



I-81 2025 CORRIDOR IMPROVEMENT PLAN

Solutions Prioritization

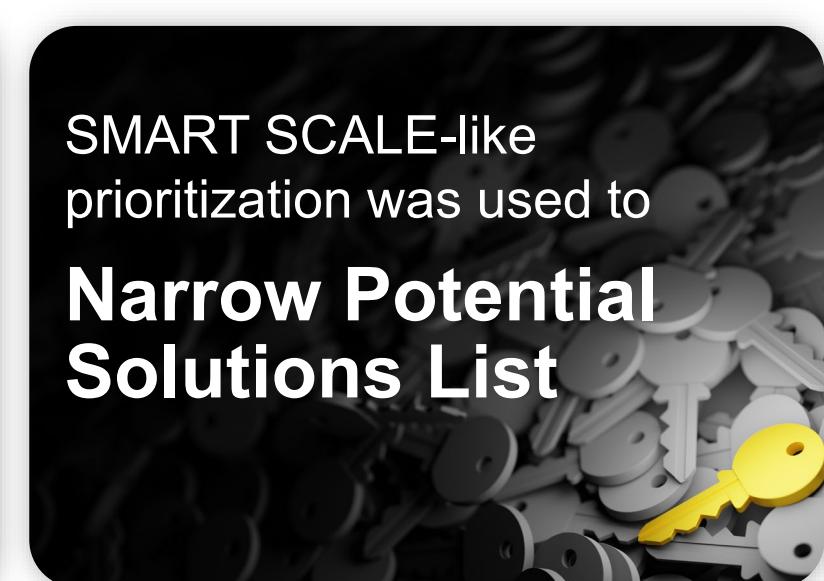
| Rob Williams, AICP

October 14, 2025

Financial Constraints

Project Selection Process

- September CTB meeting provided an overview of the performance-driven solutions that were developed based upon public feedback
- A SMART SCALE-like process was applied to those capital solutions to constrain the projects against available funding, and a staff-recommended funding scenario developed



Project Prioritization and Funding Process

Safety	Reduce the number and rate of fatalities and severe injuries
Congestion	Reduce person-hours of delay and increase person throughput
Accessibility	Increase access to jobs and travel options

Prioritize projects using a SMART SCALE-like evaluation of improvements using the following weights:

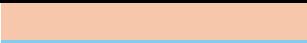
- 40% for person hours of delay reduction
- 40% for reduction in fatal and severe injury crashes
- 20% for accessibility to jobs
- Project cost is factored into the final score

- **Inflation factors were applied to the project costs**
- **Initial funding scenario created based on prioritization using SMART SCALE-like process until we reached \$2.25B**
- **Staff reviewed results for operational considerations- resulting in two recommended changes**

SMART SCALE-like Prioritization

District	County	NB/SB	From/To Mile Markers	Length (mi)	Project Type	Project Rank
Staunton	Rockingham County	SB	251.1 to 250.7	0.4	Acceleration lane extension	1
Bristol	Washington County	NB	25.1 to 25.7	0.5	Acceleration lane extension	2
Bristol	Washington County	NB	29.5 to 30.1	0.5	Acceleration lane extension	3
Staunton	Shenandoah County	NB	265.2 to 265.5	0.3	Acceleration lane extension	4
Staunton	Frederick County	SB	307.5 to 307.3	0.2	Deceleration lane extension	5
Salem	Botetourt County	SB	162.0 to 160.9	1.1	Acceleration lane extension	6
Bristol	Washington County	NB	4.5 to 5.0	0.4	Auxiliary lane between Exit 3 and Exit 5	7
Staunton	Augusta County	NB	227.8 to 228.1	0.3	Acceleration lane extension	8
Staunton	Shenandoah County	SB	269.3 to 268.2	1.1	Acceleration lane extension	9
Staunton	Augusta County	NB	220.8 to 221.5	0.7	Auxiliary lane between Exit 220 and Exit 222	10
Bristol	Washington County	NB	19.9 to 20.2	0.3	Acceleration lane extension	11
Staunton	Augusta County	SB	221.7 to 216.7	5.0	Widening between Exit 213B and 221	12
Staunton	Rockbridge County	NB	204.8 to 209.9	5.1	Widening between Exit 205 and MM 209	13
		SB	209.9 to 204.8	5.1		
Staunton	Augusta County	NB	209.9 to 212.9	3.0	Widening between MM 209 and Exit 213	14
		SB	212.9 to 209.9	3.0		
Salem	Pulaski County	SB	104.9 to 103.4	1.5	Truck climbing lane between Exit 105 and MM 103	15
Salem	Montgomery County	NB	105.6 to 108.7	3.1	Truck climbing lane between Exit 105 and Exit 109	16

LEGEND

	- Denotes a project added by the CTB to the I-81 Corridor Improvement Program (CIP) in January 2025
	- Denotes 'Cut' line for funding
*	-Denotes constructability or operational concern

SMART SCALE-like Prioritization, continued

District	County	NB/SB	From/To Mile Markers		Length (mi)	Project Type	Project Rank	
Staunton	Augusta County	NB	230.4	to	234.4	Widening between MM 230 and Exit 235*	17	
		SB	234.5	to	230.2			
Staunton	Augusta County	NB	228.7	to	230.5	Widening between MM 229 and MM 230*	18	
		SB	230.4	to	228.7			
Staunton	Augusta County Rockingham County	NB	237.4	to	242.2	Widening between MM 238 and MM 242	19	
		SB	242.2	to	237.5			
Bristol	Washington County	SB	24.8	to	24.4	Acceleration lane extension	20	
Staunton	Shenandoah County	NB	296.8	to	298.6	1.8	Widening between Exit 296 to Exit 298*	21
Bristol	Washington County	NB	9.9	to	14.9	5.0	Widening between Exit 8 to Exit 14	22
		SB	14.9	to	9.9			
Staunton	Rockbridge County	NB	202.2	to	204.8	2.6	Truck climbing lane between MM 202 and MM 205	23
Salem	Botetourt County	NB	157.0	to	163.1	6.1	Widening between Exit 156 and Exit 162	24
		SB	163.1	to	157.0			
Staunton	Rockbridge County	SB	199.6	to	194.9	4.7	Widening between Exit 200 and 195	25
Bristol	Washington County	NB	33.9	to	34.8	0.9	Curve improvements between MM 33 and MM 35	26
Staunton	Augusta County	NB	225.2	to	229	3.8	Widening between Exit 225 to MM 229	27
		SB	229	to	225.4			

LEGEND

	- Denotes a project added by the CTB to the I-81 Corridor Improvement Program (CIP) in January 2025
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SMART SCALE-like Prioritization, continued

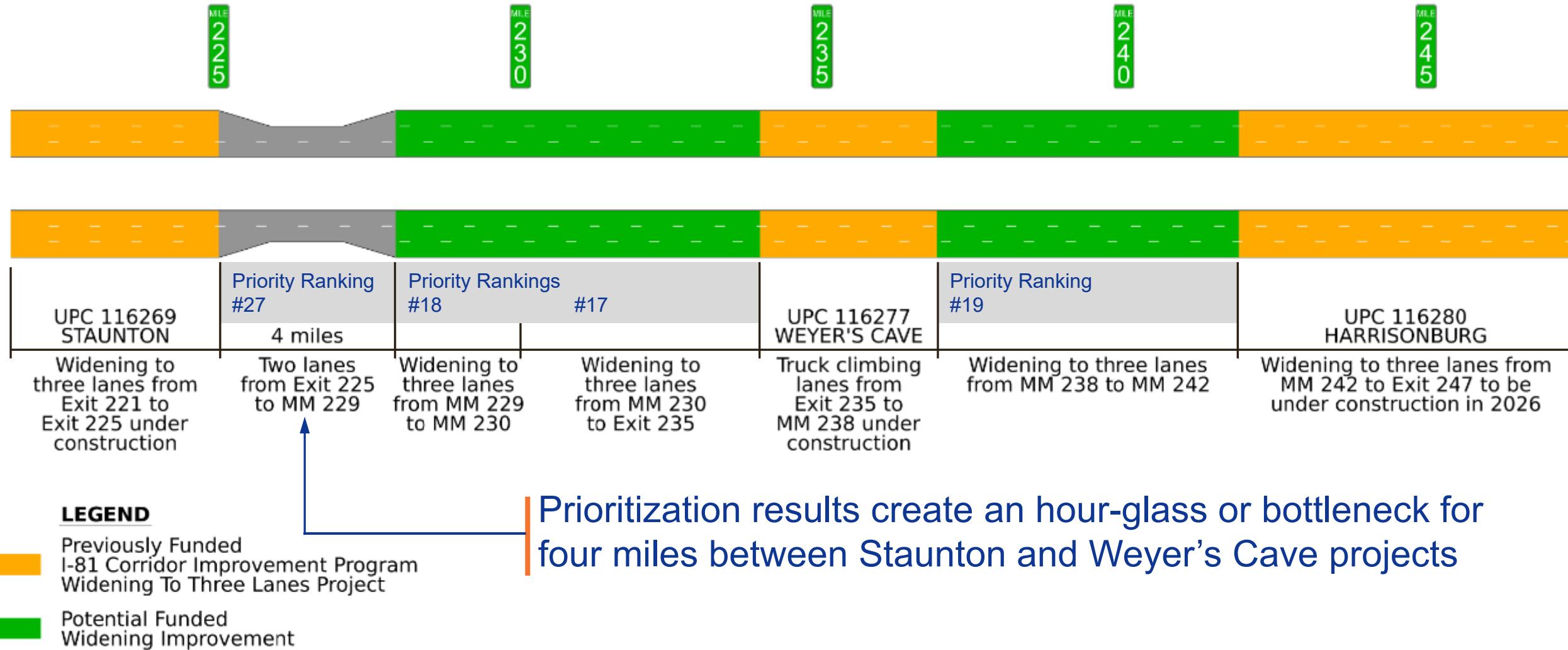
District	County	NB/SB	From/To Mile Markers	Length (mi)	Project Type	Project Rank
Bristol	Wythe County	NB	67.0 to 69.0	2.0	Curve improvements between Exit 67 and 69	28
Staunton	Rockbridge County	NB	190.5 to 195.7	5.2	Widening between Exit 188A and Exit 200	29
Staunton	Shenandoah County	NB	298.6 to 300.3	1.7	Widening between Exit 298 and Exit 300 and I-81 NB to I-66 EB Ramp	30
Staunton	Rockbridge County	SB	196.6 to 189.9	6.7	Widening between Exit 195 and Exit 188B	31
Staunton	Rockbridge County	SB	190.0 to 186.9	3.1	Truck climbing lane between MM 190 and Exit 188	32
Salem	Botetourt County	NB	156.6 to 156.9	0.3	Acceleration lane extension	33
Staunton	Frederick County	NB	310.6 to 313.3	2.7	Widening between Exit 310 and Exit 313	34
Salem	Botetourt County	NB	150.4 to 157.2	6.8	Widening between Exit 150 and Exit 156	35
		SB	157.2 to 150.4			
Salem	Pulaski County	NB	94.5 to 94.8	0.3	Acceleration lane extension	36
Salem	Botetourt County	NB	163.0 to 166.9	3.9	Widening between Exit 162 and Exit 167	37
		SB	166.9 to 163.0			
Salem	Botetourt County	NB	166.9 to 169.0	2.1	'S-Curves' realignment	38
		SB	168.9 to 166.9	2.0		
Staunton	Rockbridge County	NB	188.6 to 188.8	0.2	Deceleration lane extension	39
Bristol	Smyth County	NB	35.8 to 36.2	0.4	Acceleration lane extension	40
Staunton	Rockbridge County	SB	175.8 to 175.2	0.6	Acceleration lane extension	41

LEGEND

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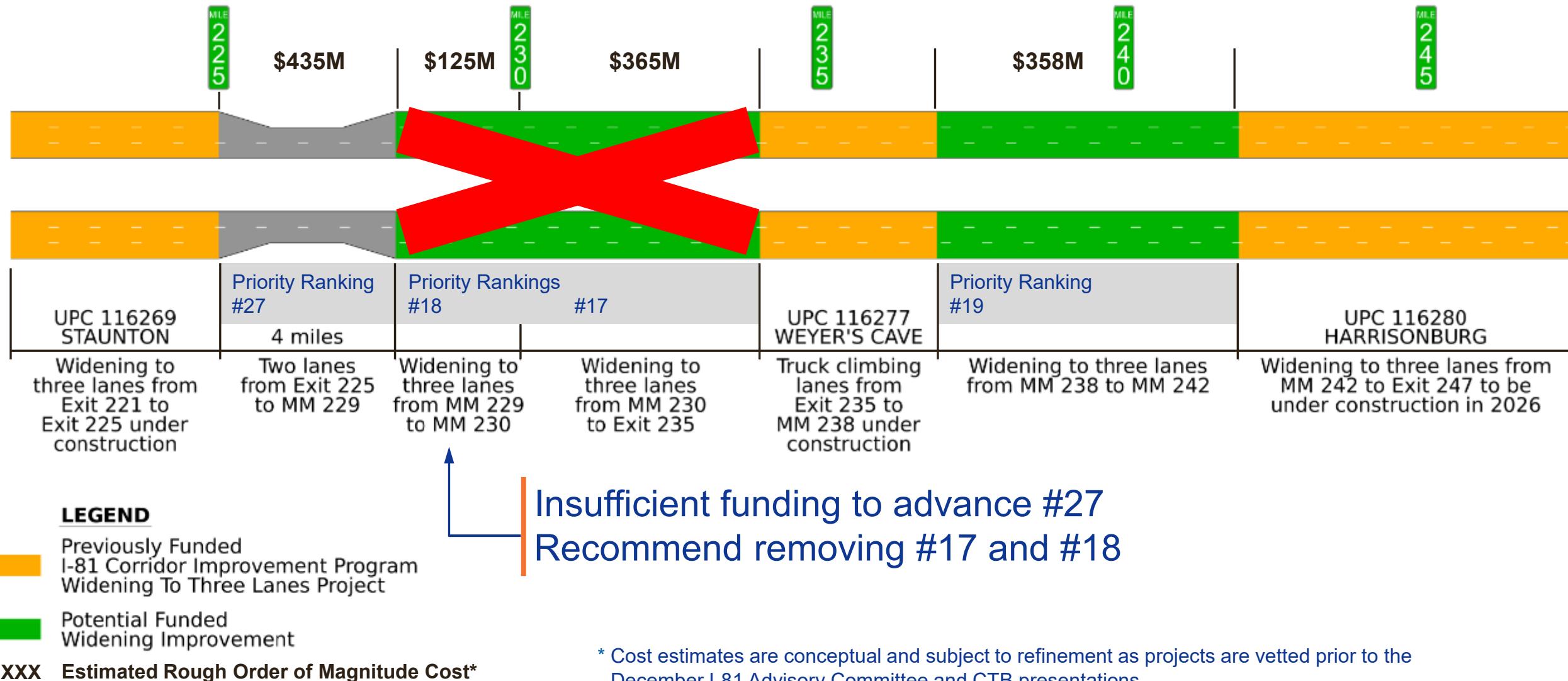
Staff Recommended Funding Scenario - Capital

Operational Considerations – Project Sequencing



Staff Recommended Funding Scenario - Capital

Operational Considerations – Project Sequencing and Recommendation



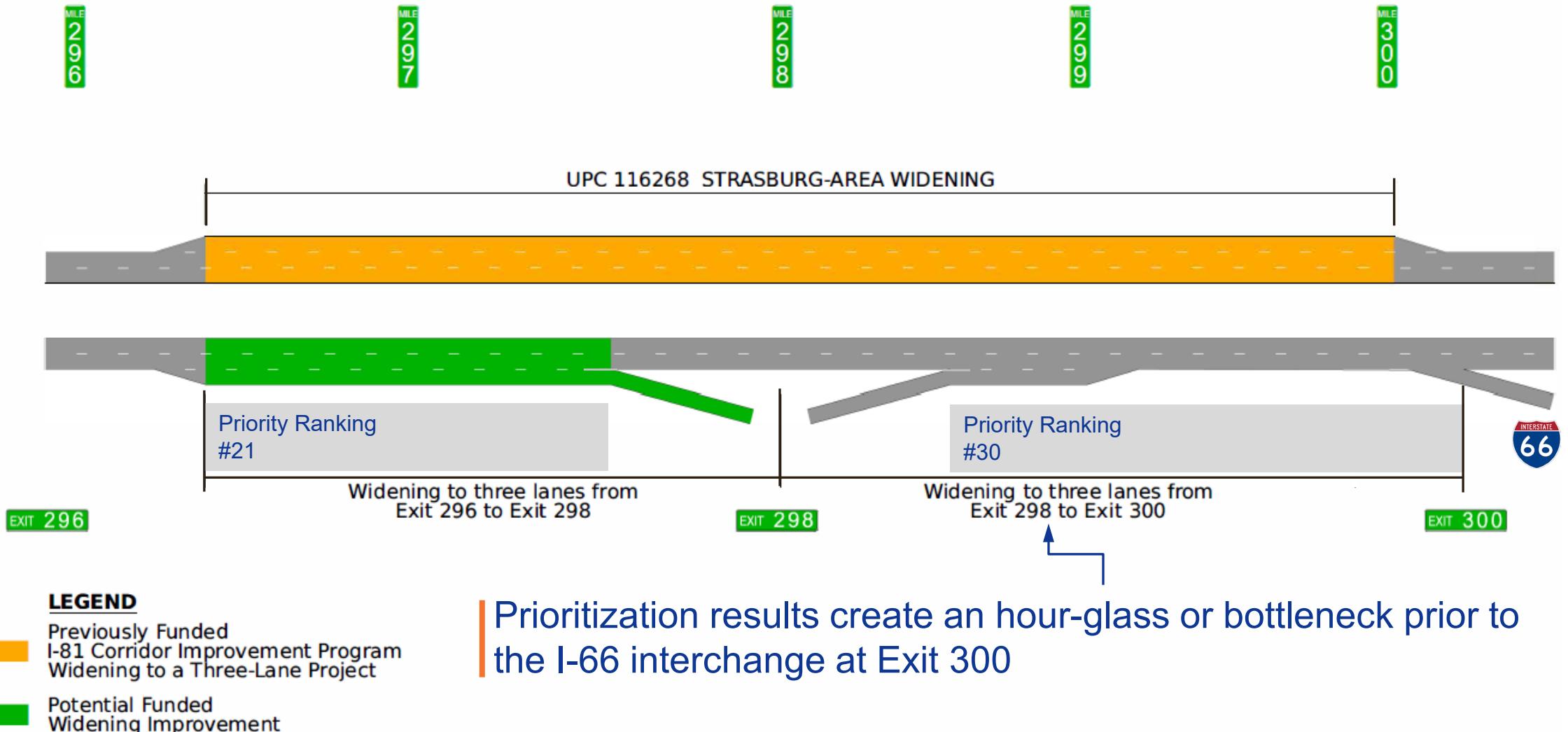
Recommended Change #1

District	County	NB/SB	From/To Mile Markers	Length (mi)	Project Type	Project Rank
Salem	Montgomery County	NB	105.6 to 108.7	3.1	Truck climbing lane between Exit 105 and Exit 109	16
Staunton	Augusta County	NB	230.4 to 234.4	4.0	Widening between MM 230 and Exit 235*	17
		SB	234.5 to 230.2	4.3		
Staunton	Augusta County	NB	228.7 to 230.5	1.8	Widening between MM 229 and MM 230*	18
		SB	230.4 to 228.7	1.7		
Staunton	Augusta County Rockingham County	NB	237.4 to 242.2	4.8	Widening between MM 238 and MM 242	19
		SB	242.2 to 237.5	4.7		
Bristol	Washington County	SB	24.8 to 24.4	0.4	Acceleration lane extension	20
Staunton	Shenandoah County	NB	296.8 to 298.6	1.8	Widening between Exit 296 to Exit 298*	21
Bristol	Washington County	NB	9.9 to 14.9	5.0	Widening between MM 8 to Exit 14	22
		SB	14.9 to 9.9	5.0		
Staunton	Rockbridge County	NB	202.2 to 204.8	2.6	Truck climbing lane between MM 202 and MM 205	23
Salem	Botetourt County	NB	157.0 to 163.1	6.1	Widening between Exit 156 and Exit 162	24
		SB	163.1 to 157.0			
Staunton	Rockbridge County	SB	199.6 to 194.9	4.7	Widening between Exit 200 and 195	25
Bristol	Washington County	NB	33.9 to 34.8	0.9	Curve improvements between MM 33 and MM 35	26
Staunton	Augusta County	NB	225.2 to 229	3.8	Widening between Exit 225 to MM 229	27
		SB	229.0 to 225.4	3.6		
Bristol	Wythe County	NB	67.0 to 69.0	2.0	Curve improvements between Exit 67 and 69	28
Staunton	Rockbridge County	NB	190.5 to 195.7	5.2	Widening between Exit 188A and Exit 200	29
Staunton	Shenandoah County	NB	298.6 to 300.3	1.7	Widening between Exit 298 and Exit 300 and I-81 NB to I-66 EB ramp	30
Staunton	Rockbridge County	SB	196.6 to 189.9	6.7	Widening between Exit 195 and Exit 188B	31

- Removing #17 and #18 brings #21 and #22 into the funding scenario

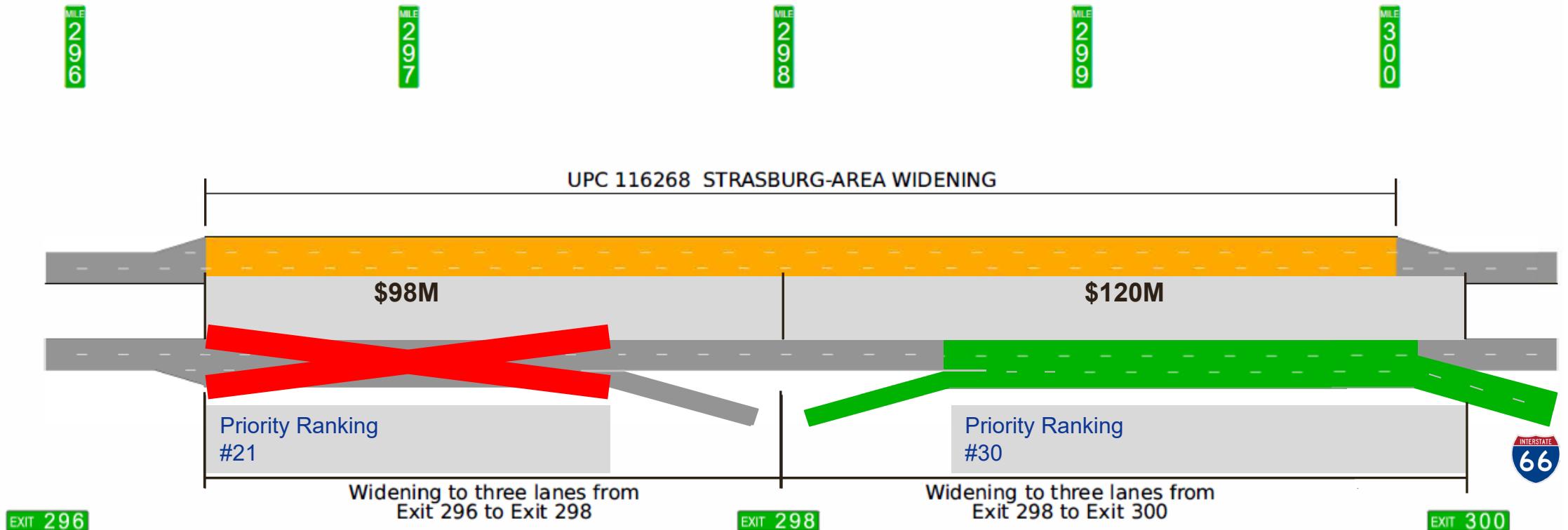
Staff Recommended Funding Scenario - Capital

Operational Considerations – Project Sequencing



Staff Recommended Funding Scenario - Capital

Operational Considerations – Project Sequencing and Recommendation



LEGEND

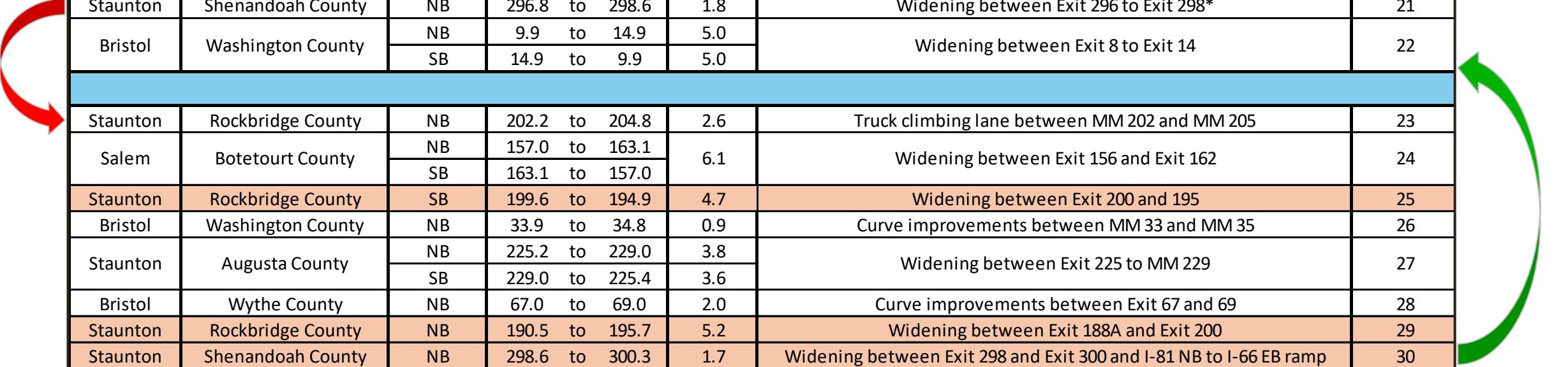
- Previously Funded I-81 Corridor Improvement Program Widening to a Three-Lane Project
- Potential Funded Widening Improvement
- \$XXX Estimated Rough Order of Magnitude Cost*

Staff recommend substituting #30 for #21:

- Addresses hour-glass effect
- Benefit score is almost identical, difference in rank is attributed to cost
- #30 anticipated to improve performance issue within #21

* Cost estimates are conceptual and subject to refinement as projects are vetted prior to the December I-81 Advisory Committee and CTB presentations.

Recommended Change #2



District	County	NB/SB	From/To Mile Markers	Length (mi)	Project Type	Project Rank
Staunton	Augusta County	NB	237.4 to 242.2	4.8	Widening between MM 238 and MM 242	19
	Rockingham County	SB	242.2 to 237.5	4.7		
Bristol	Washington County	SB	24.8 to 24.4	0.4	Acceleration lane extension	20
Staunton	Shenandoah County	NB	296.8 to 298.6	1.8	Widening between Exit 296 to Exit 298*	21
Bristol	Washington County	NB	9.9 to 14.9	5.0		
		SB	14.9 to 9.9	5.0		
Staunton	Rockbridge County	NB	202.2 to 204.8	2.6	Truck climbing lane between MM 202 and MM 205	23
Salem	Botetourt County	NB	157.0 to 163.1	6.1	Widening between Exit 156 and Exit 162	24
		SB	163.1 to 157.0			
Staunton	Rockbridge County	SB	199.6 to 194.9	4.7	Widening between Exit 200 and 195	25
Bristol	Washington County	NB	33.9 to 34.8	0.9	Curve improvements between MM 33 and MM 35	26
Staunton	Augusta County	NB	225.2 to 229.0	3.8	Widening between Exit 225 to MM 229	27
		SB	229.0 to 225.4	3.6		
Bristol	Wythe County	NB	67.0 to 69.0	2.0	Curve improvements between Exit 67 and 69	28
Staunton	Rockbridge County	NB	190.5 to 195.7	5.2	Widening between Exit 188A and Exit 200	29
Staunton	Shenandoah County	NB	298.6 to 300.3	1.7	Widening between Exit 298 and Exit 300 and I-81 NB to I-66 EB ramp	30
Staunton	Rockbridge County	SB	196.6 to 189.9	6.7	Widening between Exit 195 and Exit 188B	31

- Substitute #30 for #21 in the funding scenario

Staff Recommended Funding Scenario - Capital

Bristol District

Project	County	Mile Marker From/To	Direction	Corridor Prioritization Rank
Acceleration Lane Extension	Washington	25.1 to 25.7	NB	2
Acceleration Lane Extension	Washington	29.5 to 30.1	NB	3
Auxiliary Lane	Washington	4.5 to 5.0	NB	7
Acceleration Lane Extension	Washington	19.9 to 20.2	NB	11
Acceleration Lane Extension	Washington	24.8 to 24.4	SB	20
Widening (+1 Lane)	Washington	9.9 to 14.9	NB/SB	22
Grand Total Rough Order of Magnitude Range*	\$370-486M			

* Cost estimates are conceptual and subject to refinement as projects are vetted prior to the December I-81 Advisory Committee and CTB presentations.

Staff Recommended Funding Scenario - Capital

Salem District

Project	County	Mile Marker From/To	Direction	Corridor Prioritization Rank
Acceleration Lane Extension	Botetourt	162.0 to 160.9	SB	6
Truck Climbing Lane	Pulaski	104.9 to 103.4	SB	15
Truck Climbing Lane	Montgomery	105.6 to 108.7	NB	16
Grand Total Rough Order of Magnitude Range*	\$271-425M			

* Cost estimates are conceptual and subject to refinement as projects are vetted prior to the December I-81 Advisory Committee and CTB presentations.

Staff Recommended Funding Scenario - Capital

Staunton District (1 of 2)

Project	County	Mile Marker From/To	Direction	Corridor Prioritization Rank
Acceleration Lane Extension	Rockingham	251.1 to 250.7	SB	1
Acceleration Lane Extension	Shenandoah	265.2 to 265.5	NB	4
Deceleration Lane Extension	Frederick	307.5 to 307.3	SB	5
Acceleration Lane Extension	Augusta	227.8 to 228.1	NB	8
Acceleration Lane Extension	Shenandoah	269.3 to 268.2	SB	9
Auxiliary Lane	Augusta	220.8 to 221.5	NB	10
Widening (+1 Lane)	Augusta	221.7 to 216.7	SB	12
Widening (+1 Lane)	Rockbridge	204.8 to 209.9	NB/SB	13

* Cost estimates are conceptual and subject to refinement as projects are vetted prior to the December I-81 Advisory Committee and CTB presentations.

Staff Recommended Funding Scenario - Capital

Staunton District (2 of 2)

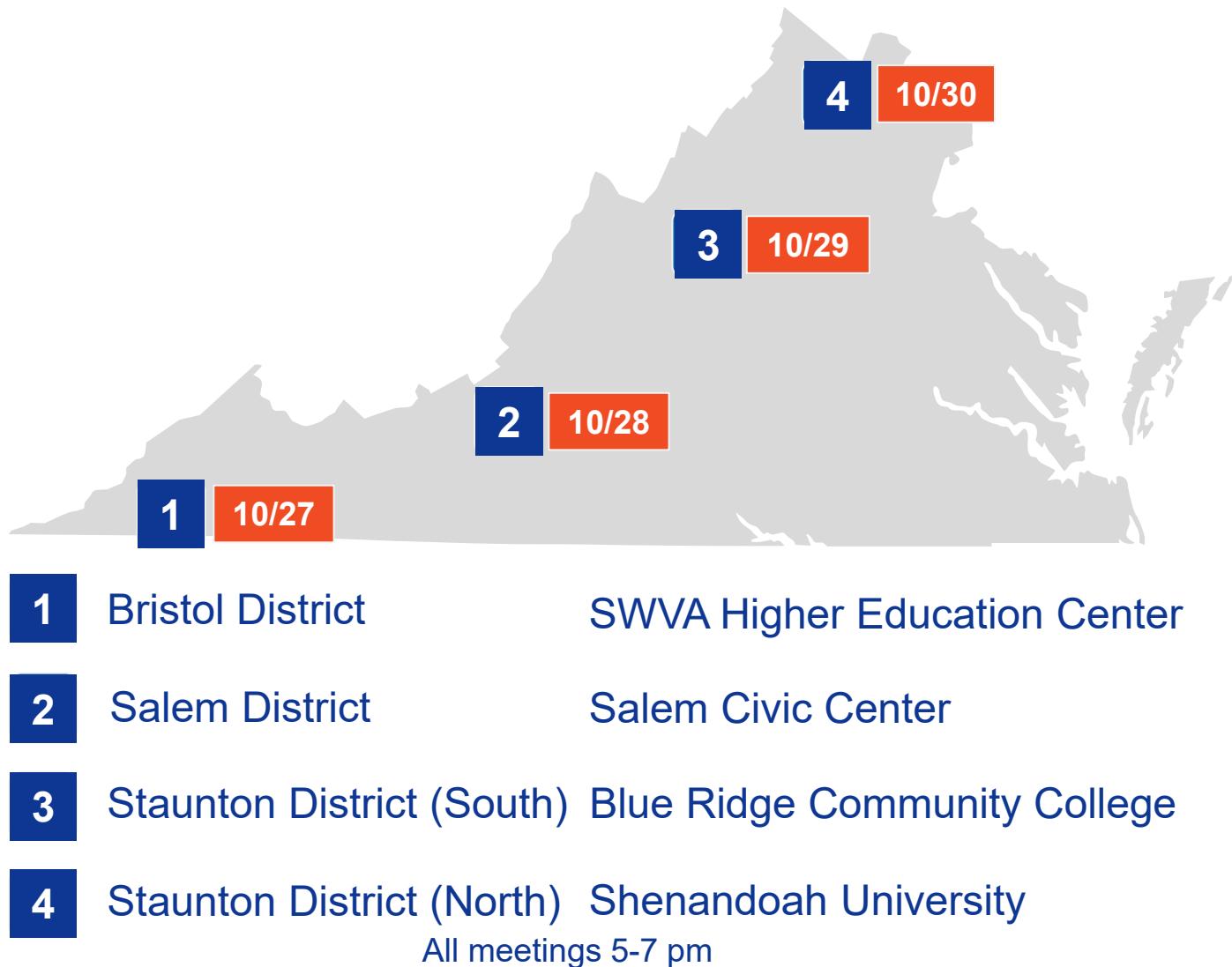
Project	City/County	Mile Marker From/To	Direction	Corridor Prioritization Rank
Widening (+1 Lane)	Augusta	209.9 to 212.9	NB/SB	14
Widening (+1 Lane)	Augusta/Rockingham	237.4 to 242.2	NB/SB	19
Widening (+1 Lane)	Shenandoah	298.6 to 300.3	NB	30
Grand Total Rough Order of Magnitude Range*	\$1.0-1.9B			

* Cost estimates are conceptual and subject to refinement as projects are vetted prior to the December I-81 Advisory Committee and CTB presentations.

Next Steps- Round 3 Public Outreach

Prioritized Solutions

- Four in-person meetings to be held week of October 27
- Maps displayed with prioritized solutions and cost estimates
- \$3M in operational improvements included
- Virtual survey to gather public comment on prioritization
- All materials shared on the project website



Next Steps – I-81 CIP Update

November 2025 to January 2026

- Share Round 3 public feedback and staff funding scenario with I-81 Advisory Committee
- Receive I-81 Advisory Committee recommendation on funding scenario
- CTB considers funding scenario (December 2025)
- CTB adopts final funding scenario and update to the I-81 CIP

Questions

Study Manager: Rob Williams, AICP



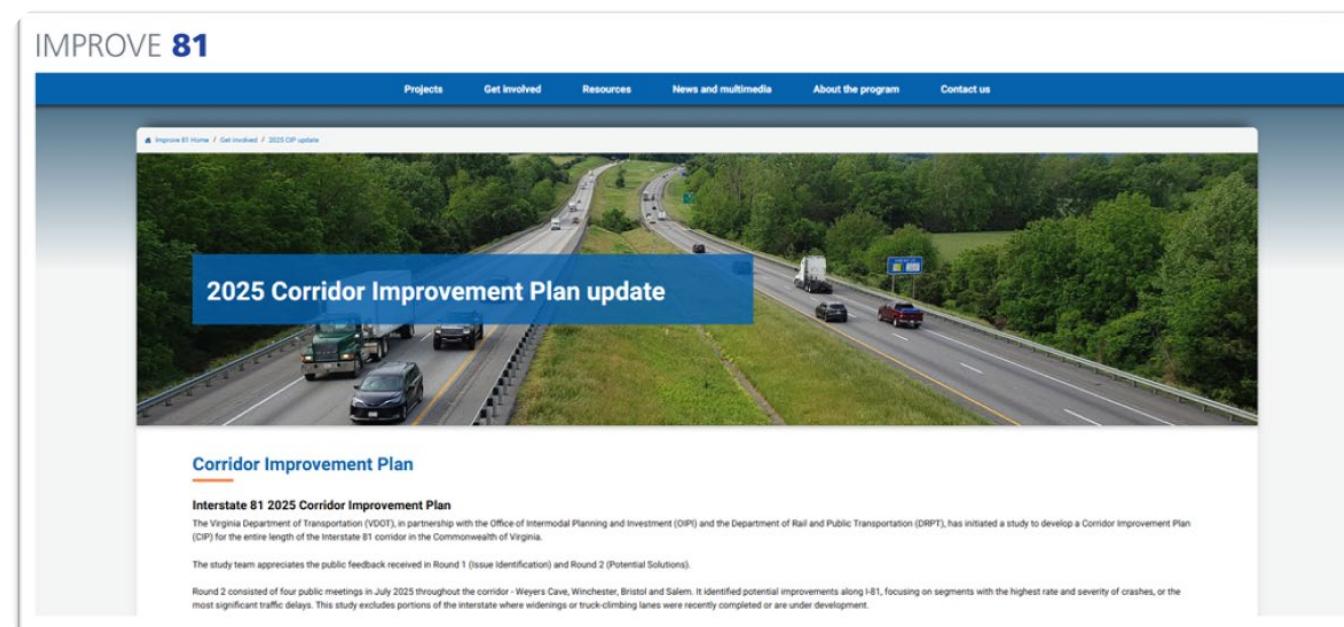
va81corridorplan@vdot.virginia.gov



804-371-4868



www.improve81.org



The screenshot shows the homepage of the IMPROVE 81 website. The header features the text "IMPROVE 81" and a navigation menu with links to "Projects", "Get involved", "Resources", "News and multimedia", "About the program", and "Contact us". The main content area has a large image of a multi-lane highway with green trees on both sides. A blue banner across the image contains the text "2025 Corridor Improvement Plan update". Below the banner, a section titled "Corridor Improvement Plan" is visible, along with a detailed description of the plan and its purpose. The overall layout is clean and professional.



I-81 Corridor Improvement Plan

SMART SCALE-like Prioritization Results

Date: 10/10/2025

District	Municipality	Direction	Mile Marker	Total Length (Miles)	Description	ROM - Estimate Future Year Costs	SS LIKE SCORE RANK
Staunton	Rockingham County	SB	251.1 to 250.7	0.4	Acceleration lane extension	\$ 4,600,000	1
Bristol	Washington County	NB	25.1 to 25.7	0.5	Acceleration lane extension	\$ 7,000,000	2
Bristol	Washington County	NB	29.5 to 30.1	0.5	Acceleration lane extension	\$ 7,000,000	3
Staunton	Shenandoah County	NB	265.2 to 265.5	0.3	Acceleration lane extension	\$ 4,000,000	4
Staunton	Frederick County	SB	307.5 to 307.3	0.2	Deceleration lane extension	\$ 3,900,000	5
Salem	Botetourt County	SB	162.0 to 160.9	1.1	Acceleration lane extension	\$ 73,000,000	6
Bristol	Washington County	NB	4.5 to 5.0	0.4	Auxiliary lane between Exit 3 and Exit 5	\$ 12,000,000	7
Staunton	Augusta County	NB	227.8 to 228.1	0.3	Acceleration lane extension	\$ 24,000,000	8
Staunton	Shenandoah County	SB	269.3 to 268.2	1.1	Acceleration lane extension	\$ 140,000,000	9
Staunton	Augusta County	NB	220.8 to 221.5	0.7	Auxiliary lane between Exit 220 and Exit 222	\$ 13,000,000	10
Bristol	Washington County	NB	19.9 to 20.2	0.3	Acceleration lane extension	\$ 6,000,000	11
Staunton	Augusta County	SB	221.7 to 216.7	5.0	Widening between Exit 213B and 221	\$ 179,000,000	12
Staunton	Rockbridge County	NB	204.8 to 209.9	5.1	Widening between Exit 205 and MM 209	\$ 334,000,000	13
		SB	209.9 to 204.8	5.1			
Staunton	Augusta County	NB	209.9 to 212.9	3.0	Widening between MM 209 and Exit 213	\$ 273,000,000	14
		SB	212.9 to 209.9	3.0			
Salem	Pulaski County	SB	104.9 to 103.4	1.5	Truck climbing lane between Exit 105 and MM 103	\$ 84,000,000	15
Salem	Montgomery County	NB	105.6 to 108.7	3.1	Truck climbing lane between Exit 105 and Exit 109	\$ 191,000,000	16
Staunton	Augusta County	NB	230.4 to 234.4	4.0	Widening between MM 230 and Exit 235*	\$ 364,900,000	17
		SB	234.5 to 230.2	4.3			
Staunton	Augusta County	NB	228.7 to 230.5	1.8	Widening between MM 229 and MM 230*	\$ 125,000,000	18
		SB	230.4 to 228.7	1.7			
Staunton	Augusta County	NB	237.4 to 242.2	4.8	Widening between MM 238 and MM 242	\$ 358,000,000	19
		SB	242.2 to 237.5	4.7			
Bristol	Washington County	SB	24.8 to 24.4	0.4	Acceleration lane extension	\$ 8,200,000	20
						\$ 2,211,600,000	
Staunton	Shenandoah County	NB	296.8 to 298.6	1.8	Widening between Exit 296 to Exit 298*	\$ 98,000,000	21
Bristol	Washington County	NB	9.9 to 14.9	5.0	Widening between Exit 8 to Exit 14	\$ 388,000,000	22
		SB	14.9 to 9.9	5.0			
Staunton	Rockbridge County	NB	202.2 to 204.8	2.6	Truck climbing lane between MM 202 and MM 205	\$ 51,400,000	23
Salem	Botetourt County	NB	157.0 to 163.1	6.1	Widening between Exit 156 and Exit 162	\$ 811,500,000	24
		SB	163.1 to 157.0	6.1			
Staunton	Rockbridge County	SB	199.6 to 194.9	4.7	Widening between Exit 200 and 195	\$ 266,600,000	25
Bristol	Washington County	NB	33.9 to 34.8	0.9	Curve improvements between MM 33 and MM 35	\$ 19,150,000	26
Staunton	Augusta County	NB	225.2 to 229	3.8	Widening between Exit 225 to MM 229	\$ 434,700,000	27
		SB	229 to 225.4	3.6			
Bristol	Wythe County	NB	67.0 to 69.0	2.0	Curve improvements between Exit 67 and 69	\$ 32,300,000	28
Staunton	Rockbridge County	NB	190.5 to 195.7	5.2	Widening between Exit 188A and Exit 200	\$ 205,400,000	29
Staunton	Shenandoah County	NB	298.6 to 300.3	1.7	Widening between Exit 298 and Exit 300 and I-81 NB to I-66 EB Ramp	\$ 120,000,000	30
Staunton	Rockbridge County	SB	196.6 to 189.9	6.7	Widening between Exit 195 and Exit 188B	\$ 168,400,000	31
Staunton	Rockbridge County	SB	190.0 to 186.9	3.1	Truck climbing lane between MM 190 and Exit 188	\$ 128,400,000	32
Salem	Botetourt County	NB	156.6 to 156.9	0.3	Acceleration lane extension	\$ 13,500,000	33
Staunton	Frederick County	NB	310.6 to 313.3	2.7	Widening between Exit 310 and Exit 313	\$ 182,800,000	34
Salem	Botetourt County	NB	150.4 to 157.2	6.8	Widening between Exit 150 and Exit 156	\$ 801,900,000	35
		SB	157.2 to 150.4	6.8			
Salem	Pulaski County	NB	94.5 to 94.8	0.3	Acceleration lane extension	\$ 42,200,000	36
Salem	Botetourt County	NB	163.0 to 166.9	3.9	Widening between Exit 162 and Exit 167	\$ 778,000,000	37
		SB	166.9 to 163.0	3.9			
Salem	Botetourt County	NB	166.9 to 169.0	2.1	'S-Curves' realignment	\$ 327,200,000	38
		SB	168.9 to 166.9	2.0			
Staunton	Rockbridge County	NB	188.6 to 188.8	0.2	Deceleration lane extension	\$ 3,400,000	39
Bristol	Smyth County	NB	35.8 to 36.2	0.4	Acceleration lane extension	\$ 7,250,000	40
Staunton	Rockbridge County	SB	175.8 to 175.2	0.6	Acceleration lane extension	\$ 7,500,000	41
					I-81 CIP Update Total Potential Improvements Cost	\$ 7,099,200,000	

LEGEND

- Denotes a project added by the CTB to the I-81 Corridor Improvement Program (CIP) in January 2025

- Denotes 'Cut' line for funding

*

=Denotes constructability or operational concern

I-81 Corridor Improvement Plan

Staff Recommended Funding Scenario

Date: 10/10/2025

District	County	Direction	Mile Marker	Total Length (Miles)	Description	ROM - Estimate Future Year Costs	SS LIKE SCORE RANK
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Bristol	Washington County	NB	25.1 to 25.7	0.5	Acceleration lane extension	\$ 7,000,000	2
Bristol	Washington County	NB	29.5 to 30.1	0.5	Acceleration lane extension	\$ 7,000,000	3
Staunton	Shenandoah County	NB	265.2 to 265.5	0.3	Acceleration lane extension	\$ 4,000,000	4
Staunton	Frederick County	SB	307.5 to 307.3	0.2	Deceleration lane extension	\$ 3,900,000	5
Salem	Botetourt County	SB	162.0 to 160.9	1.1	Acceleration lane extension	\$ 73,000,000	6
Bristol	Washington County	NB	4.5 to 5.0	0.4	Auxiliary lane between Exit 3 and Exit 5	\$ 12,000,000	7
Staunton	Augusta County	NB	227.8 to 228.1	0.3	Acceleration lane extension	\$ 24,000,000	8
Staunton	Shenandoah County	SB	269.3 to 268.2	1.1	Acceleration lane extension	\$ 140,000,000	9
Staunton	Augusta County	NB	220.8 to 221.5	0.7	Auxiliary lane between Exit 220 and Exit 222	\$ 13,000,000	10
Bristol	Washington County	NB	19.9 to 20.2	0.3	Acceleration lane extension	\$ 6,000,000	11
Staunton	Augusta County	SB	221.7 to 216.7	5.0	Widening between Exit 213B and 221	\$ 179,000,000	12
Staunton	Rockbridge County	NB	204.8 to 209.9	5.1	Widening between Exit 205 and MM 209	\$ 334,000,000	13
		SB	209.9 to 204.8	5.1			
Staunton	Augusta County	NB	209.9 to 212.9	3.0	Widening between MM 209 and Exit 213	\$ 273,000,000	14
		SB	212.9 to 209.9	3.0			
Salem	Pulaski County	SB	104.9 to 103.4	1.5	Truck climbing lane between Exit 105 and MM 103	\$ 84,000,000	15
Salem	Montgomery County	NB	105.6 to 108.7	3.1	Truck climbing lane between Exit 105 and Exit 109	\$ 191,000,000	16
Staunton	Augusta County Rockingham County	NB	237.4 to 242.2	4.8	Widening between MM 238 and MM 242	\$ 358,000,000	19
		SB	242.2 to 237.5	4.7			
Bristol	Washington County	SB	24.8 to 24.4	0.4	Acceleration lane extension	\$ 8,200,000	20
Bristol	Washington County	NB	9.9 to 14.9	5.0	Widening between MM 8 to Exit 14	\$ 388,000,000	22
		SB	14.9 to 9.9	5.0			
Staunton	Shenandoah County	NB	298.6 to 300.3	1.7	Widening between Exit 298 and Exit 300 and I-81 NB to I-66 EB Ramp	\$ 120,000,000	30
						\$ 2,229,700,000	
Staunton	Augusta County	NB	230.4 to 234.4	4.0	Widening between MM 230 and Exit 235*	\$ 364,900,000	17
		SB	234.5 to 230.2	4.3			
Staunton	Augusta County	NB	228.7 to 230.5	1.8	Widening between MM 229 and MM 230*	\$ 125,000,000	18
		SB	230.4 to 228.7	1.7			
Staunton	Shenandoah County	NB	296.8 to 298.6	1.8	Widening between Exit 296 to Exit 298*	\$ 98,000,000	21
Staunton	Rockbridge County	NB	202.2 to 204.8	2.6	Truck climbing lane between MM 202 and MM 205	\$ 51,400,000	23
Salem	Botetourt County	NB	157.0 to 163.1	6.1	Widening between Exit 156 and Exit 162	\$ 811,500,000	24
		SB	163.1 to 157.0				
Staunton	Rockbridge County	SB	199.6 to 194.9	4.7	Widening between Exit 200 and 195	\$ 266,600,000	25
Bristol	Washington County	NB	33.9 to 34.8	0.9	Curve improvements between MM 33 and MM 35	\$ 19,150,000	26
Staunton	Augusta County	NB	225.2 to 229	3.8	Widening between Exit 225 to MM 229	\$ 434,700,000	27
		SB	229 to 225.4				
Bristol	Wythe County	NB	67.0 to 69.0	2.0	Curve improvements between Exit 67 and 69	\$ 32,300,000	28
Staunton	Rockbridge County	NB	190.5 to 195.7	5.2	Widening between Exit 188A and Exit 200	\$ 205,400,000	29
Staunton	Rockbridge County	SB	196.6 to 189.9	6.7	Widening between Exit 195 and Exit 188B	\$ 168,400,000	31
Staunton	Rockbridge County	SB	190.0 to 186.9	3.1	Truck climbing lane between MM 190 and Exit 188	\$ 128,400,000	32
Salem	Botetourt County	NB	156.6 to 156.9	0.3	Acceleration lane extension	\$ 13,500,000	33
Staunton	Frederick County	NB	310.6 to 313.3	2.7	Widening between Exit 310 and Exit 313	\$ 182,800,000	34
Salem	Botetourt County	NB	150.4 to 157.2	6.8	Widening between Exit 150 and Exit 156	\$ 801,900,000	35
		SB	157.2 to 150.4				
Salem	Pulaski County	NB	94.5 to 94.8	0.3	Acceleration lane extension	\$ 42,200,000	36
Salem	Botetourt County	NB	163.0 to 166.9	3.9	Widening between Exit 162 and Exit 167	\$ 778,000,000	37
		SB	166.9 to 163.0				
Salem	Botetourt County	NB	166.9 to 169.0	2.1	'S-Curves' realignment	\$ 327,200,000	38
		SB	168.9 to 166.9				
Staunton	Rockbridge County	NB	188.6 to 188.8	0.2	Deceleration lane extension	\$ 3,400,000	39
Bristol	Smyth County	NB	35.8 to 36.2	0.4	Acceleration lane extension	\$ 7,250,000	40
Staunton	Rockbridge County	SB	175.8 to 175.2	0.6	Acceleration lane extension	\$ 7,500,000	41
					I-81 CIP Update Total Potential Improvements Cost	\$ 7,099,200,000	

LEGEND

- Denotes a project added by the CTB to the I-81 Corridor Improvement Program (CIP) in January 2025

- Denotes 'Cut' line for funding

*

=Denotes constructability or operational concern