

Hampton Roads 2040

Long-Range Transportation Plan:

Prioritization of Transportation Projects

Project Evaluation and Scoring



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REPORT DOCUMENTATION

TITLE

Hampton Roads 2040 Long-Range Transportation Plan:
Prioritization of Transportation Projects
Candidate Project Evaluation and Scoring

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ABSTRACT

The Hampton Roads Transportation Planning Organization (HRTPO) is currently in the process of updating the regional Long-Range Transportation Plan to the horizon year 2040. As part of this process and in keeping with federal regulations, HRTPO must consider multimodal transportation options to effectively address future regional needs based upon projected population and employment growth for the next 20 years. To accomplish this task, staff developed a list of approximately 200 candidate transportation projects to be considered for inclusion in the 2040 LRTP. The evaluation and scoring of these candidate projects is summarized within the document and will serve as a guiding tool in developing regional transportation priorities. This document will also be used in the development of a fiscally-constrained 2040 Long-Range Transportation Plan.

ACKNOWLEDGEMENTS

This document was prepared by the Hampton Roads Transportation Planning Organization (HRTPO) in cooperation with the U.S. Department of Transportation (USDOT), Federal Highway Administration (FHWA), Federal Transit Administration (FTA), Virginia Department of Transportation (VDOT), Virginia Department of Rail and Public Transportation (DRPT), Transportation District Commission of Hampton Roads (TDCHR), and Williamsburg Area Transit Authority

REPORT DATE

April 2015

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(WATA). The contents of this report reflect the views of the HRTPO. The HRTPO staff is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the FHWA, FTA, VDOT or DRPT. This report does not constitute a standard, specification, or regulation. FHWA, FTA, VDOT or DRPT acceptance of this report as evidence of fulfillment of the objectives of this program does not constitute endorsement/approval of the need for any recommended improvements nor does it constitute approval of their location and design or a commitment to fund any such improvements. Additional project level environmental impact assessments and/or studies of alternatives may be necessary.

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The HRTPO assures that no person shall, on the ground of race, color, national origin, handicap, sex, age, or income status as provided by Title VI of the Civil Rights Act of 1964 and subsequent authorities, be excluded from participation in, be denied the benefits of, or be otherwise subject to discrimination under any program or activity. The HRTPO Title VI Plan provides this assurance, information about HRTPO responsibilities, and a Discrimination Complaint Form.

Hampton Roads 2040 Long-Range Transportation Plan:

Prioritization of Transportation Projects

Candidate Project Evaluation and Scoring

PREPARED BY:



APRIL 2015

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Hampton Roads 2040 Long-Range Transportation Plan: Prioritization of Transportation Projects

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2040 LONG-RANGE TRANSPORTATION VISION STATEMENT

With an engaged public, the 2040 Long-Range Transportation Plan sets forth a vision to develop a well-balanced transportation system that promotes good quality of life while enhancing the unique character of Hampton Roads

LRTP UPDATE OVERVIEW

Transportation helps connect people to the places where they live, work, and play. Moreover, reliable transportation is essential in improving quality of life. Every four years, Metropolitan Planning Organizations (MPOs) are required to update the Long-Range Transportation Plan (LRTP), which serves as the blueprint for the region's multimodal transportation system. The LRTP will guide regionally significant transportation investments designed to develop a well-balanced transportation system that also promotes good quality of life for area residents over the next twenty years.

Over the past three years, the Hampton Roads Transportation Planning Organization, or HRTPO (the MPO for Hampton Roads), has been updating the next LRTP, entitled *Navigating the Future to 2040*. As part of the update process, HRTPO staff

assesses the current transportation system in order to determine system deficiencies in regards to roadway condition, congestion, safety, etc. HRTPO staff also examines how the region may develop over the LRTP timeline (approximately twenty years) based upon projected population and employment growth. Changes in growth can impact travel demand on the regional transportation system, therefore future plans must consider alternatives to effectively address these needs; alternatives can include new or widened roadways as well as new or expanded transit services. Once alternatives are determined and prioritized, funds are identified to pay for the projects. This entire process takes approximately four years to complete and requires regional cooperation and public participation.

2040 LRTP PROJECT PRIORITIZATION

Project Prioritization is an essential part of the development of the LRTP as scores produced from this process will aid regional decision-makers in selecting projects for the Plan. For the 2040 LRTP, approximately 190 candidate projects were submitted by regional stakeholders and citizens from across the area. These projects range in scope from interstate bridges and tunnels to new bike paths and multi-use trails. For prioritization purposes, candidate projects are evaluated in separate categories: Highway, Interchange/Intersection, Bridge/Tunnel, Transit, Intermodal, and Active Transportation). Projects are separated into categories in order to align with potential funding sources (which are often tied to transportation mode or facility type). Because of funding constraints, as well as the differences in evaluation criteria, project scores are not compared across categories.

Since the objective of this prioritization process is to maximize the use of scarce transportation dollars, ‘Committed’ transportation projects were not evaluated using the HRTPO Project Prioritization Tool as part of the development of the 2040 LRTP. Committed Projects are defined as fully funded transportation projects programmed in the current Six-Year Improvement Program (SYIP) as well as the regional priority projects identified by the Hampton Roads Transportation Accountability Commission (HRTAC) to receive regional funds from the Hampton Roads Transportation Fund (HRTF). Committed Projects, since they are considered fully funded, are automatically included in the LRTP.

The remaining 2040 LRTP Candidate Projects were evaluated and prioritized using the HRTPO Project Prioritization Tool, an objective methodology which evaluates transportation projects

based on their technical merits and regional benefits. This process requires substantial data and stakeholder input, resulting in a prioritized list of candidate projects.

The HRTPO Project Prioritization Tool evaluates transportation projects based on three components: Project Utility (the ability to solve an existing transportation issue), Economic Vitality (the ability to support economic growth), and Project Viability (project readiness). Each component is worth 100 points, combining for a maximum score of 300 points. Note that Active Transportation projects are not evaluated for Economic Vitality and therefore have a maximum score of 200 points.

This document is intended to provide an overview of Project Prioritization Scores for the 2040 LRTP Candidate Projects, as well as serve as a resource for how these scores were produced. One-Page summaries are included for the top ranking projects in each category. Although Committed Projects were not evaluated as part of this process, One-Page summaries are also included for the high-priority Hampton Roads Transportation Accountability Commission (HRTAC) projects.

REVIEW OF DATA INPUTS AND DRAFT SCORES

In order to ensure that the best available data was used in the evaluation and prioritization of candidate projects, data inputs were reviewed by the LRTP Subcommittee (comprised of representatives from localities, transit agencies, state and federal transportation agencies, etc.) at key points in the process.

Between November 2014 and March 2015, draft Project Prioritization scores were presented to the following Committees/Board for review and comment:

LRTP Subcommittee

HRTPO Advisory Committees

- Transportation Technical Advisory Committee (TTAC)
- Freight Transportation Advisory Committee (FTAC)
- Citizen Transportation Advisory Committee (CTAC)

Pedestrian and Bicycle Advisory Committee

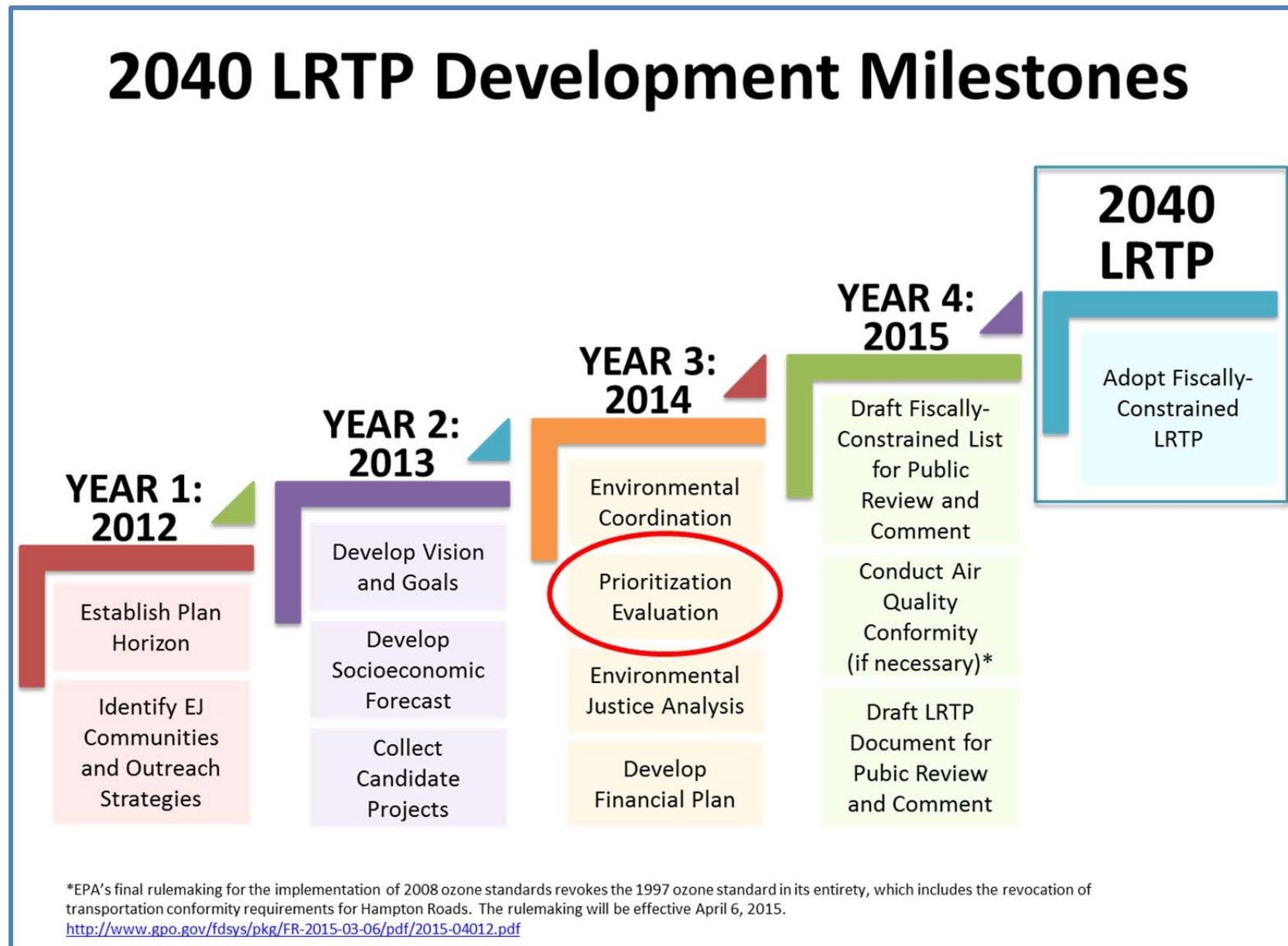
HRTPO Board

A public outreach campaign was also developed in order to provide interested citizens an opportunity to learn more about the HRTPO Project Prioritization process as well as review and comment on draft scores.

NEXT STEPS IN THE DEVELOPMENT OF THE 2040 LRTP

The next step in the long-range transportation planning process will be the development of a financial plan. Using the Project Prioritization Scores as well as the analysis from the Title VI and Environmental Justice Methodology, top-ranking projects will be determined. The financial plan will identify funds to pay for regional priority projects, which can include new or widened roadways as well as new or expanded transit services. The final 2040 LRTP list of projects will help to achieve the overall goal of the 2040 LRTP: a well-balanced transportation system that remains accessible to all and promotes good quality of life while enhancing the unique character of Hampton Roads.

FIGURE 1: 2040 LRTP DEVELOPMENT PLANNING MILESTONES



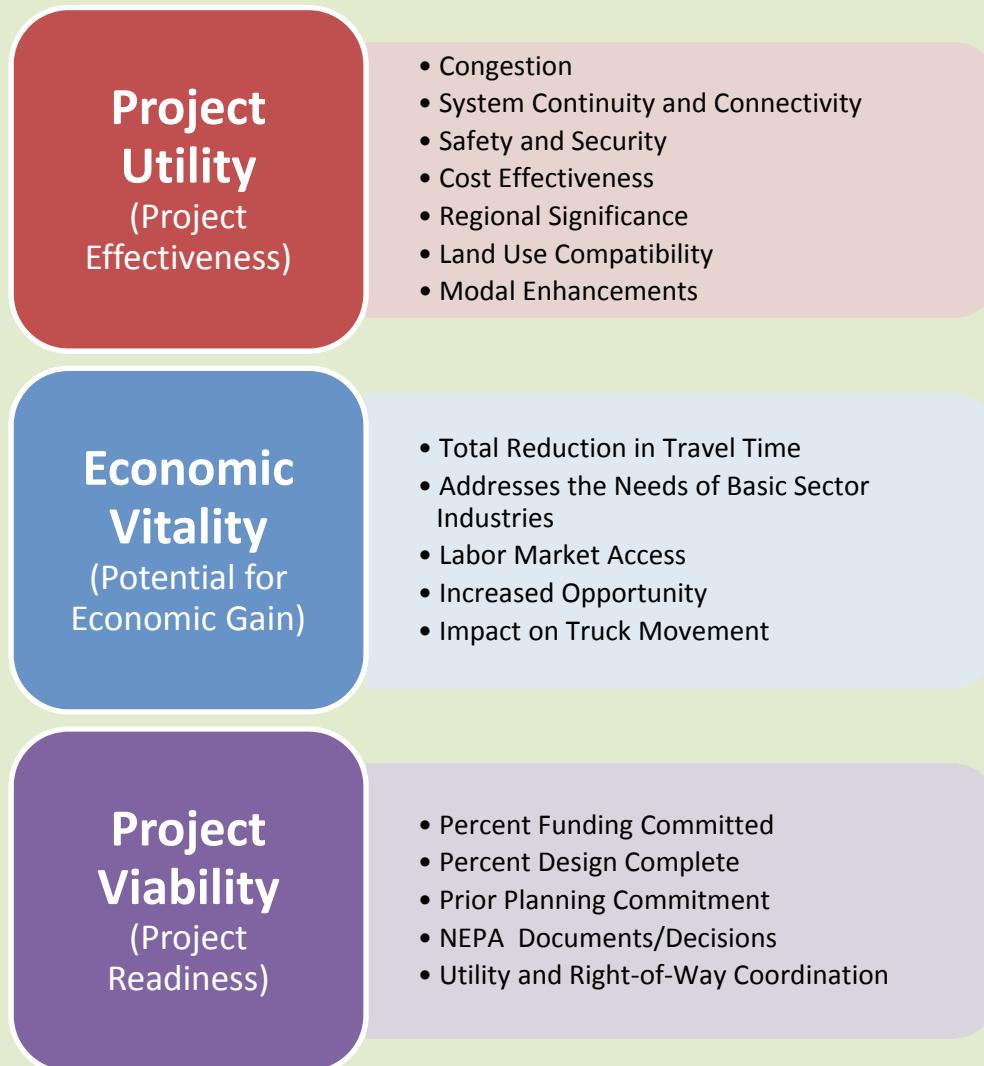
HRTPO PROJECT PRIORITIZATION

The HRTPO developed a project prioritization tool to establish an objective methodology to assist the HRTPO Board in selecting transportation projects that will benefit the region while maximizing the use of scarce financial resources. The HRTPO Project Prioritization Tool is designed to score candidate transportation projects based on their technical merits and regional benefits.

The Tool evaluates transportation projects based on three components: Project Utility (ability to solve an existing transportation issue), Economic Vitality (ability to support economic growth), and Project Viability (project readiness). Each component is worth 100 points, combining for a maximum score of 300 points (Note: Active Transportation projects have a maximum score of 200 points).

For the 2040 LRTP, projects are evaluated in separate categories (highways, interchanges/intersections, bridge/tunnel, transit, intermodal, and active transportation). Evaluation criteria are based on the current regional vision and can be modified to address changing regional priorities.

FIGURE 2: HRTPO PROJECT PRIORITIZATION



HRTAC PROJECTS

The following section contains maps and One-Page summaries of regional, high-priority transportation projects. On October 17, 2013, the HRTPO Board adopted Resolution 2013-9 supporting the following HRTF/HRTAC list of candidate projects. Since these projects have been identified for funding from HRTAC, they were not prioritized for the 2040 LRTP and thus do not have an associated Project Prioritization score. HRTAC is working on a plan for financing and implementation.



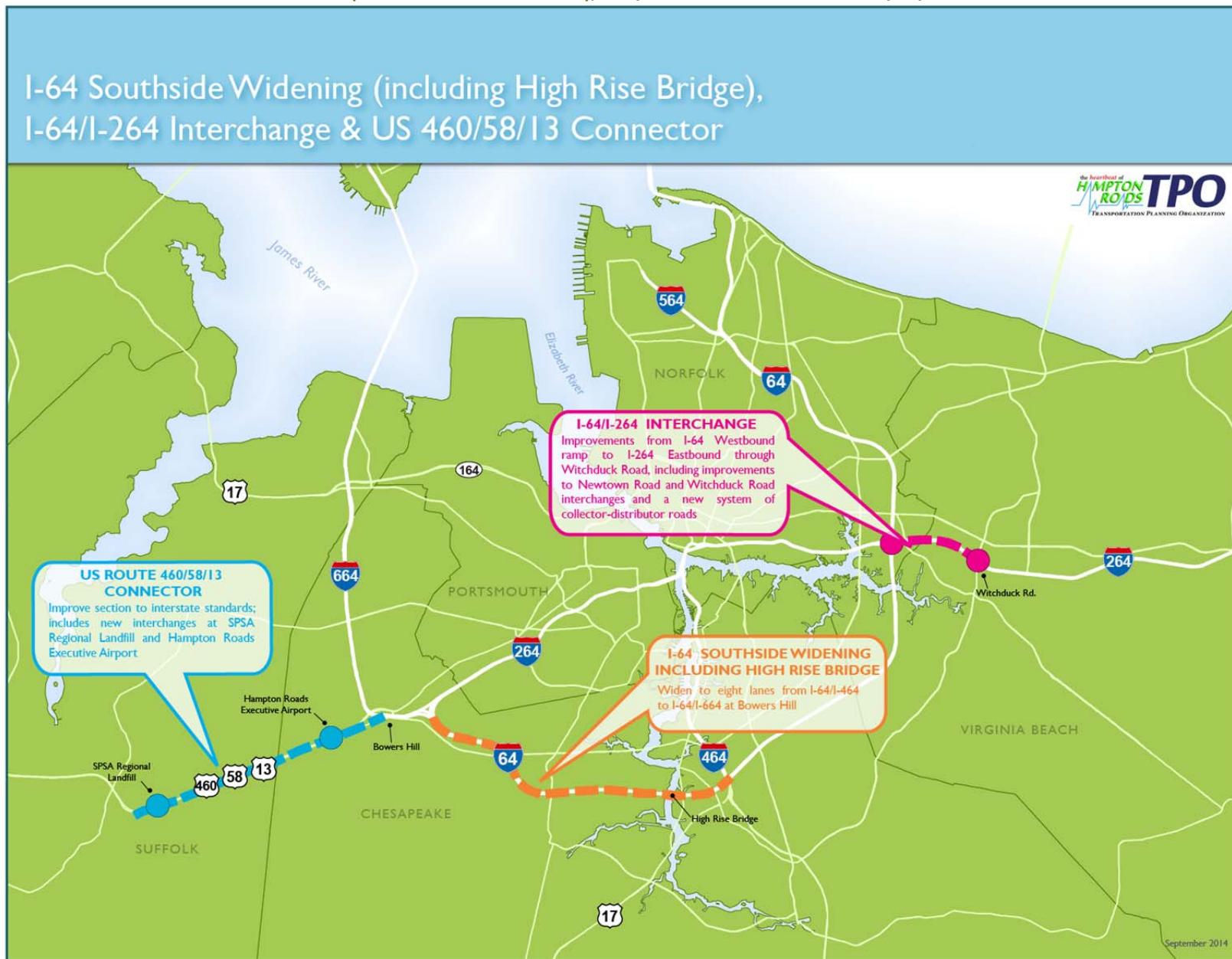
MAP 1: HRTAC PROJECT - I-64 PENINSULA WIDENING



MAP 2: HRTAC PROJECT - HAMPTON ROADS MULTIMODAL THIRD CROSSING



MAP 3: HRTAC PROJECTS - I-64 SOUTHSIDE (INCLUDING HIGH RISE BRIDGE), I-64/I-264 INTERCHANGE & US 460/58/13 CONNECTOR





I-64 Peninsula Widening

Project Description

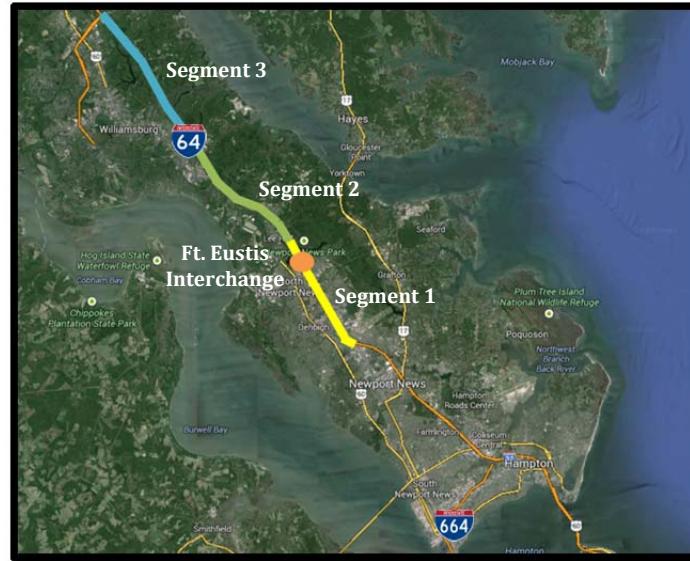
SYSTEM: Interstate

FROM: Jefferson Ave (exit 255)

TO: Route 199 west of Williamsburg (exit 234)

DESCRIPTION OF WORK: Provide for increased capacity, improve safety standards and minimize roadway geometric and structural deficiencies along the I-64 corridor.

- Segment 1: Jefferson Ave (exit 255) to Route 238/Mile Marker 248 (exit 247)
- Segment 2: Route 238/Mile Marker 248 (exit 247) to Route 199 east of Williamsburg (exit 242)
- Segment 3: Route 199 east of Williamsburg (exit 242) to Route 199 west of Williamsburg (exit 234)
- Ft. Eustis Interchange



Summary of Project

- HRTF Project (HRTPO Board Resolution, October 17, 2013).
- Record of Decision (ROD) issued April 2014 for Segment 1: Jefferson Ave (Exit 255) to Route 238/Mile Marker 248 (Exit 247).
- Final EIS completed December 2013.
- Project improves safety and expands capacity of a major evacuation route.
- Project improves regional travel time and reliability.
- Project improves freight traffic and military connectivity in the Hampton Roads region and between Hampton Roads and Richmond as well.

Overview of Project Status

NEPA Status

Final EIS completed Dec. 2013; Segment 1 ROD issued on April 21, 2014

Funding Status

Segment 1: Fully Funded

Preliminary Engineering & Right of Way Status

N/A

Construction Status

Seg. 1: D-B contract awarded Feb. 2015; Est. completion Dec. 2017

Seg. 2: Award D-B contract: Jan. 2017

Seg. 3: Award D-B contract: spring 2019

Ft. Eustis Blvd: Traffic analysis to start spring 2017, PE to start spring 2019

Long-Range Transportation Plan (LRTP) Status

Seg. 1: In original 2034 LRTP (Jan. 2012);
Seg's 2&3 and Ft. Eustis Blvd. Interchange: Added Sept. 18, 2014

March 2015

Estimated Total Project Cost, YOE*

Segment 1 - \$122 M,
YOE (2017)

Segment 2 - \$214 M,
YOE (2018)

Segment 3 - \$311 M,
YOE (2021)

Ft. Eustis Blvd Interchange -
\$181 M, YOE (2023)

*YOE: Year-of-Expenditure
Cost and YOE source: VDOT (3-3-15 email)

Hampton Roads Multimodal Third Crossing

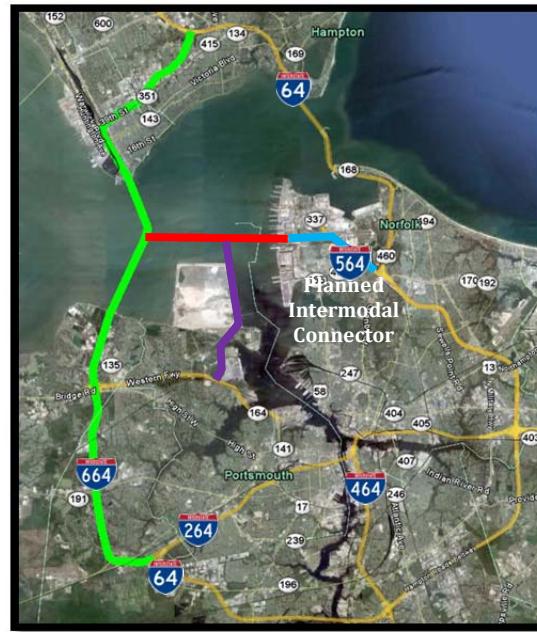
Project Description

FROM: I-64/I-664 at Hampton Coliseum

TO: I-264/I-64 at Bowers Hill;
Hampton Blvd / Intermodal Conn;
VA 164 / Craney Island Connector

DESCRIPTION OF WORK:

- Patriots Crossing (I-664 to Hampton Blvd)
- Craney Island Intermodal Connector (Patriots Crossing to VA 164)
- I-664, additional lanes and tunnel (I-64 at Hampton Coliseum to I-264/I-64 Bowers Hill); project includes Bowers Hill interchange



Summary of Project

- HRTF Project (HRTPO Board Resolution, October 17, 2013).
- Project improves regional travel time and reliability.
- Project will have a positive impact on the region's economy and will help meet growing needs of the Port.
- Project will improve movement of people and goods to and from the region's military bases.
- Project will provide enhanced evacuation route for the region.
- Project, with Craney Island Intermodal Connector (CIIC), will provide efficient access to the Virginia International Gateway (VIG).
- Project with CIIC construction will create more than 88k jobs, and Craney Island Marine Terminal (CIMT) will produce more than 54k additional new jobs and \$16B in national economic benefits.

Estimated Total Project Cost, 2014 \$'s*

\$8 Billion

Cost source: Virginia Secretary of Transportation, 11-10-14 presentation to HRTAC, p. 9.

*YOE cost will be determined once HRTAC establishes construction timeframe.

Overview of Project Status

NEPA Status

ROD issued (for Third Crossing) June 2001; Final Environmental Assessment (for Patriots Crossing) submitted to FHWA: February 2013
Supplemental EIS (SEIS) duration: 24-30 months

Funding Status

Hampton Roads Transportation Fund, Federal/State/Other Funds

Preliminary Engineering & Right of Way Status

N/A

Construction Status

N/A

Long-Range Transportation Plan (LRTP) Status

Added to 2034 LRTP: Sept. 18, 2014



I-64 Southside Widening (including High Rise Bridge)

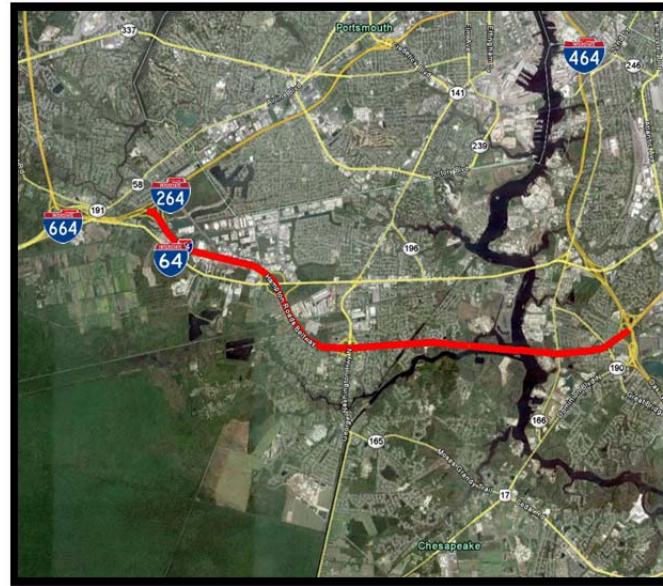
Project Description

SYSTEM: Interstate

FROM: I-64/I-464

TO: I-64/I-264 at Bowers Hill

DESCRIPTION OF WORK: Provide for increased capacity along the I-64 corridor on the Southside and replace the High-Rise Bridge. Work includes the interchange work at I-464 and not at Bowers Hill.



Estimated Total Project Cost, 2014 \$'s*

\$1.86-2.30 Billion

Cost source: Environmental Assessment (VDOT, Oct. 2014)

*YOE cost will be determined once HRTAC establishes construction timeframe.

Summary of Project

- HRTF Project (HRTPO Board Resolution, October 17, 2013).
- Draft Environmental Assessment (EA) on the I-64 corridor on the Southside, including the High Rise Bridge, was published Oct. 2014.
- Project reduces congestion and expands an evacuation route.
- Project greatly improves travel time and reliability to major employment centers, port facilities, defense installations, and tourist destinations.

Overview of Project Status

NEPA Status

Environmental Assessment (EA) Anticipated Completion Date: spring 2015

Funding Status

Hampton Roads Transportation Fund, Federal/State/Other Funds

Preliminary Engineering & Right of Way Status

PE scheduled to start spring 2015

Construction Status

N/A

Long-Range Transportation Plan (LRTP) Status

Added to 2034 LRTP: Sept. 18, 2014



Project Description

SYSTEM: Interstate

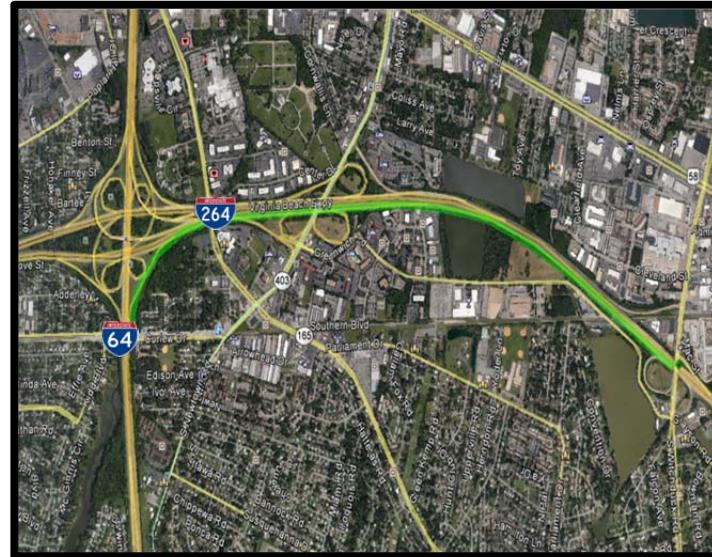
FROM: I-64 WB

TO: Witchduck Rd. interchange

DESCRIPTION OF WORK:

- I-64 WB to I-264 EB ramp widening
- Widening of I-264 EB Collector-Distributor (CD) road
- Overpass connecting Greenwich Rd and Cleveland St
- Improvements to Newtown Rd and Witchduck Rd interchanges

I-64/I-264 Interchange



Estimated Total Project Cost, YOE*

\$344 Million, YOE (2020)

*YOE: Year of Expenditure
Cost and YOE source: Secretary Layne 9-24-14 presentation to HRTAC, p. 4.

Summary of Project

- HRTF Project (HRTPO Board Resolution, Oct. 17, 2013).
- Project will relieve congestion and improve traffic operations from westbound I-64 to eastbound I-264.
- Project greatly improves regional travel time and reliability to major employment centers, port facilities, defense installations, and tourist destinations.
- Project expected to improve safety by reducing congestion.

Overview of Project Status

NEPA Status

Categorical Exclusion: June 2010

Funding Status

Hampton Roads Transportation Fund, Federal/State/Other Funds

Preliminary Engineering & Right of Way Status

PE: and Right of Way Funded

Construction Status

Anticipated construction duration: 3 yrs.

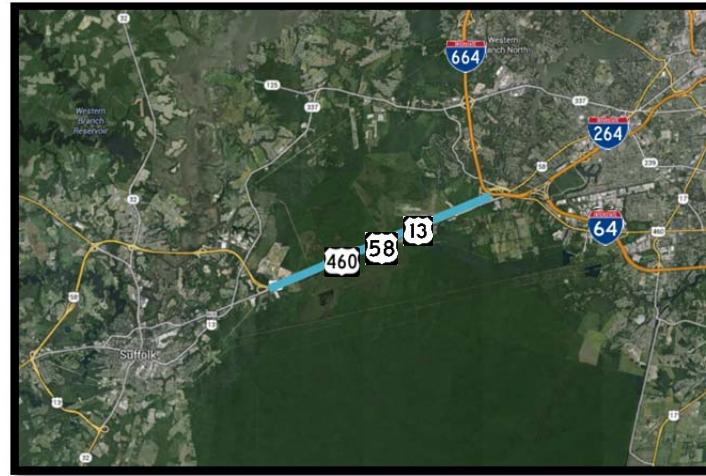
Long-Range Transportation Plan (LRTP) Status

Added to 2034 LRTP: Sept. 18, 2014

U.S. Route 460/58/13 Connector

Project Description

SYSTEM: Primary
FROM: Bowers Hill
TO: Eastern end of Suffolk Bypass
DESCRIPTION OF WORK: Improve section to interstate standards; includes SPSA and Airport interchanges



Estimated Total Project Cost, 2014 \$'s*

\$220 Million

Cost source: Virginia Secretary of Transportation, 11-10-14 presentation to HRTAC, p. 9.

*YOE cost will be determined once HRTAC establishes construction timeframe.

Summary of Project

- HRTF Project (HRTPO Board Resolution, October 17, 2013).
- Project will improve section to interstate standards and improve accessibility to/from SPSA Regional Landfill and Hampton Roads Executive Airport.
- Project will provide improved access to the Commonwealth Connector (US Route 460).
- Project will improve safety along corridor and an enhanced evacuation route.

Overview of Project Status

NEPA Status

N/A

Funding Status (US Route 460: Bowers Hill to I-295)

Hampton Roads Transportation Fund, Federal/State/Other Funds

Preliminary Engineering & Right of Way Status

N/A

Construction Status

N/A

Long-Range Transportation Plan (LRTP) Status

Added to 2034 LRTP: Sept. 18, 2014

2040 LRTP COMMITTED PROJECTS

The following section contains a listing of Committed Projects for the 2040 LRTP. Committed Projects are defined as fully-funded transportation projects programmed in the current Six-Year Improvement Program (SYIP). Committed Projects are either under construction or scheduled for construction in the near future. Due to the full-funding status of these projects, Committed Projects are not subject to Project Prioritization (and thus do not have an associated Project Prioritization score) and are automatically included in the LRTP.



MAP 4: 2040 LRTP COMMITTED PROJECTS

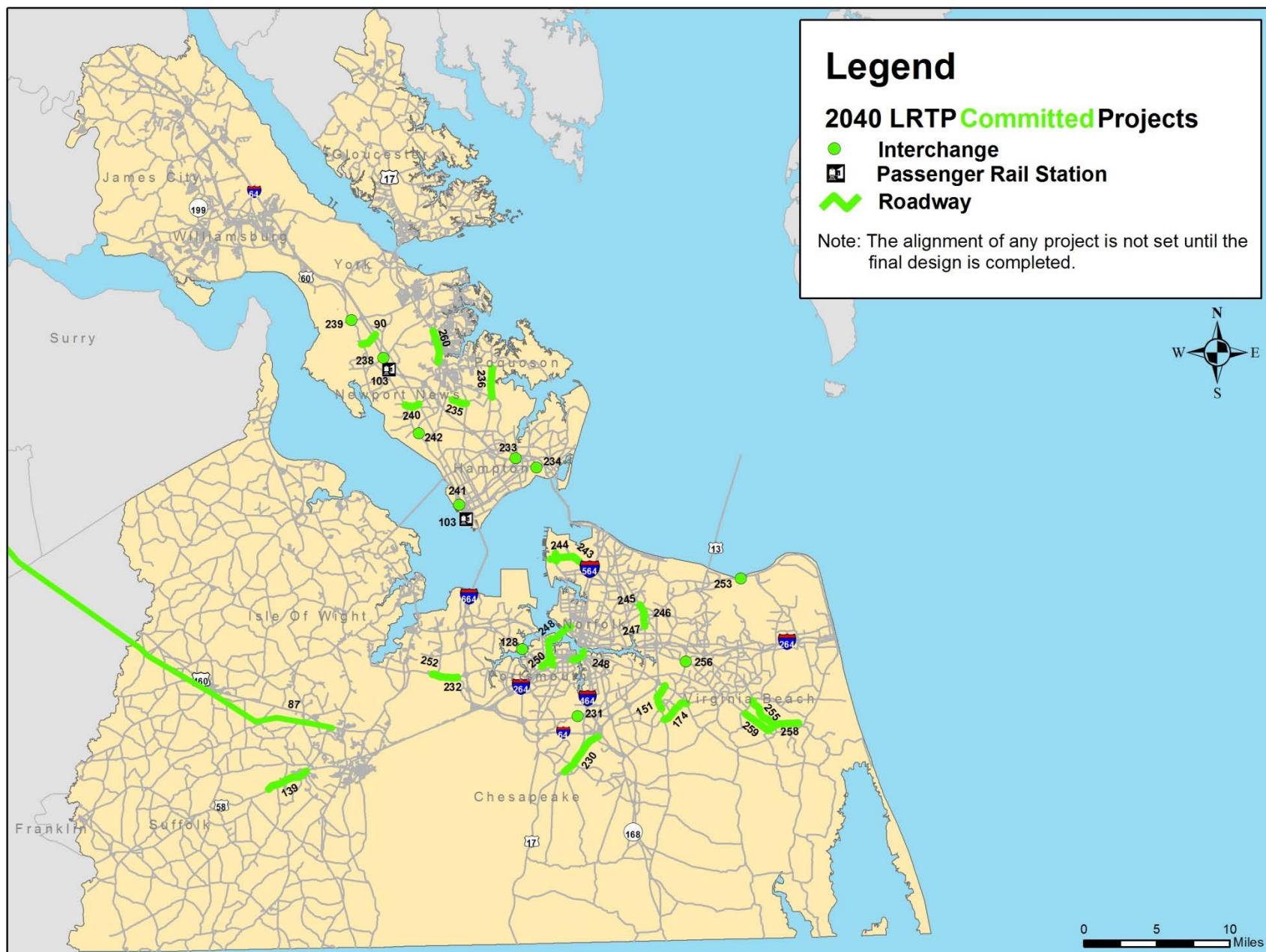


Table 1: 2040 LRTP Committed Projects List

2040 Project ID	UPC	Locality	Name	From	To
2040-248	T11488	Multi-jurisdictional	Downtown Tunnel/Midtown Tunnel/MLK Extension	Hampton Blvd	I-264
2040-87	103803	Multi-jurisdictional	US 460 - Hampton Roads Portion	Suffolk Bypass	Zuni
2040-236	97715, 13427	Multi-jurisdictional	Wythe Creek Rd	Alphus St	Commander Shepard Blvd
2040-230	56187	Chesapeake	Dominion Blvd	0.05 mi N. of Great Bridge Blvd	0.75 mil S. of Cedar Rd
2040-231	1904	Chesapeake	Gilmerton Bridge	0.36 mi E. of Bridge (Bainbridge Blvd)	0.42 mi W. of Bridge (Shell Rd)
2040-232	18591	Chesapeake	Portsmouth Blvd	Jolliff Rd	Suffolk CL
2040-234	93081	Hampton	Bridge Street Bridge	Rudd Ln	Marrow St
2040-233	104363	Hampton	I-64 Interchange at Lasalle Ave	N/A	N/A
2040-235	57047	Hampton	Saunders Rd	Big Bethel Rd	Newport News CL
2040-90	4483	Newport News	Atkinson Blvd	Jefferson Ave	Warwick Blvd
2040-238	93077	Newport News	Denbigh Blvd Bridge Replacement	Richneck Rd	Trailblazer Blvd
2040-240	11816	Newport News	Middle Ground Blvd	Jefferson Ave	Warwick Blvd
2040-103	102734	Newport News	Newport News Multimodal High-Speed and Intercity Passenger Rail Station Development	N/A	N/A
2040-242	101279	Newport News	Warwick Blvd over Lake Maury	Gatewood Rd	J Clyde Morris Blvd
2040-241	85955	Newport News	Washington Ave Bridge Replacement	39th St	41st St
2040-244	14672	Norfolk	Hampton Blvd Railroad Grade Separation	Rogers Ave	B Ave
2040-243	18968	Norfolk	Intermodal Connector	I-564	Hampton Blvd
2040-247	9783	Norfolk	Military Hwy	0.3 mile S. of Northampton Blvd	Lowery Rd
2040-246	1765	Norfolk	Military Hwy	0.3 mi N. of Northampton Blvd	0.3 S. of Northampton Blvd
2040-245	84243	Norfolk	Military Hwy	Robin Hood Rd	0.3 mile N. of Northampton Blvd

Table 1: 2040 LRTP Committed Projects List

2040 Project ID	UPC	Locality	Name	From	To
2040-128	102715	Portsmouth	Churchland Bridge	N/A	N/A
2040-250	65655	Portsmouth	Turnpike Rd	0.13 mi E. of Frederick Blvd	Constitution Ave
2040-252	61407	Suffolk	Nansemond Pkwy	Chesapeake CL	NS Railroad
2040-139	100937	Suffolk	Route 58 (Holland Rd)	Suffolk Bypass	0.7 mi W. of Manning Bridge Rd
2040-151	103005	Virginia Beach	Centerville Turnpike	Indian River Rd	Kempsville Rd
2040-255	15827	Virginia Beach	Holland Road	Nimmo Pkwy	Dam Neck Rd
2040-256	51866	Virginia Beach	Kempsville Rd Intersection at Princess Anne Rd	N/A	N/A
2040-253	97737	Virginia Beach	Lesner Bridge	E. Stratford Rd	Paige Ave
2040-174	14603	Virginia Beach	Lynnhaven Pkwy	Indian River Rd	Centerville TnPk
2040-258	52058	Virginia Beach	Nimmo Pkwy	Holland Rd	General Booth Blvd
2040-259	13482/93522/ 95555/96137	Virginia Beach	Princess Anne Rd and Nimmo Pkwy	Dam Neck Rd	Holland Rd
2040-260	60843	York County	Route 17 (George Washington Memorial Hwy)	Hampton Hwy	Dare Rd

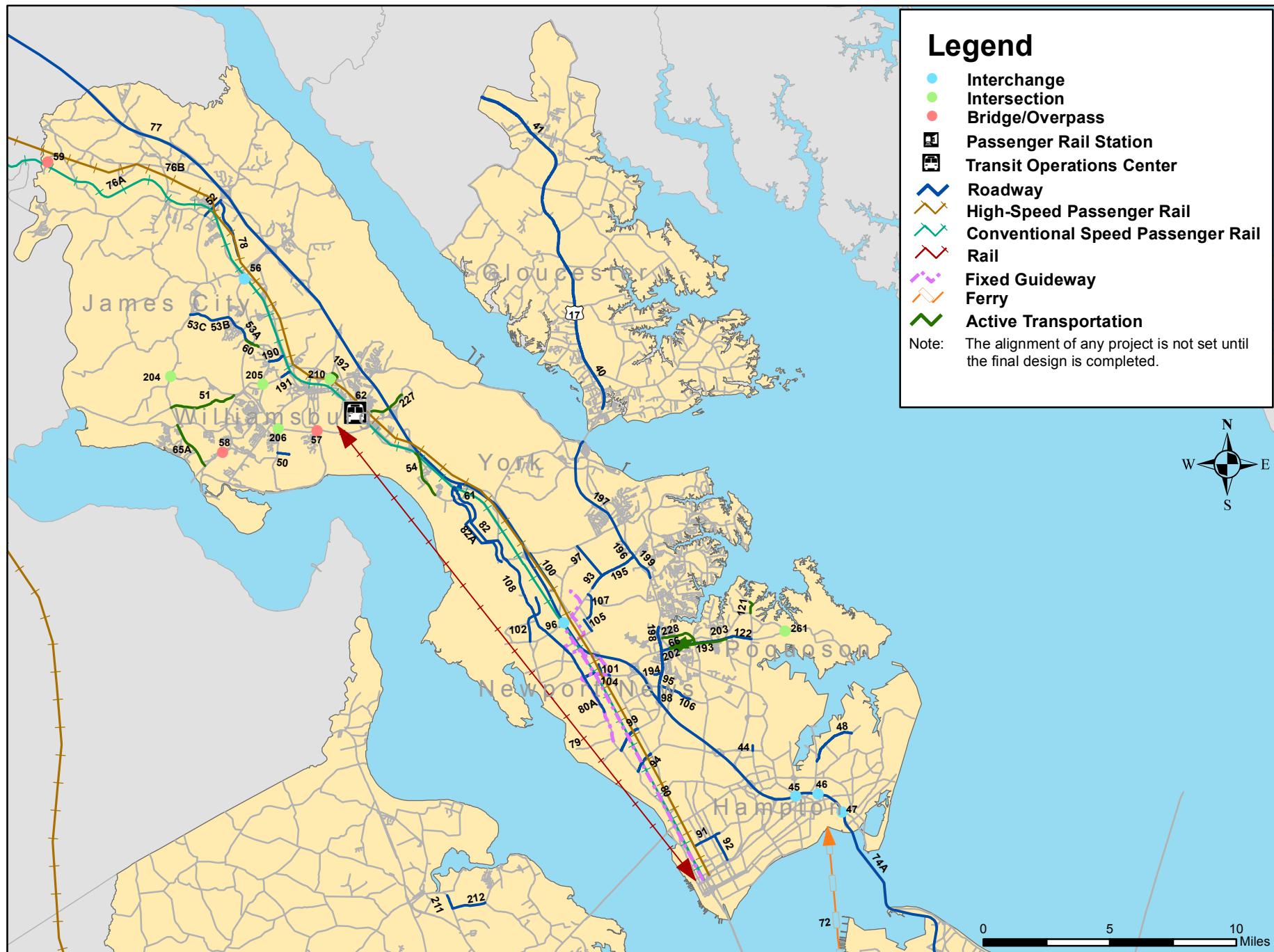
Note: List not in ranked order

2040 LRTP PROJECT PRIORITIZATION SCORES

The following section contains maps and summary tables of Project Prioritization scores for the 2040 LRTP Candidate Projects. Projects are ranked by category and by system, based on Grand Total Score. Top scores in each component (Project Utility, Economic Vitality, Project Viability) are also high-lighted. One-Page summaries are included for top-ranking candidate projects.



Map 5: 2040 LRTP Candidate Projects - Peninsula



Map 6: 2040 LRTP Candidate Projects - Southside

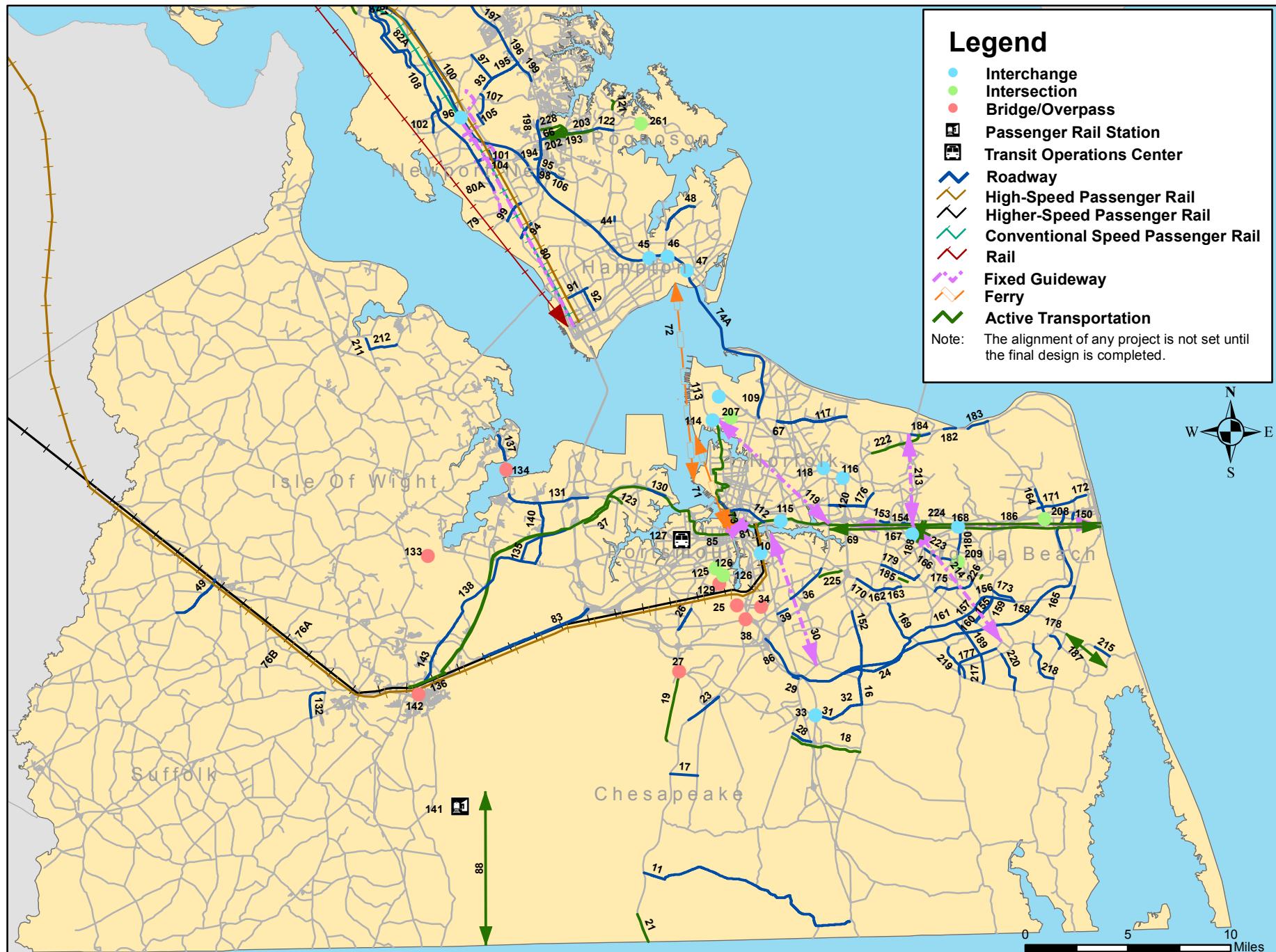


Table 2: 2040 LRTP Highway Candidate Projects

2040 Project ID	Project Name	From	To	Jurisdiction	PROJECT UTILITY TOTAL (MAX 100 POINTS)	ECONOMIC VITALITY TOTAL (MAX 100 POINTS)	PROJECT VIABILITY TOTAL (MAX 100 POINTS)	GRAND TOTAL SCORE (MAX 300 POINTS)
INTERSTATE								
2040-77	I-64 Peninsula (8-Lane Option)	Bland Blvd	New Kent County Line	Multi-jurisdictional	86	85	33	204
PRIMARY								
2040-86	Southeastern Pkwy and Greenbelt	I-264	I-64/I-464	Multi-jurisdictional	73	87	18	178
2040-23	Dominion Blvd Phase II	0.75 mi South of Cedar Rd	Existing 4-lane Segment South of Cedar Rd	Chesapeake	71	25	81	177
2040-199	G.W. Mem Hwy (US 17)	Dare Rd	Denbigh Blvd (Rte 173)	York County	84	46	15	145
2040-40	G.W. Mem Hwy (US 17)	1 mi North of Coleman Bridge	Main St (@ Walmart)	Gloucester	72	63	5	140
2040-198	J. Clyde Morris Blvd / G.W. Hwy (US 17)	Newport News CL	1.27 mi South of Rte 620 (Lakeside Dr / Oriana Rd)	York County	78	54	5	137
2040-82A	US 60 Relocation	Fort Eustis Blvd	Merrimac Trail (Rte 143)	Multi-jurisdictional	66	45	25	136
2040-82	US 60 Relocation	Fort Eustis Blvd	Green Mount Pkwy	Multi-jurisdictional	59	45	26	130
2040-36	Military Hwy	Allison Dr	Virginia Beach CL	Chesapeake	69	56	5	130
2040-26	G.W. Hwy (US 17)	Yadkin Rd	Canal Dr	Chesapeake	67	50	8	125
2040-197	G.W. Mem Hwy (US 17)	Fort Eustis Blvd (Rte 105)	Coleman Bridge	York County	69	50	5	124
2040-16	Centerville Tpk	Mount Pleasant Rd	Virginia Beach CL	Chesapeake	58	55	5	118
2040-203	Victory Blvd (Rte 171)	Poquoson CL	Hampton Hwy (Rte 134)	Multi-jurisdictional	70	39	5	114
2040-196	G.W. Mem Hwy (US 17)	Denbigh Blvd (Rte 173)	Fort Eustis Blvd (Rte 105)	York County	68	40	5	113
2040-61	Skiffes Creek Connector	Green Mount Pkwy	Merrimac Trail (Rte 143)	James City County	43	33	23	99
2040-202	Victory Blvd (Rte 171)	G.W. Mem Hwy (US 17)	Hampton Hwy (Rte 134)	York County	70	24	5	99
2040-83	US 460/58/13 (8-Lane Option)	Bowers Hill	Suffolk Bypass	Multi-jurisdictional	56	35	0	91
2040-49	US 258	US 460	Sunset Dr	Isle of Wight	70	15	5	90
2040-122	Victory Blvd (Rte 171)	Wythe Creek Rd (Rte 172)	York County CL	Multi-jurisdictional	49	22	15	86
2040-195	Denbigh Blvd (Rte 173)	Newport News CL	G.W. Mem Hwy (US 17)	Multi-jurisdictional	55	25	5	85
2040-41	G.W. Mem Hwy (US 17)	Main St (@ Walmart)	Ark Rd	Gloucester	53	18	5	76

Table 2: 2040 LRTP Highway Candidate Projects

2040 Project ID	Project Name	From	To	Jurisdiction	PROJECT UTILITY TOTAL (MAX 100 POINTS)	ECONOMIC VITALITY TOTAL (MAX 100 POINTS)	PROJECT VIABILITY TOTAL (MAX 100 POINTS)	GRAND TOTAL SCORE (MAX 300 POINTS)
SECONDARY								
2040-53A	Longhill Rd (Phase 1)	Humelsine Pkwy (Rte 199)	Olde Towne Rd	James City County	72	28	25	125
2040-53	Longhill Rd (Phases 1-3)	Humelsine Pkwy (Rte 199)	Centerville Rd	James City County	74	28	15	117
2040-52	Croaker Rd	Richmond Rd (US 60)	Rochambeau Rd	James City County	66	17	20	103
2040-53B	Longhill Rd (Phase 2)	Olde Towne Rd	Warhill Trail	James City County	59	17	15	91
2040-194	Commonwealth Drive Extension	G.W. Mem Hwy (US 17)	Commonwealth Dr	York County	56	24	5	85
2040-53C	Longhill Rd (Phase 3)	Warhill Trail	Centerville Rd	James City County	45	17	15	77
2040-78	Mooretown Rd Extension	Lightfoot Rd	Croaker Rd	Multi-jurisdictional	50	20	5	75
2040-211	S. Church St	Battery Park Rd	Talbot Dr	Smithfield	42	17	13	72
2040-50	Airport Access Rd	Marclay Rd at Rte 617	Airport	James City County	48	0	21	69
2040-212	Battery Park Rd	S. Church St	Nike Park Rd	Smithfield	49	15	5	69
URBAN								
2040-112	Brambleton Ave	Midtown Tunnel	I-264	Norfolk	89	69	5	163
2040-183	Shore Dr - Phase III	Eastern End of Lesner Bridge	Great Neck Rd	Virginia Beach	56	27	70	153
2040-132	Kenyon Rd Connector	Kenyon Court	Holland Rd (US 58)	Suffolk	64	20	68	152
2040-98	J. Clyde Morris Blvd / G.W. Hwy (US 17)	I-64	York CL	Newport News	81	67	0	148
2040-39	Woodlake Dr	Battlefield Blvd	Existing Woodlake Dr	Chesapeake	33	29	85	147
2040-170	Indian River Rd	Centerville Tnpk	Ferrell Pkwy	Virginia Beach	77	55	15	147
2040-165	General Booth Blvd	Oceana Blvd	Dam Neck Rd	Virginia Beach	70	60	15	145
2040-178	Princess Anne Rd - Phase VII	Fisher Arch	General Booth Blvd	Virginia Beach	50	20	74	144
2040-161	Elbow Rd / Dam Neck Rd	Indian River Rd	Virginia Beach Amphitheater	Virginia Beach	55	24	64	143
2040-180	Rosemont Rd	Virginia Beach Blvd	Holland Rd	Virginia Beach	68	59	15	142
2040-164	First Colonial Rd	Old Donation Pkwy	Virginia Beach Blvd	Virginia Beach	69	58	15	142
2040-166	Holland Rd	Rosemont Rd	Independence Blvd	Virginia Beach	76	49	15	140
2040-108	Warwick Blvd	Nettles Dr	Fort Eustis Blvd	Newport News	70	60	8	138
2040-162	Ferrell Pkwy	Indian River Rd	Indian Lakes Blvd	Virginia Beach	60	51	21	132
2040-176	Newtown Rd	Baker Rd	Virginia Beach Blvd	Virginia Beach	78	39	15	132
2040-120	Virginia Beach Blvd	Military Hwy	Newtown Rd	Norfolk	68	59	5	132
2040-171	Laskin Rd (US 58) - Phase I	Republic Rd	Oriole Dr	Virginia Beach	41	32	56	129
2040-158	Dam Neck Rd	Drakesmile Rd	London Bridge Rd	Virginia Beach	54	60	15	129
2040-131	Bridge Rd (US 17)	Mills Godwin Bridge	Chesapeake CL	Suffolk	76	37	15	128
2040-184	Shore Dr	Pleasure House Rd	Treasure Island Dr	Virginia Beach	55	57	15	127
2040-152	Centerville Tnpk - Phase III	Chesapeake CL	Kempsville Rd	Virginia Beach	65	43	17	125

Table 2: 2040 LRTP Highway Candidate Projects

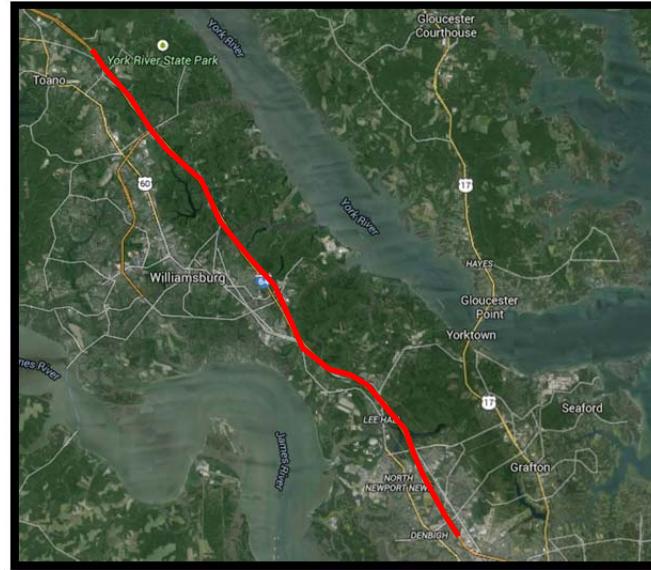
2040 Project ID	Project Name	From	To	Jurisdiction	PROJECT UTILITY TOTAL (MAX 100 POINTS)	ECONOMIC VITALITY TOTAL (MAX 100 POINTS)	PROJECT VIABILITY TOTAL (MAX 100 POINTS)	GRAND TOTAL SCORE (MAX 300 POINTS)
URBAN (CONTINUED)								
2040-104	Oyster Point Rd	Jefferson Ave	Warwick Blvd	Newport News	68	55	0	123
2040-175	Lynnhaven Pkwy	Holland Rd	Princess Anne Rd	Virginia Beach	59	47	15	121
2040-117	Little Creek Rd	Tidewater Dr	Shore Dr	Norfolk	58	55	5	118
2040-179	Providence Rd	Kempsville Rd	Princess Anne Rd	Virginia Beach	69	31	15	115
2040-157	Dam Neck Rd - Phase I	Princess Anne Rd	Holland Rd	Virginia Beach	61	47	5	113
2040-173	London Bridge Rd	Dam Neck Rd	Shipps Corner Rd	Virginia Beach	56	41	15	112
2040-125	Elm Ave	Victory Blvd (Rte 239)	G.W. Hwy (US 17)	Portsmouth	57	48	5	110
2040-156	Dam Neck Rd - Phase II	Holland Rd	Drakesmile Rd	Virginia Beach	62	32	15	109
2040-169	Indian River Rd - Phase VII	Lynnhaven Pkwy	Elbow Rd (including Elbow Rd to CL)	Virginia Beach	36	20	51	107
2040-101	Liberty Pkwy	Oyster Point Rd	Freedom Way	Newport News	38	36	32	106
2040-262	Rosemont Rd V	Dam Neck Rd	Lynnhaven Pkwy	Virginia Beach	59	37	5	101
2040-138	Nansemond Pkwy (Rte 337)	Shoulder's Hill Rd (Rte 626)	Wilroy Rd (Rte 642)	Suffolk	65	31	5	101
2040-25	Freeman Ave	N/A	N/A	Chesapeake	38	45	14	97
2040-31	Mt Pleasant Rd, Phase 1	Chesapeake Expressway	Etheridge Rd	Chesapeake	51	34	11	96
2040-155	Drakesmile Rd Extended	Dam Neck Rd	Princess Anne Rd	Virginia Beach	45	46	5	96
2040-100	Jefferson Ave	Green Grove Ln	Fort Eustis Blvd	Newport News	64	32	0	96
2040-99	J. Clyde Morris Blvd	Jefferson Ave	Warwick Blvd	Newport News	69	27	0	96
2040-182	Shore Dr - Phase IV	Marlin Bay Dr/Shady Oaks Dr	Western end of Lesner Bridge	Virginia Beach	47	27	21	95
2040-163	Ferrell Pkwy	Indian Lakes Blvd	Pleasant Valley Rd	Virginia Beach	58	22	15	95
2040-160	Drakesmile Rd Extended - Phase II	Holland Rd	Princess Anne Rd	Virginia Beach	43	46	5	94
2040-172	Laskin Rd (US 58) - Phase II	Oriole Dr	Laskin Rd Roundabout	Virginia Beach	39	27	27	93
2040-135	North Suffolk Connector Rd	Nansemond Pkwy (Rte 337) (near Hargrove Landing)	I-664	Suffolk	57	30	5	92
2040-150	Birdneck Rd		I-264	Virginia Beach Blvd	47	28	15	90
2040-34	Portlock Rd	N/A	N/A	Chesapeake	50	35	5	90
2040-32	Mt Pleasant Rd, Phase 2	Etheridge Rd	Centerville TnPk	Chesapeake	50	34	5	89
2040-190	Ironbound Rd (Rte 615)	Richmond Rd (US 60)	DePue Dr (formerly Longhill Connector)	Williamsburg	47	25	16	88
2040-154	Cleveland St - Phase IV	Aragona Blvd	Independence Blvd	Virginia Beach	48	25	15	88
2040-48	Little Back River Rd	N. King St	Harris Creek Rd	Hampton	49	31	5	85
2040-191	Monticello Ave	Richmond Rd (US 60)	Treyburn Dr	Williamsburg	55	25	5	85
2040-153	Cleveland St - Phase III	Witchduck Rd	Clearfield Ave	Virginia Beach	44	25	15	84
2040-159	Drakesmile Rd Extended - Phase I	Dam Neck Rd	Holland Rd	Virginia Beach	48	31	5	84
2040-137	Bridge Rd (US 17)	Mills Godwin Bridge	Isle of Wight CL	Suffolk	62	15	5	82

Table 2: 2040 LRTP Highway Candidate Projects

2040 Project ID	Project Name	From	To	Jurisdiction	PROJECT UTILITY TOTAL (MAX 100 POINTS)	ECONOMIC VITALITY TOTAL (MAX 100 POINTS)	PROJECT VIABILITY TOTAL (MAX 100 POINTS)	GRAND TOTAL SCORE (MAX 300 POINTS)
URBAN (CONTINUED)								
2040-93	Denbigh Blvd (Rte 173)	Independence Blvd	York CL	Multi-jurisdictional	66	10	5	81
2040-44	Coliseum Dr	Hampton Roads Center Pkwy	Butler Farm Rd	Hampton	29	32	19	80
2040-24	Elbow Rd	Butts Station Rd	Virginia Beach CL	Chesapeake	57	17	5	79
2040-97	Independence Blvd	Denbigh Blvd (Rte 173)	Fort Eustis Blvd	Newport News	43	25	5	73
2040-106	Saunders Rd	Harpersville Rd	Hampton CL	Newport News	54	12	5	71
2040-94	Harpersville Rd	Jefferson Ave	Warwick Blvd	Newport News	43	27	0	70
2040-95	Harpersville Rd	J. Clyde Morris Blvd	Saunders Rd	Newport News	57	12	0	69
2040-215	Nimmo Pkwy VII	Artesia Way / Atwoodtown Rd	Sandbridge Rd	Virginia Beach	40	22	5	67
2040-189	West Neck Pkwy Extended	Dam Neck Rd	North Landing Rd	Virginia Beach	29	22	15	66
2040-220	West Neck Rd	North Landing Rd	Indian River Rd	Virginia Beach	46	15	5	66
2040-140	Shoulders Hill Rd (Rte 626)	Nansemond Pkwy (Rte 337)	Bridge Rd (US 17)	Suffolk	29	25	9	63
2040-28	Hanbury Rd	Johnstown Rd	Battlefield Blvd	Chesapeake	40	17	5	62
2040-107	Turnberry Blvd	McManus Blvd	Denbigh Blvd (Rte 173)	Newport News	41	15	5	61
2040-11	Ballahack Rd	G.W. Hwy (US 17)	Old Battlefield Blvd	Chesapeake	36	18	5	59
2040-177	Nimmo Pkwy	Indian River Rd	West Neck Rd	Virginia Beach	22	20	15	57
2040-105	Patrick Henry Dr	Bland Blvd	Turnberry Blvd	Newport News	34	18	5	57
2040-102	Lucas Creek Rd Extension	Denbigh Blvd (Rte 173)	Atkinson Blvd	Newport News	31	19	5	55
2040-143	Wilroy Rd (Rte 642)	Nansemond Pkwy (Rte 337)	Constance Rd	Suffolk	34	15	5	54
2040-17	Chesapeake Regional Airport Access Rd	West Rd	G.W. Hwy (US 17)	Chesapeake	28	20	5	53
2040-217	West Neck Pkwy Extended	North Landing Rd	Indian River Rd	Virginia Beach	28	20	5	53
2040-91	Briarfield Rd	Jefferson Ave	Hampton CL	Newport News	39	8	5	52
2040-219	Salem Rd Extended	Landstown Rd	Indian River Rd	Virginia Beach	31	15	5	51
2040-218	Seaboard Rd	Princess Anne Rd	Princess Anne Rd	Virginia Beach	32	10	5	47
2040-92	Chestnut Ave	I-664	Briarfield Rd	Newport News	29	7	5	41
2040-130	West Norfolk Rd	Western Fwy (Rte 164)	End of West Norfolk Rd	Portsmouth	31	0	5	36

I-64 Peninsula Widening (8-Lane Option)

Project Description	
FROM:	Bland Boulevard
TO:	New Kent County Line
DESCRIPTION OF WORK:	Add capacity by widening from 2 lanes in each direction to 3 general purpose lanes and 1 HOV lane in each direction



Project Utility
86
Economic Vitality
85
Project Viability
33
Total Project Score
204
Estimated Total Project Cost, YOE*
\$2.8 Billion

*YOE – Year-of-Expenditure
Cost Source: VDOT

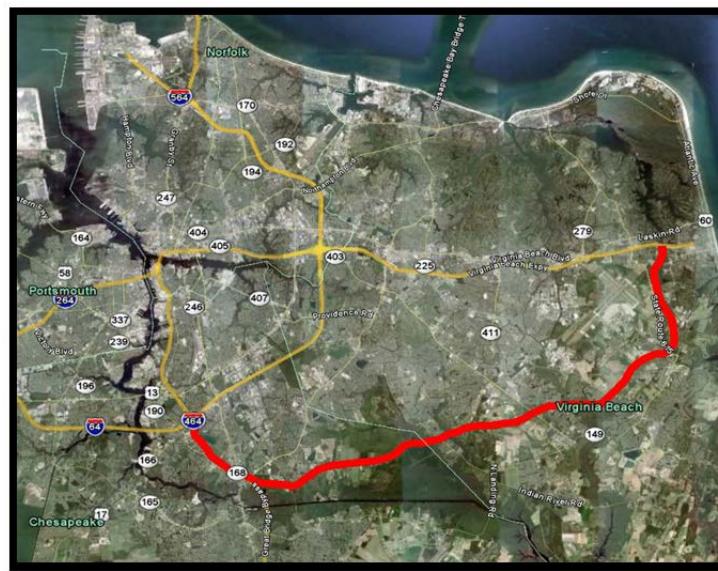
Summary of Project	
<ul style="list-style-type: none"> A Final EIS of the I-64 Peninsula Widening Study was completed in December 2013 Candidate project improves safety and expands capacity of an evacuation route Candidate project significantly improves travel time and reliability to tourist destinations 	

Overview of Project Status	
Project Category/System	Highway/Interstate
NEPA Status	Complete
Funding Status	6-Lane option (Jefferson Ave (Exit 255) to Route 238/Mile Marker 248 (Exit 247) - \$122 Million Fully Funded
Preliminary Engineering & Right of Way Status	6-Lane option (Jefferson Ave (Exit 255) to Route 238/Mile Marker 248 (Exit 247) – PE and ROW Underway
Prior LRTP Commitment	2034 LRTP Study

Southeastern Parkway and Greenbelt

Project Description	
FROM: I-264	
TO: I-64/I-464	

DESCRIPTION OF WORK: Build new 4-lane limited access highway, providing east-west access to tourism destinations, and emergency evacuation as an alternative to congested I-264



Project Utility	73
Economic Vitality	87
Project Viability	18
Total Project Score	178
Estimated Total Project Cost, YOE*	\$4.8 Billion

YOE – Year of Expenditure
Cost Source: Southeastern Parkway and Greenbelt Location Study

Summary of Project	
<ul style="list-style-type: none"> The Southeastern Parkway and Greenbelt's environmental review process was terminated by FHWA in November 2010 Candidate project provides a new limited-access highway and associated benefits of congestion reduction and new evacuation route Candidate project greatly improves travel time and reliability to major employment centers, port facilities, defense installations, and tourist destinations 	

Overview of Project Status	
Project Category/System	Highway/Primary
NEPA Status	Underway
Funding Status	N/A
Preliminary Engineering & Right of Way Status	N/A
Prior LRTP Commitment	2034 LRTP Study

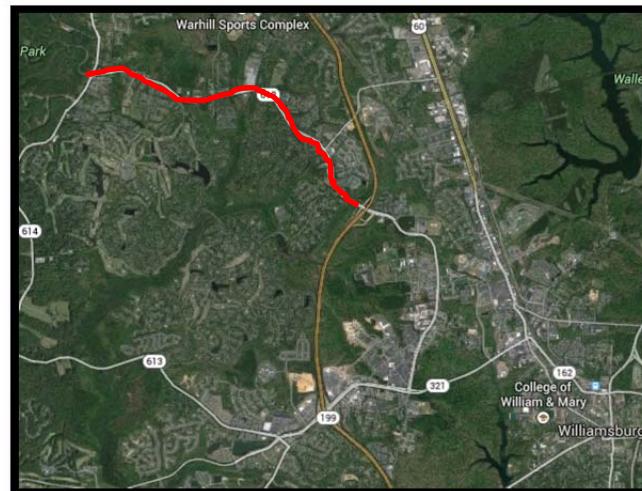
Longhill Road (Phases 1-3)

Project Description

FROM: Humelsine Parkway (Route 199)

TO: Centerville Road

DESCRIPTION OF WORK: Widen from a 2-lane urban minor arterial to a 4-lane urban minor arterial.



Project Utility

74

Economic Vitality

28

Project Viability

15

Total Project Score

117

Estimated Total Project Cost, YOE*

\$93 Million

*YOE – Year of Expenditure

Cost Source: VDOT (Phase 1),
James City County (Phases 2-3)

Summary of Project

- The Longhill Road Candidate Project provides added roadway capacity by widening the facility from 2 to 4 lanes.
- Candidate project also includes bus pull-offs, bicycle and pedestrian accommodations
- Candidate project improves travel time reliability
- Candidate project supports plans for future growth

Overview of Project Status

Project Category/System

Highway/Secondary

NEPA Status

Not Started

Funding Status

N/A

Preliminary Engineering & Right of Way Status

Not Started

Prior LRTP Commitment

Phase 1 – 2034 LRTP Study

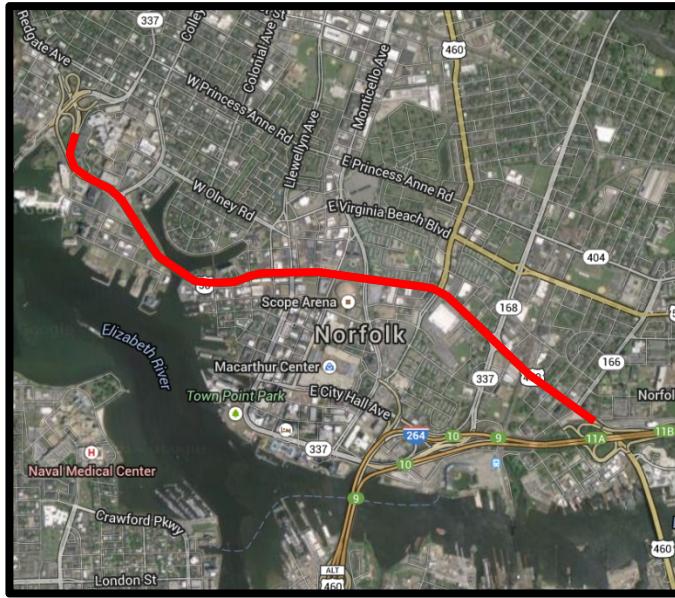
Brambleton Avenue

Project Description

FROM: Midtown Tunnel

TO: I-264

DESCRIPTION OF WORK: Widen from 6-lane principal arterial to 8-lane principal arterial



Project Utility

89

Economic Vitality

69

Project Viability

5

Total Project Score

163

Estimated Total Project Cost, YOE*

\$111.6 Million

YOE – Year of Expenditure
Cost Source: City of Norfolk

Summary of Project

- The Brambleton Avenue Candidate Project consists of corridor improvements to:
 - Enhance travel flow,
 - Increase pedestrian safety and comfort, and
 - Improve landscaping

Overview of Project Status

Project Category/System

Highway/Urban

NEPA Status

Not Started

Funding Status

N/A

Preliminary Engineering & Right of Way Status

Not started

Prior LRTP Commitment

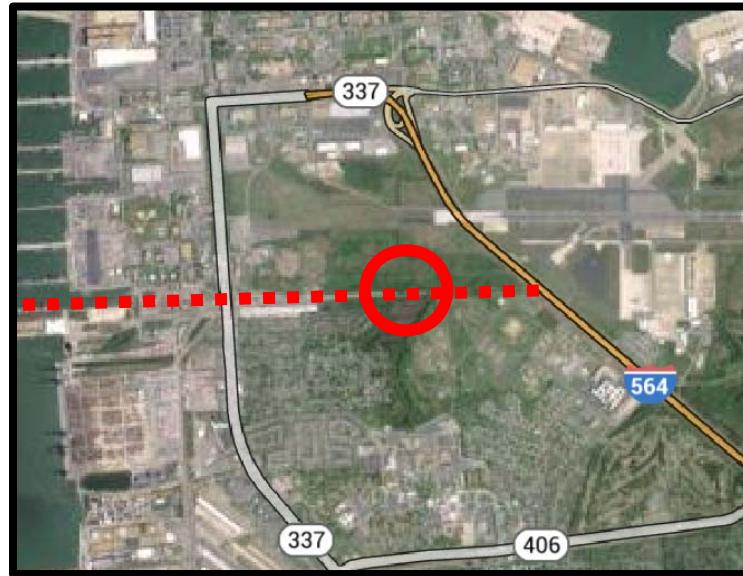
2034 Vision Plan

Table 3: 2040 LRTP Interchange/Intersection Candidate Projects

2040 Project ID	Project Name	From	To	Jurisdiction	PROJECT UTILITY TOTAL (MAX 100 POINTS)	ECONOMIC VITALITY TOTAL (MAX 100 POINTS)	PROJECT VIABILITY TOTAL (MAX 100 POINTS)	GRAND TOTAL SCORE (MAX 300 POINTS)
INTERSTATE								
2040-109	Air Terminal Interchange	N/A	N/A	Norfolk	80	95	23	198
2040-96	I-64 at Denbigh Blvd (Rte 173)	N/A	N/A	Newport News	81	95	0	176
2040-167	I-264 at Independence Blvd	N/A	N/A	Virginia Beach	79	85	5	169
2040-116	I-64 at Northampton Blvd Interchange Improvement	N/A	N/A	Norfolk	82	76	5	163
2040-45	I-64 at Lasalle Ave	I-64 WB	Lasalle Ave	Hampton	67	82	10	159
2040-46	I-64 at N. King St	N/A	N/A	Hampton	64	87	0	151
2040-115	I-264 at Ballentine Blvd Diverging Diamond Interchange	N/A	N/A	Norfolk	72	72	5	149
2040-47	I-64 at Settlers Landing Rd	N/A	N/A	Hampton	65	84	0	149
2040-118	Military Hwy at I-64 -- New EB On-Ramp	N/A	N/A	Norfolk	60	79	5	144
2040-168	I-264 at Rosemont Rd	N/A	N/A	Virginia Beach	69	63	5	137
PRIMARY								
2040-208	First Colonial Rd at Virginia Beach Blvd	N/A	N/A	Virginia Beach	66	49	62	177
2040-205	Monticello Ave at Ironbound Rd (Rte 615)	N/A	N/A	James City County	44	32	87	163
2040-33	Mt Pleasant Rd/Great Bridge Bypass	N/A	N/A	Chesapeake	63	54	5	122
2040-209	Rosemont Rd at Holland Rd	N/A	N/A	Virginia Beach	50	39	8	97
2040-210	Bypass Rd at Page St at Capitol Landing Rd	N/A	N/A	Williamsburg	61	33	0	94
2040-29	Great Bridge Blvd	Battlefield Blvd	Chesapeake Expressway Off Ramp	Chesapeake	58	22	5	85
2040-261	Laydon Way at Poquoson Ave at Little Florida Rd	N/A	N/A	Poquoson	51	20	7	78
2040-56	Richmond Rd (US 60) at Humelsine Pkwy (Rte 199) West Ramp	N/A	N/A	James City County	39	22	5	66
2040-206	Humelsine Pkwy (Rte 199) at Brookwood Dr	N/A	N/A	James City County	24	12	5	41
SECONDARY								
2040-204	Centerville Rd at News Rd	0.27 mi North of News Road	0.19 mi South of News Rd	James City County	37	5	5	47
URBAN								
2040-126	Elm Ave at Navy Gates 29 and 36	N/A	N/A	Portsmouth	74	38	0	112
2040-207	Terminal Blvd at Diven St	N/A	N/A	Norfolk	47	25	5	77

Air Terminal Interchange

Project Description	
FROM: N/A	
TO: N/A	
DESCRIPTION OF WORK: Provide new grade-separated, full-access interchange to serve Naval Station Norfolk and ports	



Project Utility	80
Economic Vitality	95
Project Viability	23
Total Project Score	198
Estimated Total Project Cost, YOE*	\$68.5 Million

*YOE – Year of Expenditure
Cost Source: VDOT SYIP

Summary of Project	
<ul style="list-style-type: none"> The Air Terminal Interchange Candidate Project provides additional access to Naval Station Norfolk Candidate project helps alleviate congestion and improve Level-Of-Service on city and naval station streets Candidate project eliminates at-grade railroad crossings Candidate project connects ports directly to freeway system 	

Overview of Project Status	
Project Category/System	Interchange/Interstate
NEPA Status	Not Started
Funding Status	15% Committed
Preliminary Engineering & Right of Way Status	Project Design – 5% Complete; ROW – Not Started
Prior LRTP Commitment	2034 LRTP Study

First Colonial Road at Virginia Beach Boulevard

Project Description
FROM: N/A
TO: N/A
DESCRIPTION OF WORK: Add continuous right turn lanes for all intersection movements



Project Utility
66
Economic Vitality
49
Project Viability
62
Total Project Score
177
Estimated Total Project Cost, YOE*
\$31 Million

YOE – Year of Expenditure
Cost Source: City of Virginia Beach

Summary of Project
<ul style="list-style-type: none">Candidate project reduces congestion and improves incident managementCandidate project improves travel time and reliability locally

Overview of Project Status
Project Category/System
Interchange and Intersection/Primary
NEPA Status
Not Started
Funding Status
75% Committed
Preliminary Engineering & Right of Way Status
Project Design – 90% Complete; ROW – Not Started
Prior LRTP Commitment
2034 LRTP Locally Funded Project

Centerville Road at News Road

Project Description	
FROM:	0.27 mi North of News Road
TO:	0.19 mi South of News Road
DESCRIPTION OF WORK:	
• Add right turn lane northbound on Centerville Road	
• Add left turn lane southbound on Centerville Road	
• Add right turn lane on News Road	



Project Utility	37
Economic Vitality	5
Project Viability	5
Total Project Score	47
Estimated Total Project Cost, YOE*	\$1.7 Million

YOE – Year of Expenditure
Cost Source: VDOT

Summary of Project	
• The Centerville Road at News Road Candidate Project includes the addition of dedicated turn lanes from Centerville Road and News Road thereby enhancing intersection operations and safety	

Overview of Project Status	
Project Category/System	Intersection/Secondary
NEPA Status	Not Started
Funding Status	N/A
Preliminary Engineering & Right of Way Status	Not Started
Prior LRTP Commitment	N/A

Elm Avenue at Navy Gates 29 & 36

Project Description
FROM: N/A
TO: N/A
DESCRIPTION OF WORK: Intersection improvements



Project Utility 74
Economic Vitality 38
Project Viability 0
Total Project Score 112
Estimated Total Project Cost, YOE* \$18.7 Million

YOE – Year of Expenditure
Cost Source: City of Portsmouth

Summary of Project
<ul style="list-style-type: none"> Candidate project enhances intersection operations and safety Candidate project reduces congestion on arterial streets where queues currently form Candidate project improves travel time and reliability to major employment centers

Overview of Project Status
Project Category/System Interchange and Intersection/Urban
NEPA Status Not Started
Funding Status N/A
Preliminary Engineering & Right of Way Status Not Started
Prior LRTP Commitment N/A

Table 4: 2040 LRTP Bridge and Tunnel Candidate Projects

2040 Project ID	Project Name	From	To	Jurisdiction	PROJECT UTILITY TOTAL (MAX 100 POINTS)	ECONOMIC VITALITY TOTAL (MAX 100 POINTS)	PROJECT VIABILITY TOTAL (MAX 100 POINTS)	GRAND TOTAL SCORE (MAX 300 POINTS)
INTERSTATE								
2040-74A	Hampton Roads Bridge Tunnel (8-Lanes)	I-64/I-664 (at Coliseum)	I-64/I-564	Multi-jurisdictional	74	95	18	187
PRIMARY								
2040-27	Deep Crk AIW Bridge Replacement and G.W. Hwy (US 17)/Moses Grandy Trail Intersection Improvements	Mill Creek Pkwy	Diamond Ave	Chesapeake	87	48	42	177
2040-38	Triple Decker Bridge (Interchange of US 13, US 460, and Norfolk Southern Rail Line)	N/A	N/A	Chesapeake	83	37	8	128
2040-134	Mills Godwin Bridge	Quail Hollow	Waterview Rd	Suffolk	65	35	15	115
2040-58	Jamestown Rd (Rte 31) Over Powhatan Creek	N/A	N/A	James City County	43	10	13	66
2040-57	Humelsine Pkwy (Rte 199) at Colonial Pkwy	N/A	N/A	James City County	32	5	5	42
SECONDARY								
2040-59	Rte 601 Over Diascund Creek	0.87 mi to Int Rte. 603	0.87 mi to Rte. 603	James City County	39	10	16	65
URBAN								
2040-133	Kings Hwy Bridge	Godwin Blvd (Rte 10)	Kings Hwy	Suffolk	66	32	5	103
2040-10	22nd St Bridge	Liberty St	Wilson Rd	Chesapeake	73	10	13	96
2040-239	Fort Eustis Blvd Bridge Replacement	E. side of Lee Hall Reservoir	W. side of Lee Hall Reservoir	Newport News	61	14	10	85
2040-129	Paradise Creek Bridge (Rte 239)	N/A	N/A	Portsmouth	53	19	8	80



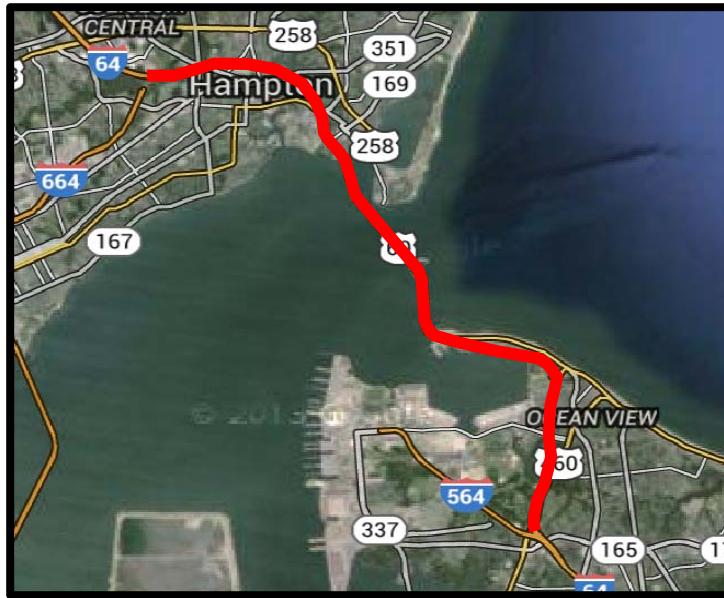
Hampton Roads Bridge-Tunnel (8-Lanes)

Project Description

FROM: I-64/I-664 (at Coliseum)

TO: I-64/I-564

DESCRIPTION OF WORK: Widen I-64 from 4 to 8 lanes between the I-64/I-664 interchange near the Hampton Coliseum and the I-64/I-564 interchange near Naval Station Norfolk



Project Utility

74

Economic Vitality

95

Project Viability

18

Total Project Score

187

Estimated Total Project Cost, 2014 \$'s

\$5.1 - \$6.9 Billion

Cost Source: VDOT, 2012 I-64 HRBT EIS

Summary of Project

- The Hampton Roads Bridge-Tunnel Candidate Project widens approximately 12 miles of I-64, including the HRBT, from 4 to 8 lanes
- Candidate project reduces severe recurring congestion at the primary gateway to South Hampton Roads
- Candidate project significantly improves regional travel time and reliability to major employment centers, port facilities, defense installations, and tourist destinations

Overview of Project Status

Project Category/System

Bridge and Tunnel/Interstate

NEPA Status

Underway

Funding Status

N/A

Preliminary Engineering & Right of Way Status

Not Started

Prior LRTP Commitment

2034 LRTP Study



17 Deep Creek Bridge Replacement and G.W. Highway/Moses Grandy Trail Intersection Improvements

Project Description

FROM: Mill Creek Parkway

TO: Diamond Avenue

DESCRIPTION OF WORK: Bridge replacement



Project Utility

87

Economic Vitality

48

Project Viability

42

Total Project Score

177

Estimated Total Project Cost, YOE*

\$51.8 Million

YOE – Year of Expenditure

Cost Source: City of Chesapeake

Summary of Project

- The Deep Creek Bridge Replacement and G.W. Highway/Moses Grandy Trail Intersection Improvements Candidate Project consists of the U.S. 17 Bridge Replacement over Deep Creek with additional improvements to approaching roadways
- Candidate project significantly reduces travel time
- Candidate project supports plans for future growth

Overview of Project Status

Project Category/System

Bridge and Tunnel/Primary

NEPA Status

Not Started

Funding Status

35% Committed

Preliminary Engineering & Right of Way Status

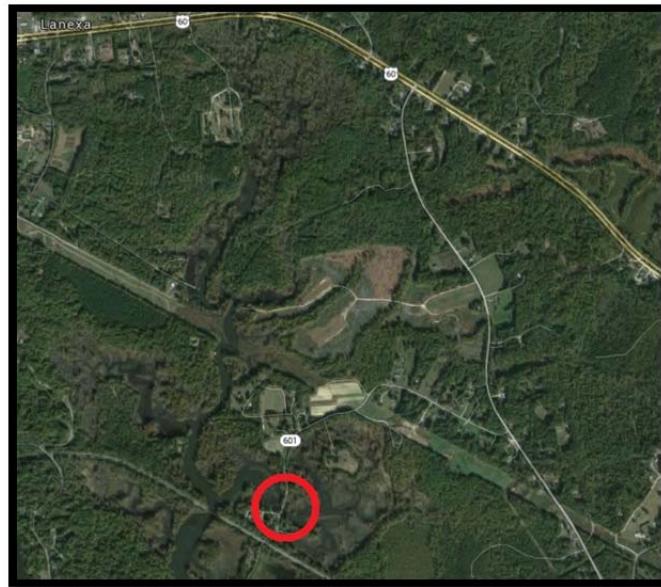
Project Design – 90% Complete; ROW – Not Started

Prior LRTP Commitment

2034 LRTP Regionally Funded

Rte 601 Over Diascund Creek

Project Description
FROM: 0.87 mi to Int Rte 603
TO: 0.87 mi to Int Rte 603
DESCRIPTION OF WORK: Bridge Replacement



Project Utility
39
Economic Vitality
10
Project Viability
16
Total Project Score
65
Estimated Total Project Cost, YOE*
\$2.3 Million

YOE – Year of Expenditure
Cost Source: VDOT

Summary of Project
<ul style="list-style-type: none"> The Rte 601 Over Diascund Creek Candidate Project consists of a new bridge replacing the existing structure over Diascund Creek in James City County. Candidate project supports plans for future growth.

Overview of Project Status
Project Category/System
Bridge and Tunnel/Secondary
NEPA Status
Not Started
Funding Status
19% Committed
Preliminary Engineering & Right of Way Status
Project Design – 10% Complete; ROW – Not Started
Prior LRTP Commitment
N/A

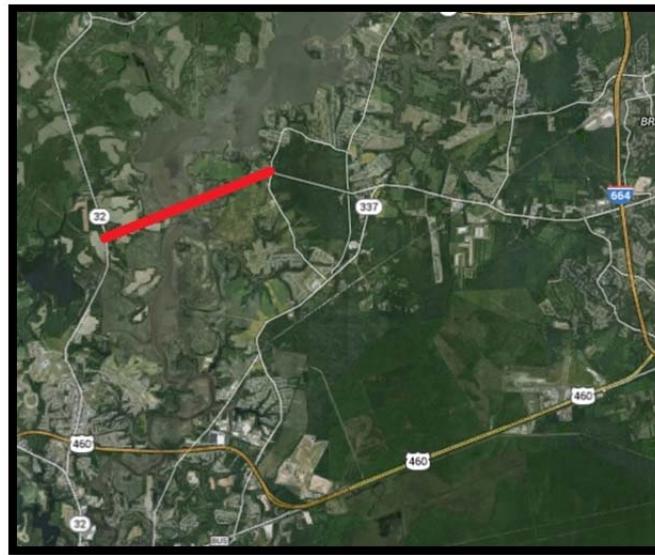
Kings Highway Bridge

Project Description

FROM: Godwin Boulevard (Route 10)

TO: Kings Highway

DESCRIPTION OF WORK: New bridge alignment



Project Utility

66

Economic Vitality

32

Project Viability

5

Total Project Score

103

Estimated Total Project Cost, YOE*

\$115 Million

YOE – Year of Expenditure

Cost Source: City of Suffolk

Summary of Project

- The Kings Highway Bridge Candidate Project replaces the alignment that was previously closed due to deterioration
- Candidate project provides service to traffic between Nansemond Parkway and Godwin Boulevard

Overview of Project Status

Project Category/System

Bridge and Tunnel/Urban

NEPA Status

Not Started

Funding Status

N/A

Preliminary Engineering & Right of Way Status

Not started

Prior LRTP Commitment

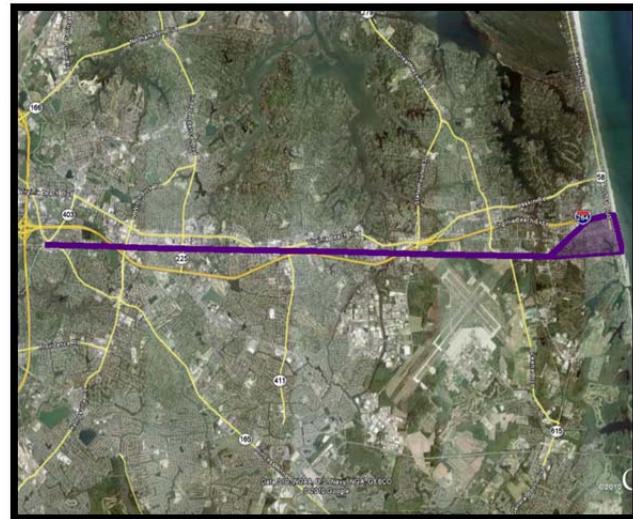
2034 Vision Plan

Table 5: 2040 LRTP Multimodal Passenger Transportation Candidate Projects

2040 Project ID	Project Name	From	To	Jurisdiction	PROJECT UTILITY TOTAL (MAX 100 POINTS)	ECONOMIC VITALITY TOTAL (MAX 100 POINTS)	PROJECT VIABILITY TOTAL (MAX 100 POINTS)	GRAND TOTAL SCORE (MAX 300 POINTS)
FIXED GUIDEWAY/LRT								
2040-186	Virginia Beach Transit Extension	Newtown Rd Station	Virginia Beach Oceanfront	Virginia Beach	75	89	32	196
2040-119	Naval Station Norfolk Transit Extension	Existing LRT	Naval Station Norfolk	Norfolk	75	81	15	171
2040-81	Portsmouth-Southside Light Rail	Portsmouth	Southside	Multi-jurisdictional	75	65	10	150
2040-30	Light Rail Transit Extension to Greenbrier Area	South Norfolk	Greenbrier Area	Chesapeake	67	60	15	142
2040-80	Peninsula Fixed Guideway (A1 Alignment)	Newport News City Hall	Denbigh Blvd (Rte 173)	Multi-jurisdictional	67	52	10	129
2040-80A	Peninsula Fixed Guideway (A3 Alignment)	Christopher Newport University	Huntington Pointe	Multi-jurisdictional	66	60	0	126
2040-213	Virginia Beach Transit Extension North - Phase II	Town Center / Independence Blvd	Shore Dr	Virginia Beach	45	65	5	115
2040-214	Virginia Beach Transit Extension South - Phase III	Town Center / Independence Blvd	Virginia Beach Municipal Center	Virginia Beach	52	56	5	113
MARITIME TRANSIT								
2040-71	Elizabeth River Ferry Expansion	Current Service Locations	ODU and Naval Station Norfolk	Multi-jurisdictional	71	60	10	141
2040-72	Ferry Service	Norfolk	Hampton	Multi-jurisdictional	65	56	10	131
2040-73	Ferry Service	Old Towne (Portsmouth)	Downtown Norfolk - Naval Station Norfolk	Multi-jurisdictional	66	55	10	131
STATION								
2040-141	Suffolk Rail Station	N/A	N/A	Suffolk	42	25	5	72
2040-62	WATA Administrative Operations Center	N/A	N/A	James City County	26	20	15	61
2040-127	Hampton Roads Transit Transfer Station	N/A	N/A	Portsmouth	31	25	5	61
RAIL								
2040-76A	Higher-Speed and Intercity Passenger Rail - DRPT Tier I EIS ROD - Preferred Alternative	Hampton Roads	Richmond / Northeast Corridor	Multi-jurisdictional	58	60	18	136
2040-79	Peninsula Commuter Rail	Newport News	Williamsburg	Multi-jurisdictional	48	72	10	130
2040-76A	High-Speed and Intercity Passenger Rail - HRTPO High Speed Rail Vision Plan - Option 4 Richmond Direct	Hampton Roads	Richmond / Northeast Corridor	Multi-jurisdictional	66	40	0	106

Virginia Beach Transit Extension

Project Description	
FROM: Newtown Road	
TO: Virginia Beach Oceanfront	
DESCRIPTION OF WORK: Construction of Fixed Guideway system along alignment of abandoned Norfolk Southern (NS) Railroad. Access options from east end of NS Railroad at Birdneck Rd to the Oceanfront are being evaluated.	



Project Utility	75
Economic Vitality	89
Project Viability	32
Total Project Score	196
Estimated Total Project Cost, YOE*	\$1.3 Billion

YOE – Year of Expenditure
Cost Source: Hampton Roads Transit

Summary of Project	
<ul style="list-style-type: none"> The Virginia Beach Transit Extension Candidate Project is currently under study Candidate project reduces emissions, is compatible with Virginia Beach's Strategic Growth Areas, and provides connectivity to the Norfolk LRT Candidate project provides new travel options for major employment centers and tourist destinations 	

Overview of Project Status	
Project Category/System	Transit/Fixed Guideway/LRT
NEPA Status	Underway
Funding Status	12% Committed
Preliminary Engineering & Right of Way Status	Underway
Prior LRTP Commitment	2034 LRTP Study

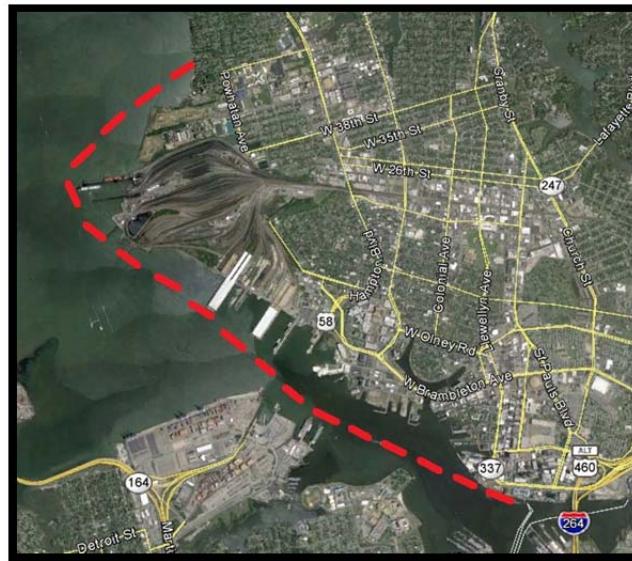
Elizabeth River Ferry Expansion

Project Description

FROM: Current Service Locations

TO: ODU and Naval Station Norfolk

DESCRIPTION OF WORK: Ferry expansion



Summary of Project

- The Elizabeth River Ferry Expansion Candidate Project consists of the addition of a new ferry route servicing ODU and Naval Station Norfolk
- Candidate project supports increased density
- Candidate project provides new travel options for major employment centers and tourist destinations

Overview of Project Status

Project Category/System

Transit/Ferry

NEPA Status

Not Started

Funding Status

N/A

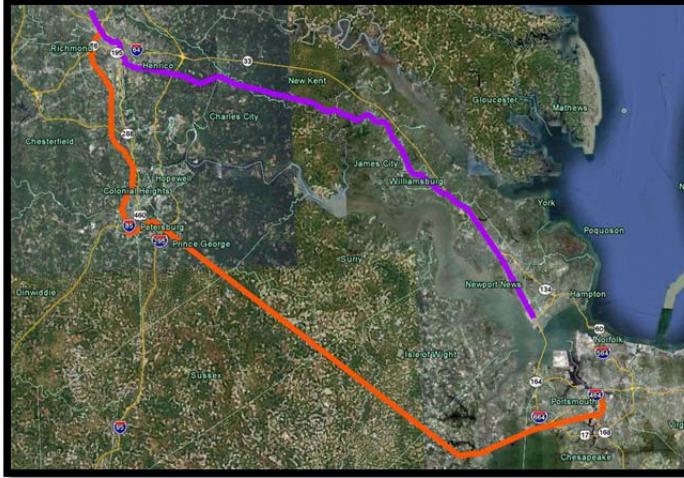
Preliminary Engineering & Right of Way Status

Not Started

Prior LRTP Commitment

N/A

High Speed and Intercity Passenger Rail – DRPT Tier I EIS

Project Description	Project Utility 58
FROM: Hampton Roads TO: Richmond Northeast Corridor	
DESCRIPTION OF WORK:	
<ul style="list-style-type: none"> Enhancement work along the existing Peninsula intercity passenger rail corridor to improve service/reliability (79-mph, 3 daily roundtrips) Enhancement work along the Norfolk Southern rail line to bring higher speed passenger rail service (90-mph, 6 daily roundtrips) to the Southside. 	
	

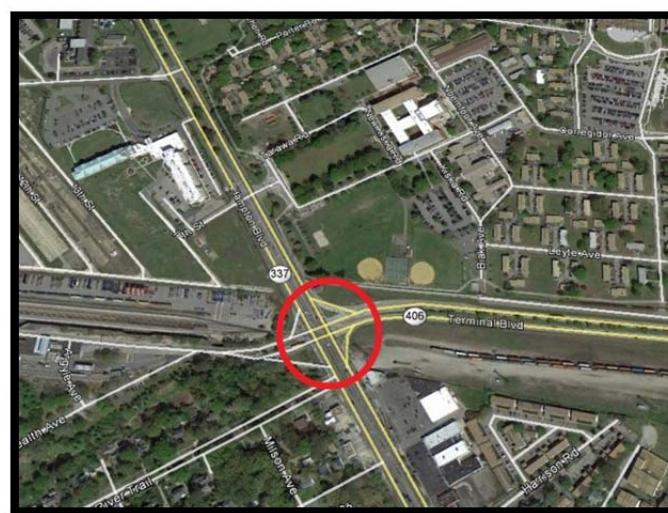
Summary of Project	Overview of Project Status										
<ul style="list-style-type: none"> The High Speed and Intercity Passenger Rail Candidate Project is a significant regional transportation project for the Hampton Roads Region. The Final Tier I EIS ROD, which identifies a “Selected Alternative” for rail development, was issued by the FRA in December 2012. Completion of the Tier I Study allows the region to pursue funding for a Tier II process, which will study detailed impacts of the project, and get it closer towards completing the NEPA process. In November 2014, the HRTPO Board directed staff to work with DRPT to identify funding for the Tier II EIS, however, funding for the project has yet to be identified. 	<table border="1"> <thead> <tr> <th>Project Category/System</th> </tr> </thead> <tbody> <tr> <td>Transit/Passenger Rail</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>NEPA Status</th> </tr> </thead> <tbody> <tr> <td>ROD Issued December 2012</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Funding Status</th> </tr> </thead> <tbody> <tr> <td>N/A</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Preliminary Engineering & Right of Way Status</th> </tr> </thead> <tbody> <tr> <td>Not Started</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Prior LRTP Commitment</th> </tr> </thead> <tbody> <tr> <td>2034 LRTP Study</td></tr> </tbody> </table>	Project Category/System	Transit/Passenger Rail	NEPA Status	ROD Issued December 2012	Funding Status	N/A	Preliminary Engineering & Right of Way Status	Not Started	Prior LRTP Commitment	2034 LRTP Study
Project Category/System											
Transit/Passenger Rail											
NEPA Status											
ROD Issued December 2012											
Funding Status											
N/A											
Preliminary Engineering & Right of Way Status											
Not Started											
Prior LRTP Commitment											
2034 LRTP Study											

Table 6: 2040 LRTP Intermodal Transportation Candidate Projects

2040 Project ID	Project Name	From	To	Purpose of Project	Jurisdiction	PROJECT UTILITY TOTAL (MAX 100 POINTS)	ECONOMIC VITALITY TOTAL (MAX 100 POINTS)	PROJECT VIABILITY TOTAL (MAX 100 POINTS)	GRAND TOTAL SCORE (MAX 300 POINTS)
2040-114	Hampton Blvd at Terminal Blvd	Trouville Ave/Portor St	Hampton Blvd	New Highway/Rail Underpass	Norfolk	60	85	24	169
2040-34	Portlock Rd	N/A	N/A	Replace existing at-grade railroad crossing of the Norfolk-	Chesapeake	81	50	5	136
2040-25	Freeman Ave	N/A	N/A	Replace the existing at-grade railroad crossing for the No	Chesapeake	60	60	14	134
2040-142	Finney Ave Flyover	Pinner St	Route 13/337 E Washington St	Provides grade seperated crossing of existing railroad in core downtown area	Suffolk	59	50	15	124
2040-135	North Suffolk Connector Rd	N/A	N/A	New two lane divided roadway	Suffolk	70	30	5	105

Hampton Boulevard at Terminal Boulevard

Project Description	
FROM:	Trouville Avenue/Portor Street
TO:	Hampton Boulevard
DESCRIPTION OF WORK:	New highway/rail underpass



Project Utility	60
Economic Vitality	85
Project Viability	24
Total Project Score	169
Estimated Total Project Cost, YOE*	\$132 Million

YOE – Year of Expenditure
Cost Source: VDOT

Summary of Project	
<ul style="list-style-type: none"> The Hampton Blvd at Terminal Blvd Candidate Project allows for unimpeded traffic flow via grade separation between rail and auto traffic Candidate project improves travel time and reliability to port facilities and defense installations 	

Overview of Project Status	
Project Category/System	Intermodal
NEPA Status	Not Started
Funding Status	N/A
Preliminary Engineering & Right of Way Status	Project Design – 10% Complete; ROW – Not Started
Prior LRTP Commitment	2034 Vision Plan

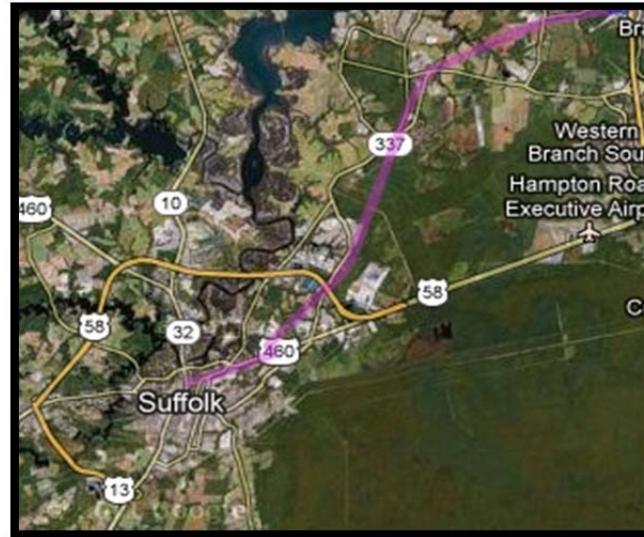
Table 7: 2040 LRTP Active Transportation Candidate Projects

2040 Project ID	Project Name	From	To	Jurisdiction	Improvement Description	PROJECT UTILITY TOTAL (MAX 100 POINTS)	PROJECT VIABILITY TOTAL (MAX 100 POINTS)	GRAND TOTAL SCORE (MAX 200 POINTS)
2040-136	Rail-to-Trail (Suffolk Seabord Coastline Trail, part of the South Hampton Roads Trail)	Pughsville Rd	Downtown Suffolk	Suffolk	Shared Use Path	57	40	97
2040-226	Scarborough Bridge	Magic Hollow Blvd	Old Clubhouse Rd	Virginia Beach	New facility - Shared Use Path	76	5	81
2040-85	South Hampton Roads Trail: Complete Trail (Suffolk to VB)	Suffolk	Virginia Beach	Multi-jurisdictional	Bicycle / Pedestrian Facility	74	5	79
2040-69	South Hampton Roads Trail: Virginia Beach (Bike Trails/Lanes Along Light Rail Tracks)	Norfolk	Oceanfront	Multi-jurisdictional	Bicycle / Pedestrian Facility	72	5	77
2040-67	Bike Path Along Shore Dr/Hampton Blvd/Little Creek Rd	Norfolk Elizabeth River Trail	Virginia Beach City Line	Multi-jurisdictional	Bike Lanes	68	5	73
2040-185	Violet Bank Dr Bike Trail	Kittery Dr	Selwood Dr	Virginia Beach	New facility - Shared Use Path	65	8	73
2040-60	Sidewalks along Longhill Rd over Route 199	DePue Drive	Lane Place	James City County	Provide 5-foot sidewalk on both sides	61	10	71
2040-37	South Hampton Roads Trail: Western Branch	Taylor Rd	Poplar Hill Rd	Chesapeake	Convert the Commonwealth Railroad right-of-way to a shared use path	54	15	69
2040-192	Monticello Ave Shared-Use Path	Treyburn Drive	Ironbound Rd (Rte 615)	Williamsburg	This project is a 10' lighted shared-use path along Monticello Avenue between Treyburn Drive and Ironbound Road that will improve access and safety for pedestrians and cyclists.	54	15	69
2040-222	Northampton Blvd Right-of-Way	Bayside Dr	Greenwell Rd	Virginia Beach	New facility - Shared Use Path	64	5	69
2040-224	Thalia Creek Greenway Phase - 1D	Constitution Dr	Virginia Beach Blvd	Virginia Beach	New facility - Shared Use Path	64	5	69
2040-188	Walkway at Virginia Beach Town Center Over I-264	Thalia Creek Greenway	Mt. Trashmore Park	Virginia Beach	New facility - 14'-20' wide shared use path bridge	59	5	64
2040-187	Nimmo Trail	Nimmo Pkwy	Sandbridge Rd	Virginia Beach	New facility - Shared Use Path	56	8	64
2040-225	Level Green Powerline Corridor	Reon Dr	Chesapeake CL at S. Military Hwy	Virginia Beach	New facility - Shared Use Path	53	8	61
2040-223	Thalia Creek Greenway - Phase 1C	Bonney Rd	I-264	Virginia Beach	New facility - Shared Use Path	53	5	58
2040-18	Construct multi-use path along Etheridge Manor Blvd/ Hanbury Rd	Centerville Trpk	Johnstown Rd	Chesapeake	Construct new Shared Use Path	48	8	56
2040-123	Bike lanes on Churchland Blvd	Portsmouth Trail	High St	Portsmouth	Provide bike facility connection	50	5	55
2040-228	Shared Use Path Along Yorktown Rd	Cardinal Ln (Rte 670)	Victory Blvd (Rte 171)	York County	Shared Use Path	49	5	54
2040-113	Extend Elizabeth River Trail to Naval Station Norfolk	Cloncurry Road	Admiral Tausig Boulevard	Norfolk	Extension of Existing Pedestrian/Bicycle Trail with a bike lane on Hampton Boulevard to N	53	0	53
2040-193	Shared Use Path Victory Blvd (Rte 171)	Hampton Hwy (Rt 134)	Carys Chapel Rd	York County	Shared Use Path	47	5	52
2040-54	Pocahontas Trail Reconstruction	James City County Fire Station #2 (8429 Pocahontas Trail)	James River Elementary School (8901 Pocahontas Trail)	James City County	Upgrade 1.9 mile segment of Pocahontas Trail with a 5' sidewalk and 5' paved shoulder with pedestrian lighting and bus pull offs.	45	5	50
2040-88	VA/NC Dismal Swamp Bike/Walk Trail Connection	VA	NC	Multi-jurisdictional	Bicycle / Pedestrian Facility	45	5	50
2040-21	Construct multi-use path trail along Dismal Swamp Canal	Existing Trailhead	North Carolina Border	Chesapeake	Extend Dismal Swamp Trail Shared Use Path south along US 17 to NC	41	8	49
2040-66	Shared Use Path - Yorktown Road	Tabb High School	Hampton Hwy (Rte 134) at Brick Kiln Cr	York County	Shared Use Path	41	5	46
2040-65A	Bike Lanes on Greensprings Rd and Centerville Rd that connect to Capital Trail	Jamestown Rd (Rte 31)	John Tyler Hwy (Rte 5)	James City County	Bike Lanes	41	5	46
2040-19	Construct multi-use path along George Washington Hwy	Old Mill Rd	Deep Creek Park	Chesapeake	Shared Use Path north along S. George Washington Hwy. near Dismal Swamp Trail	37	8	45
2040-51	Monticello Ave Bike Lane	News Rd	Centerville Rd	James City County	Provide 4-foot wide bike lane on both sides	39	5	44
2040-227	Penniman Rd (Sidewalk / Multi Use Path)	Williamsburg CL	Marquis Center Pkwy (Rte 199)	York County	Sidewalk & Multi-Use Path	38	5	43
2040-121	Bike Path on Hunts Neck Rd (Rte 172)	Yorktown Rd	Pasture Rd	Poquoson	Provide 10' Shared Use Path	26	0	26

Rail-to-Trail (Suffolk Seaboard Coastline Trail)

(Part of the South Hampton Roads Trail)

Project Description
FROM: Pughsville Road
TO: Downtown Suffolk
DESCRIPTION OF WORK: Construction of a 11.4 mile shared use path along abandoned rail line



Project Utility
57
Economic Vitality
N/A
Project Viability
40
Total Project Score
97
Estimated Total Project Cost, YOE*
\$6.8 Million

YOE – Year of Expenditure
Cost Source: City of Suffolk

Summary of Project
<ul style="list-style-type: none"> The Rail-to-Trail (Suffolk Seaboard Coastline Trail) Candidate Project is the Suffolk segment of the South Hampton Roads Trail Candidate project connects to the existing short segment near the Suffolk Seaboard Station Railroad Museum Candidate project improves safety

Overview of Project Status
Project Category/System
Active Transportation
NEPA Status
Complete
Funding Status
25% Committed
Preliminary Engineering & Right of Way Status
Project Design – 25% Complete; ROW - Complete
Prior LRTP Commitment
N/A

APPENDIX



Methodology of Applying HRTPO Project Prioritization Tool to the Scoring of 2040 Long-Range Transportation Plan Candidate Projects

Description of Calculations: Project Utility, Economic Vitality, and Project Viability



January 2015

Background Section

Note: The columns in the gray area are used to calculate values for the Tool Performance Measures, mostly for the Utility leg of the Tool.

INRIX Data

Based on whether travel time and speed data is collected by INRIX on that roadway segment.

Existing capacity

For both Highways and Bridges/Tunnels, the existing capacity is based on the daily volume that is the threshold between LOS E & F based on the existing roadway class of that segment.

Future capacity

For both Highways and Bridges/Tunnels, the future capacity is based on the daily volume that is the threshold between LOS E & F based on the proposed roadway class of that segment.

ADT

For both Highways and Bridges/Tunnels, ADT was determined by using the daily volume for a representative segment within the project limits. If the facility does not currently exist, a value of "N/A" was reported and the daily volume was used for a parallel facility.

EPDO Crash Rate

For roadway segments, the EPDO crash rate per million vehicle-miles of travel (VMT) from the years 2009-2013 was used. EPDO crash rates provide more weight to those more severe crashes by placing a weight of 1 on Property Damage only crashes, a weight of 3 on injury (INJ) crashes, and a weight of 12 on fatality (FAT) crashes. For each project, VDOT crash shapefiles were used.

For intersections, the EPDO Crash Rate per million entering vehicles was used. Data for intersections reflect all crashes within 250 feet (0.05 miles) of the intersection.

For interchanges, the EPDO Crash Rate per million VMT was used. Data for interchanges reflect all crashes within 0.5 miles of the center of the interchange for freeways, and all crashes within the interchange area for arterials.

The EPDO Crash Rate for each facility was compared to a regional average EPDO Crash Rate. For freeway segments and intersections, the average is based on the average from the HRTPO Regional Safety Study. This average is 1.41 for freeways and 1.15 for intersections. For

interchanges, the regional average EPDO Crash Rate was determined using the regional rate for freeways combined with the regional rate for ramps (based on VDOT crash and VMT data). This average is 1.57. For all other facilities, the regional average EPDO Crash Rate is based on statewide Virginia averages by roadway type from the year 2012 using information included in VDOT's "2012 Summary of Crash Data".

Future ADT

The Regional Travel Demand Model was used to calculate the Future Average Daily Traffic (ADT) for highway, interchange, bridge & tunnel, and intermodal projects.

Estimated Cost of Project

Estimated costs of projects are expressed in Year-of-Expenditure (YOE) dollars. Stakeholders submitted associated costs for candidate projects in two ways:

- 1) Project costs were submitted in YOE dollars, along with the estimated program date/period. This information was provided by localities and/or VDOT.
- 2) Project costs were submitted in current year dollars. In this case, localities and/or VDOT supplied the estimated program date/period (cost band time period, see below). The midpoint inflation factor for each cost band was then applied to current year estimate to convert to YOE (based on 3% inflation rate).

Current	Near							Middle							Far											
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
1	1.03	1.061	1.093	1.126	1.159	1.194	1.23	1.267	1.305	1.344	1.384	1.426	1.469	1.513	1.558	1.605	1.653	1.702	1.754	1.806	1.86	1.916	1.974	2.033	2.094	2.157

Midpoint Inflation Factor for each Cost Band:

Midpoint Inflation Factor for each Cost Band:		
Near	(2015-2022)	1.126
Middle	(2023-2031)	1.469
Far	(2032-2040)	1.916

Estimated Cost of Project (Active Transportation)

If not provided by locality stakeholders, the estimated costs of active transportation projects were calculated using the VDOT Planning Level Cost Estimation Tool. The mid-range costs per mile estimates (average of low estimate and high estimate) for the Hampton Roads district were used.

All project costs were expressed in Year-of-Expenditure (YOE) dollars; locality submitted implementation years were used where available, in cases where no data was provided a 2040 implementation year was applied. Unit costs for bike lanes, shared use paths, sidewalks, were applied based on the locality submitted description of the project. Depending on the project location, the costs of a bridge over water crossings were estimated. Right of Way and utility costs were not included in the estimates.

2040 Daily VMT

Future ADT multiplied by length of project.

2040 Daily VMT for Interchanges

The Regional Travel Demand Model was used to calculate the 2040 Daily Vehicle Miles Traveled (VMT) for interchange and intersection projects. The 2040 volumes on the Northbound, Southbound, Eastbound, and Westbound approaches of an interchange or intersection were plugged into a formula that calculated the overall VMT.

Bridge Detour Length (Bridge and Tunnel)

The bridge detour length is the length of the shortest path from one end of the bridge/tunnel to the other end.

Bridge Detour VMT

The bridge detour VMT was calculated by multiplying the most recent weekday count by the segment length for each segment along the shortest detour route. CMP segments were split as necessary to create the route, with revised segment lengths being used to calculate the VMT, and non-CMP counts were used when non-CMP roadways were included in the detour route.

Project Utility

Note: The source of most of these score components is columns in the Background Section and this can be seen by the formulas in the cells.

Congestion Level

1. Highways; 3. Bridge and Tunnel

(a) Percent Reduction between Existing and Future V/C Ratios

(Existing V/C-Future V/C)/Existing V/C.

For new roadways: use Existing V/C and Future V/C of parallel facility

(b) Existing Peak Period Congestion Level (TTI) and Existing Peak Period Level of Service (No Inrix Data)

Congestion levels were determined using the travel time index (TTI) for roadways with INRIX data and using Level of Service for roadways where INRIX data is not available. The travel time index is a ratio that compares travel times on a particular roadway segment during peak travel periods with travel times during uncongested, free-flow conditions. The higher the travel time index, the more congested the roadway is.

HRTPO uses the following thresholds to determine congestion levels based on the travel time index:

Congestion Level		Freeway	Arterial
Low	LOW	TTI < 1.15	TTI < 1.25
Moderate	MOD	1.15 ≤ TTI < 1.3	1.25 ≤ TTI < 1.4
Severe	SEV	TTI ≥ 1.3	TTI ≥ 1.4

Level of service is a measure used to describe congestion levels based on Highway Capacity Manual analysis methods. Congestion levels based on Levels-of-Service are shown in the following table:

Congestion Level		HCM LOS
Low	LOW	A-C
Moderate	MOD	D
Severe	SEV	E-F

The worst TTI and LOS during the day for that roadway segment is used, regardless of direction or peak period.

(c) Impact to Nearby Roadway

Future ADT – Existing ADT

For new roadways: use Future ADT

2. Interchanges

(a) Existing Queue Conditions

Based on Number of Interstate and Arterial Approaches from where queues currently form (1 to 4 approaches)

(b) Queue Improvements

Number of Interstate and Arterial Approaches improved by project (1 to 4 approaches)

(c) Number of Movements Added or Improved

Based on improved left and right movements (Max: 8 movements)

Infrastructure Condition (Bridge and Tunnel Only)

(a) Bridge Sufficiency Rating

The bridge sufficiency rating is the lowest bridge sufficiency rating given to a bridge within the project limits from the bridge database.

(b) Age of Tunnel

The age of tunnel reported is the oldest tunnel within the project limits.

(c) Last Major Repair

Provided by stakeholder (based on horizon year)

(d) Costs for Necessary Repairs/Upgrades

Provided by stakeholder

System Continuity and Connectivity

1. Highways; 2. Interchanges; 3. Bridge and Tunnel; 4. Transit; 6. Active Transportation

Degree of Regional Impact

Regional, Multi-jurisdictional, Local. Provided by stakeholders

6. Active Transportation

Elimination of Barriers or Completion of Gaps across a Major Barrier (Active Transportation Only)

Does the project eliminate a barrier or complete a gap across a major barrier? Examples include:

- Providing a crossing across a major roadway
- Providing a connection across a body of water
- Providing alternate Pedestrian or Bicycle travel paths away from a major roadway

Connections to Existing Bike/Ped Facilities (Active Transportation Only)

Does the project connect two or more existing active transportation facilities by completing a gap (Yes/No)? Active Transportation Existing Facilities Map (dated October 2014) was used as standard.

Provides Access to Transit, Local/Regional Destinations, High Density Areas (Active Transportation Only)

0 to 3+ Enhancements. Provided by stakeholders.

Cost Effectiveness

1. Highways; 2. Interchanges; 3. Bridge and Tunnel; 4. Transit; 5. Intermodal

Estimated cost (YOE)/2040 Daily VMT

6. Active Transportation

Project Cost (YOE)/Population Served (within 1.5 mile radius of project)

Land Use Compatibility

1. Highways; 2. Interchanges; 3. Bridge and Tunnel; 4. Transit; 6. Active Transportation

Compatible and Officially Documented, Compatible but Not Officially Documented, Not Compatible. Provided by stakeholders

Safety and Security

1. Highways; 2. Interchanges; 3. Bridge and Tunnel

(a) Critical Crash Ratio

Actual EPDO Crash Rate/Average EPDO Crash Rate for Roadway Type

(b) Improvement to Incident Management or Evacuation

Yes/No. Provided by stakeholders

(c) Diversion Impact Due to Failure (Bridges and Tunnels Only)

Existing ADT multiplied by detour length, plus existing detour route VMT

6. Active Transportation

Crash History

Average Number of Bike/Ped Crashes per Year (2009-2013)

Project a Safety Improvement

Yes/No. Provided by stakeholders.

Modal Enhancements

1. Highways; 2. Interchanges; 3. Bridge and Tunnel

Project Improves Vehicular Access

Yes and Regional, Yes but Not Regional, No. Provided by stakeholders

1. Highways; 2. Interchanges; 3. Bridge and Tunnel; 4. Transit; 5. Intermodal; 6. Active Transportation

Additional Dedicated Facilities for Alternative Modes

0 to 3+ Enhancements. Provided by stakeholders.

Unimpeded Commercial Maritime/Rail Traffic (Bridges and Tunnels Only)

Yes/No. Provided by stakeholders.

Existing Usage and/or Prospective Ridership (Transit Only)

Passengers per Day. Computed by dividing Estimated Annual Ridership (provided by stakeholders) by assumed 250 working days per year.

User Benefit (Transit Only)

Total Annual Travel Time Savings per Rider

For each transit project, an average travel speed of 24 mph was assumed. This was compared to an inferior transit average travel speed of 10 mph for the same distance that would be covered by each proposed project. The resulting improvement in travel time was then doubled (to account for round trip) and multiplied by an assumed 250 working days per year; this result was then multiplied by the forecasted Passengers per Day to obtain the Annual Travel Time Savings associated with each project. To calculate Total Annual Travel Time Savings per Rider, the Annual Travel Time Savings was divided by the Estimated Annual Ridership (Annual Travel Time Savings in Hours per Year/Estimated Annual Ridership).

Total Annual Travel Time Savings per Rider for Intercity Rail Projects

Calculated travel time savings per rider based on difference between existing and proposed schedule times (derived from rail studies). This difference was then multiplied by estimated ridership.

Air Quality (Transit Only)

Emissions Reduced per Year

The difference between total carbon dioxide, methane, and nitrous oxide emissions (in tons per commuter) of single-occupant passenger cars and transit was calculated. Then, this difference was multiplied by the number of estimated annual trips for each project.

Travel Mode	CO ₂ , CH ₄ , and N ₂ O Emissions (tons per passenger-mile)
Car	4.707×10 ⁻⁴
Transit	1.863×10 ⁻⁴

Better Accommodates Intermodal Movements (Intermodal Only)

Degree of Conflict for Intermodal Movements

Conflict Free Intermodal Movements, Limited Conflict Intermodal Movements, Intermodal Movements Conflict. Provided by stakeholders.

Improves Rail or Vehicular Access (Intermodal Only)

Project Improves Vehicular Access

Yes and Regional, Yes but Not Regional, No. Provided by stakeholders.

Economic Vitality

Total Reduction in Travel Time

1. Highway; 3. Bridge and Tunnel

Total reduction in travel time is based on the total travel time savings (in vehicle-hours) in the peak direction during the peak hour.

For roadway widenings:

Existing speeds were estimated for the peak direction/peak hour using FDOT software based on various roadway and peak hour characteristics. Future speeds were also determined based on the same existing roadway and peak hour characteristics but replacing the existing number of lanes with the future number of lanes. The difference between the existing and future speeds was used to calculate the total travel time savings.

For those roadways with INRIX data, if the roadway experiences moderate or severe congestion and the INRIX speeds were lower than the FDOT software speeds, then the INRIX speeds were used as the existing speed. The FDOT future speed is still used, and the difference between the INRIX and future speeds was used to calculate the total travel time savings.

For future roadways:

The process is similar to the process used for roadway widenings. However, the existing and future speeds were estimated for the parallel facility, with future speeds based on an estimated drop in volumes on the parallel facility based on the new facility opening.

For railroad overpass projects:

Delay was calculated based on a procedure used to estimate delay for CMAQ railroad overpass projects. This is based on the volume on the roadway, the number of train crossings per day, and the average obstruction per train (which was assumed to be 10 minutes except for the Freeman Avenue overpass which was 20 minutes based on information from Chesapeake). This delay was then converted to a peak hour, peak direction delay using peak hour volume characteristics.

The thresholds for total reduction in travel time (for the peak hour peak direction) are as follows:

Very High – Total Reduction > 20 hours
High – 10 hours < Total Reduction < 20 hours
Medium – 5 hours < Total Reduction < 10 hours
Low – 2 hours < Total Reduction < 5 hours
Very Low – Total Reduction < 2 hours

2. Interchanges

Source of congestion: gray section (project background)

Source of system: gray section (project background)

	Severely congested (E/F)	Moderate congestion (D)	Low congestion (A-C)
Interstate	Very high	High	Low
Primary	High	Medium	Low
Secondary	Medium	Low	Very low
Urban (Primary)	High	Medium	Low
Urban (Secondary)	Medium	Low	Very low

4. Transit: (N/A)

5. Intermodal

See Highway or Interchange, as appropriate.

6. Active Transportation (Bicycle/Pedestrian): (N/A)

Labor Market Access

1. Highway; 2. Interchange; 3. Bridge and Tunnel; 5. Intermodal

(a) Increases Travel Time Reliability

Travel time reliability impacts were determined using the following categories:

For projects that are related to railroad overpasses or replacing drawbridges with fixed span bridges, a Very High Travel Time Reliability is used.

For any projects that don't result in an increase in capacity, a Low Travel Time Reliability is used.

For roadways with INRIX data, the Planning Time Index (PTI) was used. The highest Planning Time Index within the project limits from the year 2013 was used, regardless of direction or peak period. Travel Time Reliability was rated as follows:

Very High – PTI > 2.5

High – 2.0 < PTI < 2.5

Medium-High – 1.75 < PTI < 2.0

Medium – 1.5 < PTI < 1.75

Medium-Low – 1.25 < PTI < 1.5

Low – PTI < 1.25

For roadways without INRIX data, Travel Time Reliability was rated as follows:

Very High – Congested facility (LOS E or F), High number of crashes, few available and uncongested diversion routes, high traffic volumes

High – Congested facility (LOS E or F), Medium to High number of crashes, few or some available and uncongested diversion routes, medium traffic volumes

Medium-High – Congested facility (LOS E or F), Low to Medium number of crashes, many diversion routes available, any traffic volumes

Medium – Either a congested facility (LOS E or F) with low crashes, many diversion routes available, and lower traffic volumes, OR an uncongested facility (LOS A to D) with a high number of crashes, few diversion routes available, and medium to high traffic volumes

Medium-Low – Uncongested facility (LOS A to D), Medium number of crashes, many diversion routes available, low to medium traffic volumes

Low – Uncongested facility (LOS A to D), Low number of crashes, many diversion routes available, low traffic volumes, OR if the facility is a realignment with no new capacity.

For existing interchanges/intersections, the average of the PTI's for the legs of the interchange/intersection were used, and Travel Time Reliability using the above thresholds were used. For existing interchanges/intersections without INRIX data, the same methodology from roadways without INRIX data was used. For new interchanges, the travel time reliability of an adjacent interchange was used.

(b) Increases Access for High Density Employment Areas

Based on future employment density of appropriate TAZ(s)
(w/ GIS, overlay projects and TAZs colored by four levels of employment density)

Determined employment density by dividing 2040 forecasted total employment by area (square meters). TAZs with an employment density of 25 employees/square meter were identified and classified into 9 groups (Peninsula: Williamsburg, Oyster Point, Newport News Shipyard; Southside: Norfolk Naval Station, Downtown Norfolk/Portsmouth, Virginia Beach Town Center, Oceana, Greenbrier, and Downtown Suffolk).

Total forecasted employment numbers for each of the 9 identified groups were summed; 4 thresholds for Very High, High, Medium, and Low were established based on Natural Breaks.

Very High: 41,501 – 74,898 Total Employees

High: 26, 069 – 41,500 Total Employees

Medium: 5,640 – 26, 068 Total Employees

Low: TAZs with less than 25 employees/area

For Intermodal Projects: Yes/No response

4. Transit

(a) Increases Access for Major Employment Centers

TAZs within ½ mile of transit alignment identified; total employment summed for these TAZs

Points awarded on a sliding scale 0-20 points:

20 Points (max): Total Employment \geq 250,000

0 Points: Total Employment \leq 75,000

(b) Increases Travel Time Reliability

Transit projects are scored based on whether they increase travel time reliability or not (yes/no). All fixed guideway transit and ferry transit projects are scored “yes”. All stations/operations centers are scored “no”.

(c) Increases Frequency of Service

New LRT and Ferry projects automatically increase frequency of transit service; bus transfer stations do not.

(d) Provides Access to Institutions of Higher Education

Institutions of higher education used (4-year, not-for-profit): ODU, NSU, Va. Wesleyan, Regent, Hampton University, CNU, William & Mary.

6. Active Transportation (Bicycle/Pedestrian): (N/A)

Addresses the Needs of Basic Sector Industries

1. Highway; 2. Interchange; 3. Bridge and Tunnel

(a) Improves Access to Major Military Bases

“Major” based on DOD report (“Base Structure Report”, DOD, 2014). 9 facilities have much higher employment than the rest. Access improvement determined via examination of GIS map with projects and major facilities.

9 Major Military Facilities:

1. Dam Neck
2. Fort Eustis
3. Fort Story
4. Langley AFB
5. Little Creek Naval Amphibious Base
6. Naval Medical Center Portsmouth
7. Norfolk Naval Shipyard
8. Norfolk Naval Base
9. Oceana Naval Air Station

Points assigned based on the following matrix:

Access:	None Military Road	Road Serving the Military	STRAHNET
None	Low	Low	Low
Near	Low	Medium	Medium
Direct	Medium	High	High

(b) NHS/Military/STRAHNET

Based on whether the roadway is part of the National Highway System, Strategic Highway Network (STRAHNET), or is a roadway serving the military. Roadways serving the military were determined in HRTPO's Military Needs Study.

(c) Improves Access to Major Tourist Areas

Major Tourist Areas: Oceanfront, Historic Triangle (Williamsburg, Jamestown, Yorktown), and Busch Gardens.
Access improvement determined via examination of GIS map with projects and major areas.

Points assigned based on the following matrix:

Access:	Local	Principal	Interstate
None	Low	Low	Low
Near	Low	Medium	Medium
Direct	Medium	High	High

(d) Travel Time for trips to the ports

Based on the HRTPO Existing and Future Truck Delay in Hampton Roads study. Broken down into < 5 hours/mile, 5-10 hours/mile, and > 10 hours/mile thresholds. For interchange/intersection projects, the average of each leg of the interchange/intersection is used.

4. Transit

(a) Provides/Improves Access for Defense Installations

Based on same "Major" bases identified under Highway section (above)
Access improvement determined via examination of GIS map with projects and major facilities.

10 Points: < 0.25 Miles

5 Points: >= 0.25 Miles – 0.5 Miles

0 Points: >= 0.5 Miles

(b) Provides/Improves Access for Tourist Destinations

Major Tourist Areas: Oceanfront, Historic Triangle (Williamsburg, Jamestown, Yorktown), and Busch Gardens.

Access improvement determined via examination of GIS map with projects and major areas.

10 Points: Direct Access

5 Points: Near Access

0 Points: No Access

5. Intermodal

(a) Increases Access to the Port

Google Maps was used to determine whether the facility would increase direct access to airports in the region.

5 Points: Yes

0 Points: No

(b) Improves Flow of Rail

Based on whether facility will improve mobility of rail.

Mobility improvement of rail determined using project description and Google Maps. Google Maps was used to determine whether the facility was near a railroad to affect movement.

5 Points: Yes

0 Points: No

(c) Increases Access to Airports

Google Maps was used to determine whether the facility would increase direct access to airports in the region.

5 Points: Yes

0 Points: No

6. Active Transportation (Bicycle/Pedestrian): (N/A)

Increased Opportunity

(a) Provides New or Increased Access Opportunities

Based on change in capacity or reliability:

- New alignment: “New Opportunity” (10 points)
- Widening: “Increased Opportunity” (5 points)
- Removal of Obstacle (e.g. rail crossing): “Increased Opportunity” (5 points)
- Improvements w/o additional capacity (e.g. bridge replacement or road reconstruction): “No Additional Opportunity” (0 points)

(b) Supports Plans for Future Growth

Based on “Land Use/Future Development Compatibility” in Utility leg:

- For “compatible and officially documented”: yes, supports plans for future growth
- For “compatible and not officially documented” or “not compatible”: no, does not support plans for future growth

Economic Distress Factors

(4. Transit only)

(a) Provides New Access to the Network

New LRT and Ferry projects provide new access; transfer stations do not.

(b) Provides Access to Areas with High Unemployment

Localities with unemployment rates >6% in Sept. 2014: Hampton, NN, Norfolk, Portsmouth, and Wlmbg.

(c) Provides Access to Low Income Areas

Access provided to low income areas was determined via the examination of a GIS map that contained American Community Survey (ACS) data and the 2040 LRTP Candidate Projects. The map showed the percentages of households with incomes in the past 12 months below poverty level. The regional average of households below poverty level is 11.90%.

10 Points: If transit project provides access to low income areas with percentages above the regional average.

0 Points: If transit project does not provide access to low income areas with percentages above the regional average.

Project Viability

(same for all categories)

Percentage of Funding Committed

0-100%. Provided by stakeholders.

Project is included in the currently adopted LRTP (or Transit Vision Plan for transit projects, comprehensive plan for Active Transportation projects)

Yes/No. Provided by stakeholders.

Percentage of Project Design Complete

0-100%. Provided by stakeholders.

Environmental Documents

Full (NEPA has been completed), Partial (NEPA has been initiated), None. Provided by stakeholders.

Environmental Documents Decisions Obtained

Yes/No. Provided by stakeholders.

Right-of-Way and Utilities

Full (both ROW and Utilities have been coordinated), Partial (either ROW or Utilities have been coordinated), None. Provided by stakeholders.

Additional Environmental Permits

Yes/No/Not Needed. Provided by stakeholders.