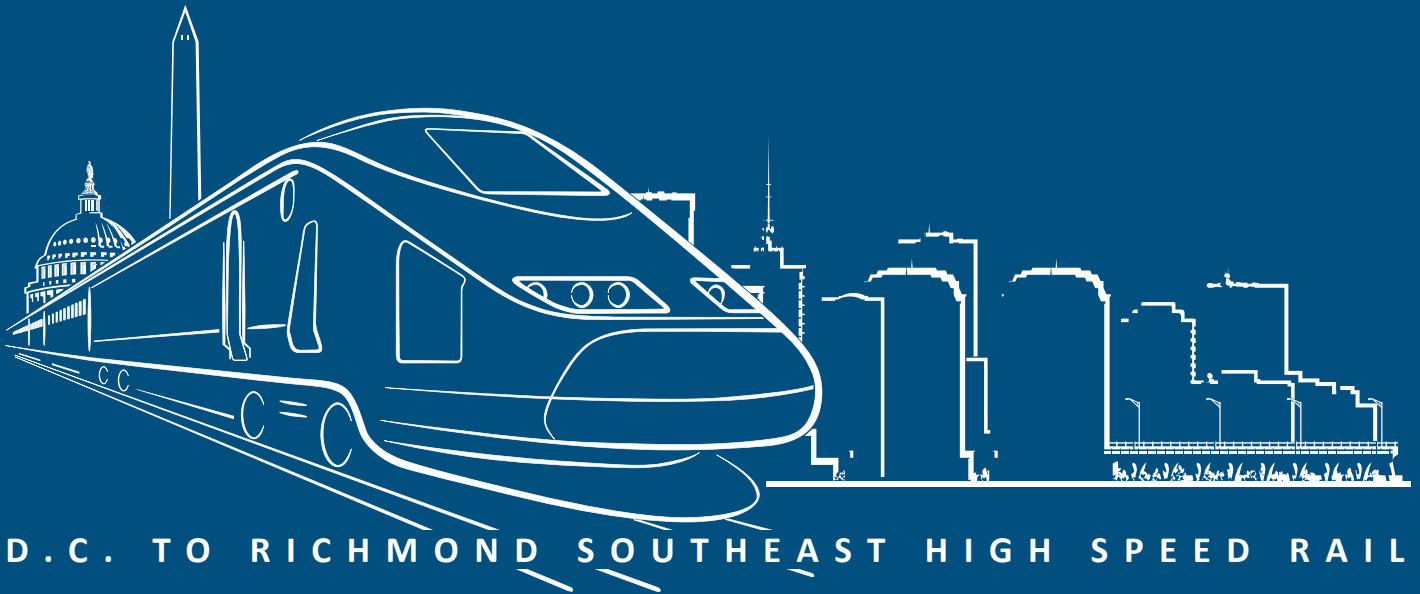


13^{INDEX}



13 INDEX

Accidents	3.15.1.4, 3.17, 4.17, 4.18
Abbreviations and Acronyms	Chapter 10
Aesthetics (Visual Quality)	3.9, 4.9
Affected Environment	Chapter 3
Agency Coordination	6.2, 6.3, Appendix U, Appendix V
Agency Scoping Meetings	6.2.1, 6.3.2
Agricultural Lands	3.3, 4.3, 4.11.5
Agricultural and Forestal Districts	3.3.2, 4.3.2
Air Quality	1.5.2.7, 3.6, 4.6, Appendix T
Air Travel/Aviation	1.5.2.4
Alternatives Considered and Dismissed ..	2.4
Alternatives Development Process	2.1, 2.3, 2.4
Amtrak	2.2, 4.15.1
Anadromous Fish	3.10.4.1, 4.10.2.3, 4.19.1
Aquifers	3.1.7, 4.1.4, 4.1.6
Aquatic Communities	3.10.4, 4.10.2.3
Archaeological Resources	3.13.1, 4.13.1, Appendix R
Ashland Bypass	2.3.3.1, 2.4.5, 2.5.2.5
At-grade Crossings (see Grade Crossings/ Grade Separation)	
Avoidance Alternatives	5.5
Bald Eagles	3.10.5, 4.10.3.1
Basis of Design	Appendix B
Battlefields	3.13.2.2, 4.13.3
Bicycle Facilities	3.15.1.3, 4.15.2.2, 4.20.1.4
Biological Resources	3.10, 4.10
Birds	3.10.3.1, 3.10.3.2, 4.10.2.1, 4.10.2.2
Boulevard Station	2.4.3.1, 2.4.3.2, 2.5.2.6
Bridges (over roadways)	2.3.2.3, 2.3.3.1, 2.4.1.1, 2.5.2
Bridges (over water) ...	2.3.2.3, 2.3.3.1, 2.4.1.1, 2.5.1.1, 2.5.2
Broad Street Station	2.4.3.1, 2.4.3.2, 2.5.2.6
Build Alternatives	2.5.2
Business Displacements	4.11.1, Appendix Q
Capacity (Rail)	1.5.2.5
Capacity (Roadway)	1.5.2.3
Carbon Monoxide Emissions	4.6.3
Chesapeake Bay Preservation Areas ..	3.1.3.4, 4.1.5.10
Clean Air Act	3.6.2, 4.6.4
Clean Air Nonroad Diesel Rule	3.6.3

Clean Water Act3.1, 4.1

Coastal Zone Management Areas.....3.1.3.5,
4.1.1.1

Community Facilities and Services3.11.5,
4.11.3, Appendix Q

Compatibility with Future Land Use Plans...
4.11.5.2

Compatibility with Transportation Plans.....
4.11.5.3

Congestion 1.5.2.3, 1.5.2.4

Construction (Approach).....2.8

Construction (Impacts).....4.19

Consulting Parties (Section 106)6.3.1

Cooperating and Participating Agencies..6.2

Corridor Description 1.3

Costs (Capital) 2.7.1, Appendix K

Costs (Operating and Maintenance).....2.7.2

County and Municipal Planning3.11.3.2,
4.11.5.3

Cultural Resources (*see also* Archaeological
and Historical Resources).....3.13, 4.13,
Appendix R, Appendix U

Cumulative Impacts.....4.20.2

Demand Forecasting.....Appendix J

Demographics.....3.11

Designated Waters3.1.3

Displacements.....4.11.4

Distribution of Draft EISChapter 8

Drainage Basins3.1.1

Drinking Water.....3.1.7, 4.1.4

Economics..... 3.11.2.1, 4.11.1

Elderly & Disabled Populations 3.12, 4.12

Emergency Services 3.11

Employment and Income 3.11.2, 4.12

Energy 1.5.2.7, 3.8, 4.8

Environmental Consequences..... Chapter 4

Environmental Justice 3.12, 4.12,
Appendix Q

Evaluation Criteria 2.3.2, 2.4.1

Existing Conditions Chapter 3

Farmland..... 3.3.1, 4.3.1

Farmland Conversion Impact Rating
Forms 4.3.1, Appendix N

Fish..... 3.10.4.1, 4.10.2.3

Floodplains and Floodways 3.1.5, 4.1.1.2

Fredericksburg Bypass... 2.3.3.1, 2.4.4, 2.5.2.3

Freight 1.5.2.2

Future Growth..... 2.5.1.2

Geology 3.2.2, 4.2.2

Grade Crossings/Grade Separation... 2.3.2.3,
3.17.2, 4.15.2, Appendix S

Greenhouse Gases..... 3.6.6, 4.6.4

Greenways 3.14.3, 3.14.5, 3.14.7, 3.15.1

Groundwater 3.1.4, 3.1.7, 4.1.1, 4.1.3, 4.1.4,
4.19.1.5

Hazardous Materials and Waste 3.5, 4.5,
Appendix O

Health and Safety..... 3.17, 4.18

High Speed Rail 2.1

- Highway Transportation3.15
- Highway Vehicle Operations3.15
- Historical Resources3.13, 4.13.2,
Appendix R
- I**ndirect and Cumulative Impacts4.20
- Invasive Species.....3.10.2, 4.10.1.2
- Irreversible Commitment of Resources ..4.22
- L**and Use3.11.3, 4.11.5
- Limited English Proficiency3.11.1
- Local Officials Coordination.....6.2.3
- Local and Regional Plans and Policies.....
3.11.3.2, 4.11.5
- Locomotive Operations4.6.1
- Long Bridge.....1.6.4
- M**ailing List.....6.1.6
- Main Street Station..... 2.4.3.1, 2.4.3.2, 2.5.2.6
- Minority Communities3.12, 4.12
- Migratory Birds3.10.3.2, 4.10.2.2
- Migratory Bird Treaty Act3.10.3.2
- Mineral Resources.....3.4, 4.4
- Mitigation..... 4.1.6, 4.2.4, 4.4.2, 4.5.2, 4.7.1,
4.7.2, 4.9.2, 4.10.1.4, 4.10.2.4, 4.10.3.2,
4.13.4, 4.14.2, 5.6
- Mobile Source Air Toxics3.6.4, 4.6.2,
Appendix T
- MS4 Permit.....4.1.5.8
- N**ational Ambient Air Quality Standards ...
3.6.1
- National Environmental Policy Act.....3.6.6
- National High Speed Rail Program..... 1.6.1
- National Register of Historic Places..... 3.13,
4.13
- Navigable Waters 3.1.3.1, 4.1.1.1, 4.1.5
- Neighborhood and Communities 3.11.4,
4.11.2
- Newsletters 6.1.8
- No Build Alternative 2.5.1
- Noise 3.7.1, 4.7.1, Appendix P
- Noise Mitigation 4.7.1.5
- Numbers of Trains..... 2.2.1.2, 2.2.2, 2.2.3,
2.5.1.2
- O**pen Space Easements 3.10.1.4
- Operating and Maintenance Costs 2.7.2
- Operations Analysis 2.6.1
- Operational Impacts Chapter 4
- P**arks (federal, state and local)..... 3.14, 4.14
- Participating Agencies 6.2
- Patronage/Ridership..... 2.6.2
- Pedestrian Facilities .. 3.14.3, 3.15.1.3, 4.15.2.2
- Pedestrian Safety..... 4.17
- Permits..... 4.1.5
- Places of Worship and Cemeteries 3.11.5,
4.11.3
- Particulate Matter (Hot-Spot Analysis)
3.6.5, 4.6.2, 4.6.3, 4.19.2.3
- Population Characteristics..... 1.5.2.1, 3.11.1,
4.12
- Preferred Alternative..... Chapter 7
- Preparers Chapter 9

Press Releases	6.1.10	Richmond to Hampton Roads Rail	1.6.2.4
Prime and Unique Farmland	3.3.1, 4.3.1	Richmond to Raleigh High Speed Rail	1.6.2.3
Priority Conservation Areas	3.10.1.4, 4.10.1.1	Right-of-Way	4.11.4, Appendices C-H
Project Alternatives	2.5.2	Riparian Areas	3.1.4, 3.10.1, 4.1.1, 4.10.1
Project Areas and Segments	2.3.1	Rivers	3.1.2, 4.1.1
Project Benefits	1.7	Roads	2.3.2.3, 3.15, 4.11.2.2
Project Description	1.3, 1.6	S afety and Security	3.17.2, 4.17
Project Location	1.2	Scenic Rivers	3.1.3.2
Property Owner Notifications	6.1.7	Scoping	6.1.4
Proposed Action	1.4	Screening Process	2.3, 2.4
Public Comments	1.5.3, 6.1.3	Section 4(f)	3.14.7, 4.14, Chapter 5
Public Education Facilities/Schools	3.11.5 4.11.3	Section 6(f)	3.14.6, 4.14.1
Public Involvement	6.1, Appendix V	Section 401 – Point Source Permit	4.1.5.1
Public Meetings	6.1.5	Section 402 – Water Quality Certificate	4.1.5.2
Public Water Supplies	3.1.6, 4.1.4	Section 404 – Dredge and Fill Permit ..	4.1.5.3
Purpose and Need	1.4, 1.5, 2.3.2.2	Section 9 of the Rivers and Harbors Act	4.1.5.5
R ail Alignment Alternatives	2.3.3.1, 2.4, 2.5.2	Section 10 of the Rivers and Harbors Act	4.1.5.6
Recreational Areas	3.14, 4.14	Section 106 of National Historic Preservation Act	3.13, 4.13
References	Chapter 12	Segment Descriptions	2.3.1
Regional Planning	3.11.3.2, 4.11.5.2	Selection of the Preferred Alternative Chapter 7	
Related Studies and Plans	1.6	Service Options	2.2.3, 2.3.3.3, 2.4.3.1, 2.5.2.6, Appendix G
Residential Displacements/Relocation	4.11.4, Appendix Q	Service Plan	2.2, Appendix I
Resource Maps	Chapter 3, Appendix M, Appendix N, Appendix O, Appendix Q, Appendix R	Short-Term Effects and Long-Term Benefits	4.21
Ridership	2.6.2, 4.15.1, Appendix J		

Simulation Modeling	2.6.1	Transportation Facilities	3.15, 4.15
Soils	3.2.3, 4.2.3	Transportation/Multimodal Connectivity....	4.15.1, 4.15.2
Southeast High Speed Rail.....	1.5.1, 1.6.2	Travel Time/Service Reliability.....	1.5
Southeast High Speed Rail Corridor	1.1, 1.5, 2.1.1	Tribal Lands.....	3.13.2.3
Solid Wastes.....	3.5, 4.5	Trout Waters.....	3.10.4.1, 4.10.2.3
Speed Assumptions	Appendix I	Tunnels.....	2.4.5, 2.6.1.2
Staples Mill Station	2.4.3.1, 2.4.3.2, 2.5.2.6	U tilities	3.16, 4.16
State Scenic Rivers.....	3.1.3.2, 4.1.1.1	V ehicle Delay.....	4.15.1, 4.15.2
Stations	3.15.1.3	VDOT Relocation Policies.....	4.11.1
Stormwater Management/Drainage...	4.1.1.3	Vibration	3.7.2, 4.7.2, Appendix P
Streams	3.1.2, 4.1.1	Vibration Mitigation.....	4.7.2.5
Study Area	3.0	Virginia Outdoors Foundation	3.10.1.4
Subaqueous Stream Bed Bottom Permit.....	4.1.5.4	Virginia Avenue Tunnel	1.6.3
Submerged Aquatic Vegetation.....	3.10.5, 4.10.3	Virginia Railway Express	3.15.1.2
Surface Waters.....	3.1.2, 4.1.1	Virginia Water Protection Permit.....	4.1.5.7
T ask Force.....	6.2.2	Visual Quality	3.9, 4.9
Terrestrial Communities	3.10	Vulnerable Populations	(see Environmental Justice)
Threatened and Endangered Species ..	3.10.5, 4.10.3	W ashington Union Station.....	1.6.5
Time of Year Restrictions.....	4.19.2.6	Water Quality	3.1.6, 4.1.3
Title VI	3.12, 4.12, Appendix Q	Water Resources.....	3.1, 4.1
Topography.....	3.2.1, 4.2.1	Water Supply.....	3.1.7, 4.1.4
Track Geometry.....	Appendices C-H	Waters of the U.S.	3.1
Traffic Conditions	Appendix S	Website.....	6.1.9
Trails	3.14.5, 4.14.1	Wildlife and Waterfowl Refuges	3.10.1, 3.14.4, 4.14.1
Train Types	2.2.1.1	Wildlife Habitats.....	3.10.3, 4.10.2
Transit.....	3.15.1, 3.11.3.2, 4.15.1	WMATA.....	3.11.3.2, 3.15.1.3

Wetlands..... 3.1.4, 4.1.2, Appendix M

Wild and Scenic Rivers..... 3.1.3.2, 4.1.1.1