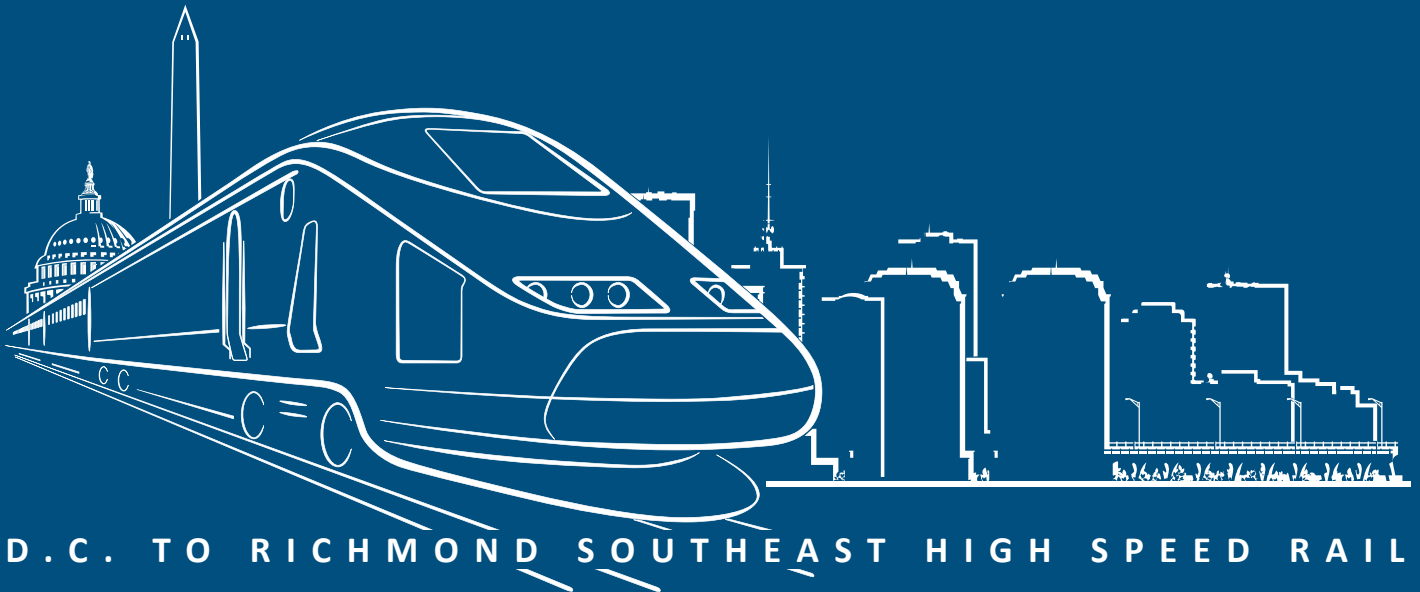
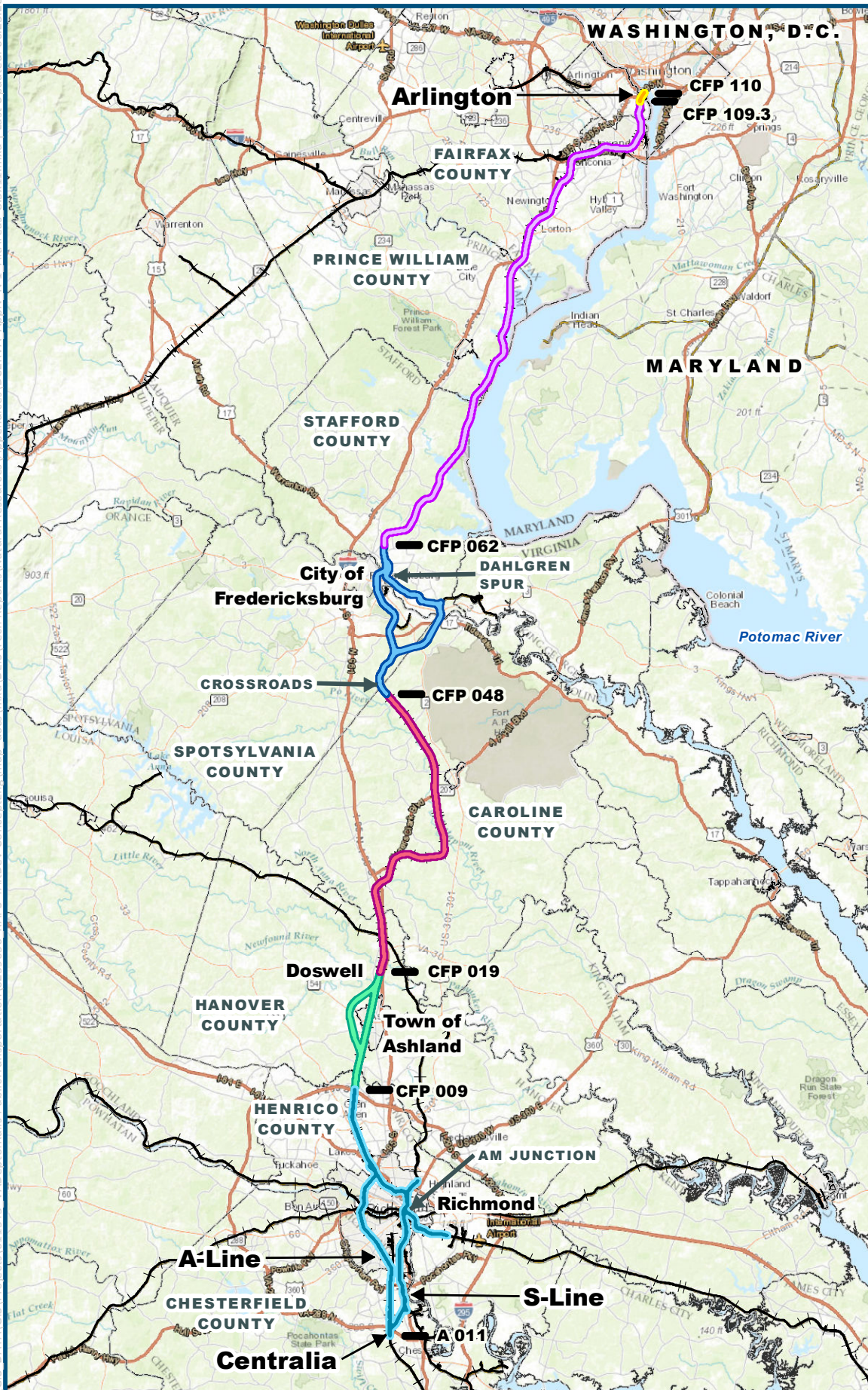




N USDA-NRCS FARMLAND CONVERSION IMPACTS



D.C. TO RICHMOND SOUTHEAST HIGH SPEED RAIL



0 6 12
 Miles
 1 inch = 12 miles
 @ 8.5 x 11 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983

Basemap Source: 2015 USGS
 Topographic Map

Legend

- CSXT Mileposts / Alternative Area Limits
- Virginia Rail Lines

Area 1: Arlington (Long Bridge Approach)
 (CFP 110 - CFP 109.3);
 3 Build Alternatives

Area 2: Northern Virginia
 (CFP 109.3 - CFP 62);
 1 Build Alternative

Area 3: Fredericksburg and Bypass
 (CFP 62 - CFP 48);
 3 Build Alternatives

Area 4: Central Virginia
 (CFP 48 - CFP 19);
 1 Build Alternative

Area 5: Ashland and Bypass
 (CFP 19 - CFP 9);
 7 Build Alternatives

Area 6: Richmond
 (CFP 9 - A 011);
 8 Build Alternatives

Figure N-1
 Alternative Areas

**FARMLAND CONVERSION IMPACT RATING
FOR CORRIDOR TYPE PROJECTS**

PART I (To be completed by Federal Agency)	3. Date of Land Evaluation Request 10/20/16	4. Sheet 1 of 6
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1. Name of Project DC to Richmond Southeast High Speed Rail	5. Federal Agency Involved Federal Railroad Administration
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2. Type of Project Transportation - Rail and Road	6. County and State Alxndria, Arlngtn, Fairfax, Pr. William, Stafford,
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PART II (To be completed by NRCS)	1. Date Request Received by NRCS 10/20/16	2. Person Completing Form Don Flegel
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3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/>	4. Acres Irrigated Average Farm Size
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5. Major Crop(s) corn	6. Farmable Land in Government Jurisdiction Acres: _____ % _____	7. Amount of Farmland As Defined in FPPA Acres: _____ % _____
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8. Name Of Land Evaluation System Used LE of LESA	9. Name of Local Site Assessment System none	10. Date Land Evaluation Returned by NRCS 12/23/16
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PART III (To be completed by Federal Agency)	Alternative Corridor For Segment 1A, 1B, 1C, and 2A			
	Corridor A	Corridor B	Corridor C	Corridor 2A
A. Total Acres To Be Converted Directly	0	1.45	0.36	30.10
B. Total Acres To Be Converted Indirectly, Or To Receive Services	0	0	0	0
C. Total Acres In Corridor	5.12	8.91	9.10	302.75

PART IV (To be completed by NRCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	committed	committed	committed	17.1
B. Total Acres Statewide And Local Important Farmland	to	to	to	13
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	urban	urban	urban	0
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				72

PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)	54
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PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points				
1. Area in Nonurban Use	15	0	0	0	3
2. Perimeter in Nonurban Use	10	0	0	0	4
3. Percent Of Corridor Being Farmed	20	0	0	0	0
4. Protection Provided By State And Local Government	20	0	0	0	0
5. Size of Present Farm Unit Compared To Average	10	0	0	0	0
6. Creation Of Nonfarmable Farmland	25	0	0	0	0
7. Availability Of Farm Support Services	5	0	0	0	5
8. On-Farm Investments	20	0	0	0	0
9. Effects Of Conversion On Farm Support Services	25	0	0	0	0
10. Compatibility With Existing Agricultural Use	10	0	0	0	0
TOTAL CORRIDOR ASSESSMENT POINTS	160	0	0	0	12

PART VII (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)	100	0	0	0	54
Total Corridor Assessment (From Part VI above or a local site assessment)	160	0	0	0	12
TOTAL POINTS (Total of above 2 lines)	260	0	0	0	66

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:

Signature of Person Completing this Part:	DATE
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NOTE: Complete a form for each segment with more than one Alternate Corridor

CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

(1) How much land is in nonurban use within a radius of 1.0 mile from where the project is intended?

More than 90 percent - 15 points
90 to 20 percent - 14 to 1 point(s)
Less than 20 percent - 0 points

(2) How much of the perimeter of the site borders on land in nonurban use?

More than 90 percent - 10 points
90 to 20 percent - 9 to 1 point(s)
Less than 20 percent - 0 points

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?

More than 90 percent - 20 points
90 to 20 percent - 19 to 1 point(s)
Less than 20 percent - 0 points

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

Site is protected - 20 points
Site is not protected - 0 points

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County ?

(Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with \$1,000 or more in sales.)
As large or larger - 10 points
Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project - 25 points
Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)
Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available - 5 points
Some required services are available - 4 to 1 point(s)
No required services are available - 0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment - 20 points
Moderate amount of on-farm investment - 19 to 1 point(s)
No on-farm investment - 0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area?

Substantial reduction in demand for support services if the site is converted - 25 points
Some reduction in demand for support services if the site is converted - 1 to 24 point(s)
No significant reduction in demand for support services if the site is converted - 0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?

Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points
Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s)
Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points

CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

(1) How much land is in nonurban use within a radius of 1.0 mile from where the project is intended?

More than 90 percent - 15 points
90 to 20 percent - 14 to 1 point(s)
Less than 20 percent - 0 points

(2) How much of the perimeter of the site borders on land in nonurban use?

More than 90 percent - 10 points
90 to 20 percent - 9 to 1 point(s)
Less than 20 percent - 0 points

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?

More than 90 percent - 20 points
90 to 20 percent - 19 to 1 point(s)
Less than 20 percent - 0 points

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

Site is protected - 20 points
Site is not protected - 0 points

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County ?

(Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with \$1,000 or more in sales.)
As large or larger - 10 points
Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project - 25 points
Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)
Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available - 5 points
Some required services are available - 4 to 1 point(s)
No required services are available - 0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment - 20 points
Moderate amount of on-farm investment - 19 to 1 point(s)
No on-farm investment - 0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area?

Substantial reduction in demand for support services if the site is converted - 25 points
Some reduction in demand for support services if the site is converted - 1 to 24 point(s)
No significant reduction in demand for support services if the site is converted - 0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?

Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points
Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s)
Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points

**FARMLAND CONVERSION IMPACT RATING
FOR CORRIDOR TYPE PROJECTS**

PART I (To be completed by Federal Agency)		3. Date of Land Evaluation Request 10/20/16	4. Sheet 3 of 6
1. Name of Project DC to Richmond Southeast High Speed Rail		5. Federal Agency Involved Federal Railroad Administration	
2. Type of Project Transportation - Rail and Road		6. County and State Hanover, Virginia	
PART II (To be completed by NRCS)		1. Date Request Received by NRCS 10/20/16	2. Person Completing Form Greg Hammer
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		4. Acres Irrigated Average Farm Size	
5. Major Crop(s) corn	6. Farmable Land in Government Jurisdiction Acres: 295,635 % 97	7. Amount of Farmland As Defined in FPPA Acres: 194,050 % 64.3	
8. Name Of Land Evaluation System Used LE of LESA	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS 12/1/16	

PART III (To be completed by Federal Agency)	Alternative Corridor For Segment 5			
	Corridor A-Long	Corridor A-Ash	Corridor B-Long	Corridor B-Ash
A. Total Acres To Be Converted Directly	11.52	11.62	14.99	15.44
B. Total Acres To Be Converted Indirectly, Or To Receive Services	0	0	0	
C. Total Acres In Corridor	52.64	52.16	63.22	66.54

PART IV (To be completed by NRCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	25	26	29	31
B. Total Acres Statewide And Local Important Farmland	25	24	24	28
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	0	0	0	0
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	76	77	76	76

PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)	41	36	41	41
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PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points				
1. Area in Nonurban Use	15	5	5	5	5
2. Perimeter in Nonurban Use	10	0	0	0	0
3. Percent Of Corridor Being Farmed	20	0	0	0	0
4. Protection Provided By State And Local Government	20	0	0	0	0
5. Size of Present Farm Unit Compared To Average	10	0	0	0	0
6. Creation Of Nonfarmable Farmland	25	0	0	0	0
7. Availability Of Farm Support Services	5	5	5	5	5
8. On-Farm Investments	20	0	0	0	0
9. Effects Of Conversion On Farm Support Services	25	0	0	0	0
10. Compatibility With Existing Agricultural Use	10	0	0	0	0
TOTAL CORRIDOR ASSESSMENT POINTS	160	10	10	10	10

PART VII (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)	100	41	36	41	41
Total Corridor Assessment (From Part VI above or a local site assessment)	160	10	10	10	10
TOTAL POINTS (Total of above 2 lines)	260	51	46	51	51

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
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5. Reason For Selection:

Signature of Person Completing this Part: _____ DATE: _____

NOTE: Complete a form for each segment with more than one Alternate Corridor

CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

(1) How much land is in nonurban use within a radius of 1.0 mile from where the project is intended?

More than 90 percent - 15 points
90 to 20 percent - 14 to 1 point(s)
Less than 20 percent - 0 points

(2) How much of the perimeter of the site borders on land in nonurban use?

More than 90 percent - 10 points
90 to 20 percent - 9 to 1 point(s)
Less than 20 percent - 0 points

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?

More than 90 percent - 20 points
90 to 20 percent - 19 to 1 point(s)
Less than 20 percent - 0 points

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

Site is protected - 20 points
Site is not protected - 0 points

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County ?

(Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with \$1,000 or more in sales.)
As large or larger - 10 points
Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project - 25 points
Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)
Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available - 5 points
Some required services are available - 4 to 1 point(s)
No required services are available - 0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment - 20 points
Moderate amount of on-farm investment - 19 to 1 point(s)
No on-farm investment - 0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area?

Substantial reduction in demand for support services if the site is converted - 25 points
Some reduction in demand for support services if the site is converted - 1 to 24 point(s)
No significant reduction in demand for support services if the site is converted - 0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?

Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points
Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s)
Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points

**FARMLAND CONVERSION IMPACT RATING
FOR CORRIDOR TYPE PROJECTS**

PART I (To be completed by Federal Agency)	3. Date of Land Evaluation Request 10/20/16	4. Sheet 4 of 6
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1. Name of Project DC to Richmond Southeast High Speed Rail	5. Federal Agency Involved Federal Railroad Administration
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2. Type of Project Transportation - Rail and Road	6. County and State Hanover, Virginia
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PART II (To be completed by NRCS)	1. Date Request Received by NRCS 10/20/16	2. Person Completing Form Greg Hammer
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3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated Average Farm Size
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5. Major Crop(s) corn	6. Farmable Land in Government Jurisdiction Acres: 295,635 % 97	7. Amount of Farmland As Defined in FPPA Acres: 194,050 % 64
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8. Name Of Land Evaluation System Used LE of LESA	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS 12/1/16
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PART III (To be completed by Federal Agency)	Alternative Corridor For Segment <u>5</u>			
	Corridor C-Long	Corridor C-Ash	Corridor D	Corridor
A. Total Acres To Be Converted Directly	152.43	151.32	16.09	
B. Total Acres To Be Converted Indirectly, Or To Receive Services	0	0	0	
C. Total Acres In Corridor	159.11	158.68	80.36	

PART IV (To be completed by NRCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	82	83	37	
B. Total Acres Statewide And Local Important Farmland	35	34	32	
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	0	0	0	
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	79	79	76	

PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)	48	48	42	
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PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points				
1. Area in Nonurban Use	15	11	11	5	
2. Perimeter in Nonurban Use	10	7	7	0	
3. Percent Of Corridor Being Farmed	20	20	20	0	
4. Protection Provided By State And Local Government	20	20	20	0	
5. Size of Present Farm Unit Compared To Average	10	10	10	0	
6. Creation Of Nonfarmable Farmland	25	20	20	0	
7. Availability Of Farm Support Services	5	5	5	5	
8. On-Farm Investments	20	20	20	0	
9. Effects Of Conversion On Farm Support Services	25	0	0	0	
10. Compatibility With Existing Agricultural Use	10	10	10	0	
TOTAL CORRIDOR ASSESSMENT POINTS	160	123	123	10	0

PART VII (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)	100	48	48	42	0
Total Corridor Assessment (From Part VI above or a local site assessment)	160	123	123	10	0
TOTAL POINTS (Total of above 2 lines)	260	171	171	52	0

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:

Signature of Person Completing this Part:	DATE
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NOTE: Complete a form for each segment with more than one Alternate Corridor

CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

(1) How much land is in nonurban use within a radius of 1.0 mile from where the project is intended?

More than 90 percent - 15 points
90 to 20 percent - 14 to 1 point(s)
Less than 20 percent - 0 points

(2) How much of the perimeter of the site borders on land in nonurban use?

More than 90 percent - 10 points
90 to 20 percent - 9 to 1 point(s)
Less than 20 percent - 0 points

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?

More than 90 percent - 20 points
90 to 20 percent - 19 to 1 point(s)
Less than 20 percent - 0 points

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

Site is protected - 20 points
Site is not protected - 0 points

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County ?

(Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with \$1,000 or more in sales.)

As large or larger - 10 points
Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project - 25 points
Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)
Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available - 5 points
Some required services are available - 4 to 1 point(s)
No required services are available - 0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment - 20 points
Moderate amount of on-farm investment - 19 to 1 point(s)
No on-farm investment - 0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area?

Substantial reduction in demand for support services if the site is converted - 25 points
Some reduction in demand for support services if the site is converted - 1 to 24 point(s)
No significant reduction in demand for support services if the site is converted - 0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?

Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points
Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s)
Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points

**FARMLAND CONVERSION IMPACT RATING
FOR CORRIDOR TYPE PROJECTS**

PART I (To be completed by Federal Agency)	3. Date of Land Evaluation Request 10/20/16	4. Sheet 5 of 6
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1. Name of Project DC to Richmond Southeast High Speed Rail	5. Federal Agency Involved Federal Railroad Administration
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2. Type of Project Transportation - Rail and Road	6. County and State Hanover, Henrico, Richmond City, Chesterfield
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PART II (To be completed by NRCS)	1. Date Request Received by NRCS 10/20/16	2. Person Completing Form Greg Hammer
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3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated Average Farm Size
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5. Major Crop(s) Corn	6. Farmable Land in Government Jurisdiction Acres: _____ % _____	7. Amount of Farmland As Defined in FPPA Acres: _____ % _____
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8. Name Of Land Evaluation System Used LE of LESA	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS 12/1/16
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PART III (To be completed by Federal Agency)	Alternative Corridor For Segment <u>6</u>			
	Corridor A	Corridor B-A	Corridor B-S	Corridor C
A. Total Acres To Be Converted Directly	52.88	69.58	50.37	93.89
B. Total Acres To Be Converted Indirectly, Or To Receive Services				
C. Total Acres In Corridor	167.35	238.74	222.07	271.53

PART IV (To be completed by NRCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	33	37	28	38
B. Total Acres Statewide And Local Important Farmland	9	12	5	13
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	0	0	0	0
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	-	-	-	-

PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)				
	27	21	20	20

PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points				
1. Area in Nonurban Use	15	0	0	0	0
2. Perimeter in Nonurban Use	10	0	0	0	0
3. Percent Of Corridor Being Farmed	20	0	0	0	0
4. Protection Provided By State And Local Government	20	0	0	0	0
5. Size of Present Farm Unit Compared To Average	10	0	0	0	0
6. Creation Of Nonfarmable Farmland	25	0	0	0	0
7. Availability Of Farm Support Services	5	2	2	2	2
8. On-Farm Investments	20	0	0	0	0
9. Effects Of Conversion On Farm Support Services	25	0	0	0	0
10. Compatibility With Existing Agricultural Use	10	0	0	0	0
TOTAL CORRIDOR ASSESSMENT POINTS	160	2	2	2	2

PART VII (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)	100	27	21	20	20
Total Corridor Assessment (From Part VI above or a local site assessment)	160	2	2	2	2
TOTAL POINTS (Total of above 2 lines)	260	29	23	22	22

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input type="checkbox"/>
-----------------------	---	-----------------------	--

5. Reason For Selection:

Signature of Person Completing this Part:	DATE
---	------

NOTE: Complete a form for each segment with more than one Alternate Corridor

CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

(1) How much land is in nonurban use within a radius of 1.0 mile from where the project is intended?

More than 90 percent - 15 points
90 to 20 percent - 14 to 1 point(s)
Less than 20 percent - 0 points

(2) How much of the perimeter of the site borders on land in nonurban use?

More than 90 percent - 10 points
90 to 20 percent - 9 to 1 point(s)
Less than 20 percent - 0 points

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?

More than 90 percent - 20 points
90 to 20 percent - 19 to 1 point(s)
Less than 20 percent - 0 points

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

Site is protected - 20 points
Site is not protected - 0 points

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County ?

(Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage or Farm Units in Operation with \$1,000 or more in sales.)

As large or larger - 10 points
Below average - deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average - 9 to 0 points

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project - 25 points
Acreage equal to between 25 and 5 percent of the acres directly converted by the project - 1 to 24 point(s)
Acreage equal to less than 5 percent of the acres directly converted by the project - 0 points

(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available - 5 points
Some required services are available - 4 to 1 point(s)
No required services are available - 0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment - 20 points
Moderate amount of on-farm investment - 19 to 1 point(s)
No on-farm investment - 0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area?

Substantial reduction in demand for support services if the site is converted - 25 points
Some reduction in demand for support services if the site is converted - 1 to 24 point(s)
No significant reduction in demand for support services if the site is converted - 0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?

Proposed project is incompatible to existing agricultural use of surrounding farmland - 10 points
Proposed project is tolerable to existing agricultural use of surrounding farmland - 9 to 1 point(s)
Proposed project is fully compatible with existing agricultural use of surrounding farmland - 0 points

**FARMLAND CONVERSION IMPACT RATING
FOR CORRIDOR TYPE PROJECTS**

PART I (To be completed by Federal Agency)	3. Date of Land Evaluation Request 10/26/16	4. Sheet 6 of <u>6</u>
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1. Name of Project DC to Richmond Southeast High Speed Rail	5. Federal Agency Involved Federal Railroad Administration
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2. Type of Project Transportation - Rail and Road	6. County and State Hanover, Henrico, Richmond City, Chesterfield
--	--

PART II (To be completed by NRCS)	1. Date Request Received by NRCS 10/20/16	2. Person Completing Form Greg Hammer
--	---	---

3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	4. Acres Irrigated Average Farm Size
---	--

5. Major Crop(s) Corn	6. Farmable Land in Government Jurisdiction Acres: _____ % _____	7. Amount of Farmland As Defined in FPPA Acres: _____ % _____
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8. Name Of Land Evaluation System Used LE of LESA	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS 12/1/16
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PART III (To be completed by Federal Agency)	Alternative Corridor For Segment <u>6</u>			
	Corridor D	Corridor E	Corridor F	Corridor G
A. Total Acres To Be Converted Directly	45.36	60.04	54.96	54.64
B. Total Acres To Be Converted Indirectly, Or To Receive Services				
C. Total Acres In Corridor	216.21	196.55	226.16	227.83

PART IV (To be completed by NRCS) Land Evaluation Information	Corridor D	Corridor E	Corridor F	Corridor G
A. Total Acres Prime And Unique Farmland	28	34	29	30
B. Total Acres Statewide And Local Important Farmland	5	9	5	5
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted	0	0	0	0
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value	-	-	-	

PART V (To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)	Corridor D	Corridor E	Corridor F	Corridor G
	20	22	17	17

PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))	Maximum Points	Corridor D	Corridor E	Corridor F	Corridor G
1. Area in Nonurban Use	15	0	0	0	0
2. Perimeter in Nonurban Use	10	0	0	0	0
3. Percent Of Corridor Being Farmed	20	0	0	0	0
4. Protection Provided By State And Local Government	20	0	0	0	0
5. Size of Present Farm Unit Compared To Average	10	0	0	0	0
6. Creation Of Nonfarmable Farmland	25	0	0	0	0
7. Availability Of Farm Support Services	5	2	2	2	2
8. On-Farm Investments	20	0	0	0	0
9. Effects Of Conversion On Farm Support Services	25	0	0	0	0
10. Compatibility With Existing Agricultural Use	10	0	0	0	0
TOTAL CORRIDOR ASSESSMENT POINTS	160	2	2	2	2

PART VII (To be completed by Federal Agency)	Maximum Points	Corridor D	Corridor E	Corridor F	Corridor G
Relative Value Of Farmland (From Part V)	100	20	22	17	17
Total Corridor Assessment (From Part VI above or a local site assessment)	160	2	2	2	2
TOTAL POINTS (Total of above 2 lines)	260	22	24	19	19

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
-----------------------	---	-----------------------	---

5. Reason For Selection:

Signature of Person Completing this Part: _____ DATE _____

NOTE: Complete a form for each segment with more than one Alternate Corridor

CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor - type site or design alternative for protection as farmland along with the land evaluation information.

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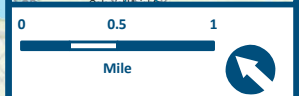
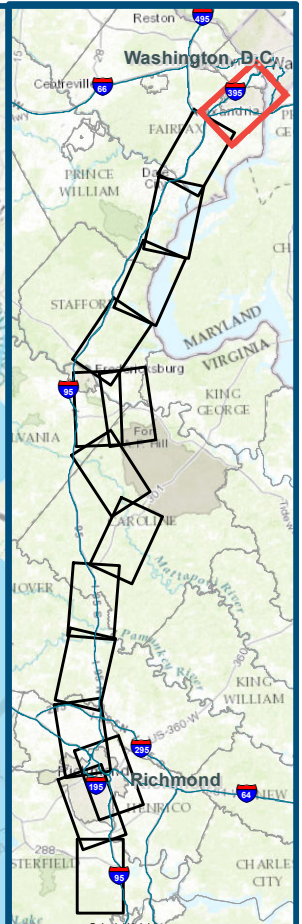
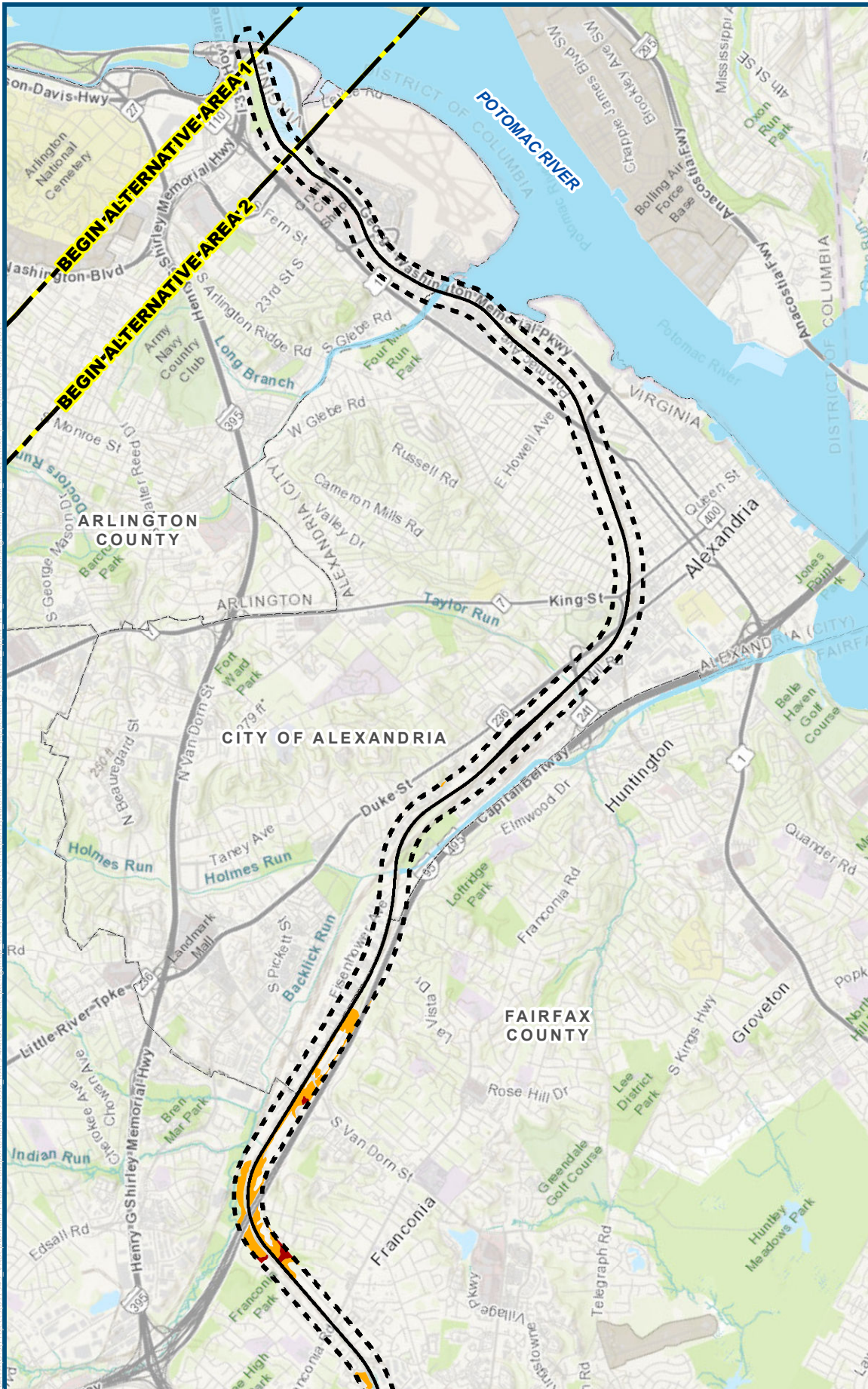
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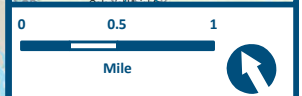
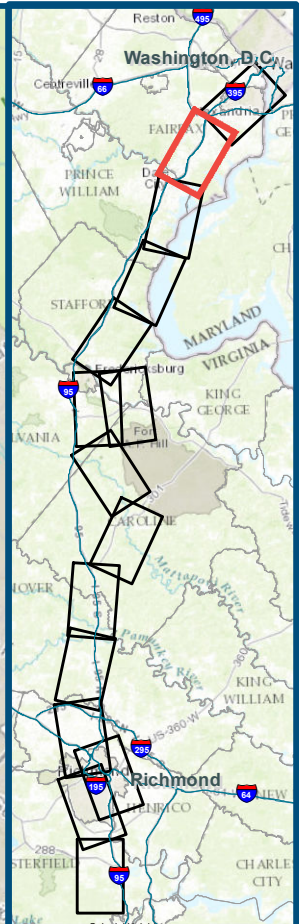
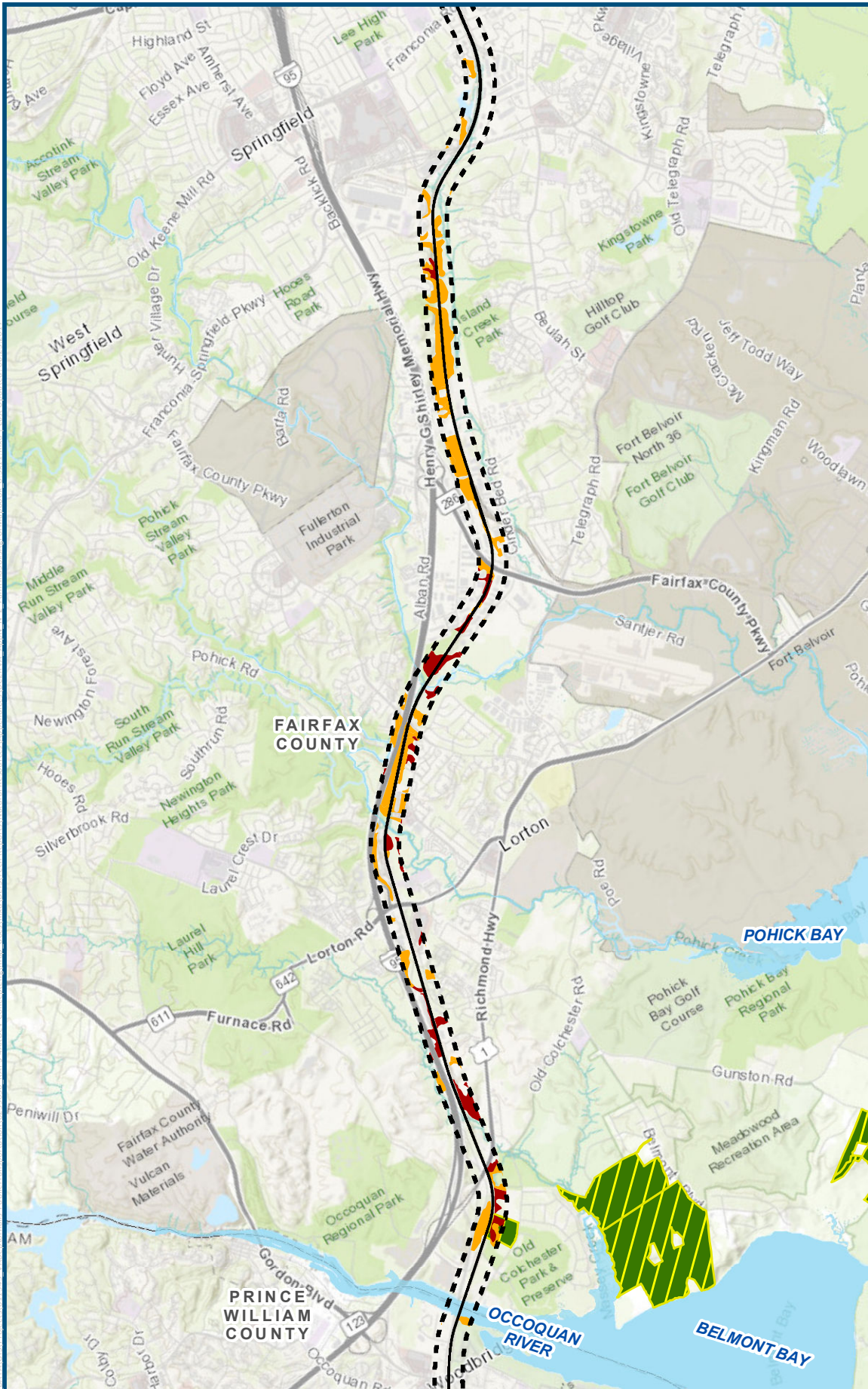
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1 inch = 1 mile
@ 8.5 x 11 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Basemap: ESRI World Transportation
Data Source: VA CEDAR, USDA-NRCS

- Legend**
- Alternative Area Limits
 - DC2RVA Project Corridor
 - 1,000-foot Study Area
 - City/County Boundary
 - Agricultural/ Forestal Districts
- Farmland Classification**
- Prime farmland
 - Farmland of statewide importance

Figure N-2
Farmland Soils and
Agricultural/Forestral
Districts



1 inch = 1 mile
 @ 8.5 x 11 inches

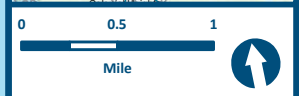
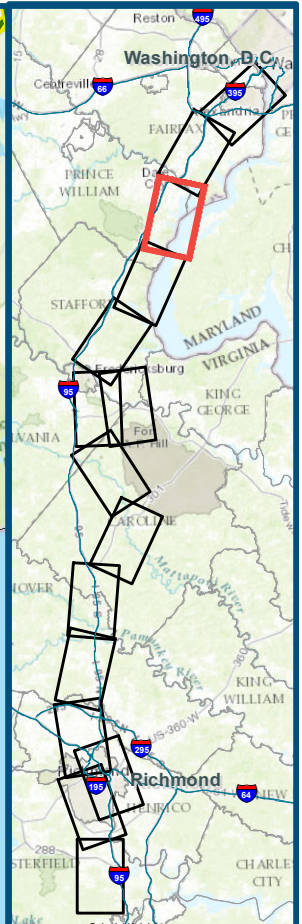
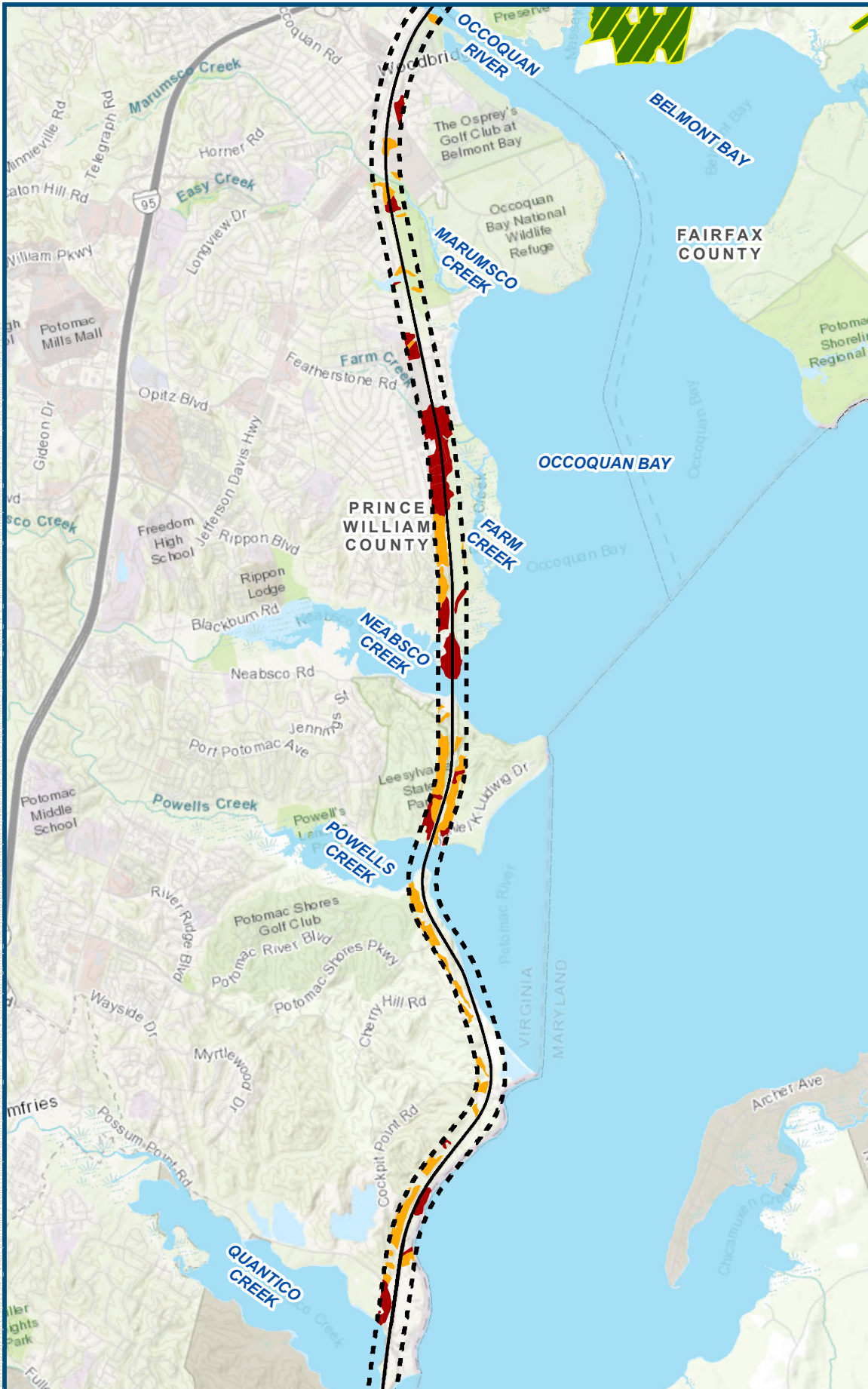
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 North American Datum of 1983

Basemap: ESRI World Transportation
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- ### Legend
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Figure N-2
Farmland Soils and
Agricultural/Forestal
Districts

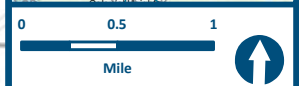
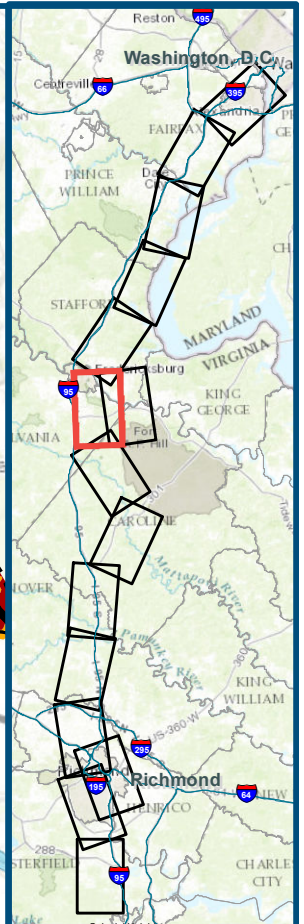
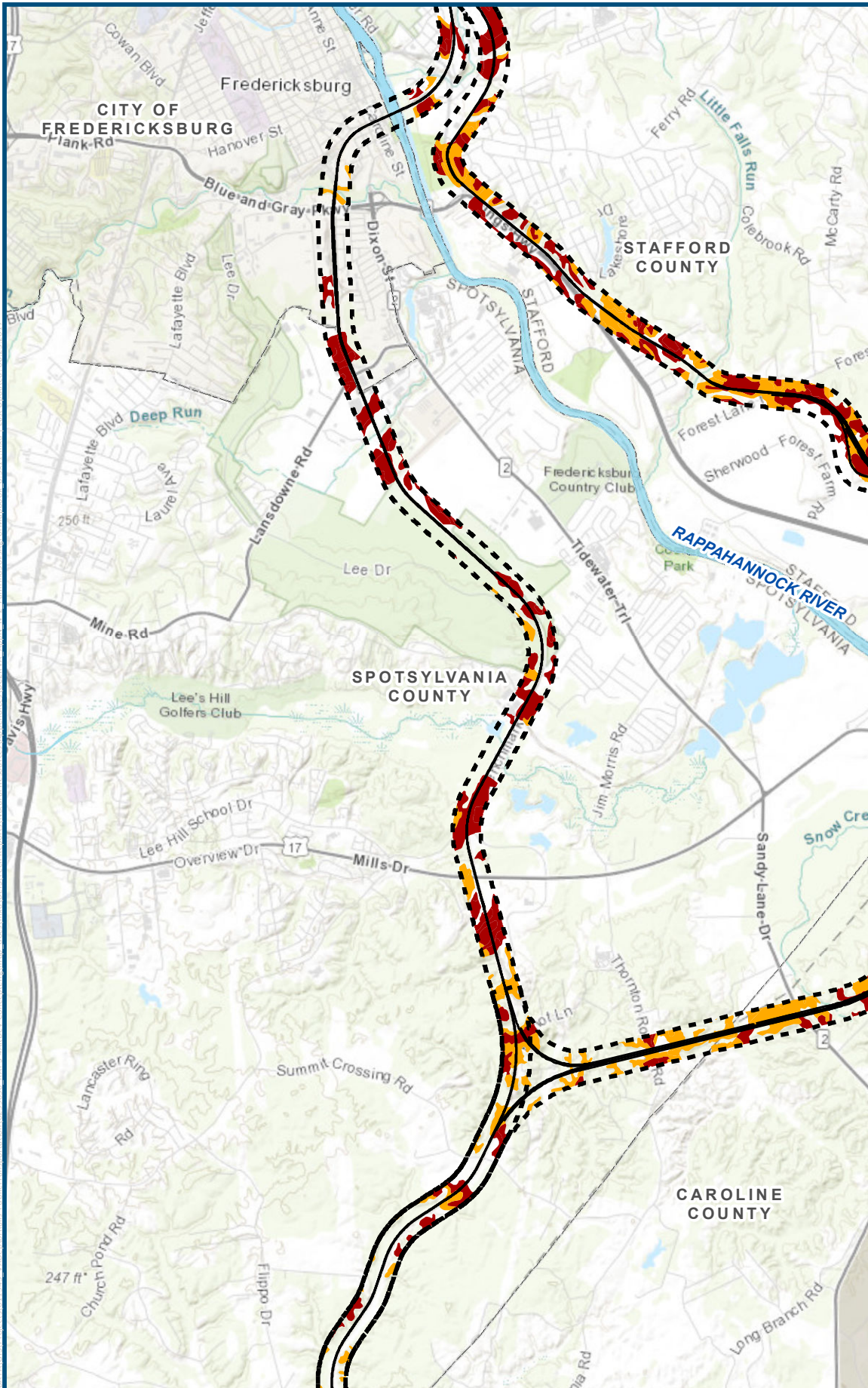
Sheet 2 of 15



1 inch = 1 mile
 @ 8.5 x 11 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Basemap: ESRI World Transportation
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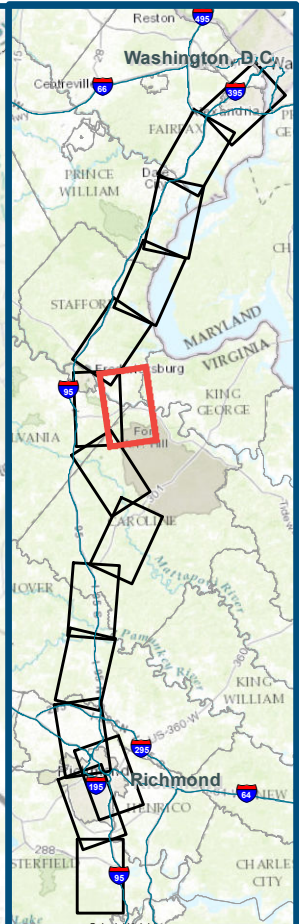
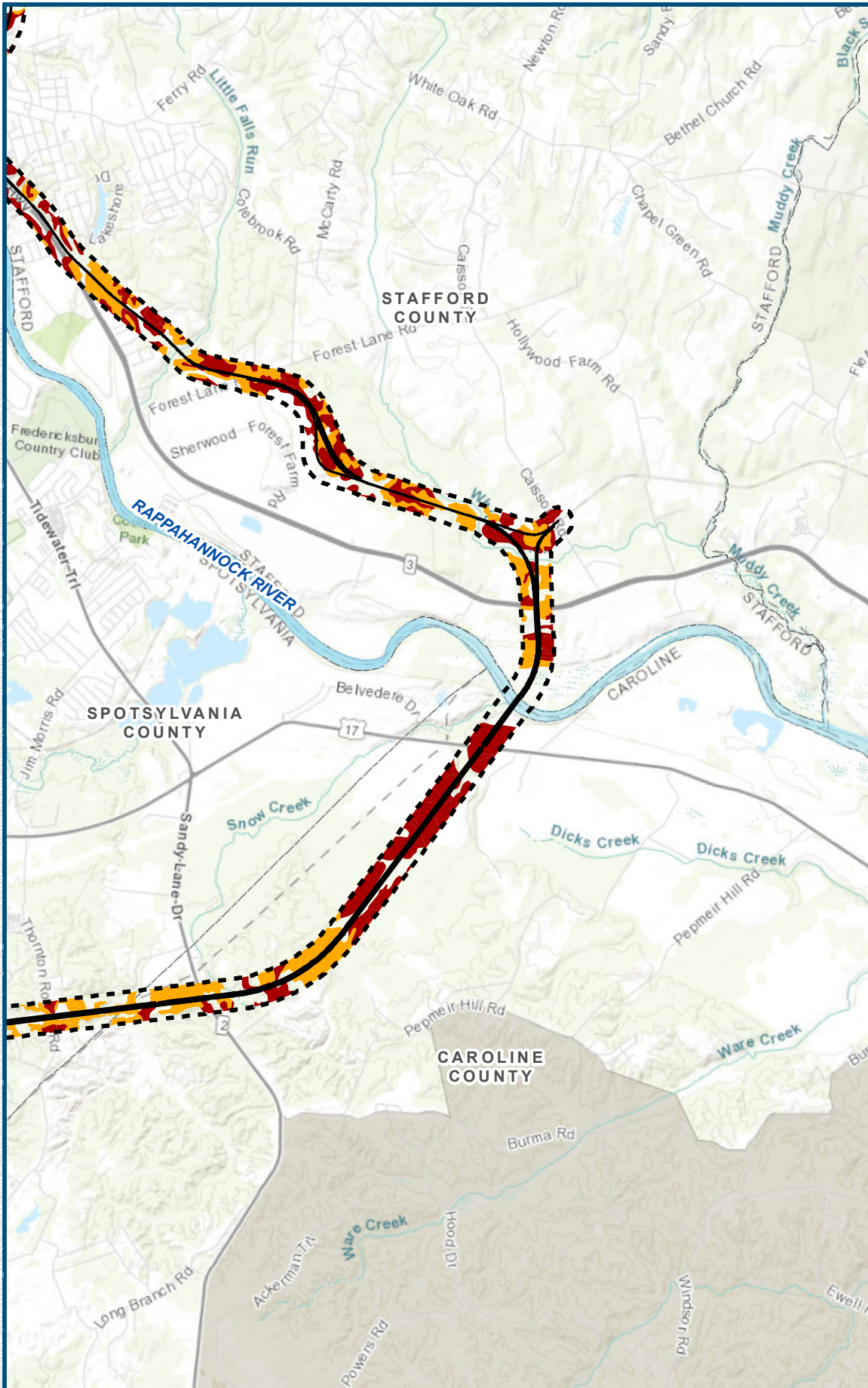
Figure N-2
Farmland Soils and
Agricultural/Forestral
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1 inch = 1 mile
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Figure N-2
Farmland Soils and
Agricultural/Forestal
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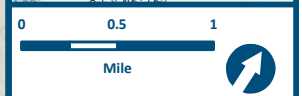
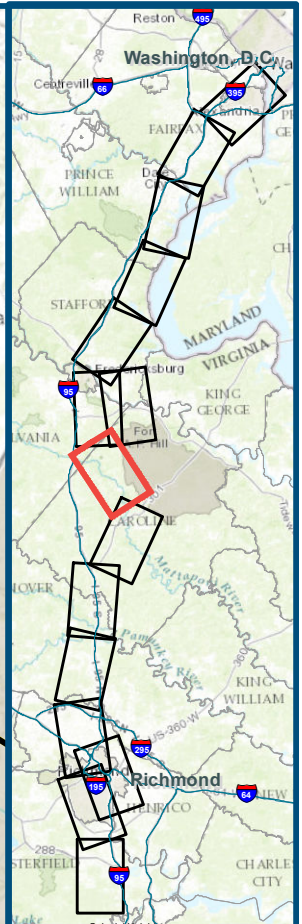
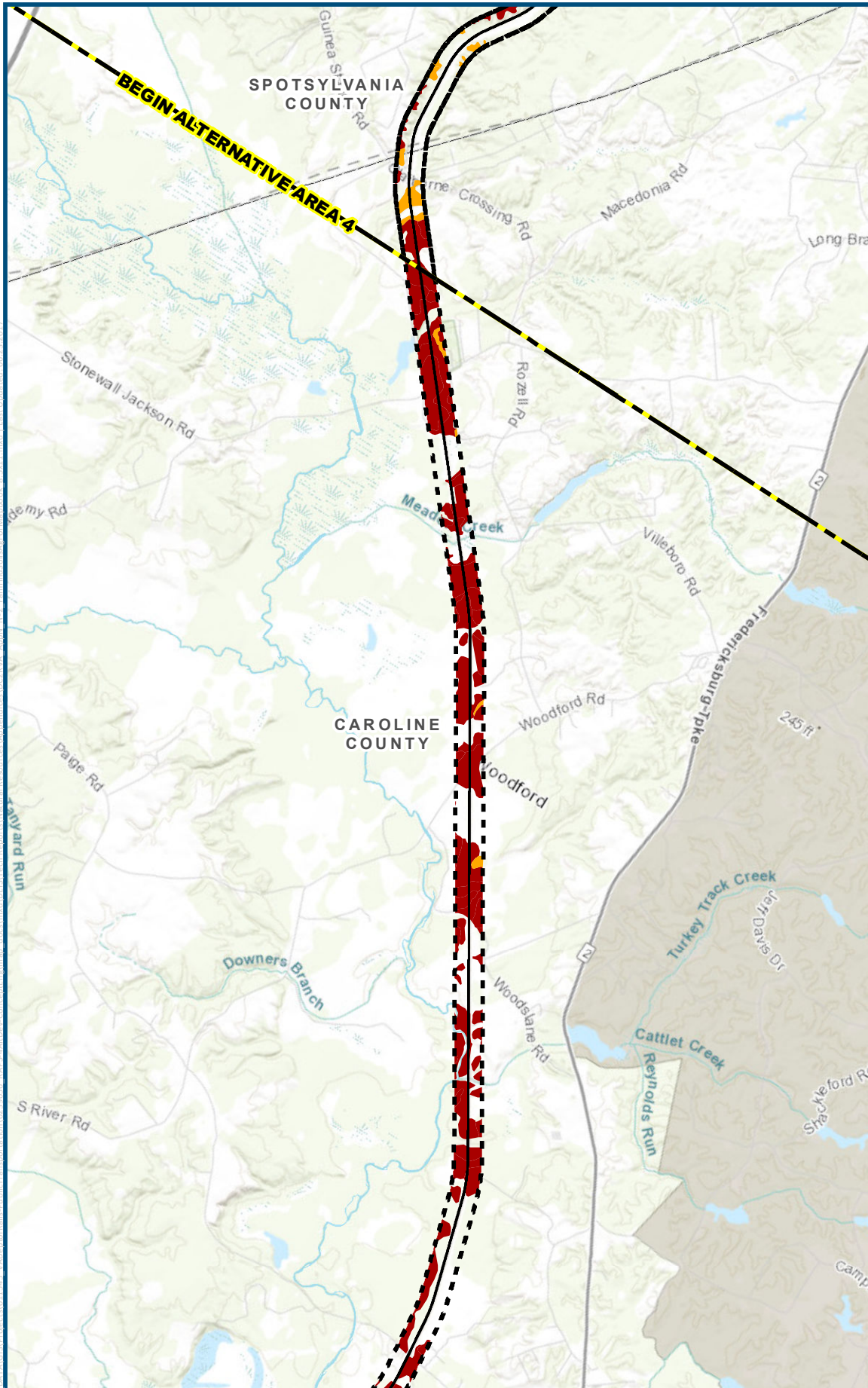
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Mile

1 inch = 1 mile
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Projection: Lambert Conformal Conic
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Figure N-2
Farmland Soils and
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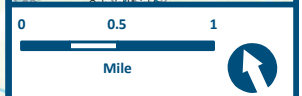
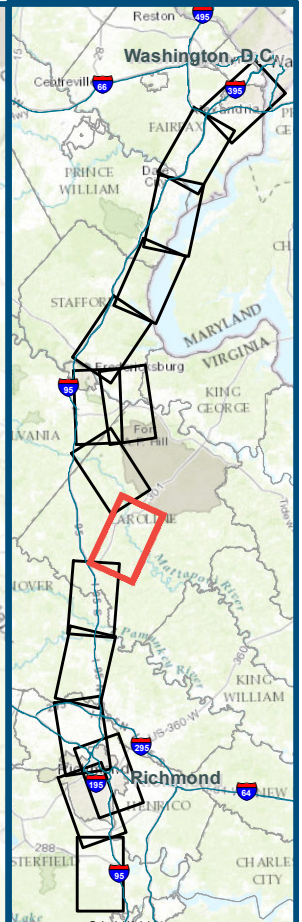
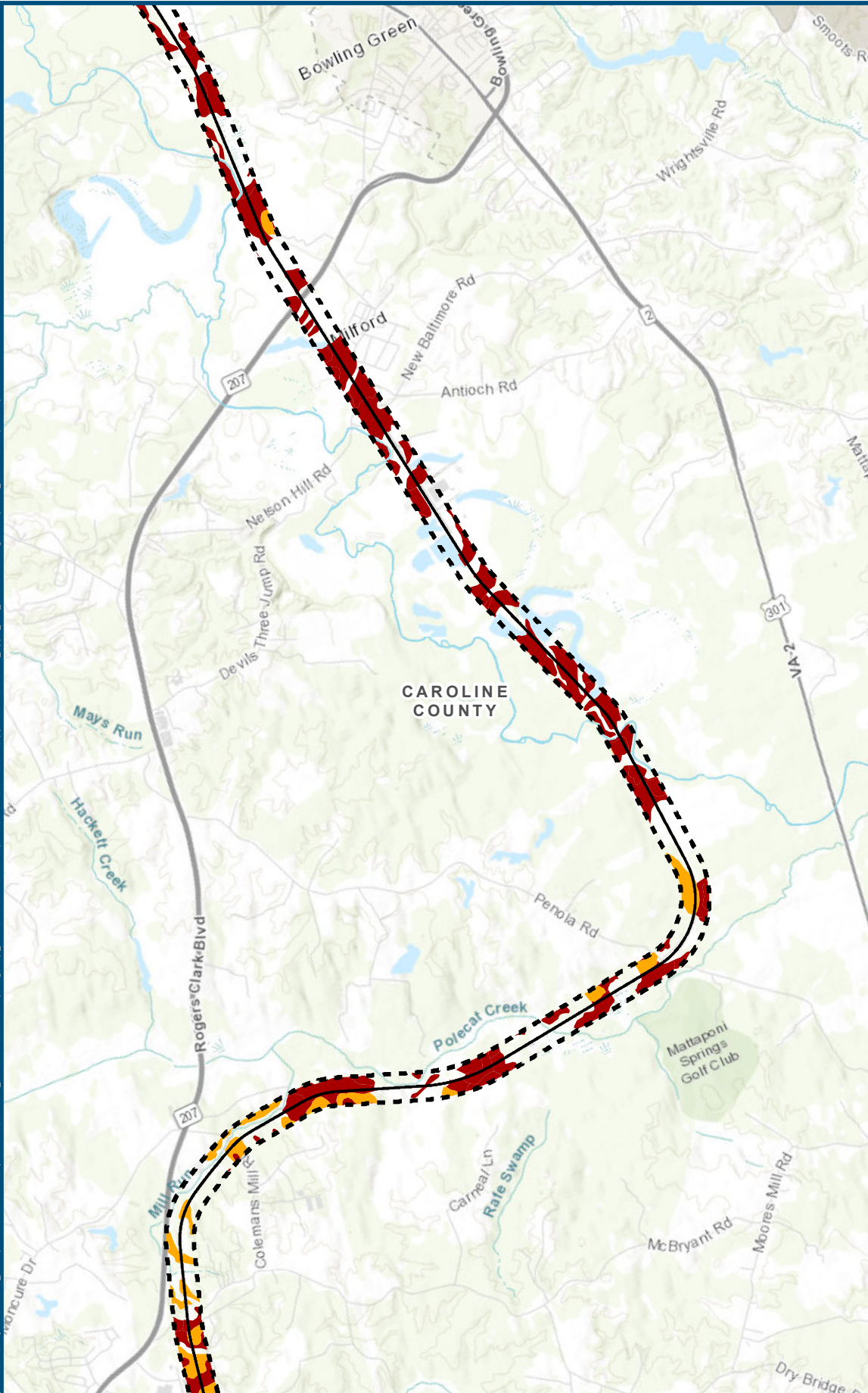
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Figure N-2
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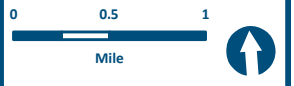
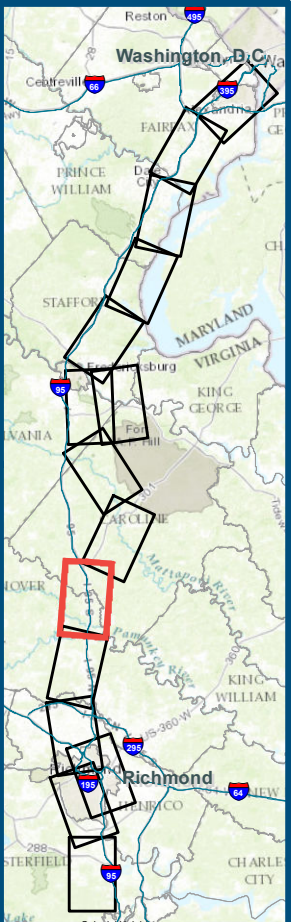
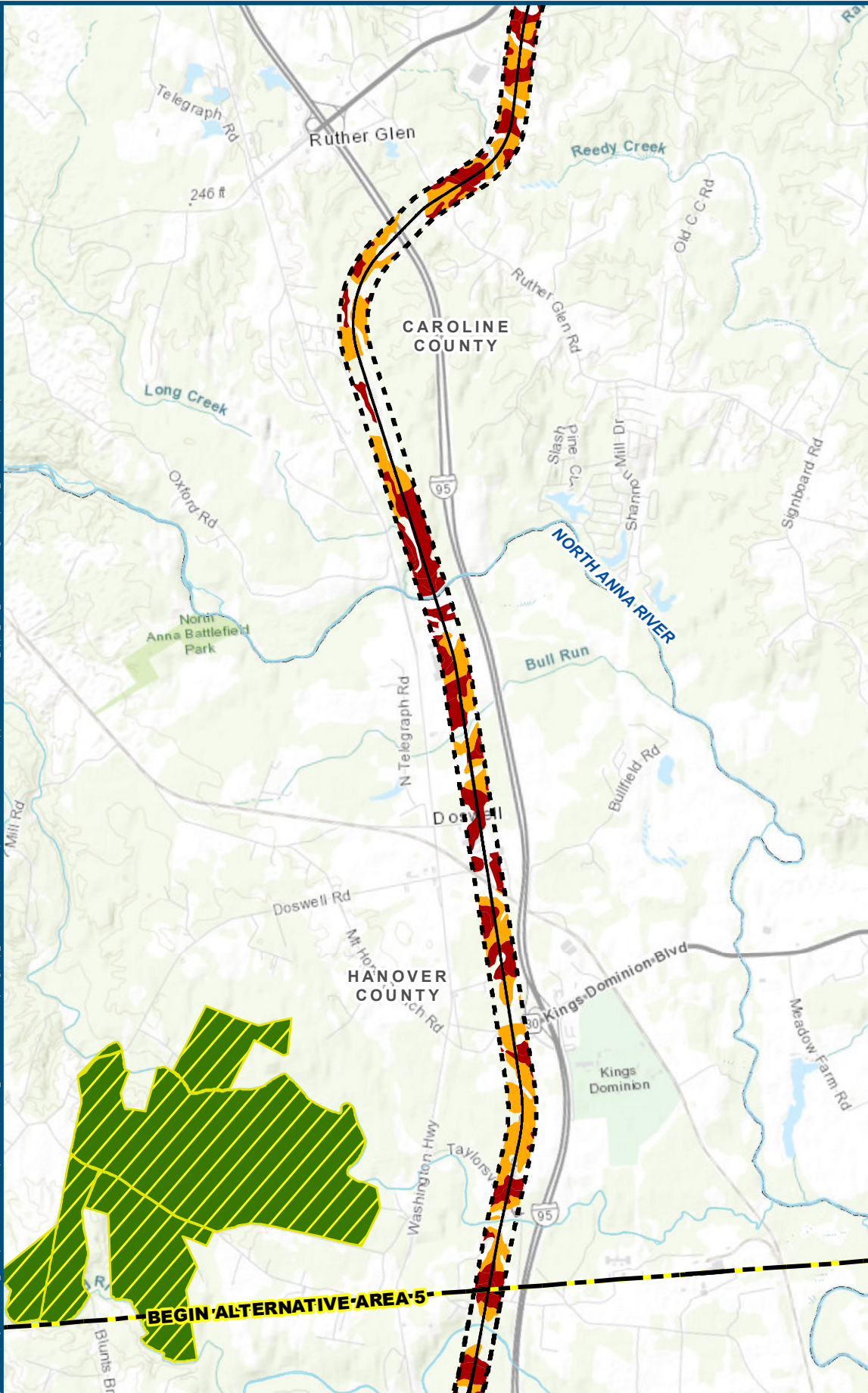
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Figure N-2
Farmland Soils and
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Sheet 9 of 15



1 inch = 1 mile
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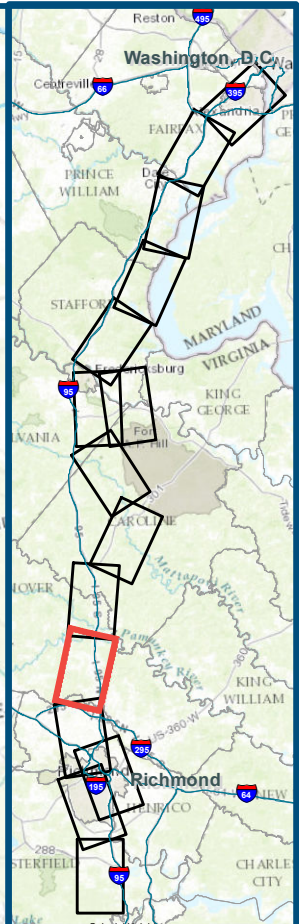
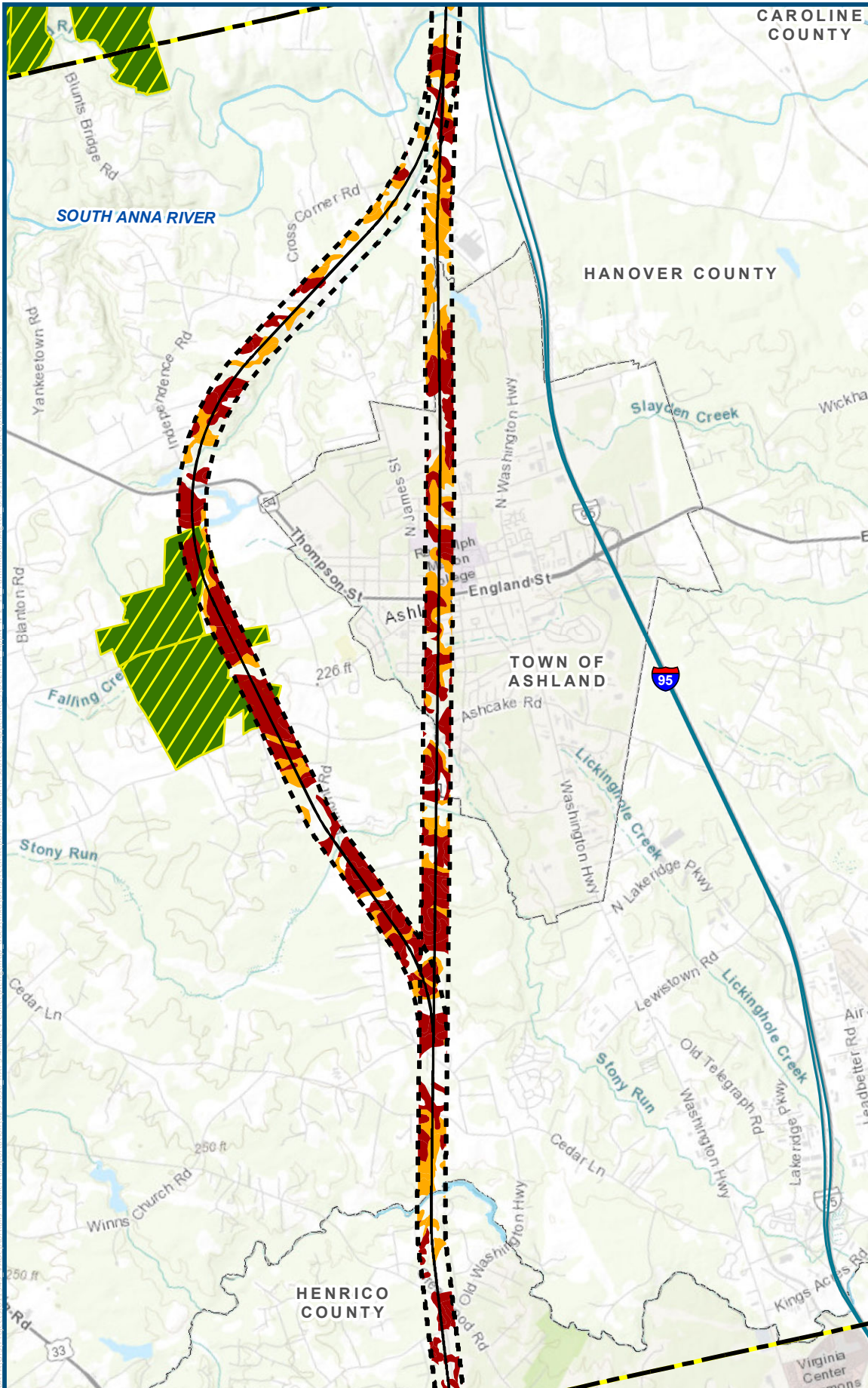
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Figure N-2
Farmland Soils and
Agricultural/Forestal
Districts

Sheet 10 of 15



0 0.5 1
Mile

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Projection: Lambert Conformal Conic
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Legend

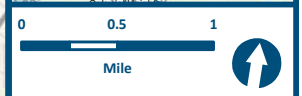
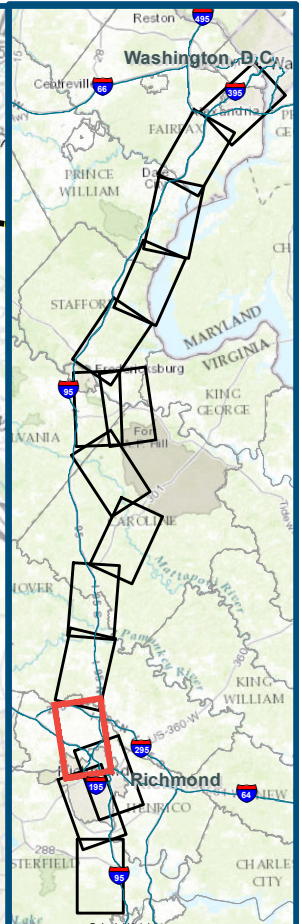
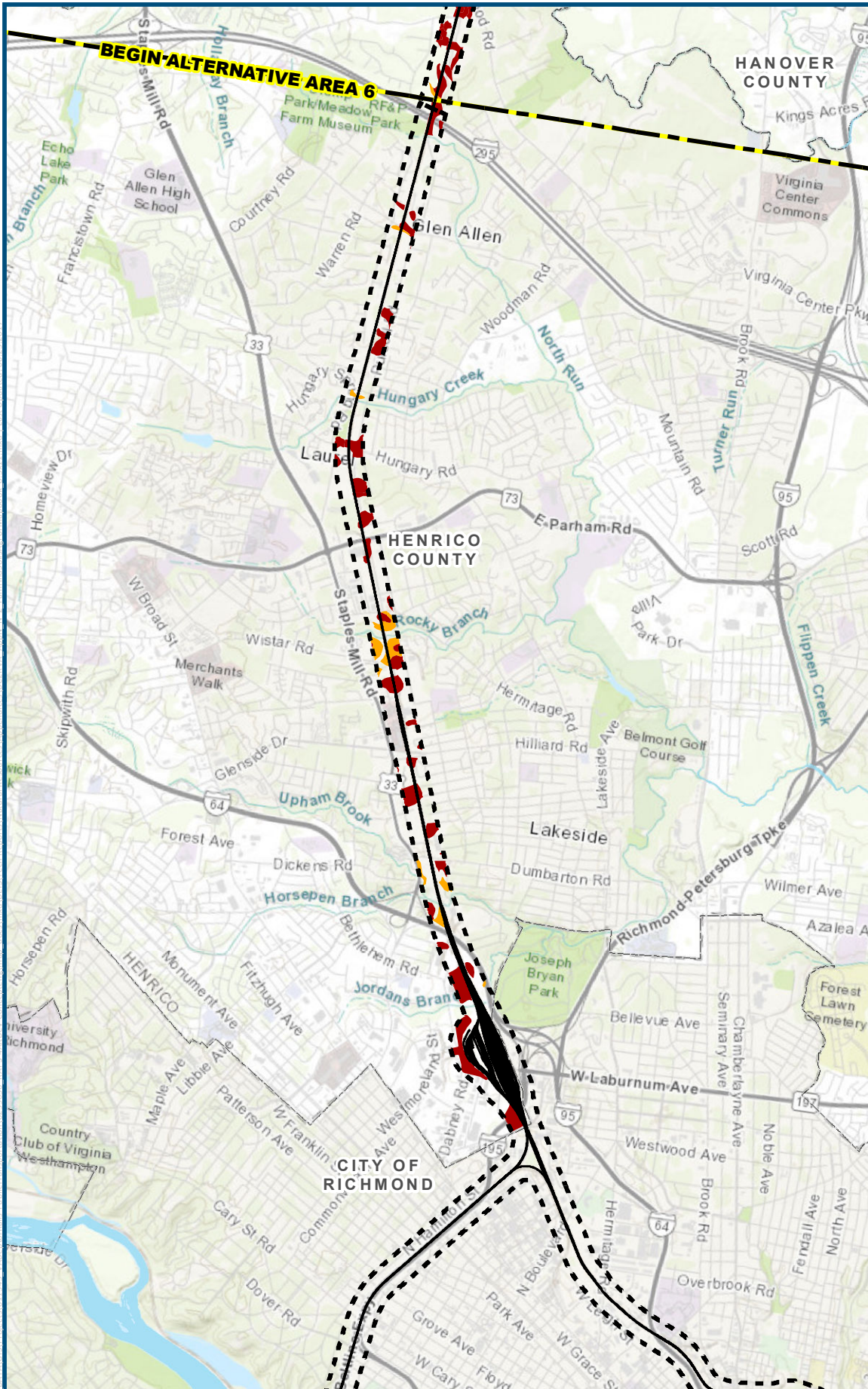
- Alternative Area Limits
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- Agricultural/ Forestal Districts

Farmland Classification

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- Farmland of statewide importance

Figure N-2
Farmland Soils and Agricultural/Forestral Districts

Sheet 11 of 15

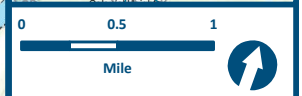
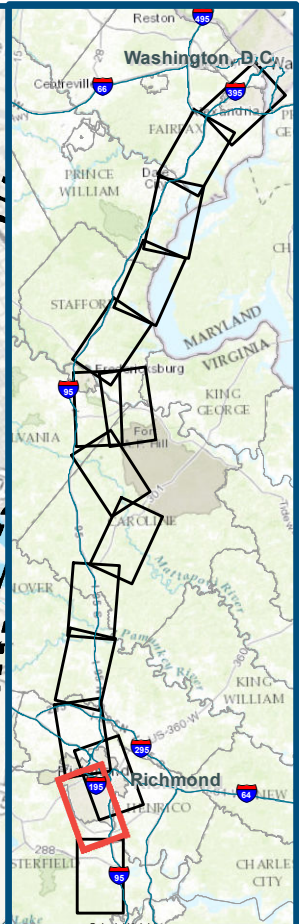
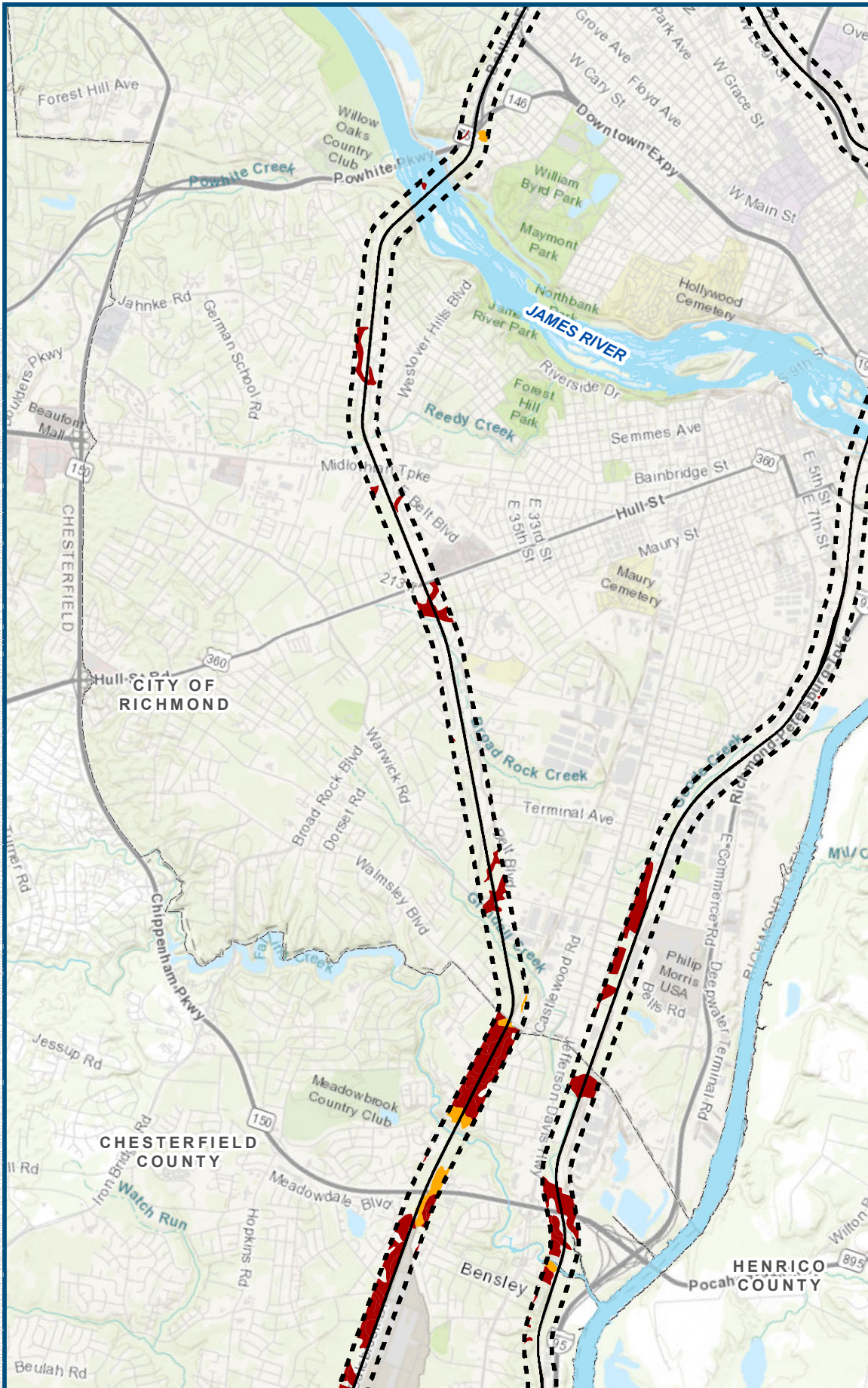


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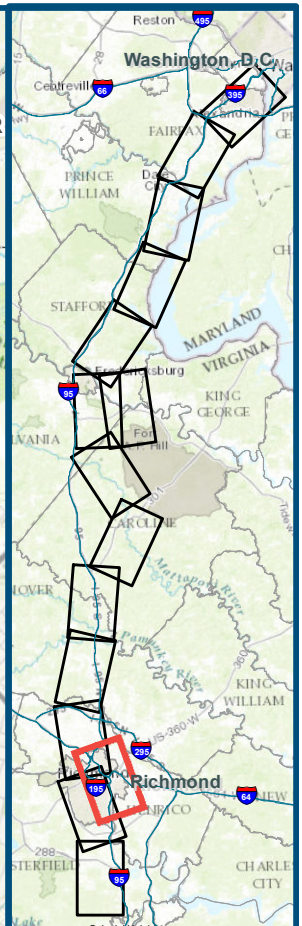
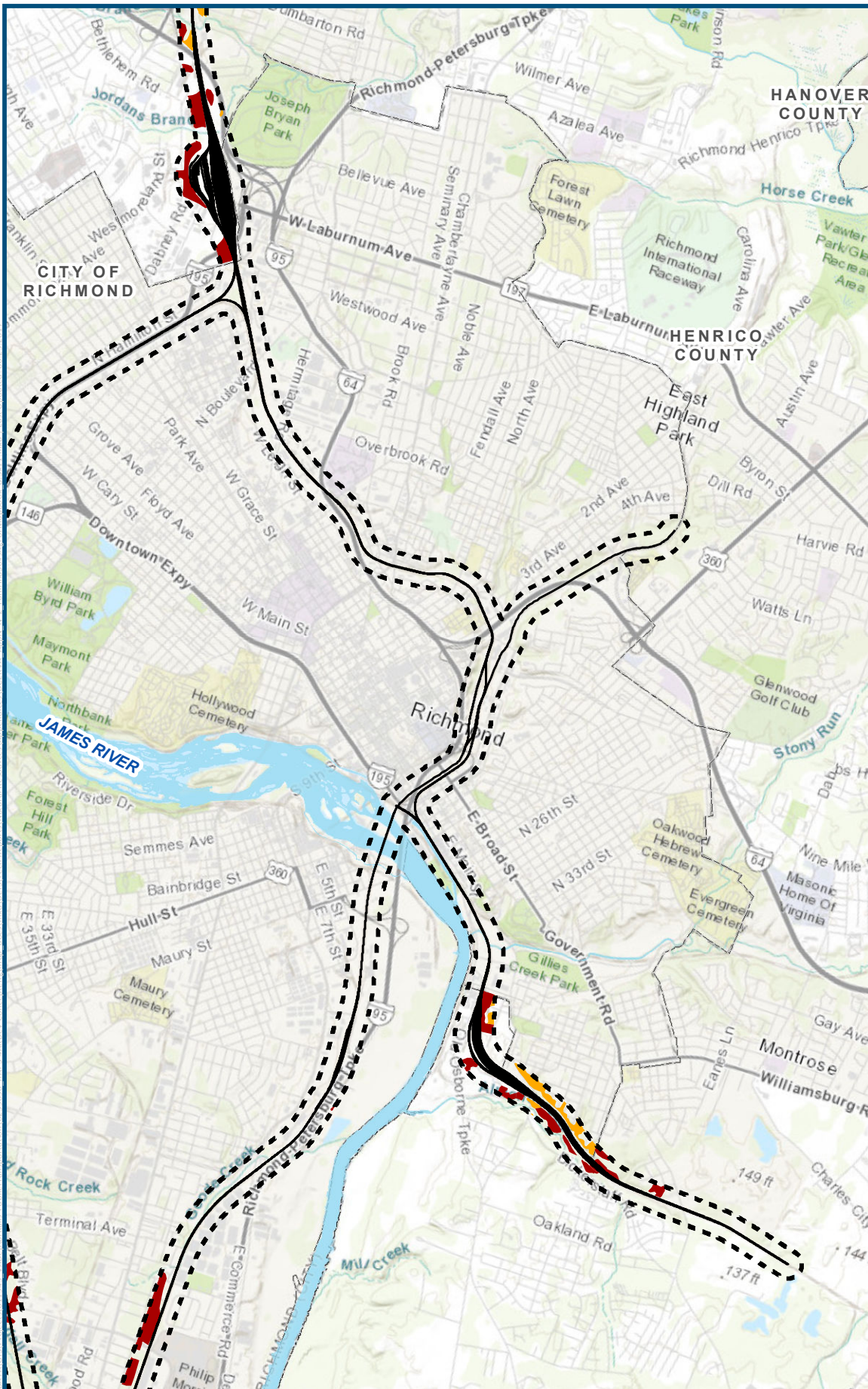
Sheet 12 of 15



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 North American Datum of 1983
 Basemap: ESRI World Transportation
 Data Source: VA CEDAR, USDA-NRCS

- Legend**
- Alternative Area Limits
 - DC2RVA Project Corridor
 - 1,000-foot Study Area
 - City/County Boundary
 - Agricultural/ Forestal Districts
- Farmland Classification**
- Prime farmland
 - Farmland of statewide importance

Figure N-2
Farmland Soils and Agricultural/Forestal Districts
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0 0.5 1
Mile

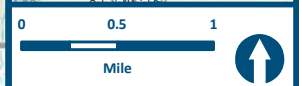
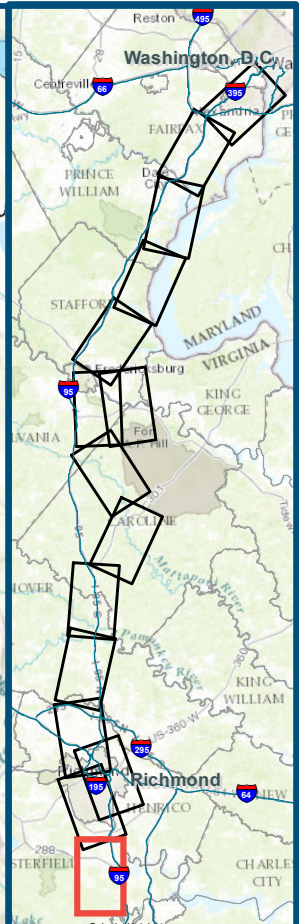
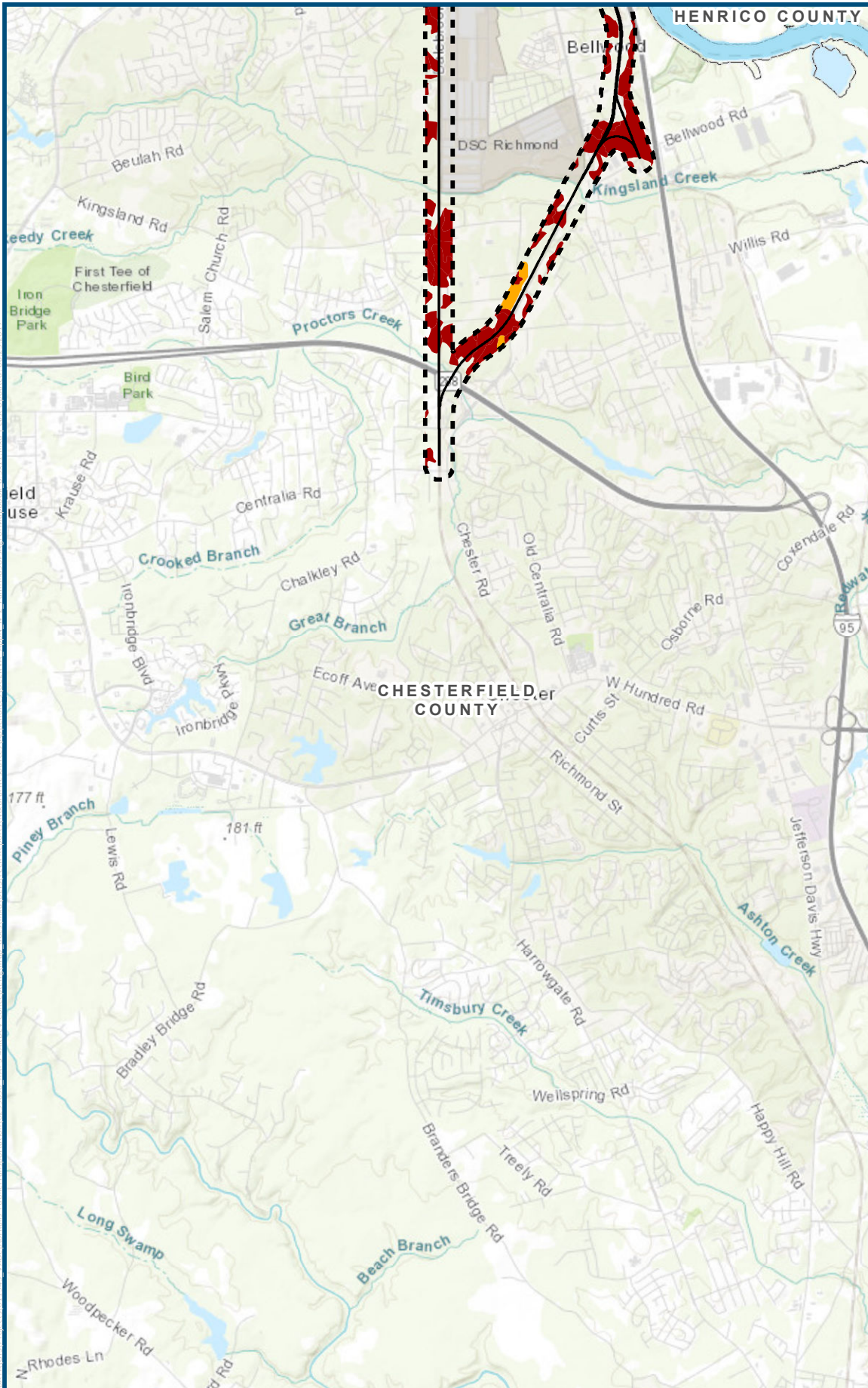
1 inch = 1 mile
@ 8.5 x 11 inches

Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
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