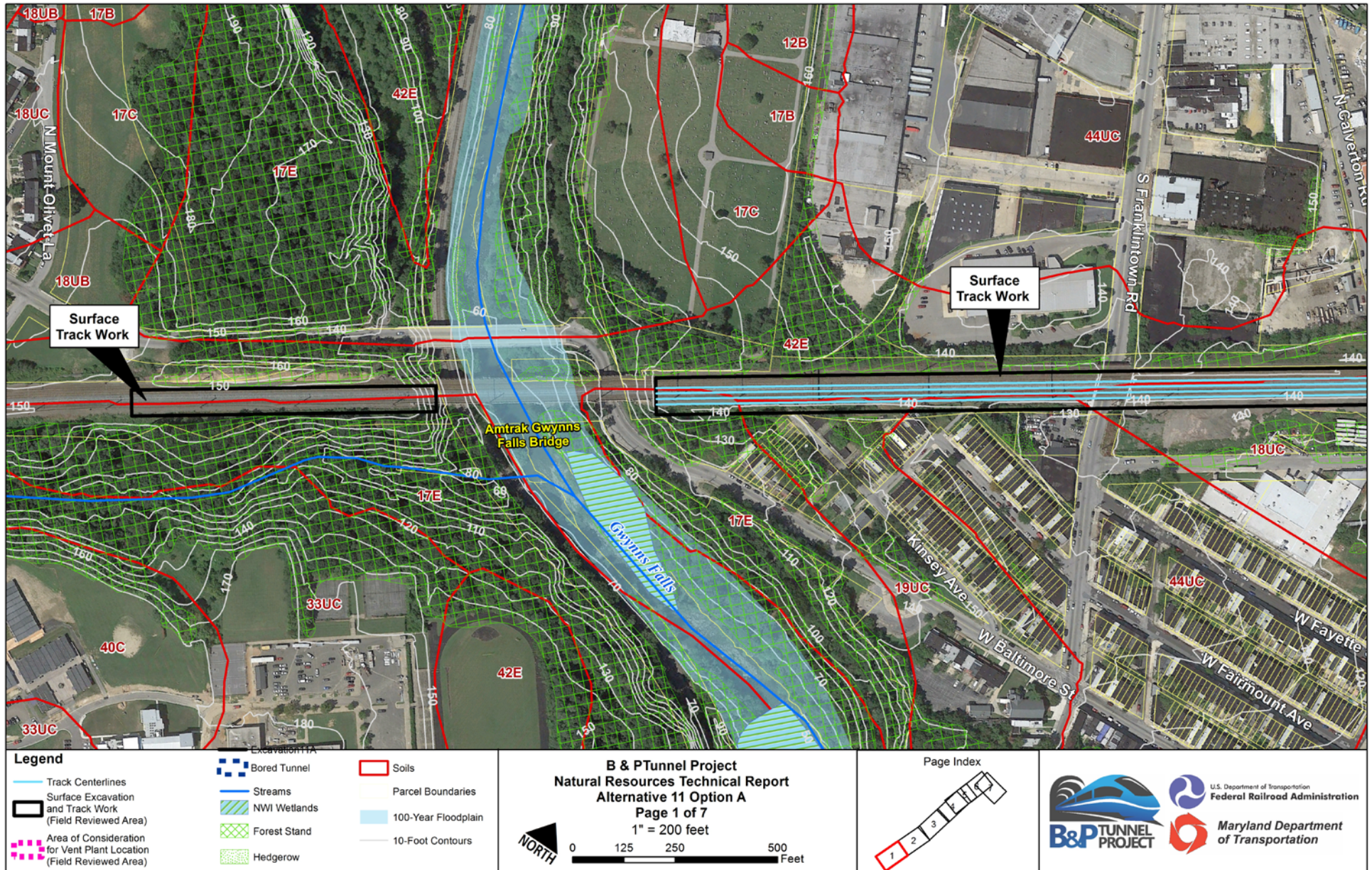


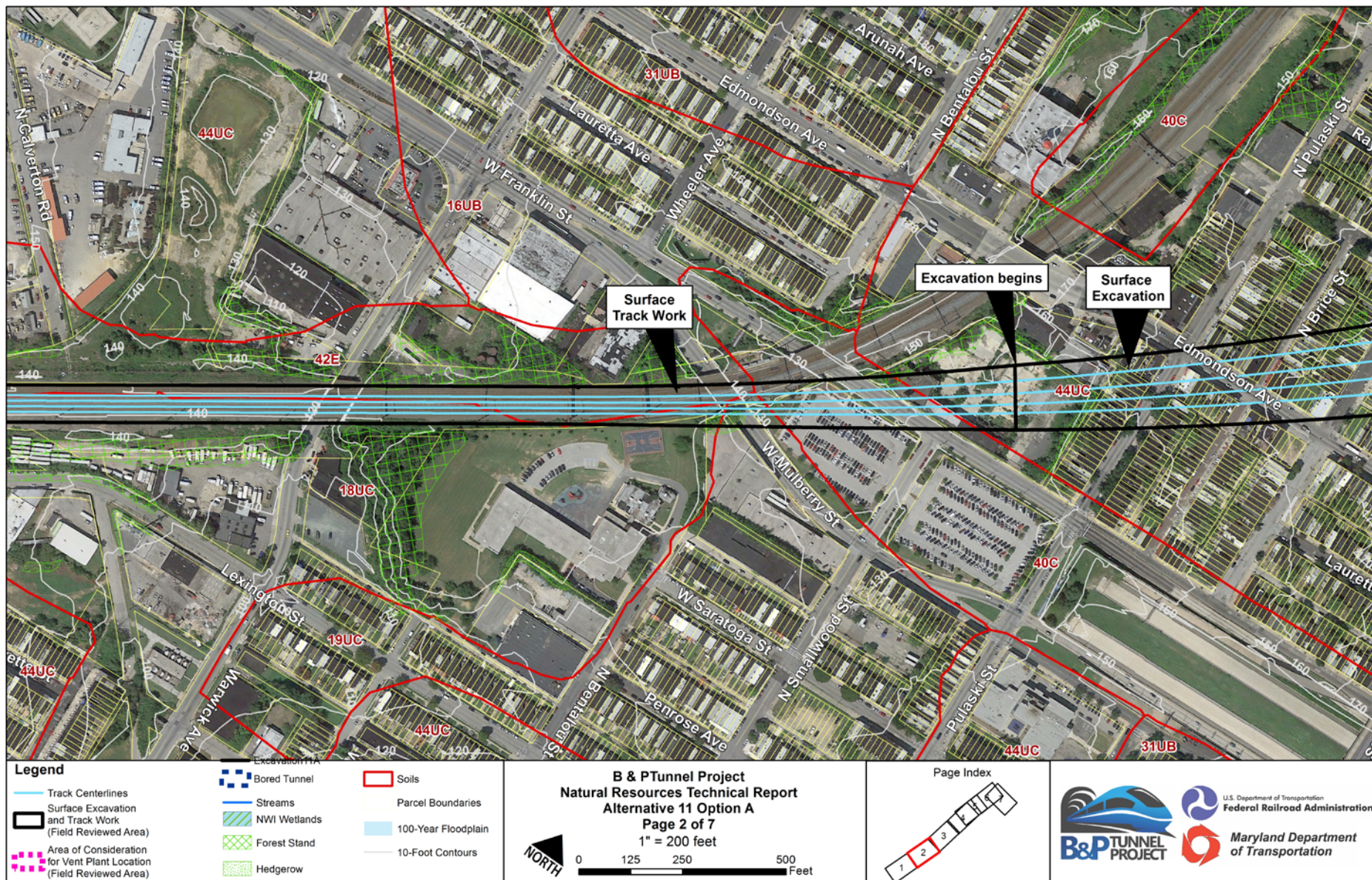
Appendix 4

Alternative 11 Option A Natural Resources Mapping

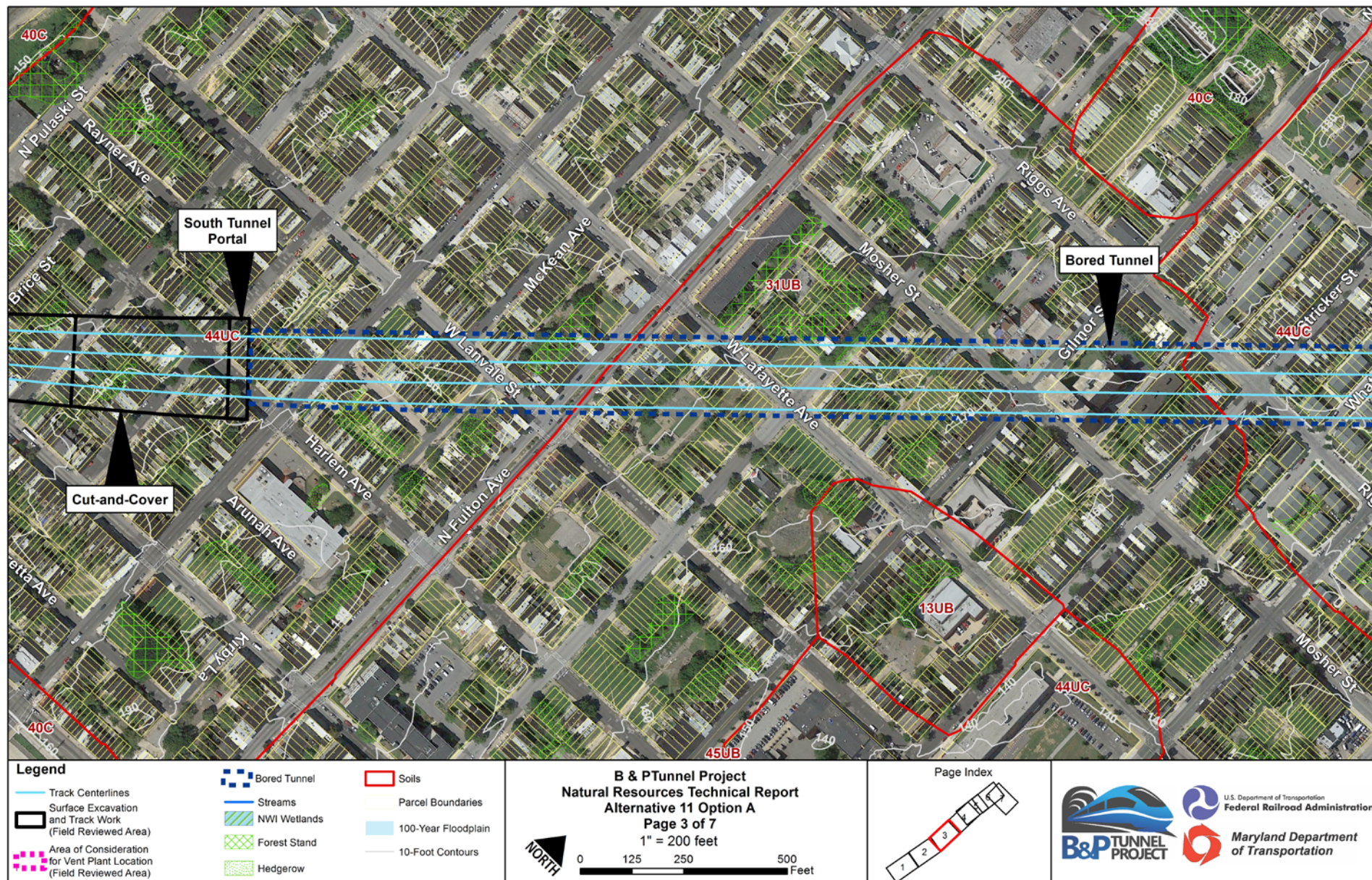
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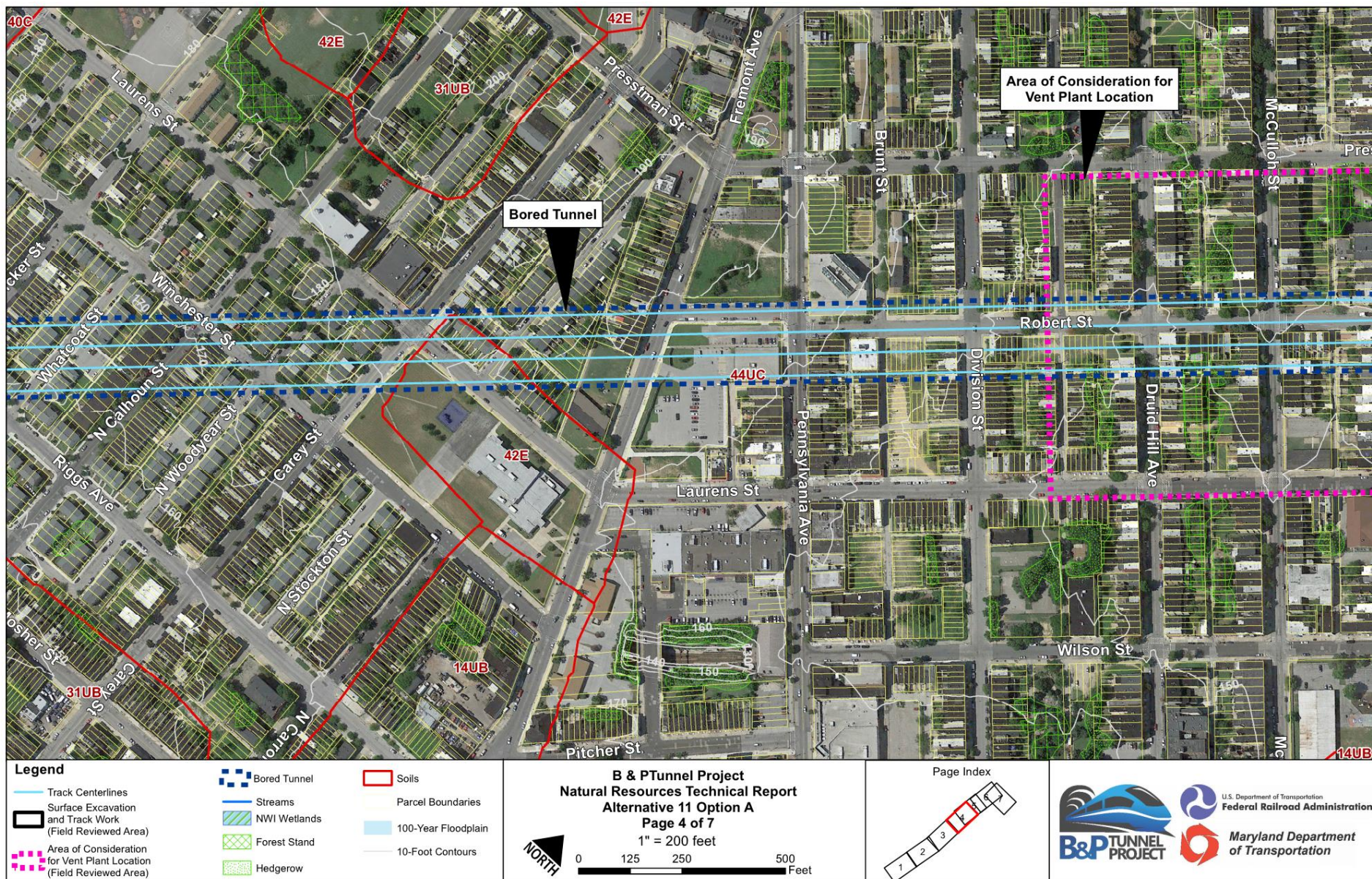
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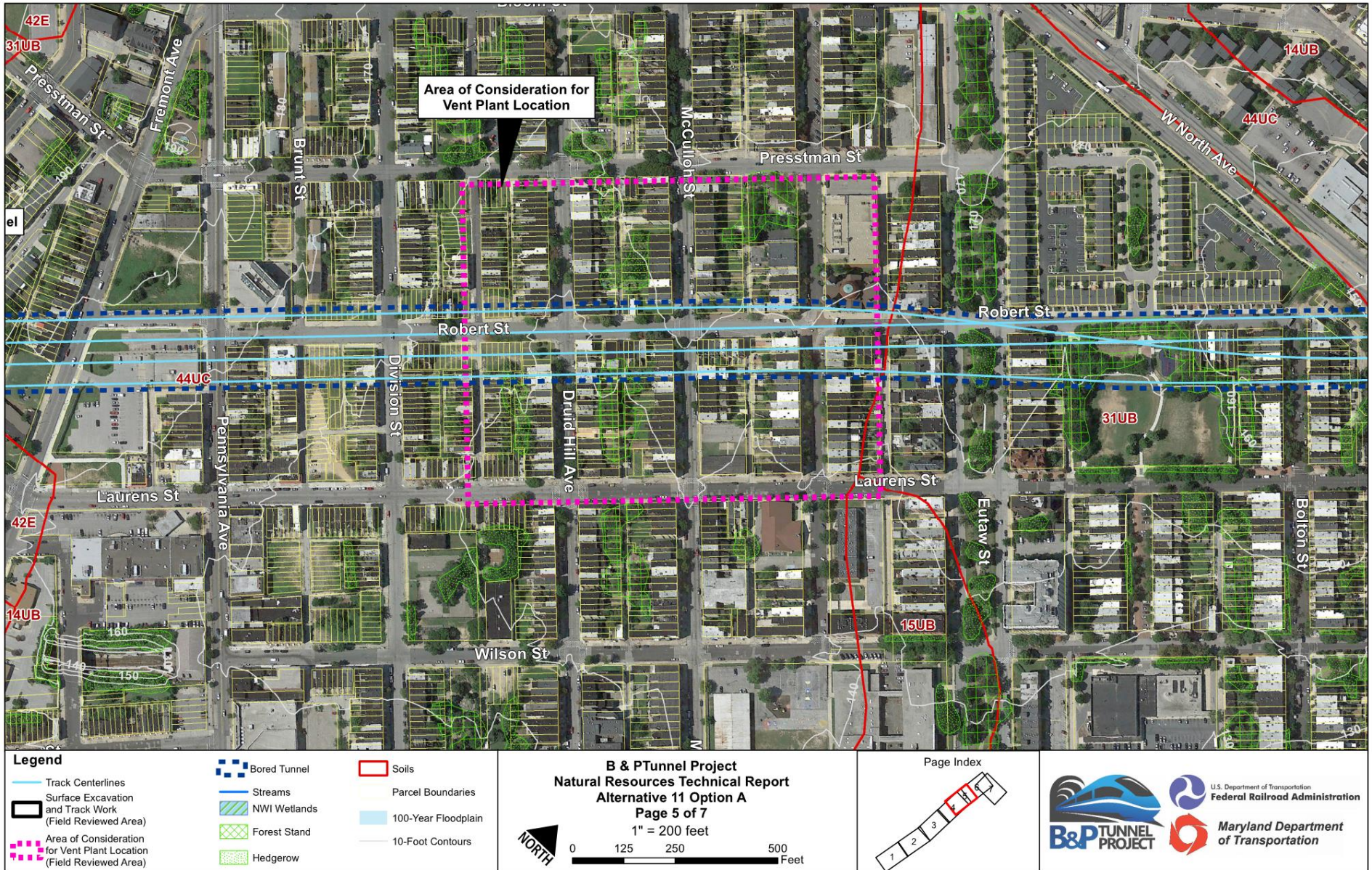
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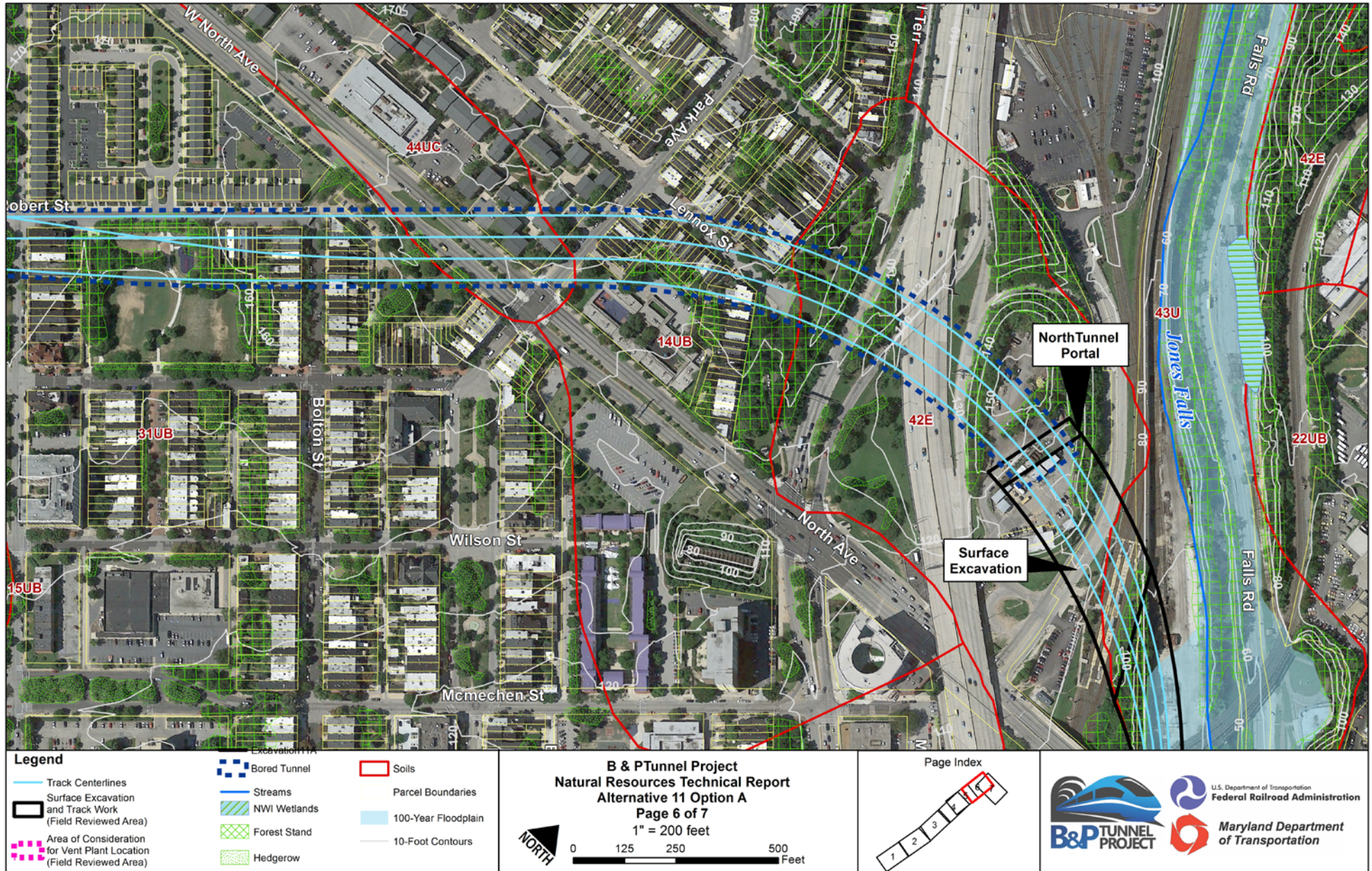
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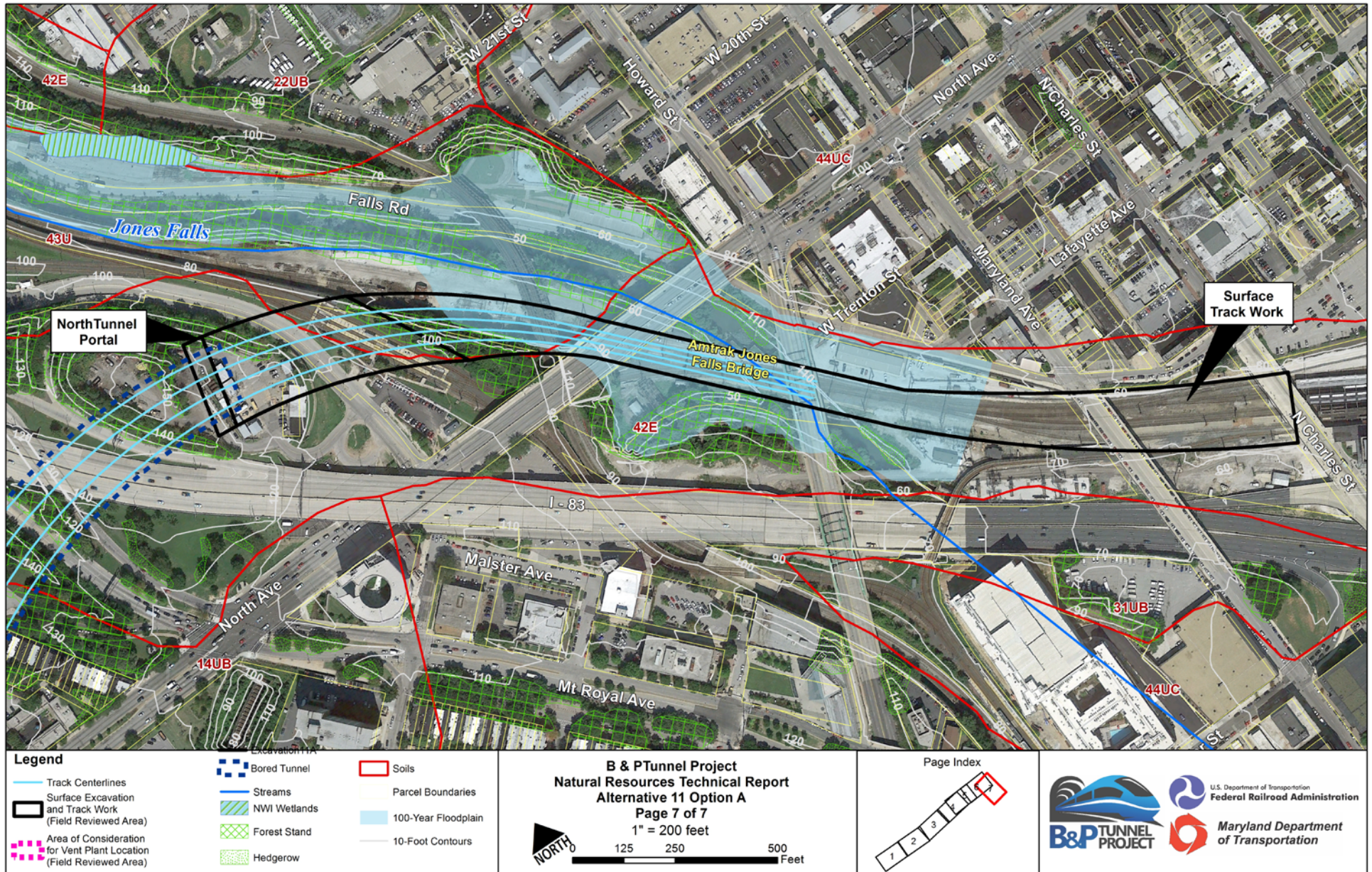
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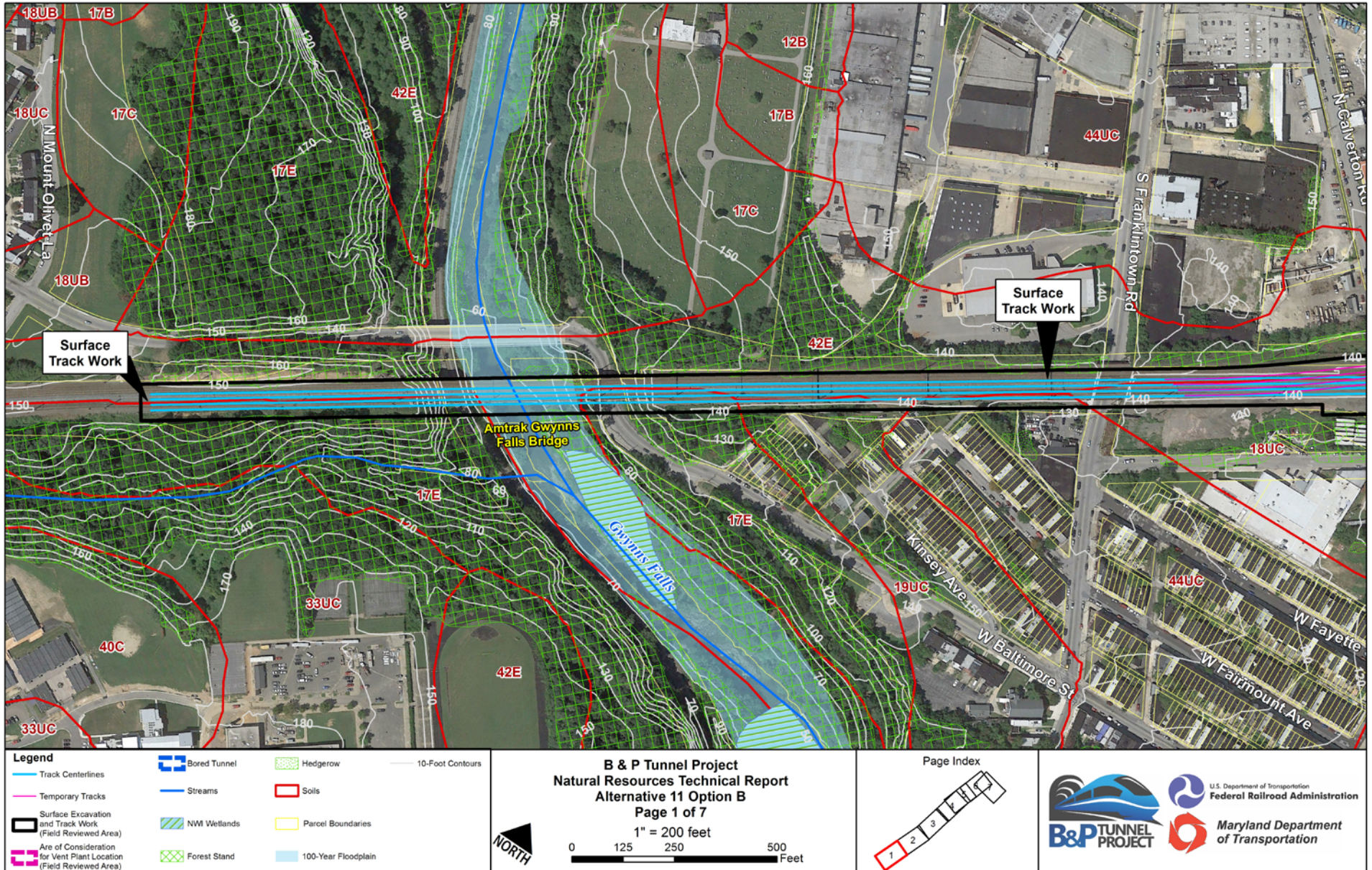


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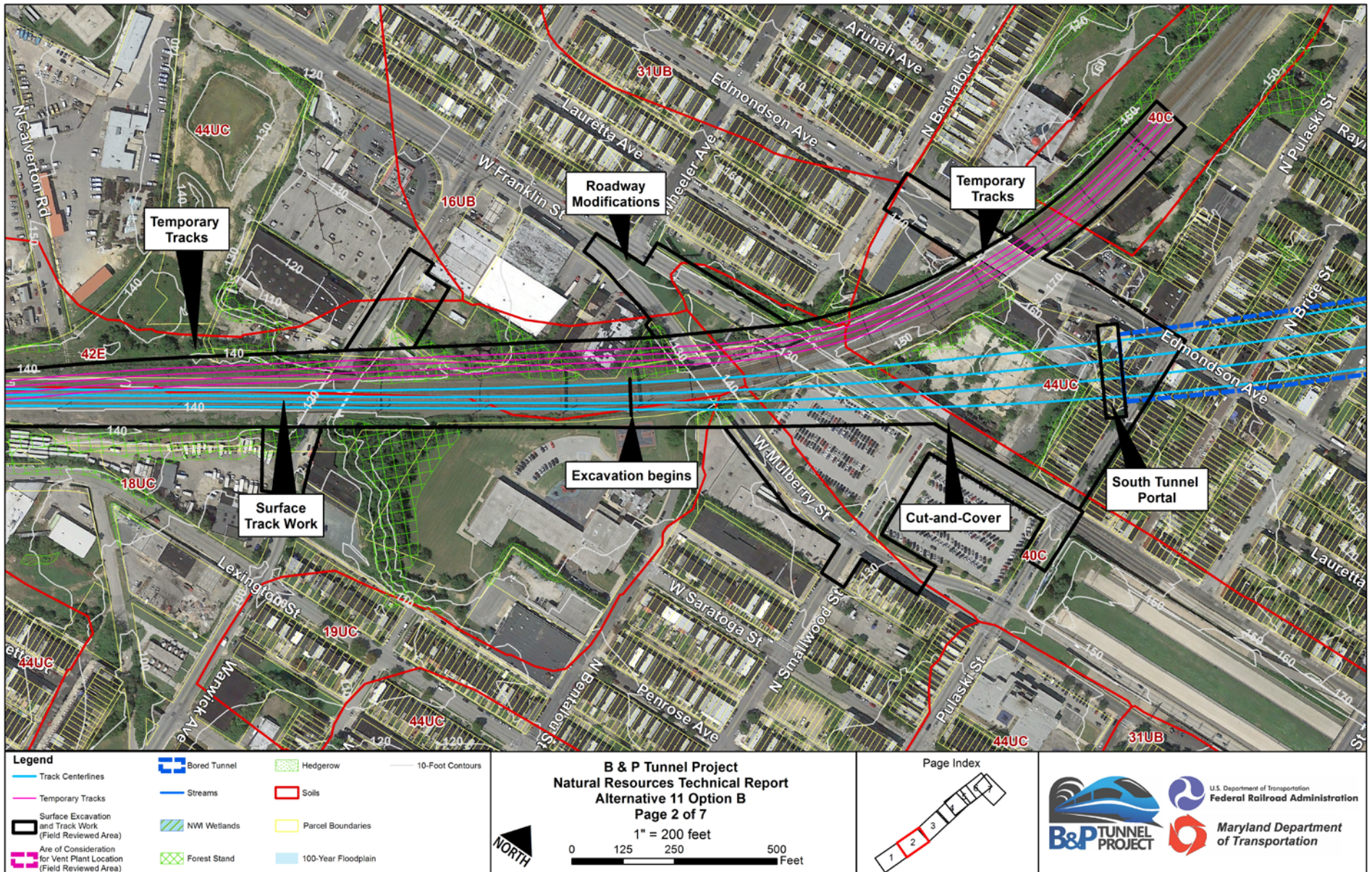
Appendix 5

Alternative 11 Option B Natural Resources Mapping

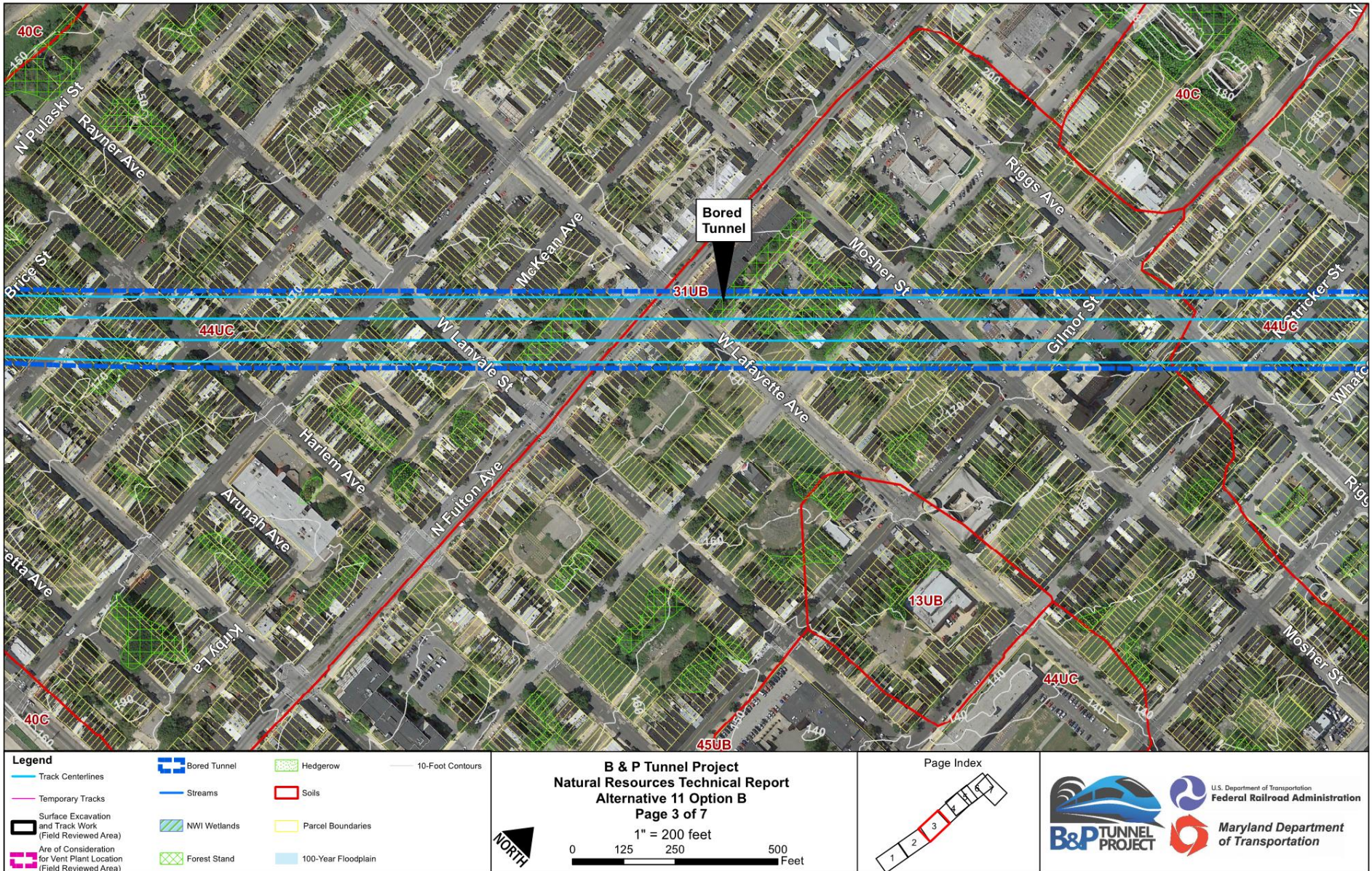
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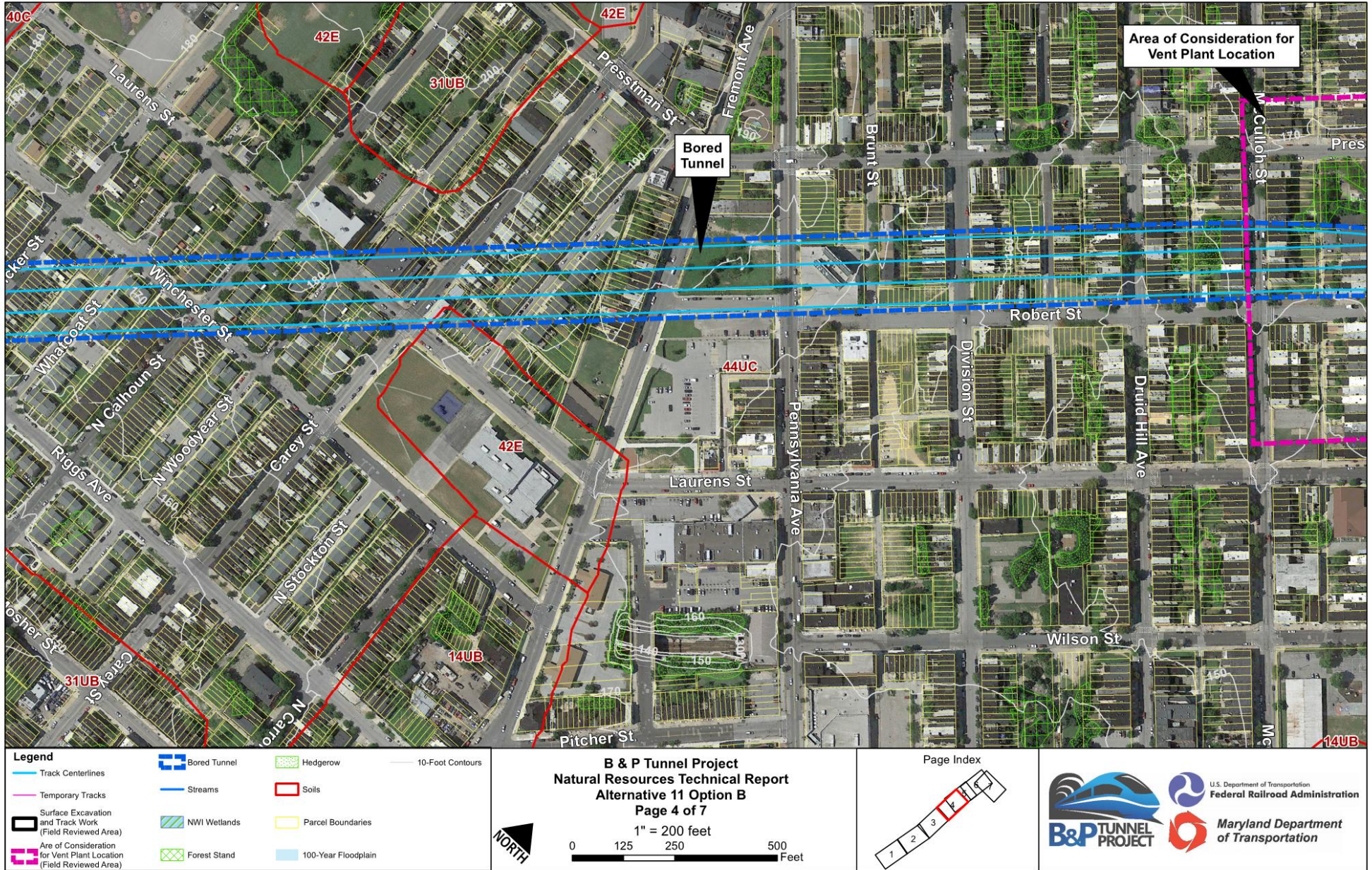
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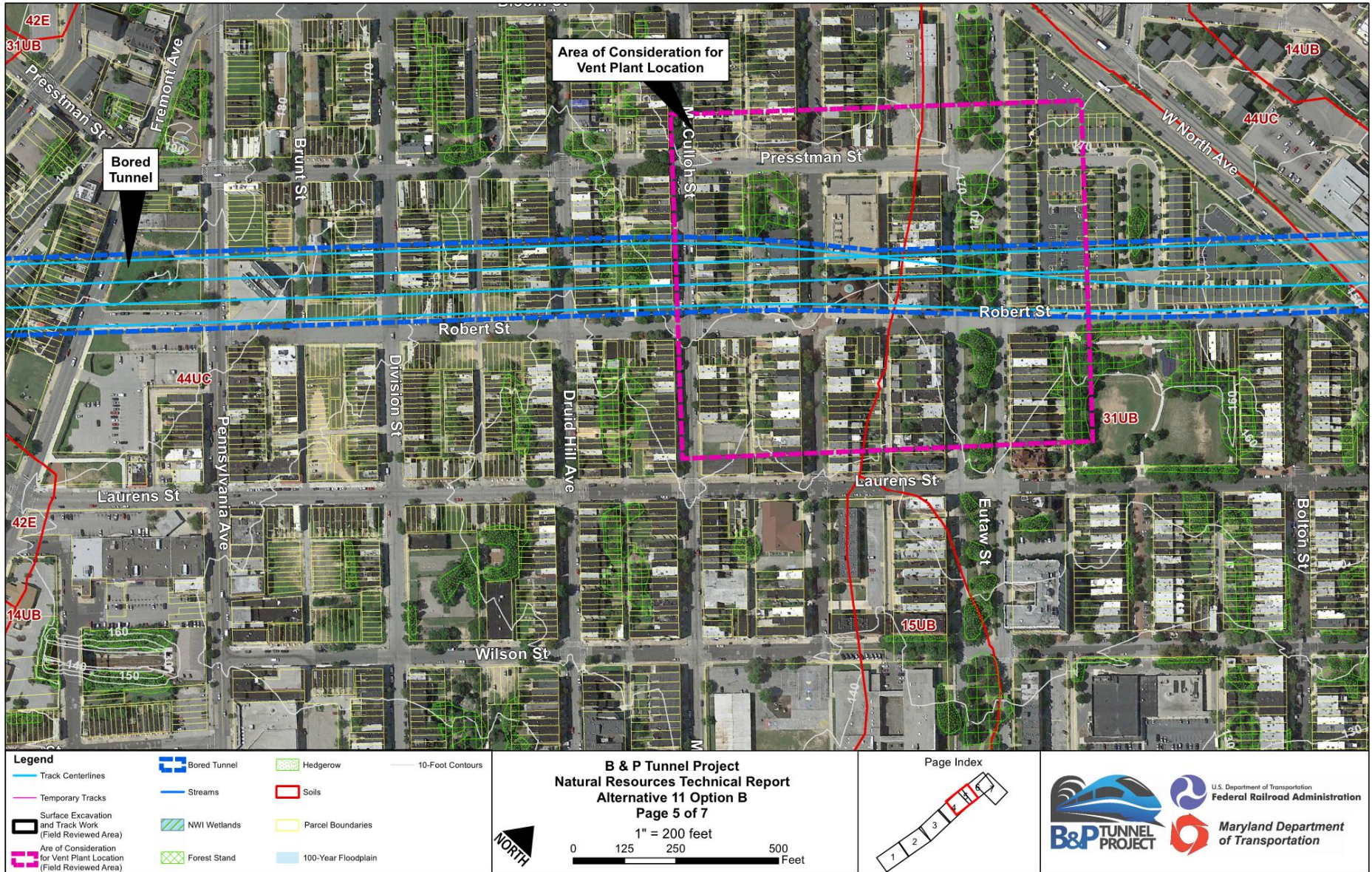
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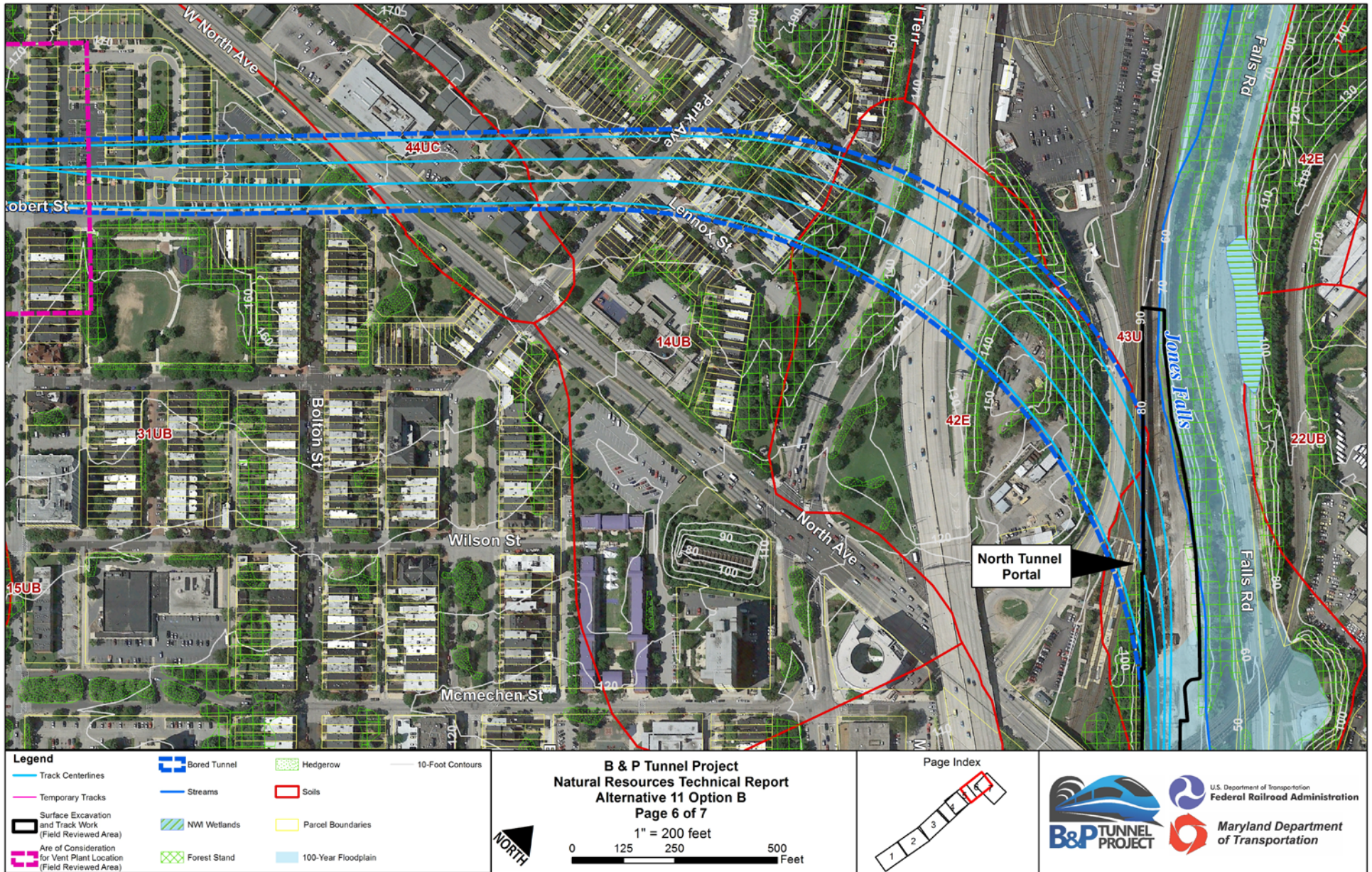
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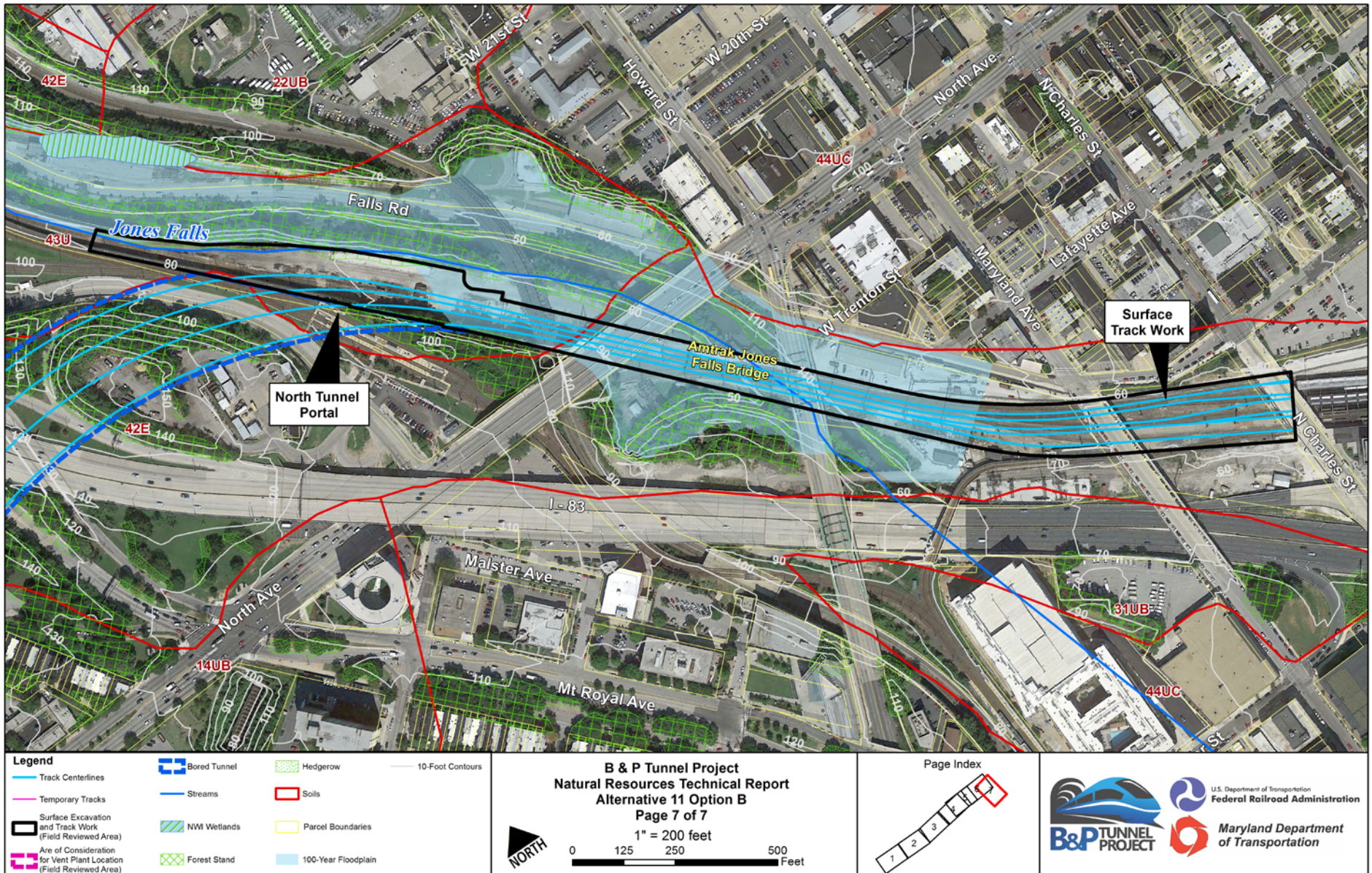
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Appendix 6

Rare, Threatened, and Endangered (RTE) Species Correspondence

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Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor
Mark J. Belton, Secretary
Mark L. Hoffman, Acting Deputy Secretary

15-MIS-201

June 29, 2015

Angela Willis
Maryland Transit Administration
6 St. Paul Street
Baltimore, MD 21202

Subject: Fisheries Information for the Proposed Baltimore and Potomac Tunnel Project, in Baltimore, Maryland.

Dear Ms. Willis,

The above referenced project has been reviewed to determine fisheries species in the vicinity of the proposed project. The proposed activities include the Baltimore and Potomac Tunnel Project, in Baltimore, Maryland.

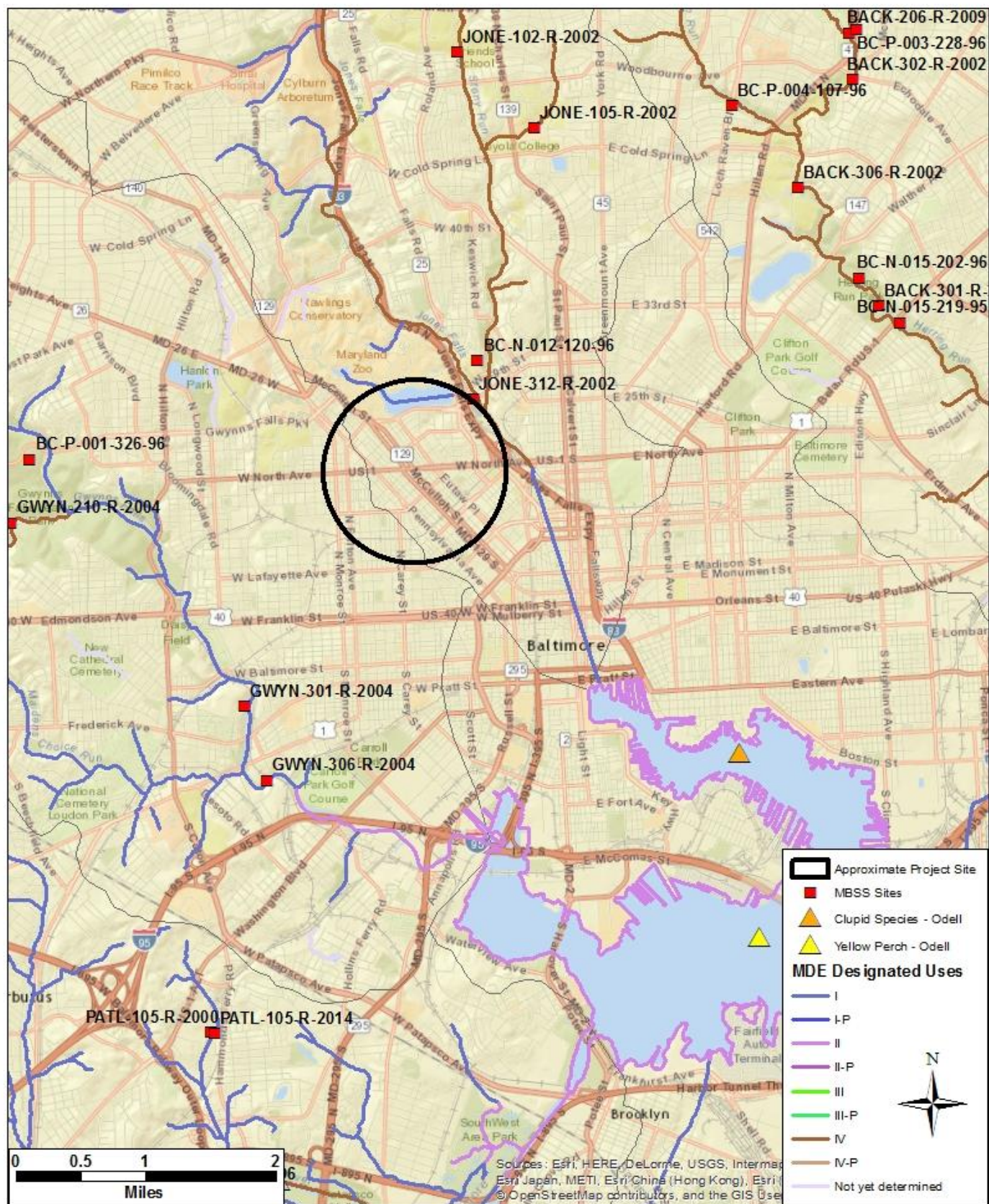
Jones Falls, Stony Run (Patapsco River Basin) and tributaries near the site are classified as Use IV streams (Recreational Trout Waters). Generally, no instream work is permitted in Use IV streams during the period of March 1 through May 31, inclusive, during any year.

No anadromous fish have been documented near the project site. However, these streams may support many resident fish species documented by our Maryland Biological Stream Survey. There are Maryland Biological Stream Survey (MBSS) stations near the project location. The species collected at one of these stations has been itemized in the attached list. MBSS data can be accessed via the MDDNR web page at <http://streamhealth.maryland.gov>, allowing access to resource surveys in neighboring tributaries.

If you have further questions, please contact the Environmental Review Program at 410-260-8803.

Sincerely,

Alison Armocida
Environmental Review Program



The following fishes were collected at JONE-312-R-2002

Common name	Percent of total
<u>LONGNOSE DACE</u>	30.0
<u>WHITE SUCKER</u>	22.1
<u>SATINFIN SHINER</u>	19.4
<u>TESSELLATED DARTER</u>	10.2
<u>BLUNTNOSE MINNOW</u>	7.0
<u>YELLOW BULLHEAD</u>	4.2
<u>REDBREAST SUNFISH</u>	2.3
<u>MUMMICHOG</u>	1.5
<u>SWALLOWTAIL SHINER</u>	1.4
<u>AMERICAN EEL</u>	1.0
<u>LARGEMOUTH BASS</u>	0.5
<u>NORTHERN HOGSUCKER</u>	0.3

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United States Department of the Interior

FISH AND WILDLIFE SERVICE
Chesapeake Bay Ecological Services Field Office
177 ADMIRAL COCHRANE DRIVE
ANNAPOLIS, MD 21401
PHONE: (410)573-4599 FAX: (410)266-9127



Consultation Tracking Number: 05E2CB00-2015-SLI-0326

December 09, 2014

Project Name: Baltimore and Potomac Tunnel

Subject: List of threatened and endangered species that may occur in your proposed project location, and/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.*).

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). 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://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



United States Department of Interior
Fish and Wildlife Service

Project name: Baltimore and Potomac Tunnel

Preliminary Species list

Provided by:

Chesapeake Bay Ecological Services Field Office
177 ADMIRAL COCHRANE DRIVE
ANNAPOLIS, MD 21401
(410) 573-4599

Consultation Tracking Number: 05E2CB00-2015-SLI-0326

Project Type: Transportation

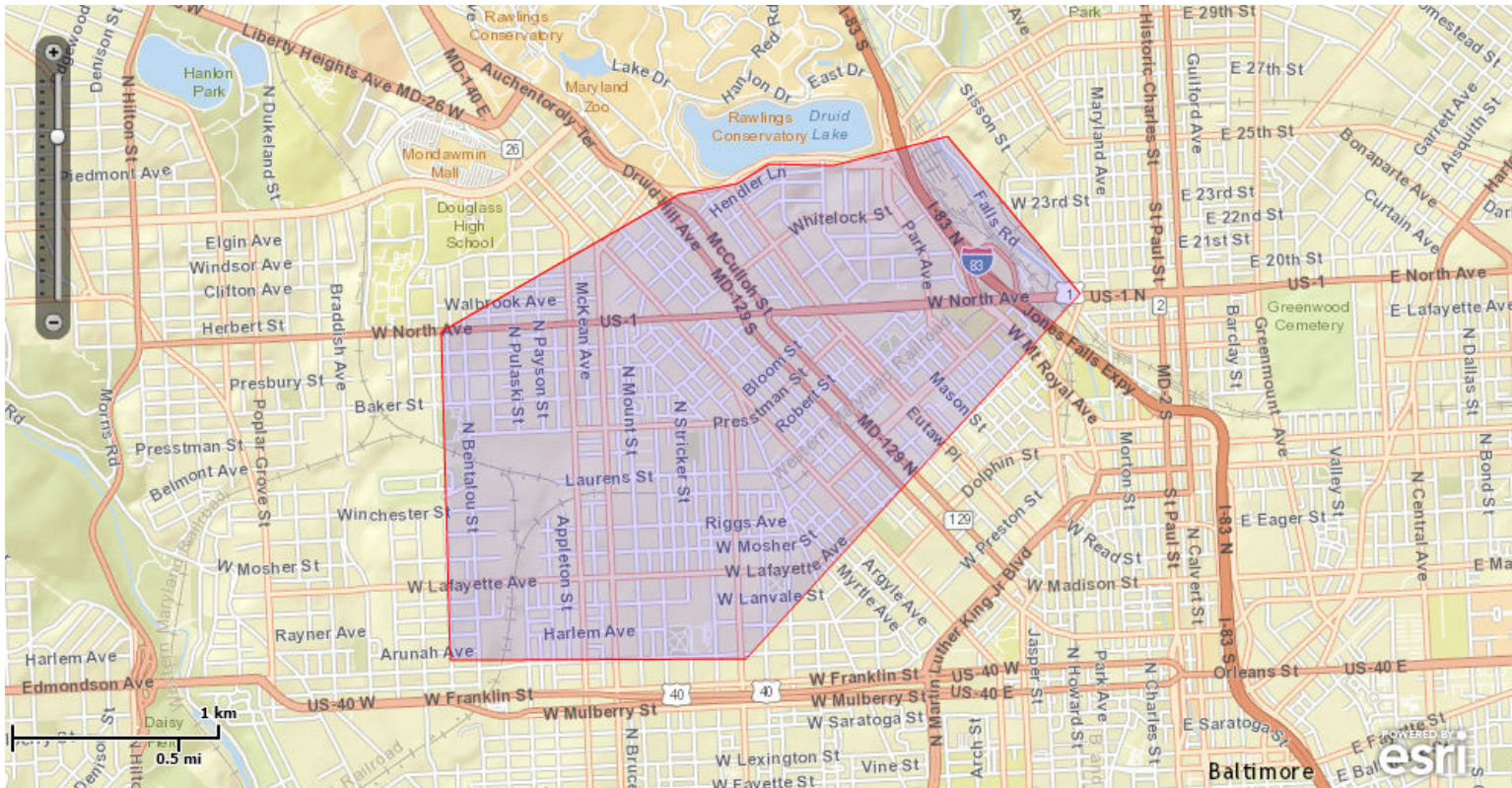
Project Description: The proposed project involves replacing an existing 1.4 mile underground tunnel along one of three potential alignments in Baltimore City (see attached mapping). The project is in the planning phase and it remains to be determined whether the final tunnel design will extend beneath the Jones Falls or the track alignment will remain on the existing bridge structure above the stream before entering the B&P Tunnel.



United States Department of Interior
Fish and Wildlife Service

Project name: Baltimore and Potomac Tunnel

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-76.6268744 39.3179166, -76.6194114 39.3110768, -76.638204 39.2952033, -76.6548552 39.2951369, -76.6553744 39.3094166, -76.6419891 39.3153933, -76.6387276 39.3158581, -76.6369251 39.3167213, -76.6333202 39.3166549, -76.6268744 39.3179166)))

Project Counties: Baltimore (city), MD



United States Department of Interior
Fish and Wildlife Service

Project name: Baltimore and Potomac Tunnel

Endangered Species Act Species List

There are a total of 0 threatened or endangered species on your 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. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

There are no listed species identified for the vicinity of your project.

Preliminary



United States Department of Interior
Fish and Wildlife Service

Project name: Baltimore and Potomac Tunnel

Critical habitats that lie within your project area

There are no critical habitats within your project area.

Preliminary